

**3R - 336**

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# **REPORTS**

**DATE:**

**1999**

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Public Service Company  
of New Mexico  
Alvarado Square MS 0408  
Albuquerque, NM 87158

# RECEIVED

April 5, 1999

APR 07 1999

Mr. William Olson  
Hydrogeologist  
Oil Conservation Division  
2040 So. Pacheco  
Santa Fe, New Mexico 87505

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION



## RE: 1999 SAN JUAN BASIN ANNUAL GROUNDWATER REPORT

Dear Bill:

PNM is pleased to submit the 1999 Annual Groundwater Report on Unlined Surface Impoundments in the San Juan Basin. Pursuant to PNM's Groundwater Management Program for Unlined Surface Impoundment Closures, the report details the ongoing investigation/remedial activities at unlined surface impoundments having groundwater contamination as identified by PNM. A list of groundwater sites reported in this document is provided below.

Blanco Wash Drip	Mangum 1E
Davis 1	McClanahan 22
Dogie East Pit	McClanahan A 2E
Dogie North Pit	McCoy Gas Com A1
Florance 124	Miles Federal 1E Drip
Florance 32A	O' Shea 1M
Florance 40	Patterson A Com A1
Florance 44	Pritchard 2
Florance M 47X	Randleman 1
Hampton 4M	Reid 16 Drip
Honolulu Drip	Turner 1A
Ice Canyon Drip	Wilmerding 1M
Jacques 2A	Zachry 18E
Jicarilla Contract 147-6	
Linda 1A	

Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM will request closure of four of the above sites, the Florance 32A, Jacques 2A, Mangum 1E and the McClanahan A2E, with the submittal of the 1st Quarter 1999 Pit Closures Report. This request is based upon the analytical data collected over the last two years at each of the sites. BTEX concentrations have been consistently below WQCC standards for four consecutive quarters.

Upon approval of the groundwater closure report, PNM will plug and abandon all of the groundwater monitoring wells at each of the locations. The concrete pad and metal vault surrounding each well will be removed. The well casing will be cut to ground surface and each well will be plugged to the surface

Bill Olson  
04/05/99  
Page 2

with cement containing 5% bentonite. If you have any questions regarding the contents of the report, please contact me at (505) 241-2974.

Sincerely,



Maureen Gannon  
Project Manager

Enclosure

cc: Colin Adams, Esq.  
Ingrid Deklau, WFS  
Denny Foust, OCD-Aztec Office  
Ron Johnson  
Mark Sikelianos  
Bill VonDrehle, WFS



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ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

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Annual

**Groundwater Report**

1999

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Volume II

***Unlined Surface Impoundments  
San Juan Basin***



**PNMGS Well Site: Miles Federal 1E Drip**

**Groundwater Site Summary Report**

Copies: WFS(1)  
Operator (1)  
NMOCD District Office (1)  
NMOCD Santa Fe (1)

Quarter/Year: 2<sup>nd</sup>/98, 3<sup>rd</sup>/98, 4<sup>th</sup>/98 & 1<sup>st</sup>/99

**Operator:** Dreyfus  
**Sec:** 5 **Twn:** 26N **Rng:** 7W **Unit:** N  
**Canyon:** Largo

**Vulnerable Class:** Original  
**OCD Ranking:** 30  
**Lead Agency:** NMOCD

**Topo Map:** previously submitted

**Well Completion Diagram:** previously submitted.

**Site Map with Analytical Results:** Figure 1

**Groundwater Contour Map:** Figure 2a (May 1998), Figure 2b (September, 1998), Figure 2c (December 1998), & Figure 2d (February, 1999)

**Hydrograph:** Figure 3

**Cation-Anion Groundwater Sampling Results:** Table 1

**Analytical Results:** attached

**Site Hydrology:**

The Miles Federal 1E Drip site lies in the alluvial deposits of Largo Canyon. Largo Canyon is a perennial stream which runs from southeast to northwest across the area of the site. Alluvium lying between steep canyon walls is perhaps 1000 feet wide at the site. Regional flow in the alluvial aquifer would be towards the northwest, following the topographic gradient of Largo Canyon. Groundwater at the site should discharge as surface water flow in Largo Canyon, or follow the regional gradient northwest after joining the flow beneath Largo Canyon. This site is located adjacent to the Miles Federal 1E site (or "Well" site), which was recently closed by OCD.

The water table at the Miles Federal 1E Drip site exhibit a northwesterly flow direction. Existing data indicate a gradient of about 0.003 to 0.004 (0.3 to 0.4 ft/100 ft) to the northwest, consistent with the "Well" site. However, in February 1999, the gradient was much steeper (0.01, or 1.0 ft/100 ft) but still in the same direction (northwest).

The hydrograph (Figure 3) shows that groundwater elevations have remained fairly consistent with a maximum seasonal fluctuation of about one foot, except in the case of MW-3 which dropped over a foot in February, 1999.

**Activities for Previous Year:**

On May 20, September 24, December 9, 1998, and again on February 11, 1999. PNM performed quarterly sampling of groundwater monitoring wells at the Miles Federal 1E Drip site. PNM measured water levels and conducted groundwater sampling in each well for chemical analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX). All sampling was performed in strict compliance with EPA protocol. PNM delivered the samples to OnSite Technologies, Farmington, New Mexico.

On July 31, 1998, an additional monitor well (MW-5) was installed on the northwest-side of the drip location. This well was installed to provide better coverage and to better define the groundwater gradient. In our 1997 groundwater report, monitor well MW-4 was plotted incorrectly to the northeast of MW-3 giving the appearance that all of the wells were in a straight line. The site has been resurveyed incorporating MW-5 into the data. Figure 1 provides an accurate representation of the drip site.

On March 12, 1999, Additional soil remediation of approximately 1300 cubic yards of soil was remediated in the area of monitor well of MW-5. There appeared to be a small band of contaminated soil approximately 1.5 to 2 feet thick north west of the existing pipe line. Of the soil removed, only 360 cubic yards showed any signs of contamination.

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**Public Service Company of New Mexico - Gas Services**

Environmental Services Division - Alvarado Square, MS-0408  
Albuquerque, NM 87158

**Contact:** Maureen Gannon

**Telephone:** 505-241-2974

## PNMGS Well Site: Miles Federal 1 E Drip (continued)

### Results:

Figure 1 presents a site map showing BTEX concentrations for each monitoring well since groundwater contamination was discovered. MW-1, the upgradient well, has shown "non-detect" for BTEX since it was installed. Benzene concentrations in MW-2, -3 and -4 have decreased over time. The source well (MW-2) has been below standards for three consecutive quarters. Monitor well MW-5 appears to have increased in BTEX concentrations, thus the reason for recent secondary remediation. However, levels remain relatively low.

On September 25, 1998, PNM sampled MW-1 and MW-2 for water quality parameters to verify the previous water quality data from the September 9, 1997 sampling event. The comparative results are provided in table 1 and 2 below.

**Table 1. Comparison of MW-1 Water Quality Data 9/29/97 & 9/25/98**

Cations/Anions	6/25/97	9/25/98
Na	938	1100
Ca	48	50
Mg	10.9	12
K	2.68	2
Cl	17.4	11
SO <sub>4</sub>	1920	1900
CO <sub>3</sub>	<1	<10
HCO <sub>3</sub>	580	550
OH	<1	<i>not reported</i>
Total Cation-Anion	94.11 meq/L	101.42 meq/L
Difference Cation-Anion	5.83 meq/L	3.49 meq/L
%Difference	6.2	3.4
TDS	3355	3600
Hardness, total	164	176

**Table 2. Comparison of MW-2 Water Quality Data 9/29/97 & 9/25/98**

Cations/Anions	6/25/97	9/25/98
Na	644	1000
Ca	196	55
Mg	33.2	44
K	15.8	16
Cl	76.7	110
SO <sub>4</sub>	632	253
CO <sub>3</sub>	<1	<250
HCO <sub>3</sub>	1642	2400
OH	<1	<i>not reported</i>
Total Cation-Anion	83.16 meq/L	99.85 meq/L
Difference Cation-Anion	1.30 meq/L	4.26 meq/L
%Difference	1.6	4.3
TDS	2696	3900
Hardness, total	626	320

Water quality data from event to event in MW-1 is consistent indicating that the data collected to date is representative of site conditions. MW-2 shows some variability which may be the result of natural degradative processes occurring over time. Sulfates in MW-1 and TDS in both MW-1 and MW-2 are elevated (aesthetic standard: 600 mg/L sulfate; 1000 mg/L TDS). Since the standards are non-health based and not enforceable, no further sampling will be performed for these constituents.

### Future Actions:

PNM will continue to monitor the Miles Federal 1E Drip site to determine if the additional remediation at the site was effective and whether or not natural attenuation is occurring.

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## Public Service Company of New Mexico - Gas Services

Environmental Services Division - Alvarado Square, MS-0408  
Albuquerque, NM 87158

Contact: Maureen Gannon

Telephone: 505-241-2974

**Figure 1.**  
**Miles Federal 1E Drip Site Map and Analytical Results**  
**(Concentrations in ppb)**

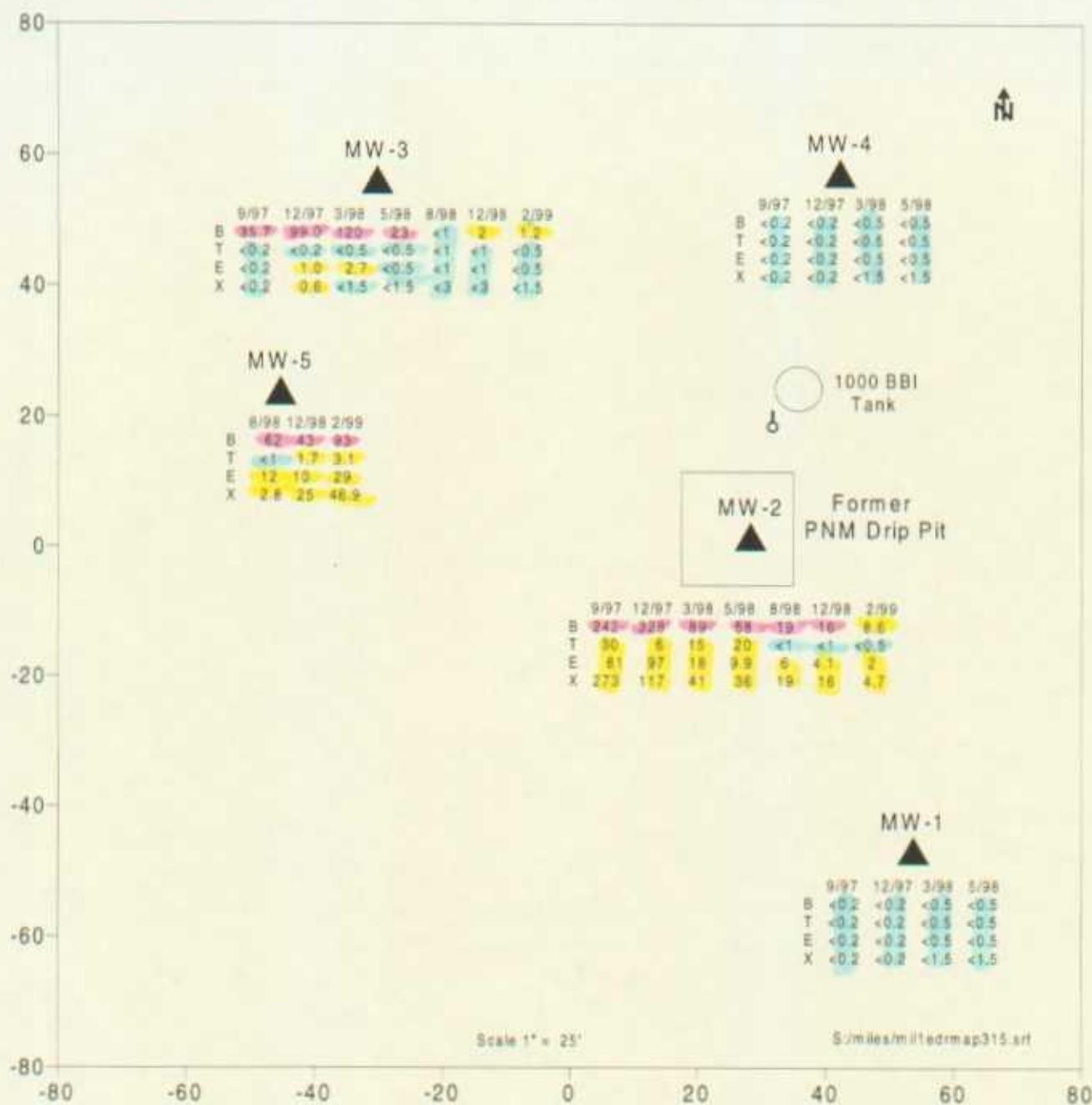
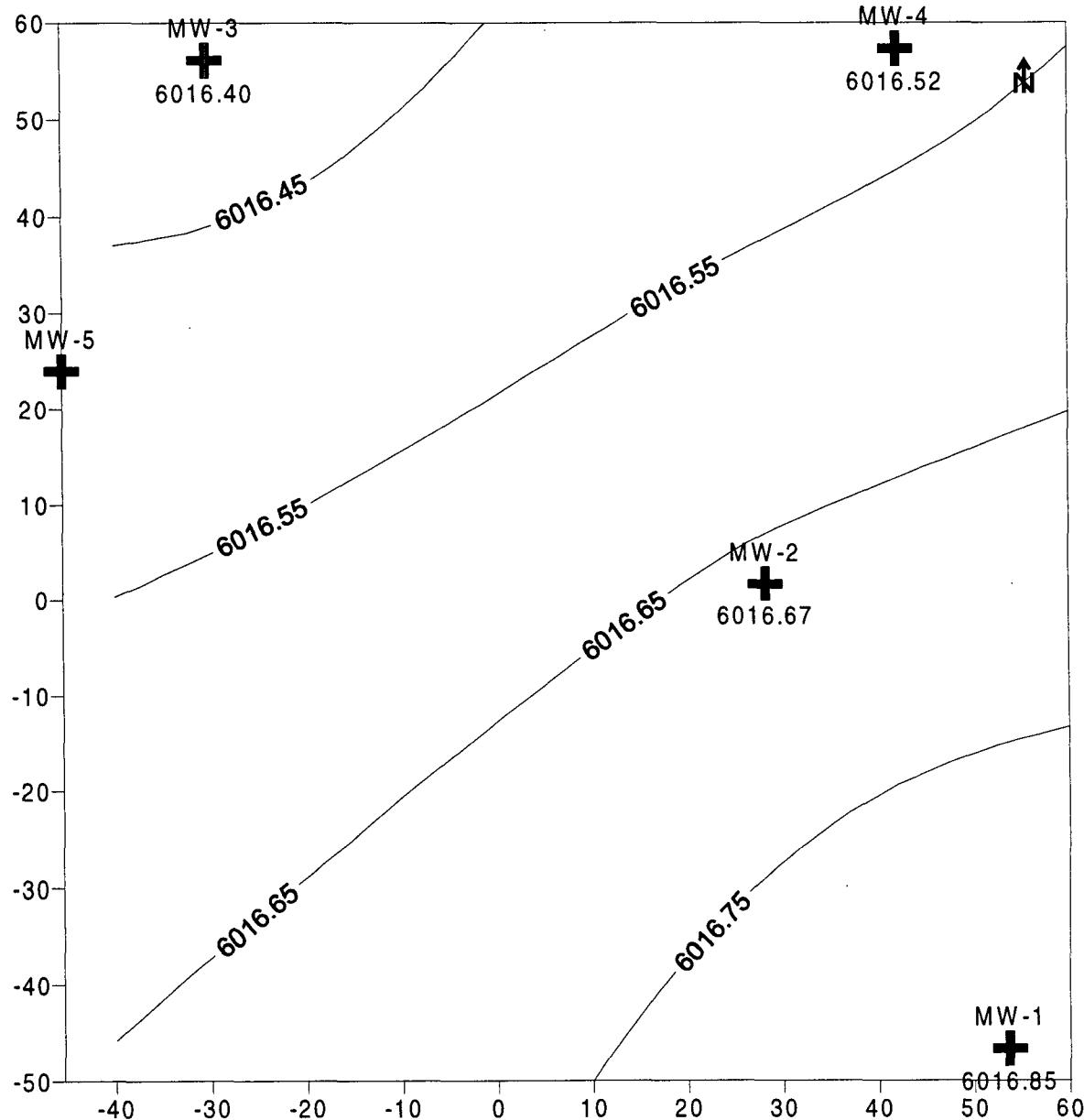


Figure 2a.  
Miles Federal 1E Groundwater Contour Map  
(May 20, 1998)



surfer/miles 1E drip/mil1ed52099.srf

SCALE IN FEET  
(X-axis = Easting, Y-axis = Northing)

Figure 2b.  
Miles Federal 1E Groundwater Contour Map  
(September 24, 1998)

