

3R - 344

REPORTS

DATE:

1999

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.

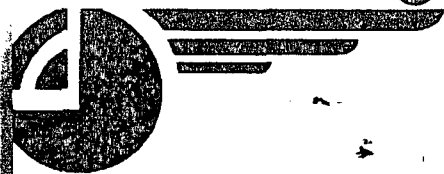
Sincerely,

A handwritten signature in cursive script, appearing to read "Maureen Gannon", with a horizontal line extending to the right.

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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APR 07 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Annual Groundwater Report 1999

Volume II

*Unlined Surface Impoundments
San Juan Basin*



Groundwater Site Summary Report

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

Operator: Burlington Resources
Sec: 24 **Twn:** 31N **Rng:** 11W **Unit:** M
Canyon: Animas

Vulnerable Class: Original
OCD Ranking: 40
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 (August 1998), Figure 2c (November 1998) & Figure 2d (January 1999)

Hydrograph: Figure 3

Full suite-Groundwater Sampling Results: Table 1

Analytical Results: attached

Site Hydrology:

The Turner 1A site as presented in Figure 1 is located in the floodplain of the Animas River, about 1000 feet southeast of the waterline, and lies perhaps 20 feet higher in elevation than the river waters. Materials beneath the site are essentially the same as the modern river's bedload, spanning the broad alluvial plains along the major river systems of the San Juan Basin (Stone et al., 1983). The valley floor of the Animas is about one mile wide near the Turner 1A site. Hydraulic conductivity of these materials is expected to be very high, as they are described as "cobbles" in site excavations and monitor wells.

An irrigation ditch (not shown on topographic maps) skirts the north and east sides of the site. Recharge to groundwater is likely from drainage of these irrigated lands. Depth to water is roughly ten feet.

Four monitor wells installed at the Turner 1A site show that groundwater flow is west-northwest, following the topographic gradient precisely towards the river (Figures 2a through 2d). Groundwater elevations are strongly influenced by the operation of the irrigation ditch in spring and summer months; hydrographs at the site show lowest elevations in the wintertime (Figure 3). Flow direction does not vary appreciably from season to season (see Figures 2a through 2d).

Activities for Previous Year:

Quarterly sampling took place on May 11, August 7, and November 3, 1998 and again on January 21, 1999. Water level measurements were taken in the four monitoring wells. PNM conducted groundwater sampling in each well for chemical analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) during the May 1998 sampling event, and only in well MW-2 thereafter. All sampling was performed in strict compliance with EPA protocol. PNM delivered the samples to OnSite Technologies, Farmington, New Mexico. The samples were analyzed for BTEX using EPA Method 8020.

PNM conducted additional source removal at this site in March, 1998 in order to address the elevated benzene levels in MW-2. Approximately 980 cubic yards of contaminated soil were remediated.

Results:

Figure 1 presents a site map showing BTEX for each monitoring well since groundwater contamination was discovered. MW-1, -3 and -4 have been below standards since installation, and as of the May 1998 sampling event, each of these wells has shown BTEX concentrations below standards for four consecutive quarters. MW-2 is demonstrating a strong downward trend in benzene concentrations since secondary remediation. Benzene levels are

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

almost to the standard in the last sampling event (12 ppb in January, 1999). Toluene, ethylbenzene and xylenes concentrations in this well have been below standards since project inception.

Future Actions:

PNM will continue to monitor groundwater elevations and conduct quarterly groundwater sampling of MW-2 at the Turner 1A site. It would appear that the secondary excavation was effective as source control. The monitoring well network provides representative data, and wells are placed to detect contaminants entering and leaving the site. There does not appear to be upgradient source(s) affecting the site, nor evidence that any contamination escapes the site undetected. It is expected that concentrations of benzene will quickly fall below standards and that site closure can occur in four to five calendar quarters.

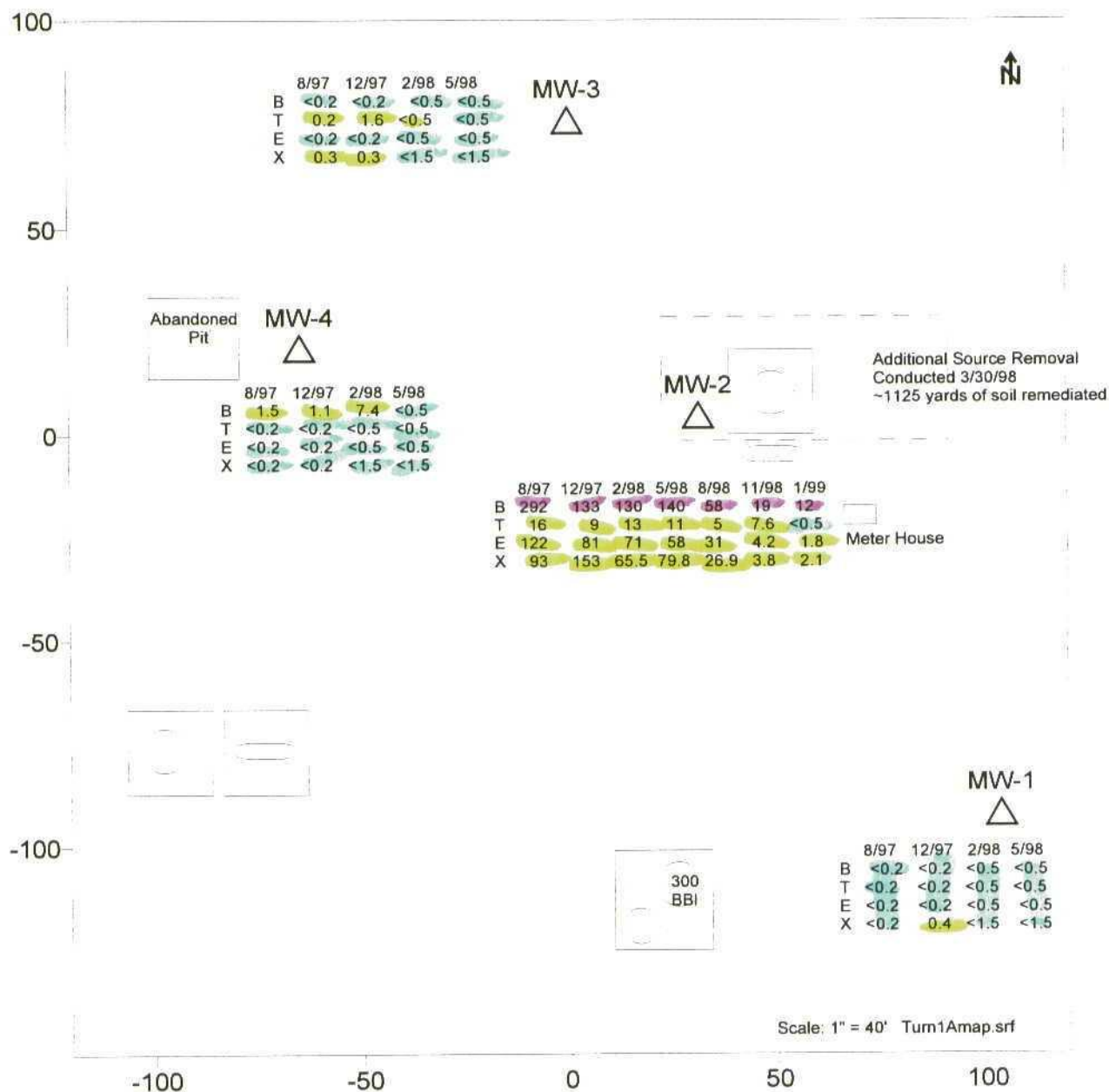
Public Service Company of New Mexico - Gas Services

