

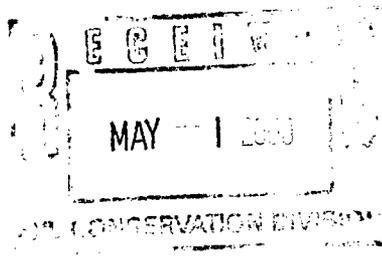
3R - 344

REPORTS

DATE:

April 24, 2000

Public Service Company
of New Mexico
603 W. Elm - P.O. Box 4750
Farmington, NM 87499
505 950-1997
Fax 505 325-7365



April 28, 2000

Oil Conservation Division
Attention: Bill Olson
2040 South Pacheco
Santa Fe, NM 87505

Subject: OCD Closure Reports – 1st Reporting Quarter, 2000

Dear Mr. Olson:

PNM Environmental Services is submitting a closure report to the Oil Conservation Division for one groundwater site, Turner #1A. I have provided copies of the closure to Denny Foust for his information.

} filed in case files

I have also enclosed copies of closures submitted to Denny Foust for his approval for the following sites:

EH Pipken #10E
Sammons #2E

If you have any questions, please call me at 324-3764.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Jukes".

Kathy Jukes
Staff Assistant

cc: Denny Foust

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Burlington)		Telephone:	324-3764	
Address:	603 W. Elm Street Farmington, NM 87401				
Facility or Well Name:	Turner #1A				
Location:	Unit	M	Sec	24	T 31 N R 11 W County San Juan
Pit Type:	Separator	<input type="checkbox"/>	Dehydrator	<input checked="" type="checkbox"/>	Other _____
Land Type:	BLM	<input type="checkbox"/>	State	<input type="checkbox"/>	Fee <input checked="" type="checkbox"/> Other _____
Pit Location:	Pit dimensions:		length	15'	width 15' depth 4'
(Attach diagram)	Reference:	wellhead	<input checked="" type="checkbox"/>	other	_____
	Footage from reference:		53'		
	Direction from reference:		75	Degrees	<input checked="" type="checkbox"/> East <input checked="" type="checkbox"/> North
					of <input type="checkbox"/> West <input type="checkbox"/> South
Depth to Ground Water:	(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet	(20 points)	
			50 feet to 99 feet	(10 points)	
			Greater than 100 feet	(0 points)	20
Wellhead Protection Area:	(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		Yes	(20 points)	
			No	(0 points)	20
Distance to Surface Water:	(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet	(20 points)	
			200 feet to 1,000 feet	(10 points)	
			Greater than 1,000 feet	(0 points)	20
RANKING SCORE (TOTAL POINTS):					60

Turner #1A

Date Remediation Started: 05/14/1997

Date Completed: 05/14/1997

Remediation Method: Excavation

Approx. Cubic Yard 1016

(Check all appropriate sections)

Landfarmed

Amount Landfarmed (cubic yds) 1016

Other

Remediation Location: Onsite

Offsite

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 45' X 61' X 10' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Secondary source removal conducted on 3/31/98; approximately 980 cu yds of contaminated soil removed.

Ground Water Encountered: No Yes Depth 10'

Final Pit Closure Sampling:

Sample Location Middle of pit.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 10'

Sample date 05/15/1997 Sample time 8:00:00 AM

Sample Results

Benzene (ppm) 0.359

Total BTEX (ppm) 3.412

Field headspace (ppm)

TPH (ppm) Method 8020A

Vertical Extent (ft) Risk Analysis form attached Yes No

Ground Water Sample: Yes No (If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