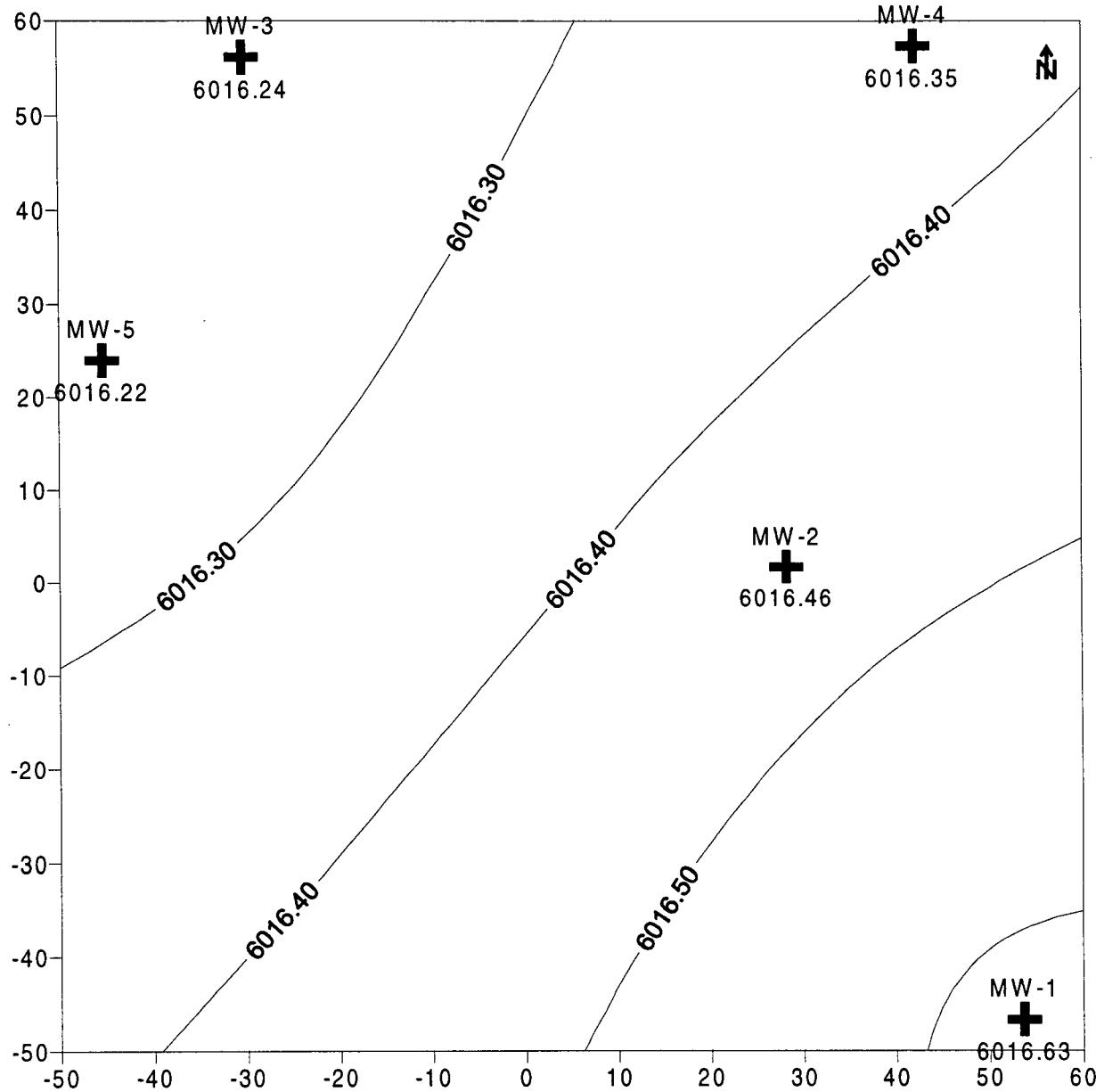
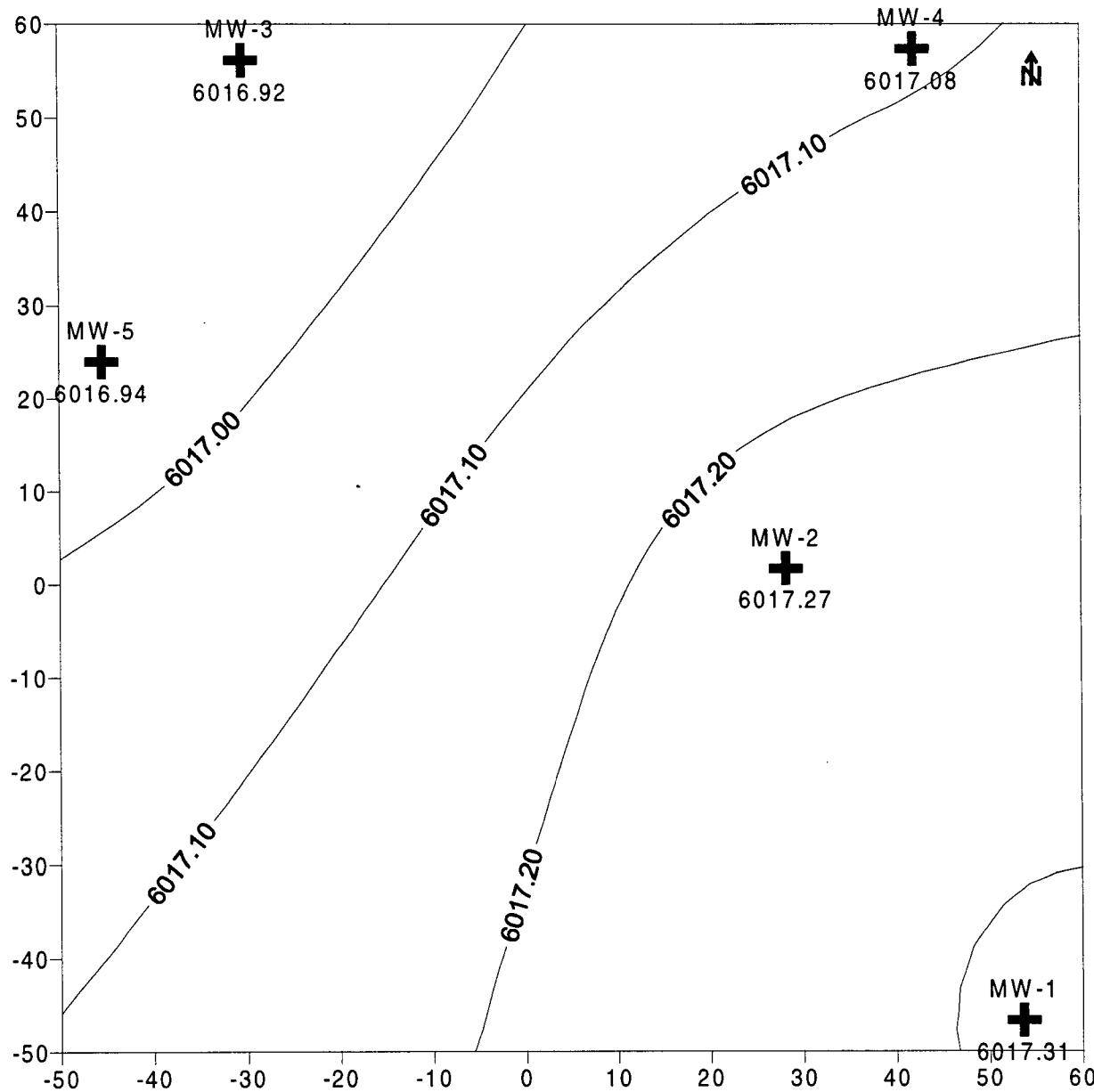


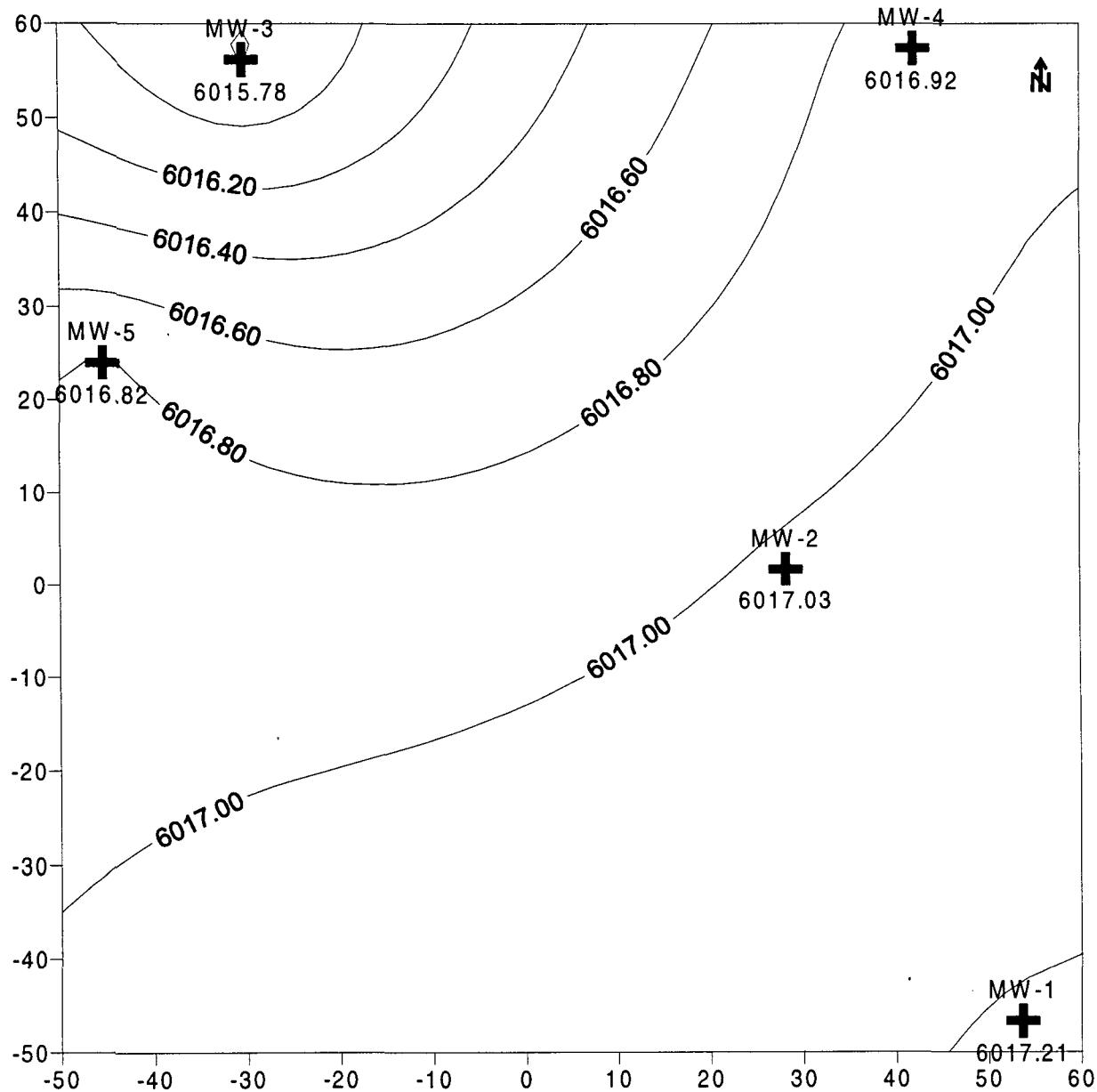
Figure 2c.  
Miles Federal 1E Groundwater Contour Map  
(December 14, 1998)



surfer/miles 1E drip/mil1ed121498.srf

SCALE IN FEET  
(X-axis = Easting, Y-axis = Northing)

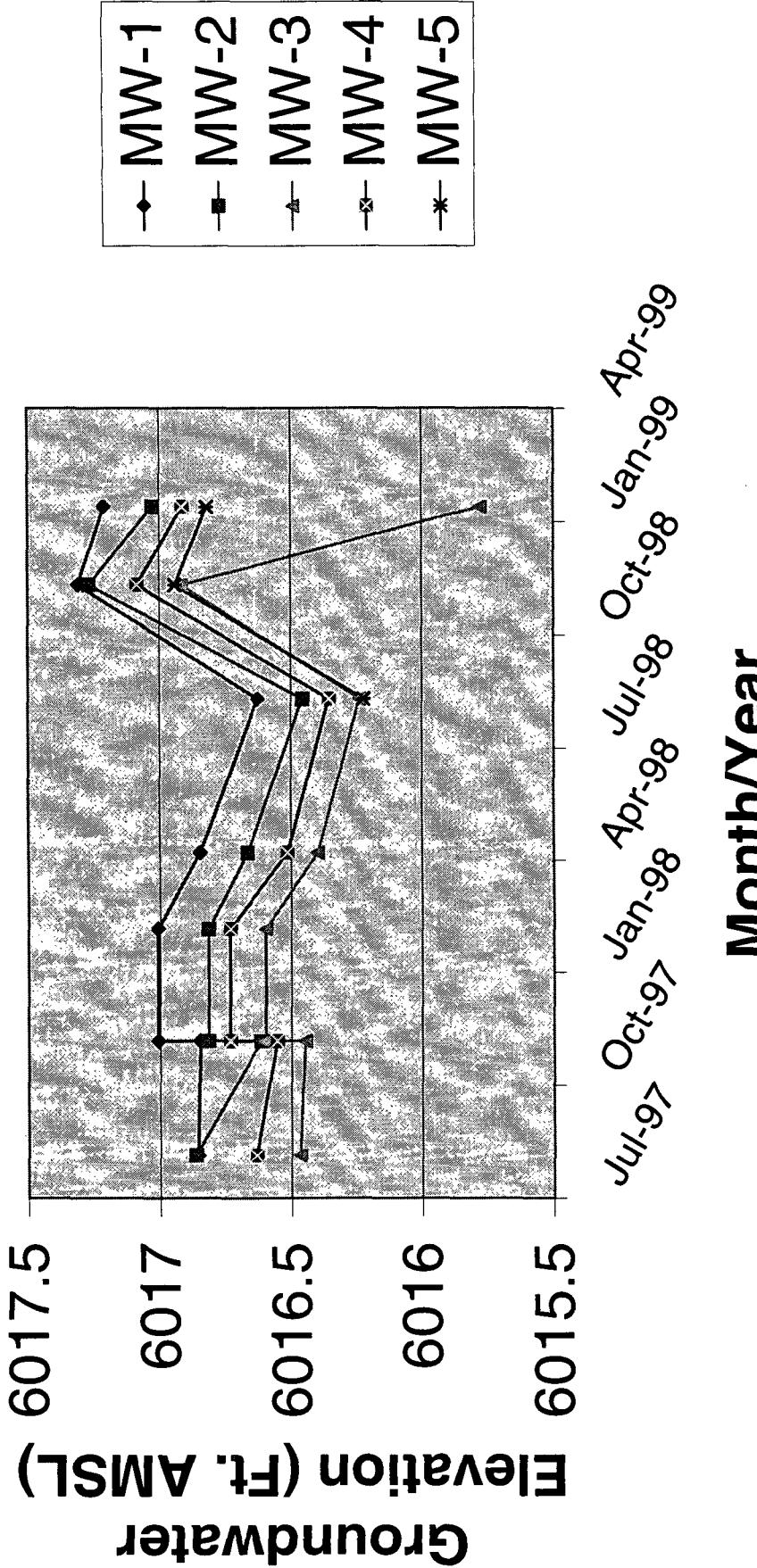
Figure 2d.  
Miles Federal 1E Groundwater Contour Map  
(February 11, 1999)



surfer/miles 1E drip/mil1ed21199.srf

**SCALE IN FEET**  
(X-axis = Easting, Y-axis = Northing)

**Figure 3. Miles Federal 1E Drip Hydrograph**





**ON SITE**  
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

June 01, 1998

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

2nd Quarter '98

RE: Miles Fed. 1E Drip

Order No.: 9805064

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 5/20/98 for the analyses presented in the following report.

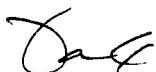
The Samples were analyzed for the following tests:

BTEX (SW8020A)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



David Cox



OFF: (505) 325-5667

LAB: (505) 325-1556

**On Site Technologies, LTD.**

Date: 01-Jun-98

---

**CLIENT:** PNM - Public Service Company of NM  
**Project:** Miles Fed. 1E Drip  
**Lab Order:** 9805064

**CASE NARRATIVE**

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



**ON SITE**  
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

**ANALYTICAL REPORT**

**Date: 01-Jun-98**

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<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Fed. 1E Drip
<b>Work Order:</b>	9805064	<b>Client Sample ID:</b>	9805201039; MW-1
<b>Lab ID:</b>	9805064-01A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Fed. 1E Drip	<b>Collection Date:</b>	5/20/98 10:39:00 AM
		<b>COC Record:</b>	7256

---

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>	<b>SW8020A</b>					<b>Analyst: HR</b>
Benzene	ND	0.5		µg/L	1	5/28/98
Toluene	ND	0.5		µg/L	1	5/28/98
Ethylbenzene	ND	0.5		µg/L	1	5/28/98
m,p-Xylene	ND	1		µg/L	1	5/28/98
o-Xylene	ND	0.5		µg/L	1	5/28/98

**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*

**P.O. BOX 2606 • FARMINGTON, NM 87499**

- TECHNOLOGY BLENDING INDUSTRIAL CONSULTANT -



**ON SITE**  
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 01-Jun-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Fed. 1E Drip
<b>Work Order:</b>	9805064	<b>Client Sample ID:</b>	9805201109; MW-2
<b>Lab ID:</b>	9805064-02A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Fed. 1E Drip	<b>Collection Date:</b>	5/20/98 11:09:00 AM
		<b>COC Record:</b>	7256

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
			<b>SW8020A</b>			<b>Analyst: DC</b>
Benzene	58	0.5		µg/L	1	5/29/98
Toluene	20	0.5		µg/L	1	5/29/98
Ethylbenzene	9.9	0.5		µg/L	1	5/29/98
m,p-Xylene	34	1		µg/L	1	5/29/98
o-Xylene	2	0.5		µg/L	1	5/29/98

**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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



**ON SITE**  
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

**ANALYTICAL REPORT**

**Date:** 01-Jun-98

---

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Fed. 1E Drip
<b>Work Order:</b>	9805064	<b>Client Sample ID:</b>	9805201133; MW-3
<b>Lab ID:</b>	9805064-03A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Fed. 1E Drip	<b>Collection Date:</b>	5/20/98 11:33:00 AM
		<b>COC Record:</b>	7256

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Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
		<b>SW8020A</b>				Analyst: HR
Benzene	23	0.5		µg/L	1	5/28/98
Toluene	ND	0.5		µg/L	1	5/28/98
Ethylbenzene	ND	0.5		µg/L	1	5/28/98
m,p-Xylene	ND	1		µg/L	1	5/28/98
o-Xylene	ND	0.5		µg/L	1	5/28/98

**Qualifiers:** PQL - Practical Quantitation Limit  
ND - Not Detected at Practical Quantitation Limit  
J - Analyte detected below Practical Quantitation Limit  
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*1 of 1*

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- TECHNOLOGY. RELIABILITY. INTEGRITY. INTEGRATION.