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

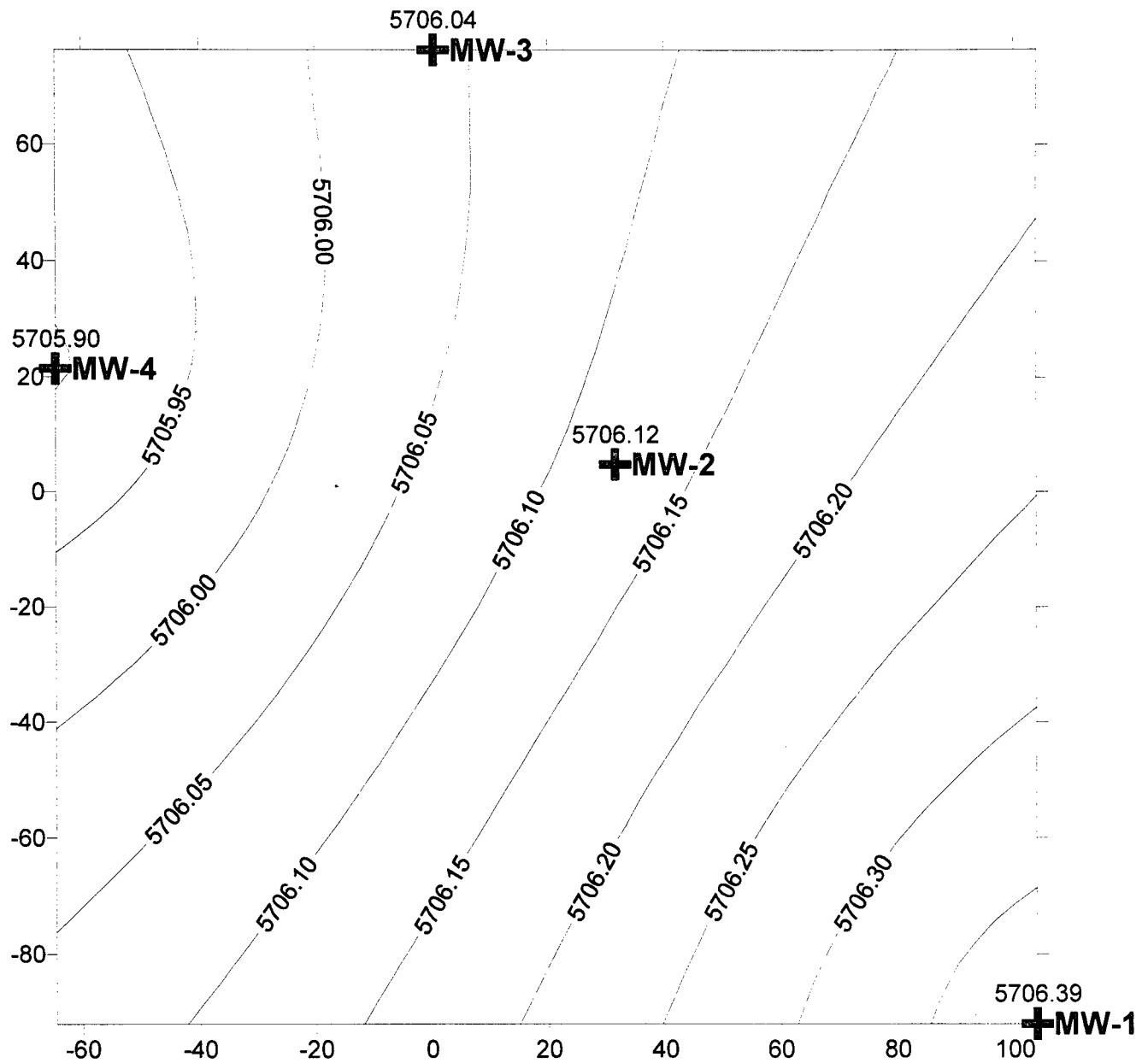
Contact: Maureen Gannon

Telephone: 505-241-2974

Figure 1. Turner 1A Site Map & Analytical Results
(Concentrations in ppb)