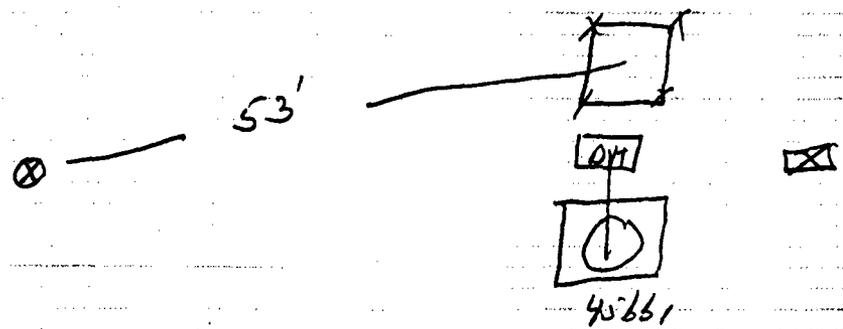
DATE April 24, 2000

SIGNATURE Maureen Gannon

PRINTED NAME Maureen Gannon AND TITLE Project Manager

Well Name:	Turney #1A			
Legal Description:	Sec	Twn	Rng	Unit
	24	31N	11W	

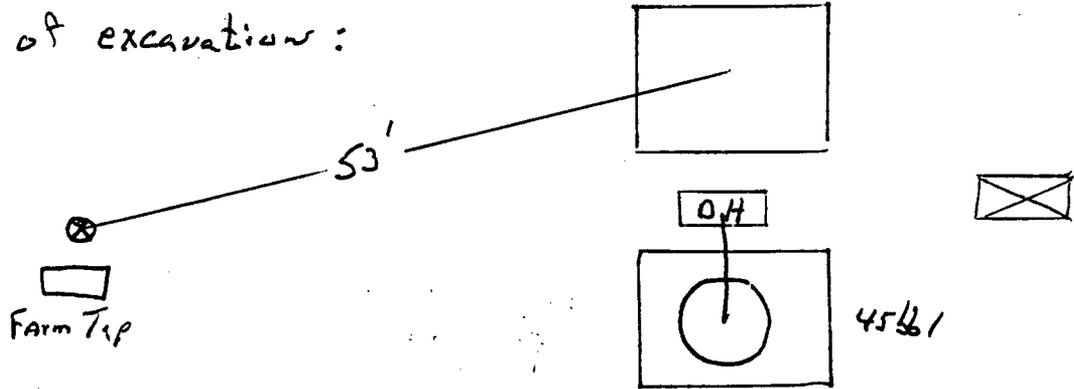
Data Sheet #:
3092



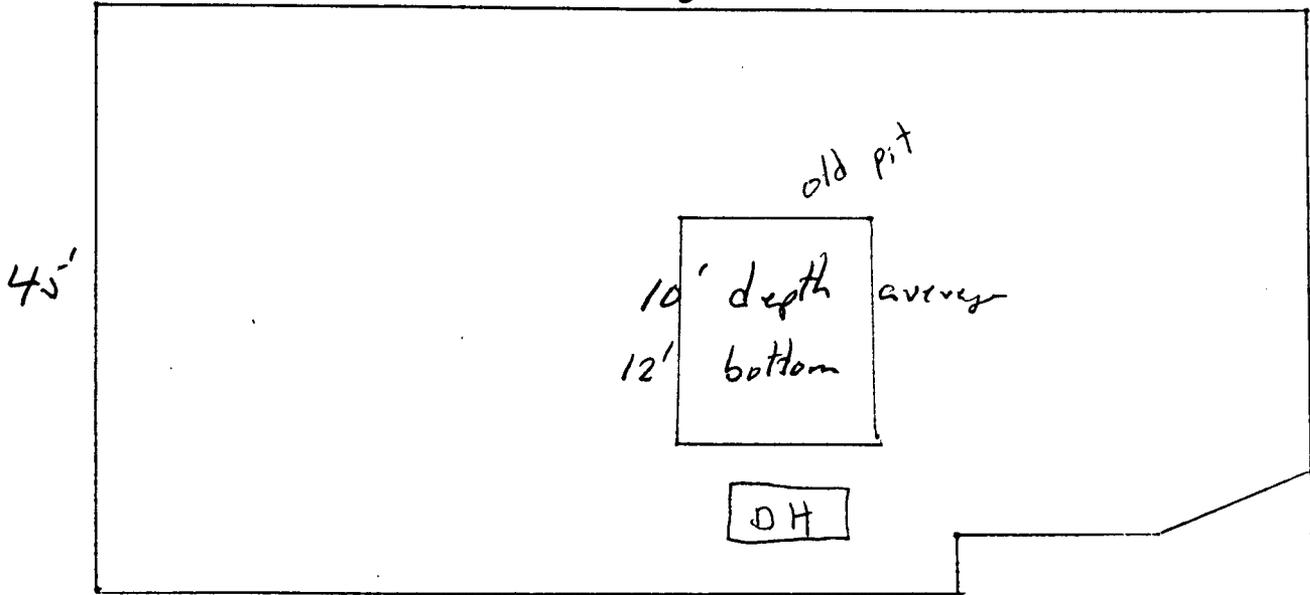
Turner # 1A
Burlington Resources
Sec. 24, 31 N, 11 W

5-14-97

Start of excavation:

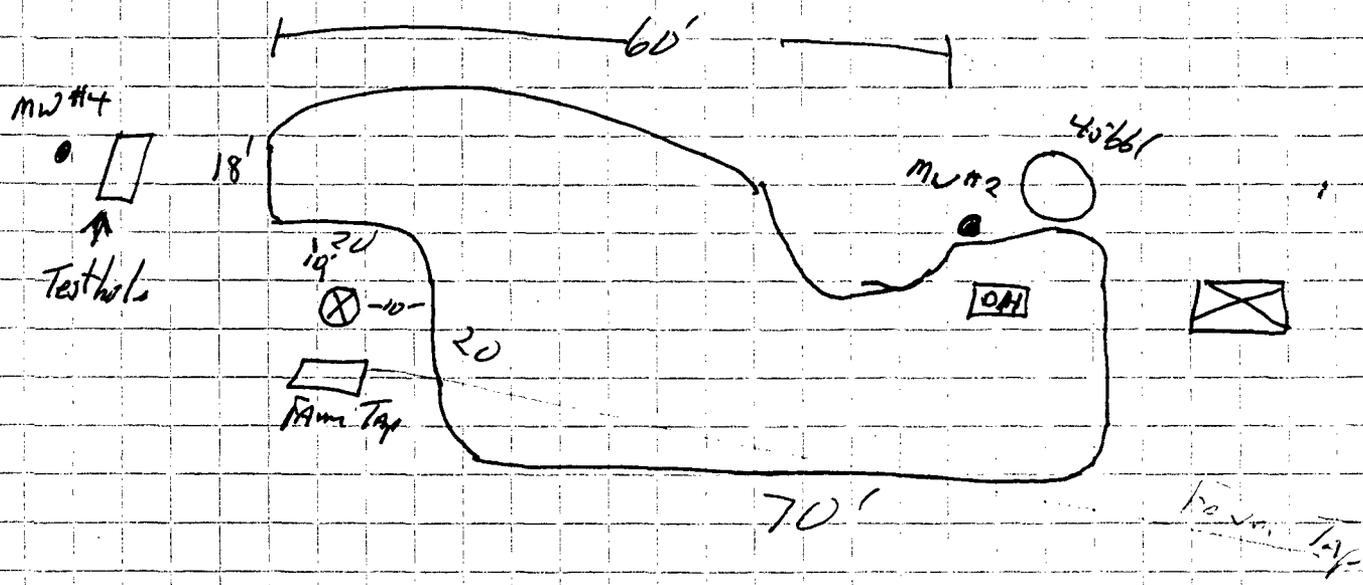


End of excavation: Water at 10'
61'



Turner # 1A
Burlington Resources
Sec. 24, 31N, 10W,

3-30-98



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *20-May-97*
COC No.: *5879*
Sample No.: *14624*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner #1A*
Project Location: *9705150800; 10' depth*
Sampled by: *GC* Date: *15-May-97* Time: *8:00*
Analyzed by: *DC* Date: *17-May-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>359</i>	<i>ug/L</i>	<i>2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>1311</i>	<i>ug/L</i>	<i>2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>145</i>	<i>ug/L</i>	<i>2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>1321</i>	<i>ug/L</i>	<i>2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>276</i>	<i>ug/L</i>	<i>2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>3412</i>	<i>ug/L</i>		