**ON SITE**  
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 01-Jun-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Fed. 1E Drip
<b>Work Order:</b>	9805064	<b>Client Sample ID:</b>	9805201153; MW-4
<b>Lab ID:</b>	9805064-04A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Fed. 1E Drip	<b>Collection Date:</b>	5/20/98 11:53:00 AM
		<b>COC Record:</b>	7256

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						<b>Analyst: HR</b>
Benzene	ND	0.5		µg/L	1	5/28/98
Toluene	ND	0.5		µg/L	1	5/28/98
Ethylbenzene	ND	0.5		µg/L	1	5/28/98
m,p-Xylene	ND	1		µg/L	1	5/28/98
o-Xylene	ND	0.5		µg/L	1	5/28/98

**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  
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 Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

# ON SITE TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 01-Jun-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Fed. 1E Drip	MW-2
<b>Work Order:</b>	9805064	<b>Client Sample ID:</b>	9805201215; MW-5	
<b>Lab ID:</b>	9805064-05A	<b>Matrix:</b>	AQUEOUS	<b>Collection Date:</b> 5/20/98 12:15:00 PM
<b>Project:</b>	Miles Fed. 1E Drip			<b>COC Record:</b> 7256

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
			<b>SW8020A</b>			<b>Analyst: HR</b>
Benzene	67	0.5		µg/L	1	5/28/98
Toluene	14	0.5		µg/L	1	5/28/98
Ethylbenzene	9.4	0.5		µg/L	1	5/28/98
m,p-Xylene	34	1		µg/L	1	5/28/98
o-Xylene	0.8	0.5		µg/L	1	5/28/98

**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

1 of 1

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- TECHNOLOGY DRIVEN - INNOVATION IN ANALYTICAL TESTING -

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9805064  
**Project:** Miles Fed. 1E Drip

## QC SUMMARY REPORT

Method Blank

Date: 01-Jun-98

Sample ID: <b>MB1</b>	Batch ID: <b>GC-1_980528</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>5/28/98</b>			Prep Date:				
Client ID:	Run ID: <b>GC-1_980528A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										J
Benzene	.0626	0.5									J
Ethylbenzene	ND	0.5									J
m,p-Xylene	.1027	1									J
o-Xylene	ND	0.5									J
Toluene	.1758	0.5									J

Sample ID: <b>MB1</b>	Batch ID: <b>GC-1_980529</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>5/29/98</b>			Prep Date:				
Client ID:	Run ID: <b>GC-1_980529A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										J
Benzene	.0801	0.5									J
Ethylbenzene	ND	0.5									J
m,p-Xylene	ND	1									J
Methyl tert-Butyl Ether	.0986	1									J
o-Xylene	ND	0.5									J
Toluene	.1744	0.5									J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM

**Work Order:** 9805064

**Project:** Miles Fed. 1E Drip

## QC SUMMARY REPORT

Sample Matrix Spike

Date: 01-Jun-98

Sample ID: 9805064-02AMS		Batch ID: GC-1_980528		Test Code: SW8020A		Units: µg/L		Analysis Date 5/28/98		Prep Date:				
Client ID:	9805201109; MW-	Run ID:	9805064	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene			165.2	12	100	58.04		107.2%	56	128				S✓
Ethylbenzene			119.5	12	100	11.2		108.3%	78	107				Coverall CS
m,p-Xylene			239.5	25	200	28.63		105.5%	67	118				S✓
o-Xylene			109.9	12	100	0.8835		109.0%	78	107				Detected/J
Toluene			122.2	12	100	14.79		107.4%	74	116				Detected/J
Sample ID: 9805064-02AMSD		Batch ID: GC-1_980528		Test Code: SW8020A		Units: µg/L		Analysis Date 5/28/98		Prep Date:				
Client ID:	9805201109; MW-	Run ID:	9805064	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene			161	12	100	58.04		103.0%	56	128	165.2	2.6%	12	
Ethylbenzene			117.7	12	100	11.2		106.5%	78	107	119.5	1.5%	11	
m,p-Xylene			235.8	25	200	28.63		103.6%	67	118	239.5	1.6%	10	
o-Xylene			109.6	12	100	0.8835		108.7%	78	107	109.9	0.3%	14	S✓
Toluene			119	12	100	14.79		104.2%	74	116	122.2	2.6%	14	
Sample ID: 9805080-03AMS		Batch ID: GC-1_980529		Test Code: SW8020A		Units: µg/L		Analysis Date 5/29/98		Prep Date:				
Client ID:		Run ID:	9805064	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene			1095	5	400	724.6		92.6%	56	128				
Ethylbenzene			478	5	400	82.45		98.9%	78	107				
m,p-Xylene			934.8	10	800	170.2		95.6%	67	118				
Methyl tert-Butyl Ether			930.9	10	400	563.8		91.8%	70	130				
o-Xylene			462.9	5	400	68.48		98.6%	78	107				
Toluene			1040	5	400	675.5		91.2%	74	116				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9805064  
**Project:** Miles Fed. 1E Drip

**QC SUMMARY REPORT**  
**Sample Matrix Spike Duplicate**

Sample ID: 9805080-03AMSD		Batch ID: GC-1_980529		Test Code: SW8020A		Units: µg/L		Analysis Date 5/29/98		Prep Date:		
Client ID:		Run ID:		GC-1_980529A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	1076	5	400	724.6	87.8%	56	128	1095	1.8%	12		
Ethylbenzene	468.9	5	400	82.45	96.6%	78	107	478	1.9%	11		
m,p-Xylene	918.3	10	800	170.2	93.5%	67	118	934.8	1.8%	10		
Methyl tert-Butyl Ether	940.8	10	400	563.8	94.2%	70	130	930.9	1.1%	15		
o-Xylene	456.6	5	400	68.48	97.0%	78	107	462.9	1.4%	14		
Toluene	1022	5	400	675.5	86.5%	74	116	1040	1.8%	14		
Sample ID: 9805080-04AMS	Batch ID: GC-1_980529	Test Code: SW8020A	Units: µg/L									
Client ID:	9805064	Run ID:	GC-1_980529A									
Analyte	Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	419.7	5	400	1.846	104.5%	56	128					
Ethylbenzene	420.2	5	400	1.233	104.7%	78	107					
m,p-Xylene	806.4	10	800	2.755	100.5%	67	118					
Methyl tert-Butyl Ether	419.7	10	400	0.998	104.7%	70	130					
o-Xylene	417.4	5	400	1.059	104.1%	78	107					
Toluene	417.8	5	400	3.555	103.6%	74	116					
Sample ID: 9805080-04AMSD	Batch ID: GC-1_980529	Test Code: SW8020A	Units: µg/L									
Client ID:	9805064	Run ID:	GC-1_980529A									
Analyte	Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	404	5	400	1.846	100.5%	56	128	419.7	3.8%	12		
Ethylbenzene	405.4	5	400	1.233	101.0%	78	107	420.2	3.6%	11		
m,p-Xylene	778.3	10	800	2.755	96.9%	67	118	806.4	3.5%	10		
Methyl tert-Butyl Ether	408	10	400	0.998	101.7%	70	130	419.7	2.8%	15		
o-Xylene	404.9	5	400	1.059	101.0%	78	107	417.4	3.1%	14		
Toluene	403.2	5	400	3.555	99.9%	74	116	417.8	3.6%	14		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9805064  
**Project:** Miles Fed. 1E Drip

Date: 01-Jun-98

## QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: <b>LCS</b>	Batch ID: <b>GC-1_980528</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>5/28/98</b>				Prep Date:			
Client ID:	Run ID: <b>GC-1_980528A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	43.02	0.5	40	0.0026	107.4%	56	128				
Ethylbenzene	43.08	0.5	40	0	107.7%	78	107				
m,p-Xylene	82.61	1	80	0.1027	103.1%	67	118				
o-Xylene	42.73	0.5	40	0	106.8%	78	107				
Toluene	42.63	0.5	40	0.1758	106.1%	74	116				
Sample ID: <b>LCS</b>	Batch ID: <b>GC-1_980529</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>5/29/98</b>				Prep Date:			
Client ID:	Run ID: <b>GC-1_980529A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	40.38	0.5	40	0.0801	100.8%	56	128				
Ethylbenzene	40.56	0.5	40	0	101.4%	78	107				
m,p-Xylene	77.94	1	80	0	97.4%	67	118				
Methyl tert-Butyl Ether	40.57	1	40	0.0986	101.2%	70	130				
o-Xylene	40.38	0.5	40	0	100.9%	78	107				
Toluene	40.28	0.5	40	0.1744	100.3%	74	116				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM

**Work Order:** 9805064

**Project:** Miles Fed. 1E Drip

Date: 01-Jun-98

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980528		Test Code: SW8020A		Units: µg/L		Analysis Date 5/28/98		Prep Date:			
Client ID:		Run ID:		GC-1_980528A		%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val									
Benzene	21.8	0.5	20	0	109.0%			85		115			
Ethylbenzene	21.96	0.5	20	0	109.8%			85		115			
m,p-Xylene	41.88	1	40	0	104.7%			85		115			
o-Xylene	21.65	0.5	20	0	108.2%			85		115			
Toluene	21.72	0.5	20	0	108.6%			85		115			
1,4-Difluorobenzene	91.91	0	100	0	91.9%			70		130			
4-Bromochlorobenzene	88.8	0	100	0	88.8%			70		130			
Fluorobenzene	91.37	0	100	0	91.4%			70		130			
Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980528		Test Code: SW8020A		Units: µg/L		Analysis Date 5/28/98		Prep Date:			
Client ID:		Run ID:		GC-1_980528A		%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val									
Benzene	20.8	0.5	20	0	104.0%			85		115			
Ethylbenzene	21.06	0.5	20	0	105.3%			85		115			
m,p-Xylene	40.16	1	40	0	100.4%			85		115			
o-Xylene	20.86	0.5	20	0	104.3%			85		115			
Toluene	20.88	0.5	20	0	104.4%			85		115			
1,4-Difluorobenzene	92.07	0	100	0	92.1%			70		130			
4-Bromochlorobenzene	85.01	0	100	0	85.0%			70		130			
Fluorobenzene	90.86	0	100	0	90.9%			70		130			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9805064  
**Project:** Miles Fed. 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30	Batch ID: GC-1_980528	Test Code: SW8020A	Units: µg/L	Analysis Date 5/28/98			Prep Date:		
Client ID:		Run ID: GC-1_980528A		SeqNo:	2501		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	20.97	0.5	20	0	104.8%	85	115		
Ethylbenzene	21.12	0.5	20	0	105.6%	85	115		
m,p-Xylene	40.36	1	40	0	100.9%	85	115		
o-Xylene	21.39	0.5	20	0	107.0%	85	115		
Toluene	21.22	0.5	20	0	106.1%	85	115		
1,4-Difluorobenzene	91.69	0	100	0	91.7%	70	130		
4-Bromochlorobenzene	73.95	0	100	0	74.0%	70	130		
Fluorobenzene	90.82	0	100	0	90.8%	70	130		

Sample ID: CCV1 QC0529/30	Batch ID: GC-1_980529	Test Code: SW8020A	Units: µg/L	Analysis Date 5/29/98			Prep Date:		
Client ID:		Run ID: GC-1_980529A		SeqNo:	2513		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	21.41	0.5	20	0	107.1%	85	115		
Ethylbenzene	21.63	0.5	20	0	108.2%	85	115		
m,p-Xylene	41.3	1	40	0	103.2%	85	115		
Methyl tert-Butyl Ether	20.78	1	20	0	103.9%	85	115		
o-Xylene	21.38	0.5	20	0	106.9%	85	115		
Toluene	21.53	0.5	20	0	107.6%	85	115		
1,4-Difluorobenzene	92.28	0	100	0	92.3%	70	130		
4-Bromochlorobenzene	87.76	0	100	0	87.8%	70	130		
Fluorobenzene	90.91	0	100	0	90.9%	70	130		

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

**CLIENT:** PNM - Public Service Company of NM

**Work Order:** 9805064

**Project:** Miles Fed. 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

Client ID:	Sample ID: CCV2 QC0529/30	Batch ID: GC-1_980529	Test Code: SW8020A	Units: µg/L		Analysis Date 5/29/98	SeqNo: 2514	Prep Date:
Analyte		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	21.16	0.5	20	0	105.8%	85	115	
Ethylbenzene	21.83	0.5	20	0	109.2%	85	115	
m,p-Xylene	41.03	1	40	0	102.6%	85	115	
Methyl tert-Butyl Ether	21.78	1	20	0	108.9%	85	115	
o-Xylene	21.14	0.5	20	0	105.7%	85	115	
Toluene	21.21	0.5	20	0	106.1%	85	115	
1,4-Difluorobenzene	92.21	0	100	0	92.2%	70	130	
4-Bromochlorobenzene	90.07	0	100	0	90.1%	70	130	
Fluorobenzene	90.85	0	100	0	90.8%	70	130	

Client ID:	Sample ID: CCV3 QC0529/30	Batch ID: GC-1_980529	Test Code: SW8020A	Units: µg/L		Analysis Date 5/29/98	SeqNo: 2515	Prep Date:
Analyte		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	21.79	0.5	20	0	109.0%	85	115	
Ethylbenzene	22.39	0.5	20	0	111.9%	85	115	
m,p-Xylene	42.22	1	40	0	105.6%	85	115	
Methyl tert-Butyl Ether	21.28	1	20	0	106.4%	85	115	
o-Xylene	21.67	0.5	20	0	108.4%	85	115	
Toluene	21.79	0.5	20	0	108.9%	85	115	
1,4-Difluorobenzene	91.64	0	100	0	91.6%	70	130	
4-Bromochlorobenzene	88.47	0	100	0	88.5%	70	130	
Fluorobenzene	91.11	0	100	0	91.1%	70	130	

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

On Site Technologies, LTD.

Date: 01-Jun-98

CLIENT: PNM - Public Service Company of NM  
Work Order: 9805064  
Project: Miles Fed. 1E Drip  
Test No: SW8020A

**QC SUMMARY REPORT  
SURROGATE RECOVERIES**

**BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ
9805062-05A	91.9	89.6	90.9
9805062-10A	91.6	89.4	91.1
9805063-01A	93.2	88.1	92
9805063-02A	88.4	87.6	87.9
9805063-03A	92.5	89	91.7
9805063-04A	93.2	88.4	91.7
9805063-05A	93.1	88.6	91.6
9805063-06A	88.5	86.3	87.9
9805064-01A	92.5	87.2	91.4
9805064-02A	80.6	85.1	80.4
9805064-02AMS	89.5	84.6	89.3
9805064-02AMSD	90	83.8	89.2
9805064-03A	92.8	84.4	91.2
9805064-04A	92.3	80.9	91.2
9805064-05A	83.9	78.7	83.9
9805065-01A	92.5	90.2	91.8
9805065-02A	90.4	80.9	88.7
9805065-03A	92.7	89.1	91
9805065-04A	92	75.8	90.8
9805065-05A	91.6	75.7	90.4
9805080-03A	91.7	88.1	90.2
9805080-03AMS	90.7	89.2	89.9
9805080-03AMSD	91.1	89.8	89.8
9805080-04A	92.2	87.8	91
9805080-04AMS	91.5	89.8	90.9
9805080-04AMSD	91.7	88.6	90.6
ICCV1 QC0529/30	92.3	87.8	90.9

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

\* Surrogate recovery outside acceptance limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9805064  
**Project:** Miles Fed. 1E Drip  
**Test No:** SW8020A

**QC SUMMARY REPORT  
SURROGATE RECOVERIES**

**BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ
CCV2 QC0529/30	92.2	90.1	90.8
CCV3 QC0529/30	91.6	88.5	91.1
LCS	91.7	89.6	91
MB1	93.3	84.2	91.5

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

\* Surrogate recovery outside acceptance limits

On Site Technologies, LTD.

Date: 01-Jun-98

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9805064  
**Project:** Miles Fed. 1E Drip  
**Test No:** SW8020A

**QC SUMMARY REPORT**  
**SURROGATE RECOVERIES**  
**BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ			
9805062-05A	91.9	89.6	90.9			
9805062-10A	91.6	89.4	91.1			
9805063-01A	93.2	88.1	92			
9805063-02A	88.4	87.6	87.9			
9805063-03A	92.5	89	91.7			
9805063-04A	93.2	88.4	91.7			
9805063-05A	93.1	88.6	91.6			
9805063-06A	88.5	86.3	87.9			
9805064-01A	92.5	87.2	91.4			
9805064-02A	80.6	85.1	80.4			
9805064-02AMS	89.5	84.6	89.3			
9805064-02AMSD	90	83.8	89.2			
9805064-03A	92.8	84.4	91.2			
9805064-04A	92.3	80.9	91.2			
9805064-05A	83.9	78.7	83.9			
9805065-01A	92.5	90.2	91.8			
9805065-02A	90.4	80.9	88.7			
9805065-03A	92.7	89.1	91			
9805065-04A	92	75.8	90.8			
9805065-05A	91.6	75.7	90.4			
9805080-03A	91.7	88.1	90.2			
9805080-03AMS	90.7	89.2	89.9			
9805080-03AMSD	91.1	89.8	89.8			
9805080-04A	92.2	87.8	91			
9805080-04AMS	91.5	89.8	90.9			
9805080-04AMSD	91.7	88.6	90.6			
CCVI QC0529/30	92.3	87.8	90.9			

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

\* Surrogate recovery outside acceptance limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9805064  
**Project:** Miles Fed. 1E Drip  
**Test No:** SW8020A

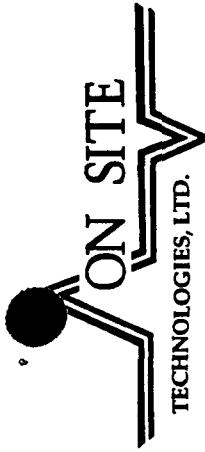
**QC SUMMARY REPORT  
SURROGATE RECOVERIES**

**BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ	
CCV2 QC0529/30	92.2	90.1	90.8	
CCV3 QC0529/30	91.6	88.5	91.1	
LCS	91.7	89.6	91	
MB1	93.3	84.2	91.5	

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

\* Surrogate recovery outside acceptance limits



# CHAIN OF CUSTODY RECORD

SIN

TECHNOLOGIES, LTD.