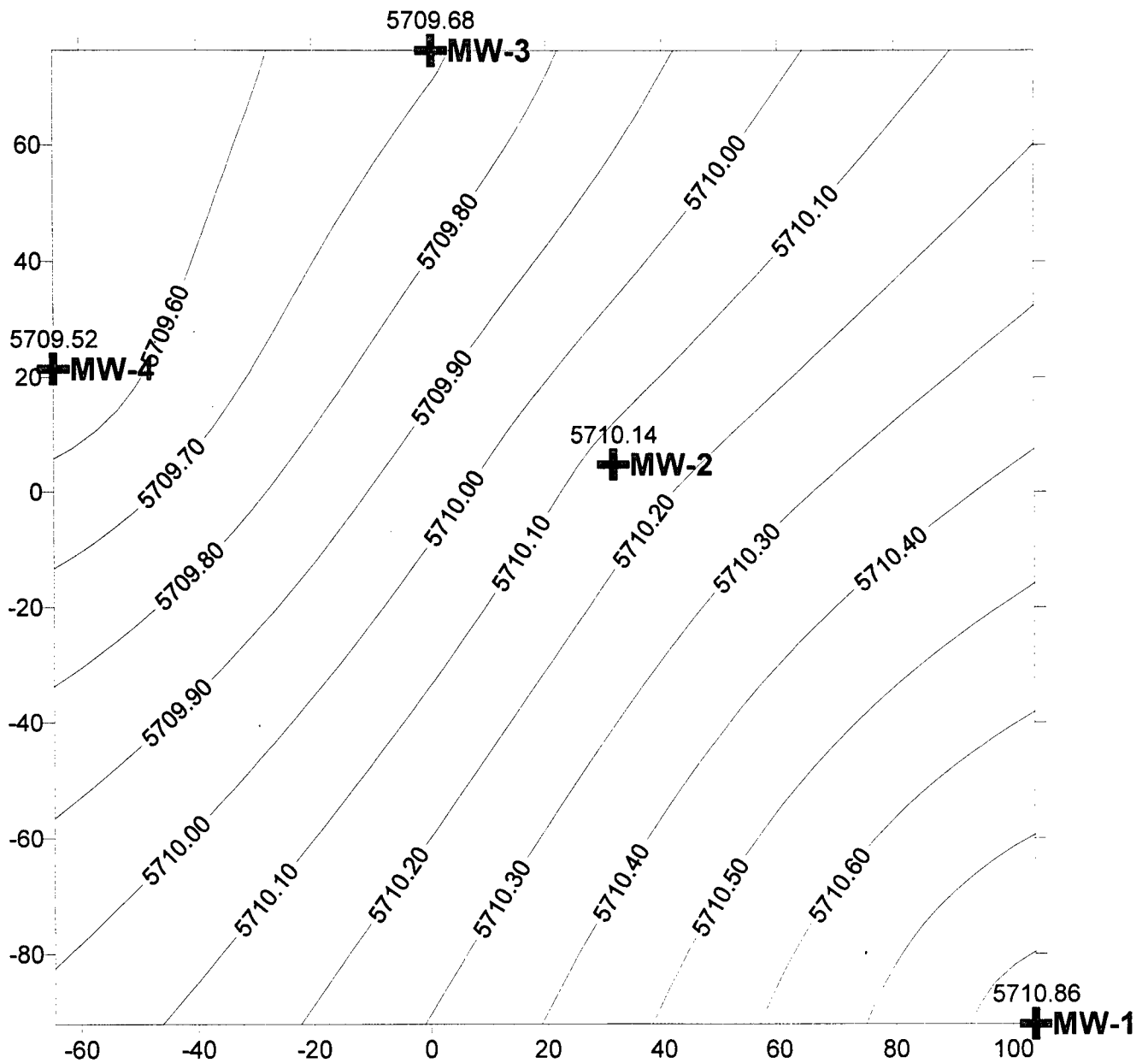


**Figure 2a. Turner 1A Groundwater Contour Map
(May 11, 1998)**



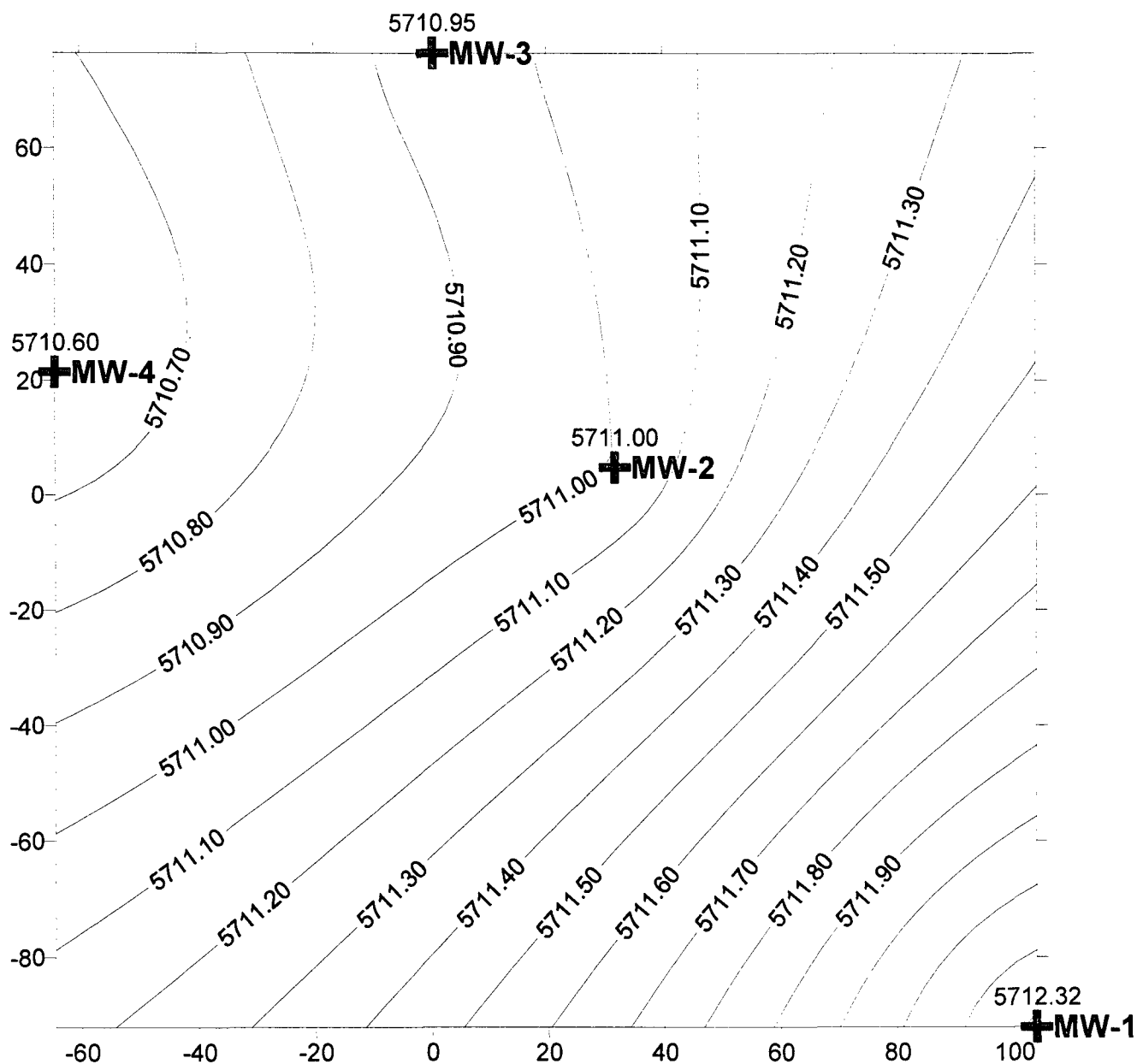
SCALE IN FEET
(X-axis = Easting,
Y-axis = Northing)

Figure 2b. Turner 1A Groundwater Contour Map
(August 7, 1998)



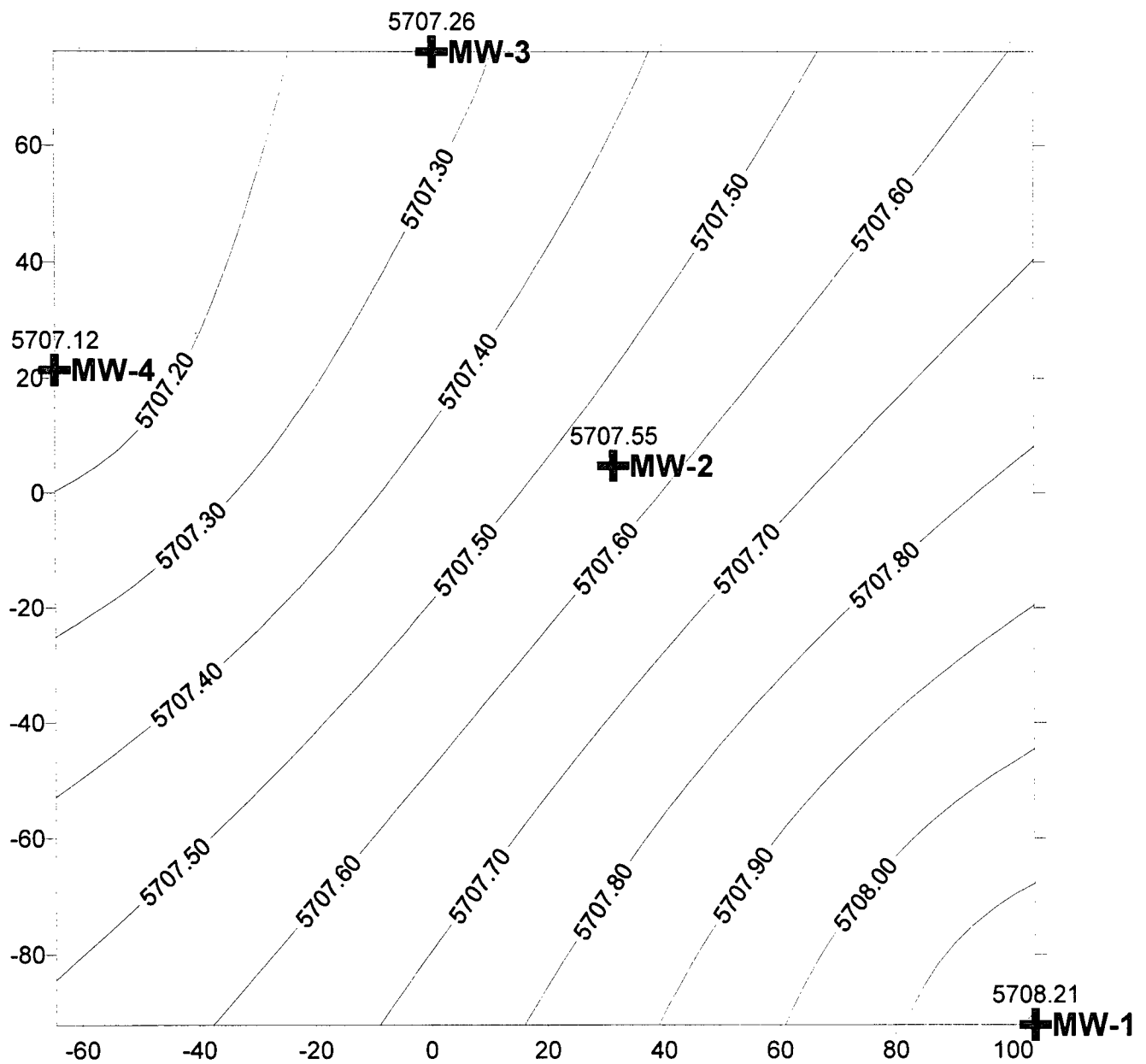
SCALE IN FEET
(X-axis = Easting,
Y-axis = Northing)