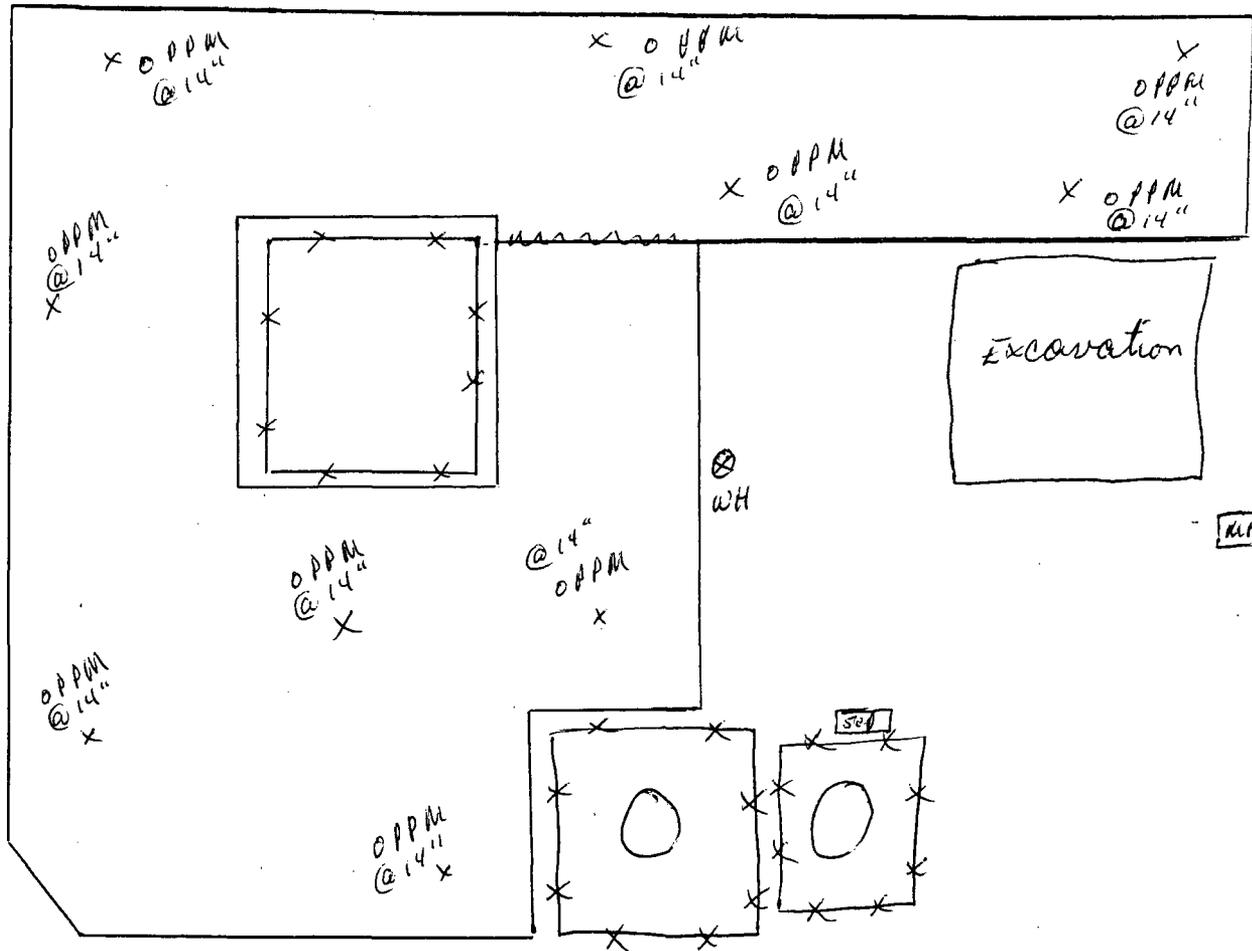
ND - Not Detected at Limit of Quantitation

Method - *SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography*

Approved By: *[Signature]*
Date: *5/20/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

N



Turner #1A
@ 1300 hrs. 6-23-97

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
 Company: *PNM Gas Services*
 Address: *603 W. Elm*
 City, State: *Farmington, NM 87401*

Date: *8-Jul-97*
 COC No.: *5170*
 Sample No.: *15060*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner #1A Landfarm*
 Project Location: *9706231300; 10pt. Composite*
 Sampled by: *RH* Date: *23-Jun-97* Time: *13:00*
 Analyzed by: *DC/HR* Date: *7-Jul-97*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Diesel Range (C10 - C28)</i>	ND	ppm	200	190	5.1	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Diesel Range (C10-C28)</i>	84	89	(70-130)	5	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
 Date: *7/8/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

**ANALYTICAL REPORT**

Attn: *Denver Bearden*
 Company: *PNM Gas Services*
 Address: *603 W. Elm*
 City, State *Farmington, NM 87401*

Date: *1-Jul-97*
 COC No.: *5170*
 Sample No.: *15060*
 Job No.: *2-1000*

Project Name: ***PNM Gas Services - Turner #1A Landfarm***
 Project Location: ***9706231300; 10pt. Composite***
 Sampled by: *RH* Date: *23-Jun-97* Time: *13:00*
 Analyzed by: *DC* Date: *28-Jun-97*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	1	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	2	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	7	ug/kg	1	ug/kg
<i>o-Xylene</i>	1	ug/kg	1	ug/kg
	<i>TOTAL</i>	11		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
 Date: *7/1/97*

Groundwater Site Summary Report

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

Quarter/Year: 2nd/99, 3rd/99, 4th/99 & 1st/00

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

Vulnerable Class: Original
OCD Ranking: 40
Lead Agency: NMOCD

Topo Map: Figure 1

Well Completion Diagram: previously submitted.

Site Map with Analytical Results: Figure 2

Groundwater Contour Map: Figure 3 (April 1999), Figure 4 (August 1999), Figure 5 (October 1999) & Figure 6 (January 2000)

Hydrograph: Figure 7

Full suite-Groundwater Sampling Results: Previously submitted

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 3 through 6). 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 7). Flow direction does not vary appreciably from season to season (see Figures 3 through 6).