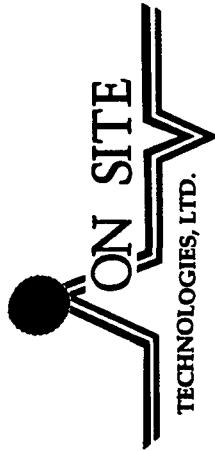
**612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499  
1 AB: (505) 325-5667 • FAX: (505) 325-6256**

Date: 5/20/98

Página

of

Purchase Order No.:		Job No.:		Name		Maureen Gannon		Title					
Name		Denver Bearden		Company		PNM Gas Services							
Company		PNM Gas Services		Mailing Address		Alverado Square, Mail Stop 0408							
Address		603 W. Elm Street		City, State, Zip		Albuquerque, NM 87158							
City, State, Zip		Farmington, NM 87401		Telephone No.		505-848-2974		Teletax No.					
Sampling Location:		ANALYSIS REQUESTED											
Miles Ted. 1E Drive													
Sampler: K. Dredick													
REPORT TO		RESULTS TO		Number of Containers									
REND INVOICE		REND INVOICE											
Relinquished by: <u>Denver Bearden</u> , Date <u>5/29/98</u>		Date/Time <u>5/29/98 16:06</u>		Received by: <u>Maureen Gannon</u>		Date/Time <u>5/29/98 16:06</u>							
Relinquished by: <u></u>		Date/Time		Received by: <u></u>		Date/Time							
Relinquished by: <u></u>		Date/Time		Received by: <u></u>		Date/Time							
Method of Shipment: <u>Rush</u>		24-48 Hours		10 Working Days		Special Instructions: <u></u>							
Authorized by: <u>Denver Bearden</u> , Date <u>5/29/98</u> (Client Signature Must Accompany Request)										Results to be sent to both parties.			



# CHAIN OF CUSTODY RECORD

612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499  
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 10/19/98 Page: / of /

Purchase Order No.:		Job No.		Name		Maureen Gannon		Title	
Name		Denver Bearden		Company		PNM Gas Services			
Company		PNM Gas Services		Dept.		324-3763		RESULTS TO	
Address		603 W. Elm Street		Mailing Address		Alverado Square, Mail Stop 0408		Company	
City, State, Zip		Farmington, NM 87401		City, State, Zip		Albuquerque, NM 87158		RESULTS TO	
Sampling Location:		<i>Milk Field 1E Drip</i>		Telephone No.		505-848-2974		Telefax No.	
Sampler:		<i>K. Dugan</i>		ANALYSIS REQUESTED					
SAMPLE IDENTIFICATION				SAMPLE		MATRIX		LAB ID	
				DATE	TIME	PRES.			
<b>SEND TO INVOICE</b>	<b>TO</b>	<b>Number of Containers</b>	<b>Containers</b>						
Rush	24-48 Hours	10 Working Days	Special Instructions:	<b>Results to be sent to both parties.</b>					
Relinquished by: <i>John Dugan</i>	Date/Time: <i>10/19/98</i>	Received by: <i>John Dugan</i>	Date/Time: <i>10/19/98</i>						
Relinquished by: <i></i>	Date/Time: <i></i>	Received by: <i></i>	Date/Time: <i></i>						
Relinquished by: <i></i>	Date/Time: <i></i>	Received by: <i></i>	Date/Time: <i></i>						
Method of Shipment:									
Authorized by: <i>John Dugan</i>		Date <i>10/19/98</i>							
(Client Signature Must Accompany Request)									
Distribution: White - On Site    Yellow - LAB    Pink - Sampler    Goldenrod - Client									



OFF: (505) 325-5667

LAB: (505) 325-1556

October 19, 1998

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

3rd Quarter 1998

RE: Miles Federal 1E Drip

Order No.: 9809074

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 9/25/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Alkalinity, Total (M2320 B)  
BTEX (SW8020A)  
Calcium by AA (SW7140)  
Chloride (M4500-Cl C.)  
Conductivity (E120.1)  
Hardness, Total (E130.1)  
Lead, Dissolved (SW6010A)  
Magnesium by AA (SW7450)  
pH (E150.1)  
Potassium by AA (SW7610)  
Sodium by AA (SW7770)  
Sulfate (M4500-SO4 D)  
Total Dissolved Solids (M2540 C.)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox".

David Cox

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## On Site Technologies, LTD.

Date: 19-Oct-98

**CLIENT:** PNM - Public Service Company of NM  
**Project:** Miles Federal 1E Drip  
**Lab Order:** 9809074

## CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Standard Methods for The Examination of Water and Wastewater, 18th Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Cation-Anion Balance 9809074-01A: Miles Federal 1E Drip, MW-1

Total Cation-Anion = 101.42 me/L

Difference Cation-Anion = 3.49 me/L

% Difference = 3.4%

Cation-Anion Balance 9809074-02A: Miles Federal 1E Drip, MW-2

Total Cation-Anion = 99.85 me/L

Difference Cation-Anion = 4.26 me/L

% Difference = 4.3%



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 19-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9809074	<b>Client Sample ID:</b>	9809241400; MW-1
<b>Lab ID:</b>	9809074-01B	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	9/24/98 2:00:00 PM
		<b>COC Record:</b>	7295

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>CALCIUM BY AA</b>		<b>SW7140</b>				Analyst: HR
Calcium	50	6.2		mg/L	25	10/2/98
<b>POTASSIUM BY AA</b>		<b>SW7610</b>				Analyst: HR
Potassium	2	0.25		mg/L	1	10/2/98
<b>MAGNESIUM BY AA</b>		<b>SW7450</b>				Analyst: HR
Magnesium	12	1.2		mg/L	5	10/2/98
<b>SODIUM BY AA</b>		<b>SW7770</b>				Analyst: HR
Sodium	1100	100		mg/L	400	10/2/98
<b>ALKALINITY, TOTAL</b>		<b>M2320 B</b>				Analyst: HR
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	550	10		mg/L CaCO <sub>3</sub>	1	9/29/98
Alkalinity, Carbonate (As CaCO <sub>3</sub> )	ND	10		mg/L CaCO <sub>3</sub>	1	9/29/98
Alkalinity, Total (As CaCO <sub>3</sub> )	550	10		mg/L CaCO <sub>3</sub>	1	9/29/98
<b>CHLORIDE</b>		<b>M4500-CL C.</b>				Analyst: HR
Chloride	11	10		mg/L	1	9/29/98
<b>CONDUCTIVITY</b>		<b>E120.1</b>				Analyst: HR
Specific Conductance	4350	2		uS/cm	1	9/28/98
<b>HARDNESS, TOTAL</b>		<b>E130.1</b>				Analyst: HR
Hardness (As CaCO <sub>3</sub> )	176	1		mg/L	1	10/2/98
<b>PH</b>		<b>E150.1</b>				Analyst: HR
pH	7.74	2		pH units	1	9/28/98
<b>SULFATE</b>		<b>M4500-SO<sub>4</sub> D</b>				Analyst: HR
Sulfate	1900	25		mg/L	1	10/2/98
<b>TOTAL DISSOLVED SOLIDS</b>		<b>M2540 C.</b>				Analyst: HR
Total Dissolved Solids (Residue, Filterable)	3600	40		mg/L	1	10/2/98

**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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 19-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9809074	<b>Client Sample ID:</b>	9809241430; MW-2
<b>Lab ID:</b>	9809074-02A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	9/24/98 2:30:00 PM
		<b>COC Record:</b>	7295

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
Benzene	19	1		µg/L	1	10/5/98
Toluene	ND	1		µg/L	1	10/5/98
Ethylbenzene	6	1		µg/L	1	10/5/98
m,p-Xylene	19	2		µg/L	1	10/5/98
o-Xylene	ND	1		µg/L	1	10/5/98

**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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



**ON SITE**  
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 19-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9809074	<b>Client Sample ID:</b>	9809241430; MW-2
<b>Lab ID:</b>	9809074-02B	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	9/24/98 2:30:00 PM
		<b>COC Record:</b>	7295

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>CALCIUM BY AA</b>		<b>SW7140</b>				Analyst: HR
Calcium	55	25		mg/L	50	10/2/98
<b>POTASSIUM BY AA</b>		<b>SW7610</b>				Analyst: HR
Potassium	16	1.2		mg/L	5	10/2/98
<b>MAGNESIUM BY AA</b>		<b>SW7450</b>				Analyst: HR
Magnesium	44	5		mg/L	20	10/2/98
<b>SODIUM BY AA</b>		<b>SW7770</b>				Analyst: HR
Sodium	1000	100		mg/L	400	10/2/98
<b>ALKALINITY, TOTAL</b>		<b>M2320 B</b>				Analyst: HR
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	2400	25		mg/L CaCO <sub>3</sub>	1	9/29/98
Alkalinity, Carbonate (As CaCO <sub>3</sub> )	ND	25		mg/L CaCO <sub>3</sub>	1	9/29/98
Alkalinity, Total (As CaCO <sub>3</sub> )	2400	25		mg/L CaCO <sub>3</sub>	1	9/29/98
<b>CHLORIDE</b>		<b>M4500-CL C.</b>				Analyst: HR
Chloride	110	10		mg/L	1	9/29/98
<b>CONDUCTIVITY</b>		<b>E120.1</b>				Analyst: HR
Specific Conductance	4230	2		uS/cm	1	9/28/98
<b>HARDNESS, TOTAL</b>		<b>E130.1</b>				Analyst: HR
Hardness (As CaCO <sub>3</sub> )	320	1		mg/L	1	10/2/98
<b>PH</b>		<b>E150.1</b>				Analyst: HR
pH	7.11	2		pH units	1	9/28/98
<b>SULFATE</b>		<b>M4500-SO<sub>4</sub> D</b>				Analyst: HR
Sulfate	253	5		mg/L	1	10/2/98
<b>TOTAL DISSOLVED SOLIDS</b>		<b>M2540 C.</b>				Analyst: HR
Total Dissolved Solids (Residue, Filterable)	3900	40		mg/L	1	10/2/98

**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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OFF: (505) 325-5667

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## ANALYTICAL REPORT

Date: 19-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9809074	<b>Client Sample ID:</b>	9809241500; MW-3
<b>Lab ID:</b>	9809074-03A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	9/24/98 3:00:00 PM
		<b>COC Record:</b>	7295

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
		<b>SW8020A</b>				<b>Analyst: DC</b>
Benzene	ND	1		µg/L	1	10/5/98
Toluene	ND	1		µg/L	1	10/5/98
Ethylbenzene	ND	1		µg/L	1	10/5/98
m,p-Xylene	ND	2		µg/L	1	10/5/98
o-Xylene	ND	1		µg/L	1	10/5/98

**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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 19-Oct-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9809074	<b>Client Sample ID:</b>	9809241530; MW-5
<b>Lab ID:</b>	9809074-04A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	9/24/98 3:30:00 PM
		<b>COC Record:</b>	7295

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
Benzene	62	1		µg/L	1	10/5/98
Toluene	ND	1		µg/L	1	10/5/98
Ethylbenzene	12	1		µg/L	1	10/5/98
m,p-Xylene	2.8	2		µg/L	1	10/5/98
o-Xylene	ND	1		µg/L	1	10/5/98

**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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 19-Oct-98

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<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9809074	<b>Client Sample ID:</b>	9809241600; MW-6
<b>Lab ID:</b>	9809074-05A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	9/24/98 4:00:00 PM
		<b>COC Record:</b>	7295

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Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
			<b>SW8020A</b>			<b>Analyst: DC</b>
Benzene	19	1		µg/L	1	10/5/98
Toluene	ND	1		µg/L	1	10/5/98
Ethylbenzene	6	1		µg/L	1	10/5/98
m,p-Xylene	20	2		µg/L	1	10/5/98
o-Xylene	ND	1		µg/L	1	10/5/98

**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

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

### Method Blank

Sample ID: <b>MB1</b>	Batch ID: <b>GC-1_981005</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>10/5/98</b>			Prep Date:			
Client ID:	Run ID:	SeqNo:		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val						J
Benzene	.045	1								
Ethylbenzene	ND	1								
m,p-Xylene	ND	2								
Methyl tert-Butyl Ether	ND	1								
o-Xylene	ND	1								
Toluene	.0848	1								
Sample ID: <b>MB1</b>	Batch ID: <b>GC-1_981010</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>10/10/98</b>			Prep Date:			
Client ID:	Run ID:	SeqNo:		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val						J
Benzene	.0539	1								
Ethylbenzene	ND	1								
m,p-Xylene	.1836	2								
o-Xylene	.0811	1								
Toluene	.1533	1								

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 19-Oct-98

### QC SUMMARY REPORT

1 of 1

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9809063-06AMS	Batch ID: GC-1_981005	Test Code: SW8020A	Units: µg/L	Analysis Date 10/5/98				Prep Date:			
Client ID:	Run ID: 9809074	Run ID: GC-1_981005A	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Analyte	Result	PQL	SPK value	SPK Ref Val							
Benzene	1445	10	400	1007	109.5%	56	128				
Ethylbenzene	1268	10	400	812.1	114.0%	78	107				
m,p-Xylene	983.7	20	800	150.6	104.1%	67	118				
Methyl tert-Butyl Ether	415.3	10	400	86.91	82.1%	70	130				
o-Xylene	490.4	10	400	97.51	98.2%	78	107				
Toluene	509	10	400	90.15	104.7%	74	116				
Sample ID: 9809063-06AMSD	Batch ID: GC-1_981005	Test Code: SW8020A	Units: µg/L	Analysis Date 10/5/98				Prep Date:			
Client ID:	Run ID: 9809074	Run ID: GC-1_981005A	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Analyte	Result	PQL	SPK value	SPK Ref Val							
Benzene	1360	10	400	1007	88.1%	56	128	1445	6.1%	12	
Ethylbenzene	1168	10	400	812.1	88.9%	78	107	1268	8.2%	11	
m,p-Xylene	898	20	800	150.6	93.4%	67	118	983.7	9.1%	10	
Methyl tert-Butyl Ether	403.8	10	400	86.91	79.2%	70	130	415.3	2.8%	15	
o-Xylene	463.9	10	400	97.51	91.6%	78	107	490.4	5.6%	14	
Toluene	473.3	10	400	90.15	95.8%	74	116	509	7.3%	14	
Sample ID: 9809078-01AMS	Batch ID: GC-1_981010	Test Code: SW8020A	Units: µg/L	Analysis Date 10/10/98				Prep Date:			
Client ID:	Run ID: 9809074	Run ID: GC-1_981010A	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Analyte	Result	PQL	SPK value	SPK Ref Val							
Benzene	384.3	10	400	5.268	94.8%	56	128				
Ethylbenzene	413.4	10	400	1.482	103.0%	78	107				
m,p-Xylene	880.2	20	800	120.6	95.0%	67	118				
o-Xylene	388	10	400	5.668	95.6%	78	107				
Toluene	402.1	10	400	7.565	98.6%	74	116				

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
 Sample Matrix Spike Duplicate

Sample ID: 9809078-01AMSD		Batch ID: GC-1_981010		Test Code: SW8020A		Units: µg/L		Analysis Date 10/10/98		Prep Date:		
Client ID:		Run ID:		GC-1_981010A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	380.5	10	400	5.268	93.8%	56	128	384.3	1.0%	12		
Ethylbenzene	398.8	10	400	1.482	99.3%	78	107	413.4	3.6%	11		
m,p-Xylene	871	20	800	120.6	93.8%	67	118	880.2	1.0%	10		
o-Xylene	395.5	10	400	5.668	97.5%	78	107	388	1.9%	14		
Toluene	400.5	10	400	7.565	98.2%	74	116	402.1	0.4%	14		
Sample ID: 9809082-01AMS		Batch ID: GC-1_981010		Test Code: SW8020A		Units: µg/L		Analysis Date 10/12/98		Prep Date:		
Client ID:		Run ID:		GC-1_981010A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	401.4	10	400	10.74	97.7%	56	128					
Ethylbenzene	1024	10	400	610	103.4%	78	107					
m,p-Xylene	1163	20	800	389.7	96.7%	67	118					
o-Xylene	531.8	10	400	128.1	100.9%	78	107					
Toluene	1033	10	400	628.1	101.1%	74	116					
Sample ID: 9809082-01AMS		Batch ID: GC-1_981010		Test Code: SW8020A		Units: µg/L		Analysis Date 10/12/98		Prep Date:		
Client ID:		Run ID:		GC-1_981010A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	398.5	10	400	10.74	97.0%	56	128	401.4	0.7%	12		
Ethylbenzene	1017	10	400	610	101.7%	78	107	1024	0.7%	11		
m,p-Xylene	1158	20	800	389.7	96.0%	67	118	1163	0.4%	10		
o-Xylene	531.7	10	400	128.1	100.9%	78	107	531.8	0.0%	14		
Toluene	1028	10	400	628.1	99.9%	74	116	1033	0.5%	14		