**Figure 2c. Turner 1A Groundwater Contour Map
(November 3, 1998)**



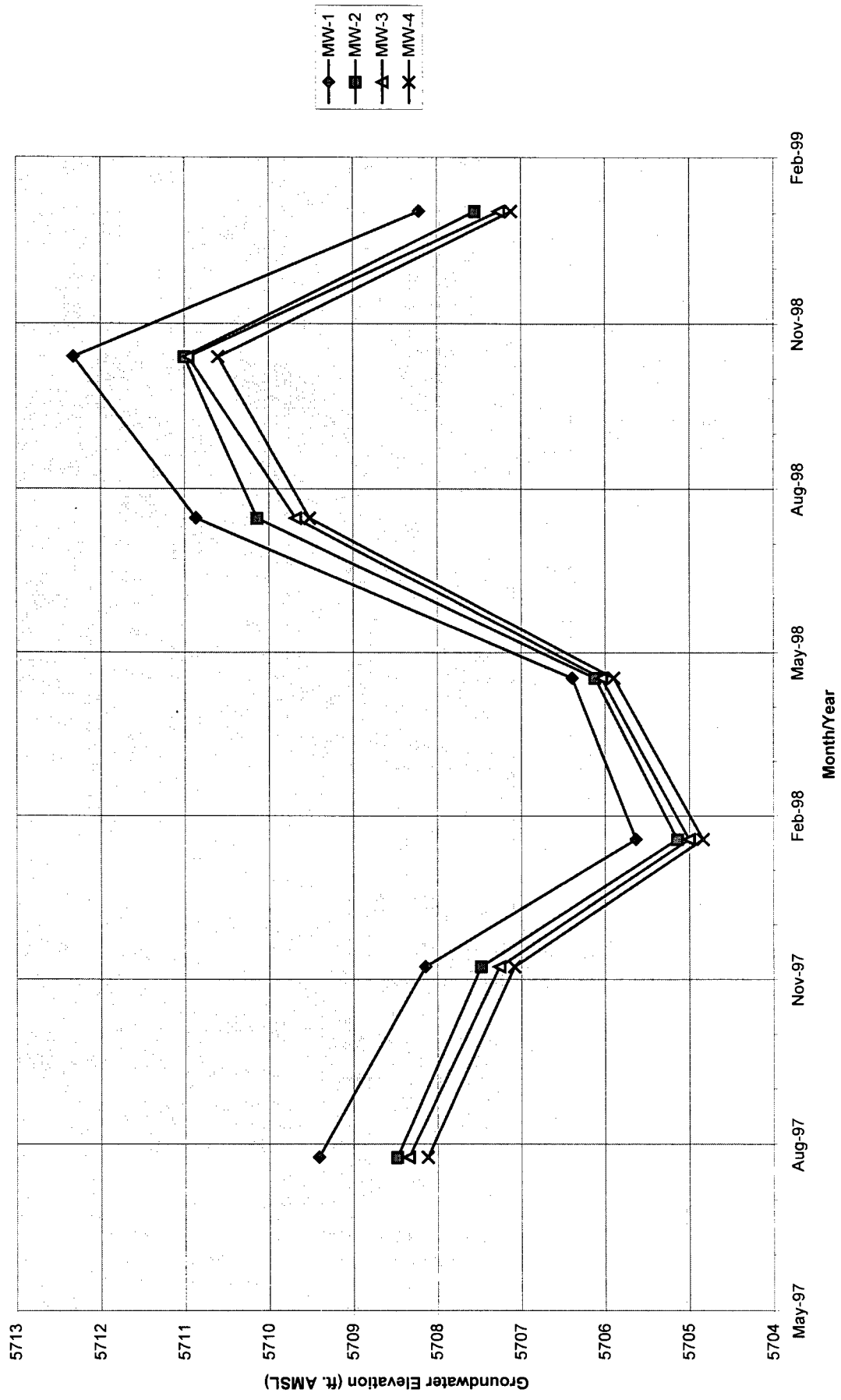
SCALE IN FEET
(X-axis = Easting,
Y-axis = Northing)

Figure 2d. Turner 1A Groundwater Contour Map
(January 21, 1999)



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

Figure 3. Turner 1A Hydrograph
(Water Level vs. Time)



OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

May 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

2nd Quarter 98

RE: Turner 1A

Order No.: 9805033

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 5/12/98 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

ON SITE

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM

Project: Turner 1A

Lab Order: 9805033

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.

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TECHNOLOGIES, LTD.

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ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9805033	Client Sample ID:	9805111630; MW-1
Lab ID:	9805033-01A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	5/11/98 4:30:00 PM
		COC Record:	7253

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	5/13/98
Toluene	ND	0.5		µg/L	1	5/13/98
Ethylbenzene	ND	0.5		µg/L	1	5/13/98
m,p-Xylene	ND	1		µg/L	1	5/13/98
o-Xylene	ND	0.5		µg/L	1	5/13/98

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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ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9805033	Client Sample ID:	9805111700; MW-3
Lab ID:	9805033-02A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	5/11/98 5:00:00 PM
		COC Record:	7253

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	5/13/98
Toluene	ND	0.5		µg/L	1	5/13/98
Ethylbenzene	ND	0.5		µg/L	1	5/13/98
m,p-Xylene	ND	1		µg/L	1	5/13/98
o-Xylene	ND	0.5		µg/L	1	5/13/98

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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TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9805033	Client Sample ID:	9805111730; MW-4
Lab ID:	9805033-03A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	5/11/98 5:30:00 PM
		COC Record:	7253

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	5/13/98
Toluene	ND	0.5		µg/L	1	5/13/98
Ethylbenzene	ND	0.5		µg/L	1	5/13/98
m,p-Xylene	ND	1		µg/L	1	5/13/98
o-Xylene	ND	0.5		µg/L	1	5/13/98

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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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9805033	Client Sample ID:	9805111800; MW-2
Lab ID:	9805033-04A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	5/11/98 6:00:00 PM
		COC Record:	7253

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	140	0.5		µg/L	1	5/13/98
Toluene	11	0.5		µg/L	1	5/13/98
Ethylbenzene	58	0.5		µg/L	1	5/13/98
m,p-Xylene	76	1		µg/L	1	5/13/98
o-Xylene	3.8	0.5		µg/L	1	5/13/98

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

Surrogate - Surrogate

1 of 1

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TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9805033	Client Sample ID:	9805111830; MW-5
Lab ID:	9805033-05A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	5/11/98 6:30:00 PM
		COC Record:	7253

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	140	0.5		µg/L	1	5/13/98
Toluene	11	0.5		µg/L	1	5/13/98
Ethylbenzene	55	0.5		µg/L	1	5/13/98
m,p-Xylene	73	1		µg/L	1	5/13/98
o-Xylene	3.1	0.5		µg/L	1	5/13/98

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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On Site Technologies, LTD.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9805033

Project: Turner 1A

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980513	Test Code: SW8020A	Units: µg/L	Analysis Date 5/13/98	Prep Date:						
Client ID:	9805033	Run ID: GC-1_980513B		SeqNo: 1853							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0367	0.5									J
Ethylbenzene	ND	0.5									J
m,p-Xylene	.1311	1									J
Methyl tert-Butyl Ether	.0434	1									J
o-Xylene	.0743	0.5									J
Toluene	.1502	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.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9805033
Project: Turner 1A

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9805022-01AMS		Batch ID: GC-1_980513		Test Code: SW8020A		Units: µg/L		Analysis Date 5/13/98		Prep Date:	
Client ID:		9805033		Run ID:		GC-1_980513B		SeqNo: 1854			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	353.1	2.5	200	160	96.6%	56					
Ethylbenzene	442.1	2.5	200	250	96.1%	78					
m,p-Xylene	1047	5	400	660	96.7%	67					
Methyl tert-Butyl Ether	157.9	5	200	2	78.0%	70					
o-Xylene	221	2.5	200	18	101.5%	78					
Toluene	216.5	2.5	200	14	101.3%	74					

Sample ID: 9805022-01AMS		Batch ID: GC-1_980513		Test Code: SW8020A		Units: µg/L		Analysis Date 5/13/98		Prep Date:	
Client ID:		9805033		Run ID:		GC-1_980513B		SeqNo: 1855			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	348.7	2.5	200	160	94.4%	56	128	353.1	1.3%	12	
Ethylbenzene	437.8	2.5	200	250	93.9%	78	107	442.1	1.0%	11	
m,p-Xylene	1036	5	400	660	94.0%	67	118	1047	1.0%	10	
Methyl tert-Butyl Ether	158	5	200	2	78.0%	70	130	157.9	0.1%	15	
o-Xylene	219	2.5	200	18	100.5%	78	107	221	0.9%	14	
Toluene	214.4	2.5	200	14	100.2%	74	116	216.5	1.0%	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.