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

Date: 19-Oct-98

**QC SUMMARY REPORT**  
**Laboratory Control Spike - generic**

Sample ID: LCS WATER							Batch ID: GC-1_981005 Test Code: SW8020A Units: µg/L							Analysis Date 10/5/98							Prep Date:		
Client ID:		Run ID: GC-1_981005A		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Analyte		Result																					
Benzene		40.27	1		40		0.045		100.6%		56		128										
Ethylbenzene		41.28	1		40		0		103.2%		78		107										
m,p-Xylene		81.47	2		80		0		101.8%		67		118										
Methyl tert-Butyl Ether		36.37	1		40		0		90.9%		70		130										
o-Xylene		40.64	1		40		0		101.6%		78		107										
Toluene		40.08	1		40		0.0848		100.0%		74		116										
Sample ID: LCS WATER							Batch ID: GC-1_981010 Test Code: SW8020A Units: µg/L							Analysis Date 10/10/98							Prep Date:		
Client ID:		Run ID: GC-1_981010A		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Analyte		Result																					
Benzene		38.35	1		40		0.0539		95.7%		56		128										
Ethylbenzene		38.82	1		40		0		97.0%		78		107										
m,p-Xylene		76.82	2		80		0.1836		95.8%		67		118										
o-Xylene		39.36	1		40		0.0811		98.2%		78		107										
Toluene		38.71	1		40		0.1533		96.4%		74		116										

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_981005	Test Code: SW8020A	Units: µg/L	Analysis Date 10/5/98			Prep Date:		
Client ID:		Run ID: GC-1_981005A		SeqNo:	7310				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	20.59	1	20	0	103.0%	85	115		
Ethylbenzene	21.17	1	20	0	105.9%	85	115		
m,p-Xylene	41.4	2	40	0	103.5%	85	115		
Methyl tert-Butyl Ether	19.69	1	20	0	98.4%	85	115		
o-Xylene	20.9	1	20	0	104.5%	85	115		
Toluene	20.68	1	20	0	103.4%	85	115		
1,4-Difluorobenzene	91.25	0	100	0	91.3%	70	130		
4-Bromochlorobenzene	98.67	0	100	0	98.7%	70	130		
Fluorobenzene	89.98	0	100	0	90.0%	70	130		
Sample ID: CCV2 QC0606/07	Batch ID: GC-1_981005	Test Code: SW8020A	Units: µg/L	Analysis Date 10/5/98			Prep Date:		
Client ID:		Run ID: GC-1_981005A		SeqNo:	7311				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	20.37	1	20	0	101.9%	85	115		
Ethylbenzene	20.95	1	20	0	104.8%	85	115		
m,p-Xylene	41.04	2	40	0	102.6%	85	115		
Methyl tert-Butyl Ether	19.97	1	20	0	99.9%	85	115		
o-Xylene	20.79	1	20	0	104.0%	85	115		
Toluene	20.49	1	20	0	102.4%	85	115		
1,4-Difluorobenzene	91.26	0	100	0	91.3%	70	130		
4-Bromochlorobenzene	99.5	0	100	0	99.5%	70	130		
Fluorobenzene	89.66	0	100	0	89.7%	70	130		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 19-Oct-98

1 of 7

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_981005		Test Code: SW8020A		Units: µg/L		Analysis Date 10/5/98		Prep Date:		
Client ID:		Run ID:		GC-1_981005A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val							
Benzene		20.52	1	20	0	102.6%	85	115				
Ethylbenzene		21.07	1	20	0	105.4%	85	115				
m,p-Xylene		41.62	2	40	0	104.0%	85	115				
Methyl tert-Butyl Ether		16.94	1	20	0	84.7%	85	115				S
o-Xylene		21.32	1	20	0	106.6%	85	115				
Toluene		21.15	1	20	0	105.7%	85	115				
1,4-Difluorobenzene		90.25	0	100	0	90.3%	70	130				
4-Bromochlorobenzene		87.72	0	100	0	87.7%	70	130				
Fluorobenzene		88.84	0	100	0	88.8%	70	130				
Sample ID: CCV4 QC0606/07		Batch ID: GC-1_981005		Test Code: SW8020A		Units: µg/L		Analysis Date 10/5/98		Prep Date:		
Client ID:		Run ID:		GC-1_981005A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val							
Benzene		20.02	1	20	0	100.1%	85	115				
Ethylbenzene		20.55	1	20	0	102.8%	85	115				
m,p-Xylene		40.87	2	40	0	102.2%	85	115				
Methyl tert-Butyl Ether		17.77	1	20	0	88.9%	85	115				
o-Xylene		21.11	1	20	0	105.5%	85	115				
Toluene		20.74	1	20	0	103.7%	85	115				
1,4-Difluorobenzene		90.75	0	100	0	90.7%	70	130				
4-Bromochlorobenzene		85.14	0	100	0	85.1%	70	130				
Fluorobenzene		88.9	0	100	0	88.9%	70	130				

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

Sample ID: CCV5 QC0606/07		Batch ID: GC-1_981005		Test Code: SW8020A		Units: µg/L		Analysis Date 10/5/98		Prep Date:			
Client ID:		Run ID:		GC-1_981005A		%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val								
Benzene		19.79	1	20	0	99.0%		85	115				
Ethylbenzene		20.81	1	20	0	104.1%		85	115				
m,p-Xylene		40.81	2	40	0	102.0%		85	115				
o-Xylene		20.56	1	20	0	102.8%		85	115				
Toluene		20.34	1	20	0	101.7%		85	115				
1,4-Difluorobenzene		90.49	0	100	0	90.5%		70	130				
4-Bromochlorobenzene		87.07	0	100	0	87.1%		70	130				
Fluorobenzene		88.88	0	100	0	88.9%		70	130				
Sample ID: CCV6 QC0606/07		Batch ID: GC-1_981005		Test Code: SW8020A		Units: µg/L		Analysis Date 10/5/98		Prep Date:			
Client ID:		Run ID:		GC-1_981005A		%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val								
Benzene		20.42	1	20	0	102.1%		85	115				
Ethylbenzene		22.58	1	20	0	112.9%		85	115				
m,p-Xylene		44.24	2	40	0	110.6%		85	115				
o-Xylene		21.04	1	20	0	105.2%		85	115				
Toluene		21.69	1	20	0	108.5%		85	115				
1,4-Difluorobenzene		88.39	0	100	0	88.4%		70	130				
4-Bromochlorobenzene		62.52	0	100	0	62.5%		70	130				
Fluorobenzene		86.17	0	100	0	86.2%		70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

Sample ID: CCV7 QC0606/07		Batch ID: GC-1_981005		Test Code: SW8020A		Units: µg/L		Analysis Date 10/5/98		Prep Date:		
Client ID:		Run ID:		GC-1_981005A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	20.27	1	20	0	101.4%	85	115					
Ethylbenzene	21.91	1	20	0	109.5%	85	115					
m,p-Xylene	42.63	2	40	0	106.6%	85	115					
o-Xylene	21.01	1	20	0	105.1%	85	115					
Toluene	21.37	1	20	0	106.9%	85	115					
1,4-Difluorobenzene	89.71	0	100	0	89.7%	70	130					
4-Bromochlorobenzene	65.83	0	100	0	65.8%	70	130					
Fluorobenzene	88.41	0	100	0	88.4%	70	130					
Sample ID: CCV8 QC0606/07		Batch ID: GC-1_981005		Test Code: SW8020A		Units: µg/L		Analysis Date 10/5/98		Prep Date:		
Client ID:		Run ID:		GC-1_981005A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	19.98	1	20	0	99.9%	85	115					
Ethylbenzene	21.29	1	20	0	106.4%	85	115					
m,p-Xylene	41.58	2	40	0	104.0%	85	115					
o-Xylene	21.11	1	20	0	105.5%	85	115					
Toluene	20.86	1	20	0	104.3%	85	115					
1,4-Difluorobenzene	90.22	0	100	0	90.2%	70	130					
4-Bromochlorobenzene	83.45	0	100	0	83.4%	70	130					
Fluorobenzene	89.08	0	100	0	89.1%	70	130					

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
 Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_981010	Test Code: SW8020A	Units: µg/L			Analysis Date 10/10/98		Prep Date:		
Client ID:		Run ID:	GC-1_981010A		SeqNo:	7546					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.63	1	20	0	103.1%	85	115				
Ethylbenzene	21.03	1	20	0	105.1%	85	115				
m,p-Xylene	41.52	2	40	0	103.8%	85	115				
o-Xylene	21.26	1	20	0	106.3%	85	115				
Toluene	20.87	1	20	0	104.3%	85	115				
1,4-Difluorobenzene	91.12	0	100	0	91.1%	70	130				
4-Bromochlorobenzene	99.37	0	100	0	99.4%	70	130				
Fluorobenzene	90.47	0	100	0	90.5%	70	130				
Sample ID: CCV2 QC0606/07		Batch ID: GC-1_981010	Test Code: SW8020A	Units: µg/L			Analysis Date 10/10/98		Prep Date:		
Client ID:		Run ID:	GC-1_981010A		SeqNo:	7547					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.21	1	20	0	101.0%	85	115				
Ethylbenzene	20.52	1	20	0	102.6%	85	115				
m,p-Xylene	40.18	2	40	0	100.5%	85	115				
o-Xylene	20.8	1	20	0	104.0%	85	115				
Toluene	20.34	1	20	0	101.7%	85	115				
1,4-Difluorobenzene	91.45	0	100	0	91.5%	70	130				
4-Bromochlorobenzene	99.84	0	100	0	99.8%	70	130				
Fluorobenzene	90.84	0	100	0	90.8%	70	130				

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM

**Work Order:** 9809074

**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: <b>CCV3 QC0606/07</b>	Batch ID: <b>GC-1_981010</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>10/10/98</b>				Prep Date: <b>7548</b>			
Client ID: <b>9809074</b>	Run ID: <b>GC-1_981010A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	39.86	1	40	0	99.6%	85	115				
Ethylbenzene	40.09	1	40	0	100.2%	85	115				
m,p-Xylene	79.23	2	80	0	99.0%	85	115				
o-Xylene	40.7	1	40	0	101.7%	85	115				
Toluene	40.2	1	40	0	100.5%	85	115				
1,4-Difluorobenzene	90.63	0	100	0	90.6%	70	130				
4-Bromochlorobenzene	95.53	0	100	0	95.5%	70	130				
Fluorobenzene	89.9	0	100	0	89.9%	70	130				

Sample ID: <b>CCV4 QC0606/07</b>	Batch ID: <b>GC-1_981010</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>10/12/98</b>				Prep Date: <b>7549</b>			
Client ID: <b>9809074</b>	Run ID: <b>GC-1_981010A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	21.17	1	20	0	105.9%	85	115				
Ethylbenzene	21.54	1	20	0	107.7%	85	115				
m,p-Xylene	42.44	2	40	0	106.1%	85	115				
o-Xylene	21.74	1	20	0	108.7%	85	115				
Toluene	21.37	1	20	0	106.8%	85	115				
1,4-Difluorobenzene	91.19	0	100	0	91.2%	70	130				
4-Bromochlorobenzene	97.57	0	100	0	97.6%	70	130				
Fluorobenzene	90.69	0	100	0	90.7%	70	130				

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

	Sample ID: <b>CCV5 QC0806/07</b>	Batch ID: <b>GC-1_981010</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>		Analysis Date <b>10/12/98</b>		Prep Date:				
Analyte	Client ID: <b>9809074</b>	Run ID: <b>GC-1_981010A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.59	1	20	0	103.0%	85	85	115	115	115		
Ethylbenzene	20.98	1	20	0	104.9%	85	85	115	115	115		
m,p-Xylene	41.18	2	40	0	102.9%	85	85	115	115	115		
o-Xylene	21.23	1	20	0	106.2%	85	85	115	115	115		
Toluene	20.88	1	20	0	104.4%	85	85	115	115	115		
1,4-Difluorobenzene	91.12	0	100	0	91.1%	70	70	130	130	130		
4-Bromochlorobenzene	98.55	0	100	0	98.6%	70	70	130	130	130		
Fluorobenzene	90.14	0	100	0	90.1%	70	70	130	130	130		

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## On Site Technologies, LTD.

Date: 19-Oct-98

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip  
**Test No:** SW8020A

## **QC SUMMARY REPORT SURROGATE RECOVERIES**

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ					
9809060-05A	91.4	99.2	89.9					
9809060-06A	91.2	89.8	90					
9809060-07A	91.2	89.3	88.2					
9809060-08A	89	87.1	87.2					
9809060-09A	87	84.5	85.7					
9809063-03A	90.9	92.5	90					
9809063-04A	86.4	84.1	86					
9809063-05A	84.4	87.3	85.6					
9809063-06A	98.9	91.6	96.3					
9809063-06AMS	101	91	97.4					
9809063-06AMSD	99.7	93.7	96.8					
9809073-01A	90.4	63 *	87.9					
9809074-02A	82.9	62.5 *	81.3					
9809074-03A	90.5	74.3	88.7					
9809074-04A	90.7	88.5	88.8					
9809074-05A	83.4	61.8 *	82.2					
9809075-01A	90.6	86.3	88.8					
9809075-02A	89.2	71.2	86.6					
9809075-03A	89.3	62.6 *	86.1					
9809075-04A	88.5	56.7 *	86.1					
9809075-05A	87.5	53.5 *	84.2					
9809078-01A	86.9	103	95.5					
9809078-01AMS	88.9	97.7	88.9					
9809078-01AMSD	88.9	97.3	89.1					
9809078-02A	90.6	99.3	90.4					
9809078-03A	91.1	98.8	90.4					
9809078-04A	91.3	98	90.6					

<b>Acronym</b>	<b>Surrogate</b>	<b>QC Limits</b>
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

#### \* Surrogate recovery outside acceptance limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip  
**Test No:** SW8020A

**QC SUMMARY REPORT**  
**SURROGATE RECOVERIES**

**BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ					
9809078-05A	91.5	106	90.3					
9809078-06A	90.2	98.8	91.4					
9809082-01A	90.9	96.5	90.2					
9809082-01AMS	90.5	98.8	89.9					
9809082-01AMSD	91.1	98.9	90.2					
9810013-01A	91	100	91.3					
9810013-02A	91.6	101	91.3					
9810013-03A	91.3	100	90.2					
CCV1 QC0606/07	91.1	99.4	90.5					
CCV2 QC0606/07	91.4	99.8	90.8					
CCV3 QC0606/07	90.6	95.5	89.9					
CCV4 QC0606/07	91.2	97.6	90.7					
CCV5 QC0606/07	91.1	98.6	90.1					
CCV6 QC0606/07	88.4	62.5 *	86.2					
CCV7 QC0606/07	89.7	65.8 *	88.4					
CCV8 QC0606/07	90.2	83.4	89.1					
LCS WATER	90.3	99	90.1					
MB1	91.2	98.8	90.5					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

\* Surrogate recovery outside acceptance limits

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM

**Work Order:** 9809074

**Project:** Miles Federal 1E Drip

Date: 14-Oct-98

## QC SUMMARY REPORT

Method Blank

Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>SW7140</b>	Units: mg/L	Analysis Date: 10/2/98			Prep Date:	
Client ID:	Run ID: <b>API H2O_981002A</b>	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val				J
Calcium		.02	0.25					
Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>SW7450</b>	Units: mg/L	Analysis Date: 10/2/98			Prep Date:	
Client ID:	Run ID: <b>API H2O_981002A</b>	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val				
Magnesium		ND	0.25					
Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>SW7610</b>	Units: mg/L	Analysis Date: 10/2/98			Prep Date:	
Client ID:	Run ID: <b>API H2O_981002A</b>	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val				
Potassium		ND	0.25					
Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>SW7770</b>	Units: mg/L	Analysis Date: 10/2/98			Prep Date:	
Client ID:	Run ID: <b>API H2O_981002A</b>	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val				
Sodium		ND	0.25					
Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M2320 B</b>	Units: mg/L CaCO3	Analysis Date: 9/29/98			Prep Date:	
Client ID:	Run ID: <b>API H2O_981002A</b>	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val				
Alkalinity, Bicarbonate (As CaCO3)		2.3	5					J
Alkalinity, Carbonate (As CaCO3)		ND	5					J
Alkalinity, Total (As CaCO3)		2.3	5					
Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits						
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits						

B - Analyte detected in the associated Method Blank

1 of 2

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
**Method Blank**

Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M4500-CI C.</b>	Units: <b>mg/L</b>					Analysis Date: <b>9/29/98</b>					Prep Date:	
Client ID:	Run ID: <b>9809074</b> <td>Run ID: <b>API H2O_981002A</b></td> <td></td> <th>SeqNo:</th> <td>7220</td> <th></th> <th></th> <th>%REC</th> <th>LowLimit</th> <th>HighLimit</th> <th>RPD Ref Val</th> <th>%RPD</th> <th>RPDLimit</th> <th>Qual</th>	Run ID: <b>API H2O_981002A</b>		SeqNo:	7220			%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val										J
Chloride	1.4	10												
Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M4500-CI C.</b>	Units: <b>mg/L</b>					Analysis Date: <b>9/29/98</b>					Prep Date:	
Client ID:	Run ID: <b>9809074</b> <td>Run ID: <b>API H2O_981002A</b></td> <td></td> <th>SeqNo:</th> <td>7225</td> <th></th> <th></th> <th>%REC</th> <th>LowLimit</th> <th>HighLimit</th> <th>RPD Ref Val</th> <th>%RPD</th> <th>RPDLimit</th> <th>Qual</th>	Run ID: <b>API H2O_981002A</b>		SeqNo:	7225			%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val										J
Chloride	2.4	10												
Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>E120.1</b>	Units: <b>uS/cm</b>					Analysis Date: <b>9/28/98</b>					Prep Date:	
Client ID:	Run ID: <b>9809074</b> <td>Run ID: <b>API H2O_981002A</b></td> <td></td> <th>SeqNo:</th> <td>7231</td> <th></th> <th></th> <th>%REC</th> <th>LowLimit</th> <th>HighLimit</th> <th>RPD Ref Val</th> <th>%RPD</th> <th>RPDLimit</th> <th>Qual</th>	Run ID: <b>API H2O_981002A</b>		SeqNo:	7231			%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val										J
Specific Conductance	ND	2												
Sample ID: <b>MBlank</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M4500-SO4 D</b>	Units: <b>mg/L</b>					Analysis Date: <b>10/2/98</b>					Prep Date:	
Client ID:	Run ID: <b>9809074</b>	Run ID: <b>API H2O_981002A</b>		SeqNo:	7249			%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val										J
Sulfate	ND	5												

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Sample Duplicate

Sample ID:	Batch ID:	Test Code:	Units:	Analysis Date:	Prep Date:						
Client ID:	Run ID:	API H2O_981002A	mg/L CaCO3	SeqNo:							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	236	5	0	0	0.0%	0	0	236	0.0%	3	
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0.0%	0	0	0	0.0%	3	
Alkalinity, Total (As CaCO3)	236	5	0	0	0.0%	0	0	236	0.0%	3	
Sample ID: 9809073-01BD	Batch ID: API H2O_981	Test Code: M4500-Cl C.	Units: mg/L	Analysis Date: 9/29/98	Prep Date:						
Client ID:	Run ID:	API H2O_981002A		SeqNo:							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	607	10	0	0	0.0%	0	0	0	616	1.5%	7
Sample ID: 9809074-01BD	Batch ID: API H2O_981	Test Code: M4500-Cl C.	Units: mg/L	Analysis Date: 9/29/98	Prep Date:						
Client ID:	Run ID:	API H2O_981002A		SeqNo:							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.93	10	0	0	0.0%	0	0	11.05	0.0%	7	J
Sample ID: 9809074-01BD	Batch ID: API H2O_981	Test Code: M4500-SO4 D	Units: mg/L	Analysis Date: 10/2/98	Prep Date:						
Client ID:	Run ID:	API H2O_981002A		SeqNo:							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1910	25	0	0	0.0%	0	0	1904	0.3%	6	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 14-Oct-98

1 of 1

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Sample Matrix Spike

Sample ID:	Batch ID:	Test Code:	Units:	mg/L		Analysis Date:	10/2/98		Prep Date:		
Client ID:	Run ID:	API H2O_981002A				SeqNo:	7201				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	12.6	0.25	5	7.4	104.0%	67	157				
<b>Sample ID: 9809074-02BMS</b>		Test ID: API H2O_981	Test Code: SW7610	Units: mg/L		Analysis Date:	10/2/98		Prep Date:		
Client ID:	Run ID:	API H2O_981002A				SeqNo:	7174				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	298	0.25	100	182	116.0%	69	159				
<b>Sample ID: 9809074-02BMS</b>		Test ID: API H2O_981	Test Code: SW7450	Units: mg/L		Analysis Date:	10/2/98		Prep Date:		
Client ID:	Run ID:	API H2O_981002A				SeqNo:	7183				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	66.4	0.25	20	44	112.0%	78	126				
<b>Sample ID: 9809075-02BMS</b>		Test ID: API H2O_981	Test Code: SW7770	Units: mg/L		Analysis Date:	10/2/98		Prep Date:		
Client ID:	Run ID:	API H2O_981002A				SeqNo:	7210				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1360	0.25	400	990	92.5%	81	135				

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Laboratory Control Spike - generic

Date: 14-Oct-98

Sample ID: <b>LCS</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M2320 B</b>	Units: mg/L	<b>CaCO3</b>	Analysis Date: <b>9/29/98</b>	Prep Date:					
Client ID:	Run ID: <b>API H2O_981002A</b>	SeqNo:	7213								
Analyte:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	207	5	201	2	102.0%	91	116				
Sample ID: <b>LCS</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M4500-CI C.</b>	Units: mg/L		Analysis Date: <b>9/29/98</b>	Prep Date:					
Client ID:	Run ID: <b>API H2O_981002A</b>	SeqNo:	7221								
Analyte:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	112	10	108	1	102.8%	90	114				
Sample ID: <b>LCS</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M4500-CI C.</b>	Units: mg/L		Analysis Date: <b>9/29/98</b>	Prep Date:					
Client ID:	Run ID: <b>API H2O_981002A</b>	SeqNo:	7226								
Analyte:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	10	108	2	100.0%	90	114				
Sample ID: <b>LCS</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>E120.1</b>	Units: uS/cm		Analysis Date: <b>9/28/98</b>	Prep Date:					
Client ID:	Run ID: <b>API H2O_981002A</b>	SeqNo:	7232								
Analyte:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	1121	2	1100	0	101.9%	97	103				
Sample ID: <b>LCS</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>E150.1</b>	Units: pH units		Analysis Date: <b>9/28/98</b>	Prep Date:					
Client ID:	Run ID: <b>API H2O_981002A</b>	SeqNo:	7243								
Analyte:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.982	2	9.11	0	98.6%	98	102				

Qualifiers:  
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Laboratory Control Spike - generic

Sample ID: <b>LCS</b>	Batch ID: <b>API H2O_981</b>	Test Code: <b>M4500-SO4 D</b>	Units: <b>mg/l</b>	Analysis Date: <b>10/2/98</b>				Prep Date:			
Client ID:	Run ID: <b>9809074</b>	Run ID: <b>API H2O_981002A</b>		SeqNo:	7250						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	123	5	139	0	88.5%	83	113				

**Qualifiers:**

ND - Not Detected at the Reporting Limit

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S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

Date: 14-Oct-98

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID:	CCV1	QC0573	Batch ID:	API H2O_981	Test Code:	SW7450	Units:	mg/L		Analysis Date:	10/2/98	Prep Date:	
Client ID:			Run ID:	API H2O_981002A					SeqNo:	7177			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium			1.61	0.25	1.58	0	101.9%	96	114				
Sample ID:	CCV1	QC0610	Batch ID:	API H2O_981	Test Code:	SW7610	Units:	mg/L		Analysis Date:	10/2/98	Prep Date:	
Client ID:			Run ID:	API H2O_981002A					SeqNo:	7195			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium			2.65	0.25	2.68	0	98.9%	84	114				
Sample ID:	CCV1	QC0610	Batch ID:	API H2O_981	Test Code:	SW7770	Units:	mg/L		Analysis Date:	10/2/98	Prep Date:	
Client ID:			Run ID:	API H2O_981002A					SeqNo:	7204			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium			2.84	0.25	2.64	0	107.6%	87	111				
Sample ID:	CCV1	QC0611	Batch ID:	API H2O_981	Test Code:	SW7140	Units:	mg/L		Analysis Date:	10/2/98	Prep Date:	
Client ID:			Run ID:	API H2O_981002A					SeqNo:	7168			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium			1.98	0.25	1.95	0	101.5%	89	107				
Sample ID:	CCV2	QC0573	Batch ID:	API H2O_981	Test Code:	SW7450	Units:	mg/L		Analysis Date:	10/2/98	Prep Date:	
Client ID:			Run ID:	API H2O_981002A					SeqNo:	7184			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium			1.62	0.25	1.58	0	102.5%	96	114				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9809074  
**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

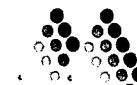
Sample ID:	CCV2 QC0610	Batch ID:	API H2O_981	Test Code:	SW7610	Units:	mg/L		Analysis Date:	10/2/98		Prep Date:
Client ID:	9809074	Run ID:	API H2O_981002A						SeqNo:	7202		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Potassium	2.66	0.25	2.68	0	99.3%	84	114					
Sample ID:	CCV2 QC0610	Batch ID:	API H2O_981	Test Code:	SW7770	Units:	mg/L		Analysis Date:	10/2/98		Prep Date:
Client ID:	9809074	Run ID:	API H2O_981002A						SeqNo:	7211		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Sodium	2.8	0.25	2.64	0	106.1%	87	111					
Sample ID:	CCV2 QC0611	Batch ID:	API H2O_981	Test Code:	SW7140	Units:	mg/L		Analysis Date:	10/2/98		Prep Date:
Client ID:	9809074	Run ID:	API H2O_981002A						SeqNo:	7175		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	1.98	0.25	1.95	0	101.5%	89	107					

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

RECEIVED Oct 19 1998



## Mountain States Analytical, Inc.

The Quality Solution

October 12, 1998

Mr. David Cox  
On Site Technologies, Ltd.  
612 E Murray Drive  
Farmington, NM 87401

Reference:

Project: WQCC Pb Analysis  
MSAI Group: 24280

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

9809074-01C

All holding times were met for the tests performed on these samples.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

A handwritten signature in black ink that appears to read "Rolf E. Larsen" followed by a surname ending in "or".

Rolf E. Larsen  
Project Manager

10  
Years of  
Quality  
Service

Corporate Office  
1645 West 2200 South, Salt Lake City, Utah 84119  
801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278  
e-mail: service@msailabs.com

Southwest States Region  
6223 Bayonne, Spring, Texas 77389  
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e-mail: gbrewer@msailabs.com





# Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.  
612 E Murray Drive  
Farmington, NM 87401

Attn: Mr. David Cox  
Project: WQCC Pb Analysis

Sample ID: 9809074-01C

Matrix: Water

Miles Federal 1E Drip 9809241400; MW-1

MSAI Sample: 87354  
MSAI Group: 24280  
Date Reported: 10/12/98  
Discard Date: 11/11/98  
Date Submitted: 10/01/98  
Date Sampled: 09/24/98  
Collected by:  
Purchase Order:  
Project No.:

Test Analysis	Results as Received	Units	Limit of Quantitation
0392I Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Batch. w650		
13001 Metals by ICP, 6010A, w/ww Method: SW-846 6010A	Lead	mg/l	0.250
0939 Sample Filtering, ww, MSAI Method: IN HOUSE MSAI	COMPLETE		

ND - Not detected at the Limit of Quantitation.

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,  
Reviewed and Approved by:

  
Rolf E. Larsen  
Project Manager

ysis Batch Number: ICPWA-10/06/98-061 -1  
t Identification : ICPWA-\*Metals by ICP  
umber of Samples : 7  
atch Data-Date/Time : 10/07/98 / 17:43:29

Sequence : DATA279

LANK#	ANALYTE	CONC FOUND #	CONC LIMIT
BW-650	Aluminum	0.0266	0.0300
	Arsenic	ND	0.0350
	Calcium	0.0652	0.3000
	Cadmium	ND	0.0040
	Chromium	ND	0.0100
	Copper	ND	0.0100
	Iron	0.0156	0.2000
	Potassium	0.0030	0.1500
	Magnesium	0.0125	0.0500
	Sodium	0.2547(1c)	0.1500
	Lead	ND	0.0500
	Selenium	ND	0.0600
	Zinc	0.0250	0.0250

SPIKE						QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
24274-87338	Aluminum	4.0000	0.0507	4.0739	100.6	80.0	120.0
	Arsenic	4.0000	-0.0007	4.0537	101.4	80.0	120.0
	Calcium	4.0000	99.6287	99.7651	3.4(2k)	80.0	120.0
	Cadmium	0.1000	0.0025	0.1039	101.4	80.0	120.0
	Chromium	0.4000	0.0008	0.4155	103.7	80.0	120.0
	Copper	0.5000	-0.0031	0.5031	101.2	80.0	120.0
	Iron	2.0000	0.1111	2.1192	100.4	80.0	120.0
	Potassium	20.0000	4.4708	24.5650	100.5	80.0	120.0
	Magnesium	4.0000	64.7513	67.1555	60.1(2k)	80.0	120.0
	Sodium	20.0000	58.1826	78.1379	99.8	80.0	120.0
	Lead	1.0000	0.0016	1.0615	106.0	80.0	120.0
	Selenium	4.0000	-0.0171	4.0757	102.3	80.0	120.0
	Zinc	1.0000	0.0567	1.1505	109.4	80.0	120.0

MSD							
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER
24274-87338	Aluminum	4.0000	0.0507	4.3477	107.4	80.0	120.0
	Arsenic	4.0000	-0.0007	4.1923	104.8	80.0	120.0
	Calcium	4.0000	99.6287	108.2528	215.6(2k)	80.0	120.0
	Cadmium	0.1000	0.0025	0.1092	106.7	80.0	120.0
	Chromium	0.4000	0.0008	0.4216	105.2	80.0	120.0
	Copper	0.5000	-0.0031	0.5144	103.5	80.0	120.0
	Iron	2.0000	0.1111	2.2177	105.3	80.0	120.0
	Potassium	20.0000	4.4708	25.4818	105.1	80.0	120.0
	Magnesium	4.0000	64.7513	72.5666	195.4(2k)	80.0	120.0
	Sodium	20.0000	58.1826	83.0821	124.5(2f)	80.0	120.0
	Lead	1.0000	0.0016	1.0913	109.0	80.0	120.0
	Selenium	4.0000	-0.0171	4.2109	105.7	80.0	120.0
	Zinc	1.0000	0.0567	1.1606	110.4	80.0	120.0

DUPLICATE						
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
24274-87338	Aluminum	0.0507	0.0394	25.0(5a)	20.0	1.00
	Arsenic	-0.0007	0.0048	265.4(11)	20.0	1.00

ysis Batch Number: ICPWA-10/06/98-061 -1  
Identification : ICPWA-\*Metals by ICP  
umber of Samples : 7  
atch Data-Date/Time : 10/07/98 / 17:43:29

Sequence : DATA279

**UPLICATE**

<u>SAMPLE#</u>	<u>ANALYTE</u>	<u>RESULT 1</u>	<u>RESULT 2</u>	<u>RPD #</u>	<u>LIMIT</u>	<u>DILUTION</u>
4274-87338	Calcium	99.6287	99.6216	0.0	20.0	1.00
	Cadmium	0.0025	0.0002	172.0(11)	20.0	1.00
	Chromium	0.0008	0.0047	140.5(11)	20.0	1.00
	Copper	-0.0031	0.0031	******(11)	20.0	1.00
	Iron	0.1111	0.1013	9.2	20.0	1.00
	Potassium	4.4708	4.6474	3.9	20.0	1.00
	Magnesium	64.7513	64.6938	0.1	20.0	1.00
	Sodium	58.1826	57.9215	0.4	20.0	1.00
	Lead	0.0016	0.0159	164.6(11)	20.0 ✓	1.00
	Selenium	-0.0171	0.0000	200.0(11)	20.0	1.00
	Zinc	0.0567	0.1099	63.9(5a)	20.0	1.00

**CONTROL**

<u>SAMPLE#</u>	<u>ANALYTE</u>	<u>CONC FOUND</u>	<u>CONC KNOWN</u>	<u>% REC #</u>	<u>QC LIMITS</u>	
					<u>LOWER</u>	<u>UPPER</u>
CSW-650	Aluminum	3.9920	4.0000	99.8	80.0	120.0
	Arsenic	4.0637	4.0000	101.6	80.0	120.0
	Calcium	4.2563	4.0000	106.4	80.0	120.0
	Cadmium	0.1070	0.1000	107.0	80.0	120.0
	Chromium	0.4196	0.4000	104.9	80.0	120.0
	Copper	0.5076	0.5000	101.5	80.0	120.0
	Iron	2.1450	2.0000	107.2	80.0	120.0
	Potassium	19.5778	20.0000	97.9	80.0	120.0
	Magnesium	3.9736	4.0000	99.3	80.0	120.0
	Sodium	20.1730	20.0000	100.9	80.0	120.0
	Lead	1.0754	1.0000	107.5 ✓	80.0	120.0
	Selenium	4.0125	4.0000	100.3	80.0	120.0
	Zinc	1.1225	1.0000	112.3	80.0	120.0

**QC LIMITS**

<u>CCV #</u>	<u>ANALYTE</u>	<u>TRUE VALUE</u>	<u>BATCH READ</u>	<u>% REC #</u>	<u>LOWER</u>	<u>UPPER</u>
ICV-	Aluminum	20.0000	20.1813	100.9	90.0	110.0
	Arsenic	1.6000	1.6546	103.4	90.0	110.0
	Calcium	40.0000	41.5082	103.8	90.0	110.0
	Cadmium	4.0000	4.1896	104.7	90.0	110.0
	Chromium	4.0000	4.2005	105.0	90.0	110.0
	Copper	4.0000	4.0895	102.2	90.0	110.0
	Iron	4.0000	4.2808	107.0	90.0	110.0
	Potassium	40.0000	40.1933	100.5	90.0	110.0
	Magnesium	20.0000	20.3530	101.8	90.0	110.0
	Sodium	40.0000	40.0427	100.1	90.0	110.0
	Lead	20.0000	21.3896	106.9 ✓	90.0	110.0
	Selenium	1.6000	1.5892	99.3	90.0	110.0
	Zinc	4.0000	4.2066	105.2	90.0	110.0
CCV1--2	Aluminum	20.0000	20.1204	100.6	90.0	110.0
	Arsenic	1.6000	1.6404	102.5	90.0	110.0
	Calcium	40.0000	41.2105	103.0	90.0	110.0
	Cadmium	4.0000	4.1821	104.6	90.0	110.0
	Chromium	4.0000	4.1810	104.5	90.0	110.0
	Copper	4.0000	4.0748	101.9	90.0	110.0

ysis Batch Number: ICPWA-10/06/98-061 -1  
Identification : ICPWA-\*Metals by ICP  
umber of Samples : 7  
atch Data-Date/Time : 10/07/98 / 17:43:29