Date: 15-May-98

CLIENT: PNM - Public Service Company of NM
 Work Order: 9805033
 Project: Turner 1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: GC-1_980513	Test Code: SW8020A	Units: µg/L	Analysis Date 5/13/98		Prep Date:					
Client ID:	9805033	Run ID: GC-1_980513B		SeqNo: 1852							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.67	0.5	40	0.0367	106.6%	56	128				(S)
Ethylbenzene	42.8	0.5	40	0	107.0%	78	107				AT
m,p-Xylene	82.02	1	80	0.1311	102.4%	67	118				LI
Methyl tert-Butyl Ether	35.92	1	40	0.0434	89.7%	70	130				(S)
o-Xylene	42.66	0.5	40	0.0743	106.5%	78	107				(S)
Toluene	43.1	0.5	40	0.1502	107.4%	74	116				(S)

AT limit
 5/15/98
 5/15/98

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: 9805033
Project: Turner 1A

Date: 15-May-98

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID:	CCV1 QC0529/30	Batch ID:	GC-1_980513	Test Code:	SW8020A	Units:	µg/L	Analysis Date	5/13/98	Prep Date:
Client ID:	9805033	Run ID:	GC-1_980513B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo:
Analyte	Result									
Benzene	21.59	0.5	0	0	20	0	108.0%	85	115	
Ethylbenzene	21.88	0.5	0	0	20	0	109.4%	85	115	
m,p-Xylene	41.63	1	0	0	40	0	104.1%	85	115	
Methyl tert-Butyl Ether	18.44	1	0	0	20	0	92.2%	85	115	
o-Xylene	22.13	0.5	0	0	20	0	110.7%	85	115	
Toluene	22.96	0.5	0	0	20	0	114.8%	85	115	
1,4-Difluorobenzene	93.01	0	0	0	100	0	93.0%	70	130	
4-Bromochlorobenzene	92.5	0	0	0	100	0	92.5%	70	130	
Fluorobenzene	93.45	0	0	0	100	0	93.5%	70	130	

Sample ID:	CCV2 QC0529/30	Batch ID:	GC-1_980513	Test Code:	SW8020A	Units:	µg/L	Analysis Date	5/13/98	Prep Date:
Client ID:	9805033	Run ID:	GC-1_980513B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo:
Analyte	Result									
Benzene	21.63	0.5	0	0	20	0	108.2%	85	115	
Ethylbenzene	21.96	0.5	0	0	20	0	109.8%	85	115	
m,p-Xylene	41.77	1	0	0	40	0	104.4%	85	115	
Methyl tert-Butyl Ether	17.1	1	0	0	20	0	85.5%	85	115	
o-Xylene	22.2	0.5	0	0	20	0	111.0%	85	115	
Toluene	22.87	0.5	0	0	20	0	114.4%	85	115	
1,4-Difluorobenzene	92.77	0	0	0	100	0	92.8%	70	130	
4-Bromochlorobenzene	90.26	0	0	0	100	0	90.3%	70	130	
Fluorobenzene	93.11	0	0	0	100	0	93.1%	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

B - Analyte detected in the associated Method Blank

CLIENT: PNM - Public Service Company of NM

Work Order: 9805033

Project: Turner 1A

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980513		Test Code: SW8020A		Units: µg/L		Analysis Date 5/13/98		Prep Date:	
Client ID:		9805033		Run ID: GC-1_980513B				SeqNo: 1849			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.08	0.5	20	0	100.4%	85	115				
Ethylbenzene	20.57	0.5	20	0	102.8%	85	115				
m,p-Xylene	39.18	1	40	0	98.0%	85	115				
o-Xylene	20.47	0.5	20	0	102.3%	85	115				
Toluene	20.47	0.5	20	0	102.4%	85	115				
1,4-Difluorobenzene	92.76	0	100	0	92.8%	70	130				
4-Bromochlorobenzene	89.53	0	100	0	89.5%	70	130				
Fluorobenzene	93.2	0	100	0	93.2%	70	130				

Sample ID: CCV4 QC0529/30	Batch ID: GC-1_980513	Test Code: SW8020A	Units: µg/L	Analysis Date 5/13/98	Prep Date:						
Client ID: 9805033	Run ID: GC-1_980513B			SeqNo: 1850							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.65	0.5	20	0	98.2%	85	115				
Ethylbenzene	20	0.5	20	0	100.0%	85	115				
m,p-Xylene	38.15	1	40	0	95.4%	85	115				
o-Xylene	19.89	0.5	20	0	99.4%	85	115				
Toluene	19.9	0.5	20	0	99.5%	85	115				
1,4-Difluorobenzene	93.12	0	100	0	93.1%	70	130				
4-Bromochlorobenzene	88.92	0	100	0	88.9%	70	130				
Fluorobenzene	93.42	0	100	0	93.4%	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: 9805033

Project: Turner 1A

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV5 QC0529/30		Batch ID: GC-1_980513		Test Code: SW8020A		Units: µg/L		Analysis Date 5/13/98		Prep Date:	
Client ID: 9805033		Run ID: GC-1_980513B		SeqNo: 1851		LowLimit		HighLimit		%RPD	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit	Qual	
Benzene	21.76	0.5	20	0	108.8%	85	115				
Ethylbenzene	22.06	0.5	20	0	110.3%	85	115				
m,p-Xylene	41.96	1	40	0	104.9%	85	115				
o-Xylene	22.01	0.5	20	0	110.0%	85	115				
Toluene	22.51	0.5	20	0	112.5%	85	115				
1,4-Difluorobenzene	93	0	100	0	93.0%	70	130				
4-Bromochlorobenzene	90.2	0	100	0	90.2%	70	130				
Fluorobenzene	93.48	0	100	0	93.5%	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: 9805033
Project: Turner 1A
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9805022-01A	97.3	90.3	94.7
9805022-01AMS	93.7	91.8	91.8
9805022-01AMSD	93.7	92.1	91.8
9805022-02A	93.8	93.2	94
9805022-03A	94.2	92.5	93.8
9805022-04A	93.2	92.8	94
9805022-05A	93.5	92.6	94
9805022-06A	93.4	92.6	93.8
9805022-07A	93.2	91	93.6
9805024-01A	91.8	91.2	92.2
9805024-02A	93.4	92.9	93.9
9805033-01A	93	91.5	94
9805033-02A	93.4	90.9	93.5
9805033-03A	93.4	89.6	93.7
9805033-04A	87.7	88.8	89.9
9805033-05A	88.4	87.4	90.1
9805034-01A	93.1	89.4	93.6
CCV1 QC0529/30	93	92.5	93.4
CCV2 QC0529/30	92.8	90.2	93.1
CCV3 QC0529/30	92.8	89.5	93.2
CCV4 QC0529/30	93.1	88.9	93.4
CCV5 QC0529/30	93	90.2	93.5
LCS	92.4	92.6	93.1
MB1	93.4	92.6	93.8

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

* Surrogate recovery outside acceptance limits



253

Page: 1 of 1

TECHNOLOGIES, LTD.

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



NO TIS F

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

Page: _____ of _____

OFF: (505) 325-5667



LAB: (505) 325-1556

August 18, 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 98

RE: Turner 1A

Order No.: 9808016

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 8/7/98 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: 18-Aug-98

CLIENT: PNM - Public Service Company of NM

Project: Turner 1A

Lab Order: 9808016

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 18-Aug-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9808016	Client Sample ID:	9808071300; MW-2
Lab ID:	9808016-01A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	8/7/98 1:00:00 PM
		COC Record:	7286

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	58	0.5		µg/L	1	8/17/98
Toluene	5	0.5		µg/L	1	8/17/98
Ethylbenzene	31	0.5		µg/L	1	8/17/98
m,p-Xylene	26	1		µg/L	1	8/17/98
o-Xylene	0.9	0.5		µg/L	1	8/17/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 18-Aug-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9808016	Client Sample ID:	9808061330; MW-5
Lab ID:	9808016-02A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	8/7/98 1:30:00 PM
		COC Record:	7286

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	62	0.5		µg/L	1	8/17/98
Toluene	5	0.5		µg/L	1	8/17/98
Ethylbenzene	33	0.5		µg/L	1	8/17/98
m,p-Xylene	27	1		µg/L	1	8/17/98
o-Xylene	1.1	0.5		µg/L	1	8/17/98

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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1 of 1

- TECHNOLOGY SERVING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies,

Sample Receipt Checklist

Client Name **PNM1002**

Date and Time Received

8/7/98

Work Order Number **9808016**

Received by: DC

Checklist completed by

[Signature]
Signature

8/7/98
Date

Reviewed by

Initials *FK*

Date 8/7/98

Matrix: Aqueous

Carrier name: Mark Sikelianos

Shipping container/cooler in good condition?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☒	No ☐	Not Present ☐
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	

Adjusted?