Sequence : DATA279

## QC LIMITS

ICV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
ICV1--2	Iron	4.0000	4.2410	106.0	90.0	110.0
	Potassium	40.0000	39.9918	100.0	90.0	110.0
	Magnesium	20.0000	20.2215	101.1	90.0	110.0
	Sodium	40.0000	39.8686	99.7	90.0	110.0
	Lead	20.0000	21.3246	106.6	90.0	110.0
	Selenium	1.6000	1.6264	101.6	90.0	110.0
	Zinc	4.0000	4.1855	104.6	90.0	110.0
ICV2--3	Aluminum	20.0000	20.1005	100.5	90.0	110.0
	Arsenic	1.6000	1.6295	101.8	90.0	110.0
	Calcium	40.0000	41.1645	102.9	90.0	110.0
	Cadmium	4.0000	4.1754	104.4	90.0	110.0
	Chromium	4.0000	4.1770	104.4	90.0	110.0
	Copper	4.0000	4.0925	102.3	90.0	110.0
	Iron	4.0000	4.2111	105.3	90.0	110.0
	Potassium	40.0000	40.3054	100.8	90.0	110.0
	Magnesium	20.0000	20.2326	101.2	90.0	110.0
	Sodium	40.0000	39.9524	99.9	90.0	110.0
	Lead	20.0000	21.3444	106.7	90.0	110.0
	Selenium	1.6000	1.5983	99.9	90.0	110.0
	Zinc	4.0000	4.1819	104.5	90.0	110.0
ICV3--4	Aluminum	20.0000	19.9076	99.5	90.0	110.0
	Arsenic	1.6000	1.6256	101.6	90.0	110.0
	Calcium	40.0000	40.7550	101.9	90.0	110.0
	Cadmium	4.0000	4.1549	103.9	90.0	110.0
	Chromium	4.0000	4.1463	103.7	90.0	110.0
	Copper	4.0000	4.0685	101.7	90.0	110.0
	Iron	4.0000	4.1524	103.8	90.0	110.0
	Potassium	40.0000	40.1589	100.4	90.0	110.0
	Magnesium	20.0000	20.1634	100.8	90.0	110.0
	Sodium	40.0000	39.6352	99.1	90.0	110.0
	Lead	20.0000	21.2088	106.0	90.0	110.0
	Selenium	1.6000	1.5775	98.6	90.0	110.0
	Zinc	4.0000	4.1437	103.6	90.0	110.0
CCB#	ANALYTE	CONC FOUND #		CONC LIMIT		
ICB-	Aluminum	0.0228		0.0300		
	Arsenic	0.0128		0.0350		
	Calcium	0.0206		0.3000		
	Cadmium	ND		0.0040		
	Chromium	ND		0.0100		
	Copper	0.0010		0.0100		
	Iron	0.0282		0.2000		
	Potassium	ND		0.1500		
	Magnesium	0.0303		0.0500		
	Sodium	ND		0.1500		
	Lead	ND		0.0500		
	Selenium	0.0004		0.0600		
CCB1-	Zinc	0.0012		0.0250		
	Aluminum	ND		0.0300		

ysis Batch Number: ICPWA-10/06/98-061 -1

Identification : ICPWA-\*Metals by ICP

umber of Samples : 7

atch Data-Date/Time : 10/07/98 / 17:43:29

Sequence : DATA279

<u>CB#</u>	<u>ANALYTE</u>	<u>CONC FOUND #</u>	<u>CONC LIMIT</u>
CB1-	Arsenic	0.0122	0.0350
	Calcium	0.0134	0.3000
	Cadmium	0.0018	0.0040
	Chromium	0.0066	0.0100
	Copper	0.0064	0.0100
	Iron	0.0113	0.2000
	Potassium	0.1377	0.1500
	Magnesium	0.0331	0.0500
	Sodium	ND	0.1500
	Lead	ND	0.0500
	Selenium	0.0240	0.0600
	Zinc	0.0014	0.0250
	Aluminum	ND	0.0300
CB2-	Arsenic	0.0068	0.0350
	Calcium	0.0133	0.3000
	Cadmium	0.0004	0.0040
	Chromium	0.0033	0.0100
	Copper	0.0039	0.0100
	Iron	0.0031	0.2000
	Potassium	0.0534	0.1500
	Magnesium	0.0228	0.0500
	Sodium	ND	0.1500
	Lead	0.0094	0.0500
	Selenium	0.0028	0.0600
	Zinc	0.0011	0.0250
	Aluminum	ND	0.0300
CCB3-	Arsenic	0.0006	0.0350
	Calcium	0.0124	0.3000
	Cadmium	0.0009	0.0040
	Chromium	0.0037	0.0100
	Copper	0.0032	0.0100
	Iron	ND	0.2000
	Potassium	0.0778	0.1500
	Magnesium	0.0251	0.0500
	Sodium	ND	0.1500
	Lead	ND	0.0500
	Selenium	0.0171	0.0600
	Zinc	0.0009	0.0250

## ----- Result Footnotes -----

- (1c) - The preparation blank concentration is less than 5% of each sample in the batch
- (2k) - Sample concentration >4X spk added. Serial dilution was recovered within 10% limits.
- (2f) - Spike result outside limits. Serial dilution is within 10% acceptance limits.
- (5a) - Duplicates not evaluated: Results are <10x detection limit
- (11) - The duplicate results cannot be evaluated because both results are <MDL.

age 5

Mountain States Analytical, Inc.  
Daily QC Batching Data  
Data Released for Reporting

10/12/98  
12:49:38  
Group: 24280

ysis Batch Number: ICPWA-10/06/98-061 -1  
et Identification : ICPWA-\*Metals by ICP  
umber of Samples : 7  
atch Data-Date/Time : 10/07/98 / 17:43:29

Sequence : DATA279

Groups & Samples

-----  
24217-87124 24255-87258 24255-87259 24274-87338 24280-87354 24281-87355 24281-87356

# On Site Technologies, LTD.

612 E. Murray Drive  
Farmington, NM 87401  
(505) 325-2432

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:  
Mountain States Analytical, Inc.  
1645 West 2200 South  
Salt Lake City, UT 84119

TEL: (800) 973-6724  
FAX: (801) 972-6278

Acct #: 30-Sep-98

Sample ID	Matrix	Collection Date	Bottle Type	SW6010A	Requested Tests
9809074-01C	Aqueous	9/24/98 2:00:00 PM	1LCU	1	

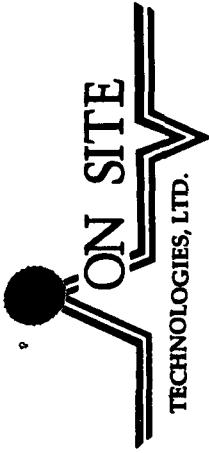
Comments:

Please analyze one (1) water for Lead (Pb). Dissolved ONLY per WQCC Standards.

Relinquished by: Rich. Ross  
Relinquished by:

Date/Time: 10/01/98 16:00  
Received by: Father A. Almeida  
Received by:

Date/Time: 10/01/98 16:05  
Received by: Father A. Almeida  
Received by:



# CHAIN OF CUSTODY RECORD

Date: 7/24/92Page: 1 of 1

612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499  
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.:		Name		Maureen Gannon		Title		
SEND INVOICE TO <b>Company</b> Address City, State, Zip	Name <b>Denver Bearden</b>	Dept.	<b>324-3763</b>	Company <b>PNM Gas Services</b>	Mailing Address <b>Alverado Square, Mail Stop 0408</b>	City, State, Zip <b>Albuquerque, NM 87158</b>	Telephone No. <b>505-848-2974</b>	Telefax No.	ANALYSIS REQUESTED	
	Sampling Location: <b>Miles Franklin E. Dr. P</b>		Sampler: <b>Mark G. Williams</b>		Number of Containers		LAB ID			
	SAMPLE IDENTIFICATION		SAMPLE DATE	MATRIX TIME	PRES.					
	9309241400	MW-1			11:30	11:30	2	X	X	
9309241430	MW-2					2	X	X		
9309241500	MW-3					2	X			
9309241530	MW-5					2	X			
9309241600	MW-6					2	X			
Method of Shipment:		Rush	24-48 Hours	10 Working Days	Special Instructions:		Results to be sent to both parties.			
Authorized by: <b>(Client Signature Must Accompany Request)</b>		Date <b>9/24/92</b>								
Relinquished by:		Date/Time <b>7/24/92 12:00</b>	Received by: <b>JG</b>	Date/Time <b>7/24/92 12:00</b>		Received by: <b>JG</b>	Date/Time <b>7/24/92 12:00</b>		Date/Time <b>7/24/92 12:00</b>	
Relinquished by:		Date/Time <b>7/24/92 12:00</b>	Received by: <b>JG</b>	Date/Time <b>7/24/92 12:00</b>		Received by: <b>JG</b>	Date/Time <b>7/24/92 12:00</b>		Date/Time <b>7/24/92 12:00</b>	
Relinquished by:		Date/Time <b>7/24/92 12:00</b>	Received by: <b>JG</b>	Date/Time <b>7/24/92 12:00</b>		Received by: <b>JG</b>	Date/Time <b>7/24/92 12:00</b>		Date/Time <b>7/24/92 12:00</b>	
Distribution: White - On Site    Yellow - LAB    Pink - Sampler								Goldenrod - Client		

**Analytical Report****Mountain States Analytical, Inc.***The Quality Solution*

On Site Technologies, Ltd.  
612 E Murray Drive  
Farmington, NM 87401

Attn: Mr. David Cox  
Project: WQCC Pb Analysis

Sample ID: 9809074-01C MILES FEDERAL IE DRIP

Matrix: Water 9809241402 MWI-1

MSAI Sample: 87354  
MSAI Group: 24280  
Date Reported: 10/12/98  
Discard Date: 11/11/98  
Date Submitted: 10/01/98  
Date Sampled: 09/24/98  
Collected by:  
Purchase Order:  
Project No.:

Test Analysis	Results as Received	Units	Method Detection Limit
03921 Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Batch. W650		
13001 Metals by ICP, 6010A, w/ww Method: SW-846 6010A	Lead ND	mg/l	0.050
0939 Sample Filtering, ww, MSAI Method: IN HOUSE MSAI	COMPLETE		

ND - Not detected at the Method Detection Limit.

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,  
Reviewed and Approved by:

Rolf E. Larsen  
Project Manager



OFF: (505) 325-5667

LAB: (505) 325-1556

December 15, 1998

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

4th Quarter 1998

RE: Miles Federal 1E Drip

Order No.: 9812025

Dear Maureen Gannon,

On Site Technologies, LTD. received 4 samples on 12/10/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'David Cox'.

David Cox



OFF: (505) 325-5667

LAB: (505) 325-1556

## On Site Technologies, LTD.

Date: 15-Dec-98

**CLIENT:** PNM - Public Service Company of NM  
**Project:** Miles Federal 1E Drip  
**Lab Order:** 9812025

## CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BRINGS INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 15-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Miles Federal 1E Drip
Work Order:	9812025	Client Sample ID:	9812091200; MW-2
Lab ID:	9812025-01A	Matrix:	AQUEOUS
Project:	Miles Federal 1E Drip	Collection Date:	12/9/98 12:00:00 PM
		COC Record:	7305

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
Benzene	16	1		µg/L	1	12/11/98
Toluene	ND	1		µg/L	1	12/11/98
Ethylbenzene	4.1	1		µg/L	1	12/11/98
m,p-Xylene	14	2		µg/L	1	12/11/98
o-Xylene	1.5	1		µg/L	1	12/11/98

**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      Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 15-Dec-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9812025	<b>Client Sample ID:</b>	9812091220; MW-5
<b>Lab ID:</b>	9812025-02A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	12/9/98 12:20:00 PM
		<b>COC Record:</b>	7305

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
			<b>SW8020A</b>			<b>Analyst: HR</b>
Benzene	43	1		µg/L	1	12/11/98
Toluene	1.7	1		µg/L	1	12/11/98
Ethylbenzene	10	1		µg/L	1	12/11/98
m,p-Xylene	24	2		µg/L	1	12/11/98
o-Xylene	1.3	1		µg/L	1	12/11/98

**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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667

LAB: (505) 325-1556



## ANALYTICAL REPORT

Date: 15-Dec-98

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9812025  
**Lab ID:** 9812025-03A    **Matrix:** AQUEOUS  
**Project:** Miles Federal 1E Drip

**Client Sample Info:** Miles Federal 1E Drip  
**Client Sample ID:** 9812091240; MW-6  
**Collection Date:** 12/9/98 12:40:00 PM  
**COC Record:** 7305

*MW-5  
Dupl/cate*

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>	<b>SW8020A</b>					<b>Analyst: HR</b>
Benzene	42	1		µg/L	1	12/11/98
Toluene	1.6	1		µg/L	1	12/11/98
Ethylbenzene	9.5	1		µg/L	1	12/11/98
m,p-Xylene	23	2		µg/L	1	12/11/98
o-Xylene	1.3	1		µg/L	1	12/11/98

**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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 15-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Miles Federal 1E Drip
Work Order:	9812025	Client Sample ID:	9812091300; MW-3
Lab ID:	9812025-04A	Matrix:	AQUEOUS
Project:	Miles Federal 1E Drip	Collection Date:	12/9/98 1:00:00 PM
		COC Record:	7305

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
			<b>SW8020A</b>			Analyst: HR
Benzene	2	1		µg/L	1	12/11/98
Toluene	ND	1		µg/L	1	12/11/98
Ethylbenzene	ND	1		µg/L	1	12/11/98
m,p-Xylene	ND	2		µg/L	1	12/11/98
o-Xylene	ND	1		µg/L	1	12/11/98

**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  
Surf. - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM

**Work Order:** 9812025

**Project:** Miles Federal 1E Drip

Date: 15-Dec-98

**QC SUMMARY REPORT**  
Method Blank

Sample ID: <b>MB1</b>	Batch ID: <b>GC-1_981211</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>12/11/98</b>			Prep Date:				
Client ID:	Run ID: <b>9812025</b>	Run ID: <b>GC-1_981211A</b>		SeqNo: <b>9492</b>	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val							
Benzene	.2564	1									J
Ethybenzene	.1588	1									J
m,p-Xylene	.4285	2									J
o-Xylene	.1668	1									J
Toluene	.4123	1									J

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 1

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9812025  
**Project:** Miles Federal 1E Drip

## QC SUMMARY REPORT

Date: 15-Dec-98

Sample Matrix Spike									
Sample ID:	9812009-01AMS	Batch ID:	GC-1_981211	Test Code:	SW8020A	Units: µg/L		Analysis Date	12/11/98
Client ID:	9812025	Run ID:	GC-1_981211A				SeqNo:	9493	Prep Date:
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	256.4	5	200	75.59	90.4%	56	128		
Ethylbenzene	205.3	5	200	16.65	94.3%	78	107		
m,p-Xylene	476.6	10	400	118.2	89.6%	67	118		
o-Xylene	225.2	5	200	38.78	93.2%	78	107		
Toluene	423.2	5	200	256.6	83.3%	74	116		

Sample Matrix Spike									
Sample ID:	9812009-01AMSD	Batch ID:	GC-1_981211	Test Code:	SW8020A	Units: µg/L		Analysis Date	12/11/98
Client ID:	9812025	Run ID:	GC-1_981211A				SeqNo:	9494	Prep Date:
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	254.8	5	200	75.59	89.6%	56	128	256.4	0.6%
Ethylbenzene	204.5	5	200	16.65	93.9%	78	107	205.3	0.4%
m,p-Xylene	474.4	10	400	118.2	89.1%	67	118	476.6	0.5%
o-Xylene	224.5	5	200	38.78	92.8%	78	107	225.2	0.3%
Toluene	421.2	5	200	256.6	82.3%	74	116	423.2	0.5%

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 1

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM  
Work Order: 9812025  
Project: Miles Federal 1E Drip

Date: 15-Dec-98  
**QC SUMMARY REPORT**  
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_981211	Test Code: SW8020A	Units: µg/L	Analysis Date 12/11/98	Prep Date:
Client ID: 9812025	Run ID: GC-1_981211A			SeqNo: 9491	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benzene	39.16	1	40	0.2564	97.3%
Ethybenzene	39.55	1	40	0.1588	98.5%
m,p-Xylene	77.38	2	80	0.4285	96.2%
o-Xylene	39.81	1	40	0.1668	99.1%
Toluene	39.36	1	40	0.4123	97.4%

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

1 of 1

**On Site Technologies, LTD.**

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9812025  
**Project:** Miles Federal 1E Drip

Date: 15-Dec-98

**QC SUMMARY REPORT**  
**Continuing Calibration Verification Standard**

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_981211		Test Code: SW8020A		Units: µg/L		Analysis Date 12/11/98		Prep Date:			
Client ID:		Run ID:		GC-1_981211A		%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val									
Benzene	20.65	1	20	0	103.2%	85	115						
Ethylbenzene	20.89	1	20	0	104.4%	85	115						
m,p-Xylene	40.66	2	40	0	101.7%	85	115						
o-Xylene	20.99	1	20	0	105.0%	85	115						
Toluene	20.86	1	20	0	104.3%	85	115						
1,4-Difluorobenzene	90.02	0	100	0	90.0%	70	130						
4-Bromochlorobenzene	97.45	0	100	0	97.5%	70	130						
Fluorobenzene	88.69	0	100	0	88.7%	70	130						
Sample ID: CCV2 QC0606/07		Batch ID: GC-1_981211		Test Code: SW8020A		Units: µg/L		Analysis Date 12/11/98		Prep Date:			
Client ID:		Run ID:		GC-1_981211A		%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val									
Benzene	20.17	1	20	0	100.9%	85	115						
Ethylbenzene	20.37	1	20	0	101.9%	85	115						
m,p-Xylene	39.6	2	40	0	99.0%	85	115						
o-Xylene	20.61	1	20	0	103.1%	85	115						
Toluene	20.37	1	20	0	101.8%	85	115						
1,4-Difluorobenzene	89.98	0	100	0	90.0%	70	130						
4-Bromochlorobenzene	97.79	0	100	0	97.8%	70	130						
Fluorobenzene	88.58	0	100	0	88.6%	70	130						

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9812025  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
 Continuing Calibration Verification Standard