Checked by *[Signature]*

Any No and/or NA (not applicable) response must be detailed in the comments section below

Client contacted: **PNM1002**

Date contacted: **8/7/98**

Person contacted **N/A**

Contacted by: *[Signature]*

Regarding:

Comments:

TWO SAMPLES SUBMITTED FOR TURNER 1A, MW-2 AND MW-5.
CHAIN OF CUSTODY RECORD ONLY REFLECTED SUBMISSION OF
ONE SAMPLE

Corrective Action

ADDED ADDITIONAL SAMPLE SUBMITTED TO CHAIN OF CUSTODY
[Signature] 8/7/98

On Site Technologies, LTD.

Date: 18-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808016

Project: Turner 1A

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980817	Test Code: SW8020A	Units: µg/L	Analysis Date 8/17/98	Prep Date:						
Client ID:	9808016	Run ID: GC-1_980817A		SeqNo: 5534							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0317	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									J
Toluene	.075	0.5									

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.

Date: 18-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808016

Project: Turner 1A

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9808023-04AMS		Batch ID: GC-1_980817		Test Code: SW8020A		Units: µg/L		Analysis Date 8/17/98		Prep Date:	
Client ID: 9808016		Run ID: GC-1_980817A		PQL		SPK value		SeqNo: 5535			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2451	0.5	2000	659.5	89.6%	56	128				
Ethylbenzene	1900	0.5	2000	76.6	91.2%	78	107				
m,p-Xylene	4119	1	4000	672.4	86.2%	67	118				
Methyl tert-Butyl Ether	1881	1	2000	39.05	92.1%	70	130				
o-Xylene	1940	0.5	2000	145	89.7%	78	107				
Toluene	3668	0.5	2000	1814	92.7%	74	116				

Sample ID: 9808023-04AMSD		Batch ID: GC-1_980817		Test Code: SW8020A		Units: µg/L		Analysis Date 8/17/98		Prep Date:	
Client ID: 9808016		Run ID: GC-1_980817A		PQL		SPK value		SeqNo: 5536			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2302	0.5	2000	659.5	82.1%	56	128	2451	6.3%	12	
Ethylbenzene	1782	0.5	2000	76.6	85.3%	78	107	1900	6.5%	11	
m,p-Xylene	3867	1	4000	672.4	79.9%	67	118	4119	6.3%	10	
Methyl tert-Butyl Ether	1792	1	2000	39.05	87.7%	70	130	1881	4.8%	15	
o-Xylene	1838	0.5	2000	145	84.6%	78	107	1940	5.4%	14	
Toluene	3430	0.5	2000	1814	80.8%	74	116	3668	6.7%	14	

Qualifiers:

NID - 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: 18-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808016

Project: Turner 1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID:	LCS WATER	Batch ID:	GC-1_980817	Test Code:	SW8020A	Units:	µg/L	Analysis Date	8/17/98	Prep Date:
Client ID:	9808016	Run ID:	GC-1_980817A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 5533
Analyte	Result									
Benzene	37.02			0.5	40	0.0317	92.5%	56	128	
Ethylbenzene	37.94			0.5	40	0	94.8%	78	107	
m,p-Xylene	71.68			1	80	0	89.6%	67	118	
Methyl tert-Butyl Ether	42.6			1	40	0	106.5%	70	130	
o-Xylene	37.04			0.5	40	0	92.6%	78	107	
Toluene	36.46			0.5	40	0.075	91.0%	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.

Date: 18-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808016

Project: Turner 1A

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_980817	Test Code: SW8020A	Units: µg/L	Analysis Date 8/17/98		Prep Date:	
Client ID: 9808016		Run ID: GC-1_980817A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	20.51		0.5	20	0	102.6%	85	115
Ethylbenzene	20.55		0.5	20	0	102.8%	85	115
m,p-Xylene	39.03		1	40	0	97.6%	85	115
Methyl tert-Butyl Ether	23.05		1	20	0	115.2%	85	115
o-Xylene	20.29		0.5	20	0	101.5%	85	115
Toluene	20.17		0.5	20	0	100.8%	85	115
1,4-Difluorobenzene	86.45		0	100	0	86.5%	70	130
4-Bromochlorobenzene	92.22		0	100	0	92.2%	70	130
Fluorobenzene	83.4		0	100	0	83.4%	70	130

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_980817	Test Code: SW8020A	Units: µg/L	Analysis Date 8/17/98		Prep Date:	
Client ID: 9808016		Run ID: GC-1_980817A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	18.51		0.5	20	0	92.6%	85	115
Ethylbenzene	19.8		0.5	20	0	99.0%	85	115
m,p-Xylene	36.02		1	40	0	90.0%	85	115
Methyl tert-Butyl Ether	20.23		1	20	0	101.1%	85	115
o-Xylene	20.54		0.5	20	0	102.7%	85	115
Toluene	18.44		0.5	20	0	92.2%	85	115
1,4-Difluorobenzene	85.77		0	100	0	85.8%	70	130
4-Bromochlorobenzene	85.5		0	100	0	85.5%	70	130
Fluorobenzene	81.73		0	100	0	81.7%	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: 9808016

Project: Turner 1A

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_980817	Test Code: SW8020A	Units: µg/L		Analysis Date 8/17/98		Prep Date:	
Client ID: 9808016		Run ID: GC-1_980817A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 5532
Analyte	Result								
Benzene	37.36		0.5	40	0	93.4%	85	115	
Ethylbenzene	38		0.5	40	0	95.0%	85	115	
m,p-Xylene	72.35		1	80	0	90.4%	85	115	
Methyl tert-Butyl Ether	38.12		1	40	0	95.3%	85	115	
o-Xylene	37.64		0.5	40	0	94.1%	85	115	
Toluene	37.58		0.5	40	0	93.9%	85	115	
1,4-Difluorobenzene	85.32		0	100	0	85.3%	70	130	
4-Bromochlorobenzene	84.5		0	100	0	84.5%	70	130	
Fluorobenzene	81.92		0	100	0	81.9%	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: 9808016
Project: Turner 1A
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

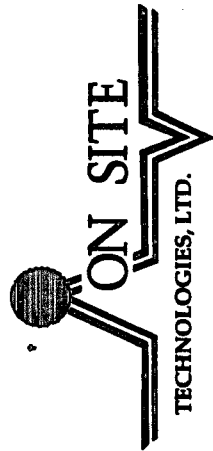
BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9808008-01A	95	74.3	96.4
9808012-06A	85.8	86.7	82.5
9808012-07A	78.2	52.7 *	75
9808016-01A	79.3	72.4	76.7
9808016-02A	80.5	84.3	77.6
9808023-01A	86	90.2	83.2
9808023-02A	83.6	75.5	80.2
9808023-03A	82.7	76.6	79.6
9808023-04A	84.6	82.5	81.4
9808023-04AMS	83.1	79.9	80
9808023-04AMSD	83.3	81.5	80.2
9808023-05A	84.5	84	81
9808024-01A	86.9	84.2	82.6
9808024-02A	83.7	86.2	80.8
9808024-03A	83.3	81	80.4
9808024-04A	86.5	80.9	82.9
9808024-05A	86.6	81.7	82.3
9808024-06A	87	81	82.9
9808025-01A	84.8	78.2	80.9
9808025-02A	83	82.9	80
CCV1 QC0606/07	86.4	92.2	83.4
CCV2 QC0606/07	85.8	85.5	81.7
CCV3 QC0606/07	85.3	84.5	81.9
LCS WATER	86.4	93.2	82.6
MB1	87.6	91.4	83.9

Acronym**Surrogate****QC Limits**

14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

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

Purchase Order No.:

Job No.

**SEND
INVOICE
TO**

Name **Denver Bearden**

Company	PNM Gas Services
---------	------------------

Dept. 324-3763

Address **603 W. Elm Street**

City, State, Zip **Farmlington, NM 87401**

Sampling Location:

Turner 1A

Sampler:

Mark Sikelianos

SAMPLE IDENTIFICATION

9208071330 1-11-2

5-1941 02-17-33

Relinquished by:

Relinquished by:

Date/Time

Relinquished by:

Date/Time

Method of Shipment:

Handwritten: Handwritten

Authorized by:

(Client Signature Must Accompany Request)

Date _____

Rush	24-48 Hours	10 Working Days	Special Instructions:
------	-------------	-----------------	-----------------------

24-48 Hours

Rush

Results to be sent to both parties.

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

OFF: (505) 325-5667



LAB: (505) 325-1556

November 06, 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

RE: Turner 1A

Order No.: 9811012

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 11/3/98 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

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 06-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Turner 1A
Lab Order: 9811012

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 06-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9811012	Client Sample ID:	9811031130; MW-2
Lab ID:	9811012-01A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	11/3/98 11:30:00 AM
		COC Record:	7515

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	19	1		µg/L	1	11/4/98
Toluene	7.6	1		µg/L	1	11/4/98
Ethylbenzene	4.2	1		µg/L	1	11/4/98
m,p-Xylene	3.8	2		µg/L	1	11/4/98
o-Xylene	ND	1		µg/L	1	11/4/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 06-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9811012	Client Sample ID:	9811031145; MW-5
Lab ID:	9811012-02A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	11/3/98 11:45:00 AM
		COC Record:	7515

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	19	1		µg/L	1	11/4/98
Toluene	7.5	1		µg/L	1	11/4/98
Ethylbenzene	3.4	1		µg/L	1	11/4/98
m,p-Xylene	3.6	2		µg/L	1	11/4/98
o-Xylene	1.1	1		µg/L	1	11/4/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 06-Nov-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9811012

Project: Turner IA

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_981104	Test Code: SW8020A	Units: µg/L	Analysis Date: 11/4/98	Prep Date:
Client ID: 9811012	Run ID: GC-1_981104A			SeqNo: 8462	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	1			
Ethylbenzene	ND	1			
m,p-Xylene	.1915	2			J
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	1			
Toluene	.1132	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

On Site Technologies, LTD.

Date: 06-Nov-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9811012

Project: Turner 1A

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9810083-01AMS		Batch ID: GC-1_981104		Test Code: SW8020A		Units: µg/L		Analysis Date 11/4/98		Prep Date:	
Client ID: 9811012		Run ID: GC-1_981104A		SeqNo: 8463							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	557.3	10	400	174.9	95.6%	56	128				
Ethylbenzene	495.2	10	400	103.2	98.0%	78	107				
m,p-Xylene	1867	20	800	1118	93.6%	67	118				
Methyl tert-Butyl Ether	414	10	400	2.82	102.8%	70	130				
o-Xylene	744.5	10	400	345.3	99.8%	78	107				
Toluene	1168	10	400	794.7	93.3%	74	116				

Sample ID: 9810083-01AMS		Batch ID: GC-1_981104		Test Code: SW8020A		Units: µg/L		Analysis Date 11/4/98		Prep Date:	
Client ID: 9811012		Run ID: GC-1_981104A		SeqNo: 8464							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	540.5	10	400	174.9	91.4%	56	128	557.3	3.1%	12	
Ethylbenzene	480	10	400	103.2	94.2%	78	107	495.2	3.1%	11	
m,p-Xylene	1809	20	800	1118	86.4%	67	118	1867	3.1%	10	
Methyl tert-Butyl Ether	409.9	10	400	2.82	101.8%	70	130	414	1.0%	15	
o-Xylene	726	10	400	345.3	95.2%	78	107	744.5	2.5%	14	
Toluene	1132	10	400	794.7	84.4%	74	116	1168	3.1%	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.

Date: 06-Nov-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9811012
Project: Turner 1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_981104	Test Code: SW8020A	Units: µg/L	Analysis Date 11/4/98	Prep Date:
Client ID: 9811012	Run ID: 9811012	PQL	SPK value	SeqNo: 8461	
Analyte	Result	SPK value	SPK Ref Val	LowLimit	HighLimit
Benzene	39.08	1	40	56	128
Ethylbenzene	39.35	1	40	78	107
m,p-Xylene	77.64	2	80	67	118
Methyl tert-Butyl Ether	39.46	1	40	70	130
o-Xylene	39.78	1	40	78	107
Toluene	39.28	1	40	74	116
				%REC	%RPD
				97.7%	
				98.4%	
				96.8%	
				98.6%	
				99.5%	
				97.9%	
				RPD Ref Val	RPDLimit
					Qual

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: 06-Nov-98

CLIENT: PNM - Public Service Company of NM
 Work Order: 9811012
 Project: Turner 1A

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_981104	Test Code: SW8020A	Units: µg/L	Analysis Date 11/4/98	Prep Date:
Client ID: 9811012	Run ID: GC-1_981104A	PQL	SPK value	SeqNo: 8459	
Analyte	Result	SPK	SPK Ref Val	LowLimit	HighLimit
Benzene	21.15	1	20	0	115
Ethylbenzene	21.33	1	20	0	115
m,p-Xylene	42	2	40	0	115
Methyl tert-Butyl Ether	20.99	1	20	0	115
o-Xylene	21.54	1	20	0	115
Toluene	21.27	1	20	0	115
1,4-Difluorobenzene	89.74	0	100	0	130
4-Bromochlorobenzene	102.7	0	100	0	130
Fluorobenzene	87.6	0	100	0	130

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_981104	Test Code: SW8020A	Units: µg/L	Analysis Date 11/4/98	Prep Date:
Client ID: 9811012	Run ID: GC-1_981104A	PQL	SPK value	SeqNo: 8460	
Analyte	Result	SPK	SPK Ref Val	LowLimit	HighLimit
Benzene	20.8	1	20	0	115
Ethylbenzene	20.93	1	20	0	115
m,p-Xylene	41.08	2	40	0	115
Methyl tert-Butyl Ether	21.31	1	20	0	115
o-Xylene	21.31	1	20	0	115
Toluene	20.99	1	20	0	115
1,4-Difluorobenzene	89.25	0	100	0	130
4-Bromochlorobenzene	102.4	0	100	0	130
Fluorobenzene	87.7	0	100	0	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: 06-Nov-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9811012
Project: Turner 1A
Test No: SW8020A

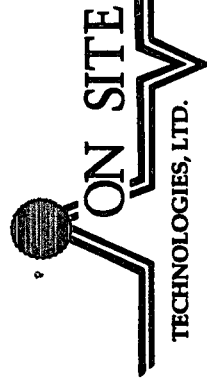
QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9810083-01A	90.1	103	88.1
9810083-01AMS	90.2	103	87.8
9810083-01AMSD	89.9	103	87.6
9810094-01A	90	102	88
9810094-02A	89.8	103	87.9
9811008-01A	89.1	99.6	96.9
9811012-01A	82.6	97.4	82.6
9811012-02A	82.4	96.4	82
9811013-01A	88	102	85.6
9811014-01A	89.7	104	88
9811014-02A	89.8	104	88
CCV1 QC0606/07	89.7	103	87.6
CCV2 QC0606/07	89.2	102	87.7
LCS WATER	89	102	87.6
MB1	90.2	103	88

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

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

Date: 11/23/97 Page: 1 of 1

Purchase Order No.:		Job No. 41-1503	
Name		Denver Bearden	
Company		PNM Gas Services	
Address		603 W. Elm Street	
City, State, Zip		Farmington, NM 87401	
Sampling Location:		Turner 1A	
Sampler:		Lacey T. Smith	
SAMPLE IDENTIFICATION		MATRIX PRES.	
DATE		TIME	
11/10/99		1130	
11/10/99		1145	
11/10/99		1150	
11/10/99		1200	
11/10/99		1215	
11/10/99		1230	
11/10/99		1245	
11/10/99		1300	
11/10/99		1315	
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11/10/99		1945	
11/10/99		2000	
11/10/99		2015	
11/10/99		2030	
11/10/99		2045	
11/10/99		2100	
11/10/99		2115	
11/10/99		2130	
11/10/99		2145	
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11/10/99		3015	
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11/10/99		3130	
11/10/99		3145	
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11/10/99		3900	
11/10/99		3915	
11/10/99		3930	
11/10/99		3945	
11/10/99		4000	
11/10/99		4015	
11/10/99		4030	
11/10/99		4045	
11/10/99		4100	