Sample ID: <b>CCV3 QC0606/07</b>		Batch ID: <b>GC-1_981211</b>		Test Code: <b>SW8020A</b>		Units: <b>µg/L</b>		Analysis Date <b>12/11/98</b>		Prep Date: <b>9488</b>	
Client ID:		Run ID:		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Analyte											
Benzene		38.19	1	40	0	95.5%	85	115			
Ethylbenzene		38.64	1	40	0	96.6%	85	115			
m,p-Xylene		75.65	2	80	0	94.6%	85	115			
o-Xylene		39.11	1	40	0	97.8%	85	115			
Toluene		38.57	1	40	0	96.4%	85	115			
1,4-Difluorobenzene		89.69	0	100	0	89.7%	70	130			
4-Bromochlorobenzene		98.67	0	100	0	98.7%	70	130			
Fluorobenzene		89.01	0	100	0	89.0%	70	130			
Sample ID: <b>CCV4 QC0606/07</b>		Batch ID: <b>GC-1_981211</b>		Test Code: <b>SW8020A</b>		Units: <b>µg/L</b>		Analysis Date <b>12/11/98</b>		Prep Date: <b>9489</b>	
Client ID:		Run ID:		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Analyte											
Benzene		20.66	1	20	0	103.3%	85	115			
Ethylbenzene		20.96	1	20	0	104.8%	85	115			
m,p-Xylene		40.56	2	40	0	101.4%	85	115			
o-Xylene		21.22	1	20	0	106.1%	85	115			
Toluene		20.77	1	20	0	103.9%	85	115			
1,4-Difluorobenzene		90.18	0	100	0	90.2%	70	130			
4-Bromochlorobenzene		97.08	0	100	0	97.1%	70	130			
Fluorobenzene		88.52	0	100	0	88.5%	70	130			

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9812025  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

Sample ID: <b>CCV5 QC0606/07</b>	Batch ID: <b>GC-1_981211</b>	Test Code: <b>SW8020A</b>	Units: <b>µg/L</b>	Analysis Date <b>12/11/98</b>				Prep Date:		
Client ID:		Run ID: <b>GC-1_981211A</b>		SeqNo: <b>9490</b>	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC					
Benzene	20.21	1	20	0	101.0%	85	115			
Ethylbenzene	20.51	1	20	0	102.6%	85	115			
m,p-Xylene	39.72	2	40	0	99.3%	85	115			
o-Xylene	20.91	1	20	0	104.5%	85	115			
Toluene	20.42	1	20	0	102.1%	85	115			
1,4-Difluorobenzene	89.72	0	100	0	89.7%	70	130			
4-Bromochlorobenzene	98.29	0	100	0	98.3%	70	130			
Fluorobenzene	88.64	0	100	0	88.6%	70	130			

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 15-Dec-98

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9812025  
**Project:** Miles Federal 1E Drip  
**Test No:** SW8020A

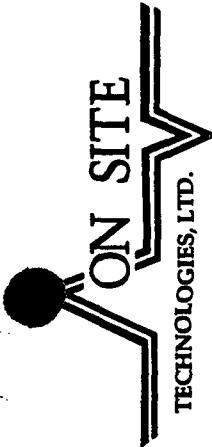
**QC SUMMARY REPORT  
SURROGATE RECOVERIES**

**BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ
9812009-01A	89.7	97.4	89
9812009-01AMS	89.2	98.3	88.8
9812009-01AMSD	89.7	98.5	88.4
9812021-01A	88	96.2	89.7
9812021-02A	88.5	96.4	87.5
9812021-03A	89.4	98.4	88.3
9812024-01A	89.8	97.8	88.7
9812024-02A	89.8	124	89.2
9812024-03A	90	97.6	88.6
9812024-04A	90.2	98.3	89.5
9812024-05A	89.5	99	88.6
9812025-01A	86.1	92	84.6
9812025-02A	89.9	98.5	88.9
9812025-03A	89.9	98.2	88.6
9812025-04A	89.6	97.9	88.8
CCV1 QC0606/07	90	97.4	88.7
CCV2 QC0606/07	90	97.8	88.6
CCV3 QC0606/07	89.7	98.7	89
CCV4 QC0606/07	90.2	97.1	88.5
CCV5 QC0606/07	89.7	98.3	88.6
LCS WATER	89.6	97.8	89
MB1	90.4	96	89.2

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

\* Surrogate recovery outside acceptance limits



# CHAIN OF CUSTODY RECORD

Date: 10/07/95  
612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499  
LAB: (505) 325-5667 • FAX: (505) 325-6256

Page: 1 of 1

Purchase Order No.:		Job No.	Name		Maureen Gannon	Title
Name	Company	Dept.	Company	Mailing Address	Alverado Square, Mail Stop 0408	PNM Gas Services
TO	Address	City, State, Zip	City, State, Zip	Telephone No.	Albuquerque, NM 87158	505-848-2974
INVOICE	Number of Containers	CONTAINERS	ANALYSIS REQUESTED	LAB ID	RESULTS TO	REPORT TO
SEND	Sampling Location:	Water Treatment Drop	1	1	1	1
TO	Sampler:	Denver Bearden	1	1	1	1
INVOICE	Sampler:	PNM Gas Services	1	1	1	1
Method of Shipment:	1	1	1	1	1	1
Authorized by:	<u>Denver Bearden</u>		Date <u>10/07/95</u>	Special Instructions:  <b>Results to be sent to both parties.</b>		
(Client Signature Must Accompany Request)				Distribution: White - On Site	Yellow - LAB	Pink - Sampler
				Goldenrod - Client		



OFF: (505) 325-5667

LAB: (505) 325-1556

February 23, 1999

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

1st Quarter 1999

Rec'd. Mar 02 1999

RE: Miles Federal 1E Drip

Order No.: 9902065

Dear Maureen Gannon,

On Site Technologies, LTD. received 4 samples on 2/11/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox".

David Cox



OFF: (505) 325-5667

LAB: (505) 325-1556

## On Site Technologies, LTD.

Date: 23-Feb-99

**CLIENT:** PNM - Public Service Company of NM  
**Project:** Miles Federal 1E Drip  
**Lab Order:** 9902065

## CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Feb-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9902065	<b>Client Sample ID:</b>	9902111140; MW-2
<b>Lab ID:</b>	9902065-01A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	2/11/99 11:40:00 AM
		<b>COC Record:</b>	7533

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
			<b>SW8021B</b>			<b>Analyst: HR</b>
Benzene	8.6	0.5		µg/L	1	2/17/99
Toluene	ND	0.5		µg/L	1	2/17/99
Ethylbenzene	2	0.5		µg/L	1	2/17/99
m,p-Xylene	3.7	1		µg/L	1	2/17/99
o-Xylene	1	0.5		µg/L	1	2/17/99

**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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667

LAB: (505) 325-1556



## ANALYTICAL REPORT

Date: 23-Feb-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9902065	<b>Client Sample ID:</b>	9902111200; MW-3
<b>Lab ID:</b>	9902065-02A	<b>Matrix:</b>	AQUEOUS
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	2/11/99 12:00:00 PM
		<b>COC Record:</b>	7533

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>			<b>SW8021B</b>			Analyst: HR
Benzene	1.2	0.5		µg/L	1	2/17/99
Toluene	ND	0.5		µg/L	1	2/17/99
Ethylbenzene	ND	0.5		µg/L	1	2/17/99
m,p-Xylene	ND	1		µg/L	1	2/17/99
o-Xylene	ND	0.5		µg/L	1	2/17/99

<b>Qualifiers:</b>	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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Feb-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip
<b>Work Order:</b>	9902065	<b>Client Sample ID:</b>	9902111220; MW-5
<b>Lab ID:</b>	9902065-03A	<b>Collection Date:</b>	2/11/99 12:20:00 PM
<b>Project:</b>	Miles Federal 1E Drip	<b>COC Record:</b>	7533

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>						
			<b>SW8021B</b>			<b>Analyst: HR</b>
Benzene	93	0.5		µg/L	1	2/17/99
Toluene	3.1	0.5		µg/L	1	2/17/99
Ethylbenzene	29	0.5		µg/L	1	2/17/99
m,p-Xylene	46	1		µg/L	1	2/17/99
o-Xylene	0.9	0.5		µg/L	1	2/17/99

**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  
Surf: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Feb-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Miles Federal 1E Drip	<i>MW-5 Duplicat</i>
<b>Work Order:</b>	9902065	<b>Client Sample ID:</b>	9902111240; MW-6	
<b>Lab ID:</b>	9902065-04A	<b>Matrix:</b>	AQUEOUS	
<b>Project:</b>	Miles Federal 1E Drip	<b>Collection Date:</b>	2/11/99 12:40:00 PM	
		<b>COC Record:</b>	7533	

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>BTEX</b>			<b>SW8021B</b>			<b>Analyst: HR</b>
Benzene	84	0.5		µg/L	1	2/17/99
Toluene	2	0.5		µg/L	1	2/17/99
Ethylbenzene	25	0.5		µg/L	1	2/17/99
m,p-Xylene	39	1		µg/L	1	2/17/99
o-Xylene	0.6	0.5		µg/L	1	2/17/99

**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

*1 of 1*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 23-Feb-99

QC SUMMARY REPORT  
Method Blank

CLIENT: PNM - Public Service Company of NM  
Work Order: 9902065  
Project: Miles Federal 1E Drip

Sample ID: <b>MB1</b>	Batch ID: <b>GC-1_990217</b>	Test Code: <b>SW8021B</b>	Units: <b>µg/L</b>	Analysis Date <b>2/17/99</b>				Prep Date:			
Client ID: <b>9902065</b>	Run ID: <b>GC-1_990217A</b>	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	.0423	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.0269	0.5									J
Toluene	.1228	0.5									J

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank  
I of I

## On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9902065  
**Project:** Miles Federal 1E Drip

Date: 23-Feb-99

## QC SUMMARY REPORT

Sample Matrix Spike

Analysis Date 2/17/99								Prep Date:		
SeqNo: 11134										
Sample ID: 9902063-02AMS	Batch ID: GC-1_990217	Test Code: SW8021B	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Client ID:	Run ID: 9902065	Result: GC-1_990217A	PQL: SPK value	SPK Ref Val						
Analyte		Result	PQL	SPK value	SPK Ref Val					
Benzene	621.5	2.5	200	432.8	94.3%	73	115			
Ethylbenzene	202.6	2.5	200	0.762	100.9%	74	117			
m,p-Xylene	388.5	5	400	1.306	96.8%	76	112			
Methyl tert-Butyl Ether	205	5	200	0	102.5%	62	122			
o-Xylene	202.5	2.5	200	0.9555	100.8%	83	112			
Toluene	200.7	2.5	200	0.763	100.0%	71	120			
Sample ID: 9902063-02AMSD	Batch ID: GC-1_990217	Test Code: SW8021B	Units: µg/L	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Client ID:	Run ID: 9902065	Result: GC-1_990217A	PQL: SPK value	SPK Ref Val						
Analyte		Result	PQL	SPK value	SPK Ref Val					
Benzene	631.3	2.5	200	432.8	99.2%	73	115	621.5	1.6%	8
Ethylbenzene	205.6	2.5	200	0.762	102.4%	74	117	202.6	1.5%	9
m,p-Xylene	393.8	5	400	1.306	98.1%	76	112	388.5	1.4%	9
Methyl tert-Butyl Ether	203.6	5	200	0	101.8%	62	122	205	0.7%	7
o-Xylene	205.2	2.5	200	0.9555	102.1%	83	112	202.5	1.3%	9
Toluene	203.8	2.5	200	0.763	101.5%	71	120	200.7	1.5%	9

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank  
I of I

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM  
Work Order: 9902065  
Project: Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_990217	Test Code: SW8021B	Units: µg/L	Analysis Date 2/17/99			Prep Date:				
Client ID:	Run ID:	GC-1_990217A		%REC	SeqNo:	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val							
Benzene	39.99	0.5	40	0.0423		99.9%		84		110	
Ethylbenzene	40.12	0.5	40	0		100.3%		86		113	
m,p-Xylene	77.23	1	80	0		96.5%		81		114	
Methyl tert-Butyl Ether	41.32	1	40	0		103.3%		69		129	
o-Xylene	39.98	0.5	40	0.0269		99.9%		86		112	
Toluene	39.75	0.5	40	0.1228		99.1%		85		111	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 23-Feb-99

On Site Technologies, LTD.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9902065  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
**Client ID:** Miles Federal 1E Drip  
**Analysis Date:** 2/17/99  
**Prep Date:**

Continuing Calibration Verification Standard							
Sample ID: CCV1 QC0606/07	Batch ID: GC-1_990217	Test Code: SW8021B	Units: µg/L	Analysis Date 2/17/99			
Client ID:	Run ID: 9902065	Run ID: GC-1_990217A	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Analyte	Result	PQL	SPK value	SPK Ref Val			
Benzene	21.27	0.5	20	0	106.3%	85	115
Ethylbenzene	21.16	0.5	20	0	105.8%	85	115
m,p-Xylene	40.62	1	40	0	101.5%	85	115
Methyl tert-Butyl Ether	21.15	1	20	0	105.8%	85	115
o-Xylene	21.08	0.5	20	0	105.4%	85	115
Toluene	21.04	0.5	20	0	105.2%	85	115
1,4-Difluorobenzene	93.24	0	100	0	93.2%	84	100
4-Bromochlorobenzene	97.55	0	100	0	97.6%	87	105
Fluorobenzene	94.06	0	100	0	94.1%	87	99
Sample ID: CCV2 QC0606/07	Batch ID: GC-1_990217	Test Code: SW8021B	Units: µg/L	Analysis Date 2/17/99			
Client ID:	Run ID: 9902065	Run ID: GC-1_990217A	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Analyte	Result	PQL	SPK value	SPK Ref Val			
Benzene	21.68	0.5	20	0	108.4%	85	115
Ethylbenzene	21.52	0.5	20	0	107.6%	85	115
m,p-Xylene	41.22	1	40	0	103.1%	85	115
Methyl tert-Butyl Ether	20.81	1	20	0	104.1%	85	115
o-Xylene	21.42	0.5	20	0	107.1%	85	115
Toluene	21.42	0.5	20	0	107.1%	85	115
1,4-Difluorobenzene	94.01	0	100	0	94.0%	84	100
4-Bromochlorobenzene	96.02	0	100	0	96.0%	87	105
Fluorobenzene	94.09	0	100	0	94.1%	87	99

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 2

Date: 23-Feb-99

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9902065  
**Project:** Miles Federal 1E Drip

**QC SUMMARY REPORT**  
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07	Batch ID: GC-1_990217	Test Code: SW8021B	Units: µg/L	Analysis Date 2/17/99			Prep Date:		
Client ID:	Run ID:	GC-1_990217A		SeqNo:	11131		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	40.77	0.5	40	0	101.9%	85	115		
Ethylbenzene	40.64	0.5	40	0	101.6%	85	115		
m,p-Xylene	77.98	1	80	0	97.5%	85	115		
Methyl tert-Butyl Ether	40.07	1	40	0	100.2%	85	115		
o-Xylene	40.58	0.5	40	0	101.4%	85	115		
Toluene	40.48	0.5	40	0	101.2%	85	115		
1,4-Difluorobenzene	93.25	0	100	0	93.2%	84	100		
4-Bromochlorobenzene	97.11	0	100	0	97.1%	87	105		
Fluorobenzene	93.63	0	100	0	93.6%	87			

Qualifiers:

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 23-Feb-99

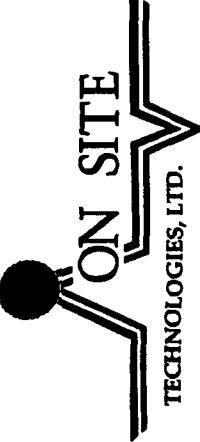
**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9902065  
**Project:** Miles Federal 1E Drip  
**Test No:** SW8021B

**QC SUMMARY REPORT**  
**SURROGATE RECOVERIES**  
**BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ
9902052-01A	90.6	96.1	91.9
9902060-04A	92.4	96.1	92.8
9902060-05A	92.8	97	93
9902063-02A	92.5	97.2	93.1
9902063-02AMS	92.2	97.6	92.2
9902063-02AMSD	92	97.1	92.2
9902063-03A	93.6	96.9	94
9902063-04A	94.1	97.4	94.8
9902063-05A	94.4	96.8	94.9
9902063-06A	87	89.5	92.3
9902063-08A	88.1	90.8	93.9
9902065-01A	87.1	89.4	87.7
9902065-02A	94.1	97.6	94.7
9902065-03A	90.8	94.8	90.8
9902065-04A	90.4	94.6	91.3
9902067-01A	94.8	97.2	94.6
9902067-02A	93.7	96.6	93.8
9902067-03A	95.2	97.5	95.5
9902067-04A	94.4	97.3	95
9902069-02A	91.5	93.7	92.1
CCV1 QC0606/07	93.2	97.6	94
CCV2 QC0606/07	94	96	94.1
CCV3 QC0606/07	93.2	97.1	93.6
LCS WATER	93.4	97.5	93.6
MB1	94	96.9	95.1

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	84-100
4BCBZ	= 4-Bromochlorobenzene	87-105
FLBZ	= Fluorobenzene	87-99

\* Surrogate recovery outside acceptance limits



# CHAIN OF CUSTODY RECORD

612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499  
LAB: (505) 325-5867 • FAX: (505) 325-6256

Date: 2/11/99 Page: 1 of 1

Purchase Order No.:		Job No.		Name		Maureen Gannon		Title	
<b>SEND TO</b> <b>INVOICE</b>	Name	Denver Bearden		Company		PNM Gas Services			
	Company	PNM Gas Services		Dept.	324-3763		Mailing Address	Alverado Square, Mail Stop 0408	
	Address	603 W. Elm Street					City, State, Zip	Albuquerque, NM 87158	
	City, State, Zip	Farmington, NM 87401					Telephone No.	505-848-2974	
Sampling Location: <u>M. Las Fazendas 11 E Dr. P</u>									
Sampler: <u>Mark S. Kelianos</u>									
<b>RESULTS TO</b> <b>REPORT</b>	Number of Containers		Containment		ANALYSIS REQUESTED		LAB ID		
	SAMPLE IDENTIFICATION		SAMPLE	DATE	TIME	MATRIX	PRES.		
	MW-2	990211140				A/C	2	X	
	MW-3	9902111200					2	X	
	MW-5	9902111220					2	X	
	MW-6	9902111240					2	X	
Method of Shipment:		Rush	24-48 Hours	10 Working Days	Special Instructions:				
Authorized by: <u>J.D.</u> Date <u>2/11/99</u>						Results to be sent to both parties.			
(Client Signature Must Accompany Request)									

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client