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

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

February 10, 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

RE: Turner 1A

Order No.: 9901015

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 1/21/99 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,



David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Project: Turner 1A

Lab Order: 9901015

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Feb-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9901015	Client Sample ID:	9901211030; MW 2
Lab ID:	9901015-01A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	1/21/99 10:30:00 AM
		COC Record:	7460

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: HR
Benzene	12	0.5		µg/L	1	2/1/99
Toluene	ND	0.5		µg/L	1	2/1/99
Ethylbenzene	1.8	0.5		µg/L	1	2/1/99
m,p-Xylene	1.1	1		µg/L	1	2/1/99
o-Xylene	1	0.5		µg/L	1	2/1/99

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

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Feb-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9901015	Client Sample ID:	9901211055; MW 5
Lab ID:	9901015-02A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	1/21/99 10:55:00 AM
		COC Record:	7460

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: HR
Benzene	12	0.5		µg/L	1	2/1/99
Toluene	ND	0.5		µg/L	1	2/1/99
Ethylbenzene	1.6	0.5		µg/L	1	2/1/99
m,p-Xylene	1.4	1		µg/L	1	2/1/99
o-Xylene	1.1	0.5		µg/L	1	2/1/99

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

- TRUTH TO ALL - BEHAVING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Work Order: 9901015

Project: Turner 1A

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L	Analysis Date 2/1/99	Prep Date:
Client ID:	9901015	Run ID: GC-1_990201A		SeqNo: 10591	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.1	0.5			J
Ethylbenzene	.1056	0.5			J
m,p-Xylene	.217	1			J
Methyl tert-Butyl Ether	ND	1			
o-Xylene	.1598	0.5			J
Toluene	ND	0.5			

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.

Date: 10-Feb-99

CLIENT: PNM - Public Service Company of NM
Work Order: 9901015
Project: Turner 1A

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9901030-03AMS		Batch ID: GC-1_990201		Test Code: SW8021B		Units: µg/L		Analysis Date 2/1/99		Prep Date:	
Client ID: 9901015		Run ID: 9901015		PQL		SPK value		SeqNo: 10592			
Analyte	Result	PQL		SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Benzene	10480	50		4000		6460		100.6%		73 115	
Ethylbenzene	4644	50		4000		664.3		99.5%		74 117	
m,p-Xylene	13420	100		8000		5415		100.1%		76 112	
Methyl tert-Butyl Ether	3802	100		4000		65.51		93.4%		62 122	
o-Xylene	5266	50		4000		1321		98.6%		83 112	
Toluene	12890	50		4000		8934		98.9%		71 120	

Sample ID: 9901030-03AMSD		Batch ID: GC-1_990201		Test Code: SW8021B		Units: µg/L		Analysis Date 2/1/99		Prep Date:	
Client ID: 9901015		Run ID: 9901015		PQL		SPK value		SeqNo: 10593			
Analyte	Result	PQL		SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Benzene	10660	50		4000		6460		105.2%		73 115	
Ethylbenzene	4708	50		4000		664.3		101.1%		74 117	
m,p-Xylene	13620	100		8000		5415		102.6%		76 112	
Methyl tert-Butyl Ether	3734	100		4000		65.51		91.7%		62 122	
o-Xylene	5317	50		4000		1321		99.9%		83 112	
Toluene	13100	50		4000		8934		104.3%		71 120	

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: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Work Order: 9901015

Project: Turner 1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L	Analysis Date 2/1/99	Prep Date:						
Client ID:	9901015	Run ID: GC-1_990201A		SeqNo: 10590							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.19	0.5	40	0.1	102.7%	84	110				
Ethylbenzene	41.35	0.5	40	0.1	103.1%	86	113				
m,p-Xylene	81.06	1	80	0.2	101.1%	81	114				
Methyl tert-Butyl Ether	40.88	1	40	0	102.2%	69	129				
o-Xylene	40.85	0.5	40	0.2	101.6%	86	112				
Toluene	40.6	0.5	40	0	101.5%	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

On Site Technologies, LTD.

Date: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Work Order: 9901015

Project: Turner 1A

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_990201		Test Code: SW8021B		Units: µg/L		Analysis Date 2/1/99		Prep Date:	
Client ID:		9901015		Run ID:		GC-1_990201A		SeqNo: 10587			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.47	0.5	20	0	107.4%	85	115				
Ethylbenzene	21.23	0.5	20	0	106.2%	85	115				
m,p-Xylene	40.86	1	40	0	102.2%	85	115				
Methyl tert-Butyl Ether	21.25	1	20	0	106.2%	85	115				
o-Xylene	20.82	0.5	20	0	104.1%	85	115				
Toluene	20.88	0.5	20	0	104.4%	85	115				
1,4-Difluorobenzene	97.35	0	100	0	97.3%	90	102				
4-Bromochlorobenzene	98.2	0	100	0	98.2%	93	102				
Fluorobenzene	96.44	0	100	0	96.4%	84	103				

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L	Analysis Date 2/1/99		Prep Date:					
Client ID:	9901015	Run ID:	GC-1_990201A	SeqNo:	10588						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.2	0.5	20	0	101.0%	85	115				
Ethylbenzene	19.81	0.5	20	0	99.1%	85	115				
m,p-Xylene	37.96	1	40	0	94.9%	85	115				
Methyl tert-Butyl Ether	19.04	1	20	0	95.2%	85	115				
o-Xylene	19.7	0.5	20	0	98.5%	85	115				
Toluene	19.57	0.5	20	0	97.9%	85	115				
1,4-Difluorobenzene	96.88	0	100	0	96.9%	90	102				
4-Bromochlorobenzene	99.09	0	100	0	99.1%	93	102				
Fluorobenzene	96.51	0	100	0	96.5%	84	103				

Qualifiers: NID - 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: 9901015

Project: Turner 1A

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L	Analysis Date 2/1/99		Prep Date:				
Client ID:		9901015	Run ID:	GC-1_990201A	SeqNo:	10589					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.68	0.5	40	0	104.2%	85	115				
Ethylbenzene	40.55	0.5	40	0	101.4%	85	115				
m,p-Xylene	79.37	1	80	0	99.2%	85	115				
Methyl tert-Butyl Ether	38.63	1	40	0	96.6%	85	115				
o-Xylene	40.14	0.5	40	0	100.3%	85	115				
Toluene	40.41	0.5	40	0	101.0%	85	115				
1,4-Difluorobenzene	97.11	0	100	0	97.1%	90	102				
4-Bromochlorobenzene	97.98	0	100	0	98.0%	93	102				
Fluorobenzene	96.64	0	100	0	96.6%	84	103				

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: 10-Feb-99

CLIENT: PNM - Public Service Company of NM
Work Order: 9901015
Project: Turner 1A
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9901015-01A	92.5	94.3	93.5
9901015-02A	92	92.5 *	92.7
9901016-01A	93.5	95.9	92.7
9901016-02A	97.2	98.9	96.2
9901016-03A	89.8 *	94	89.3
9901016-04A	94.1	97.2	93.6
9901017-01A	84.2 *	81.7 *	87.3
9901017-02A	83.4 *	83.2 *	86
9901024-01A	97.4	96.5	96.3
9901024-02A	97.2	97.5	96.5
9901024-05A	97.2	95.6	96.1
9901030-01A	96.2	97.4	96
9901030-02A	97	98.7	96.3
9901030-03A	94.8	98.5	95.2
9901030-03AMS	94.7	98.8	94.9
9901030-03AMSD	94.6	98.4	94.9
9901030-04A	92.5	97.2	93.2
9901030-05A	96.4	97.2	95.9
9901030-06A	96.4	98	95.9
CCV1 QC0606/07	97.3	98.2	96.4
CCV2 QC0606/07	96.9	99.1	96.5
CCV3 QC0606/07	97.1	98	96.6
LCS WATER	96.7	97	95.7
MBI	97.2	97.9	96.2

Acronym

Surrogate

QC Limits

14FBZ	= 1,4-Difluorobenzene	90-102
4BCBZ	= 4-Bromochlorobenzene	93-102
FLBZ	= Fluorobenzene	84-103

* Surrogate recovery outside acceptance limits



THIS

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Date:

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