Activities for Previous Year:

Quarterly sampling took place on April 21, August 3, and October 27, 1999 and again on January 19, 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 January 2000 sampling event, and only in well MW-2 during the previous three quarters. 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 8021B.

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 2 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 has demonstrated a strong downward trend in benzene concentrations since secondary remediation. Benzene levels have been below standards now for four consecutive quarters.

Toluene, ethylbenzene and xylenes concentrations in this well have been below standards since project inception.

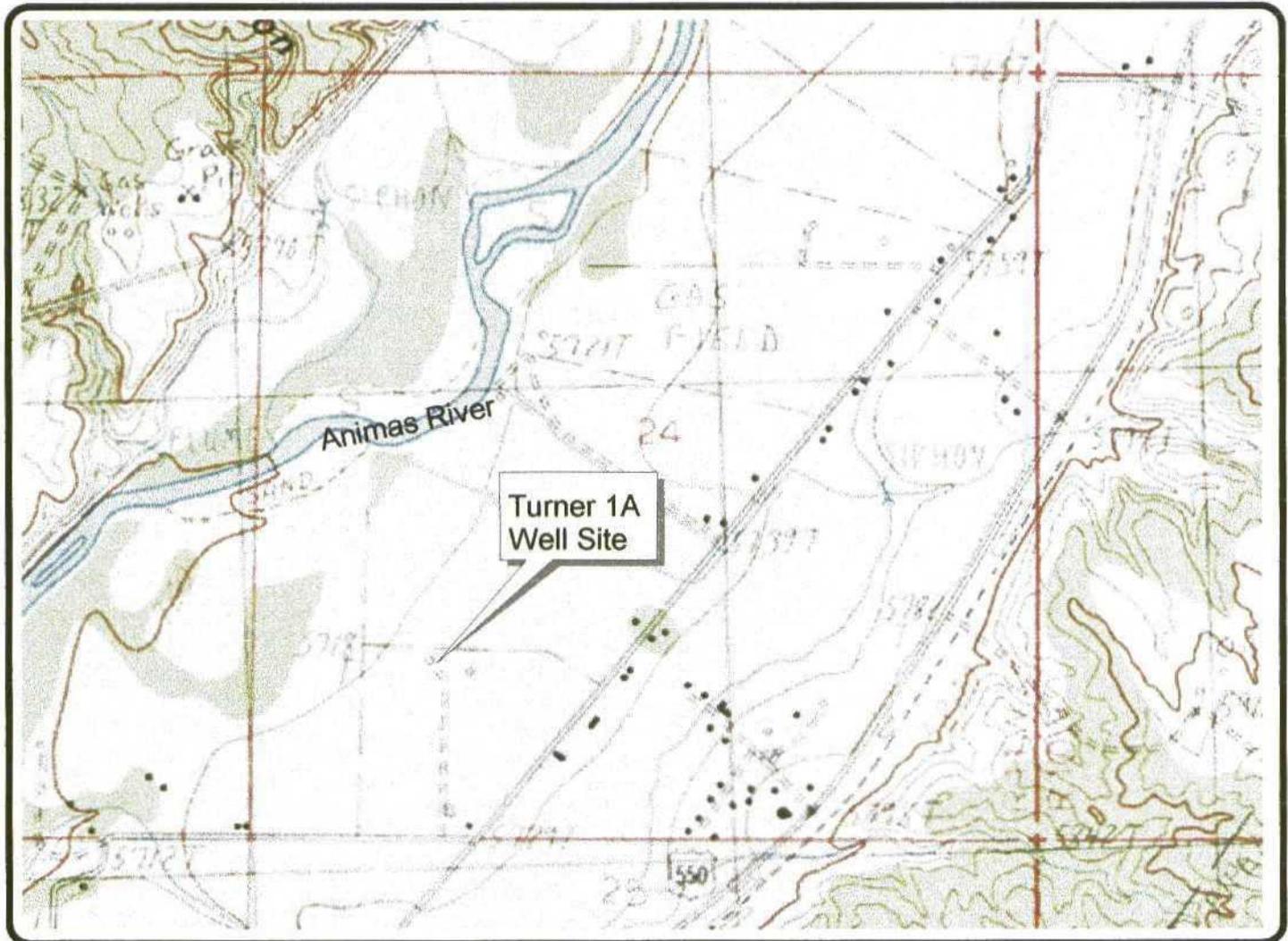
Future Actions:

Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM requests closure of the Turner 1A. This request is based upon the analytical data collected over the last three years at the site. The secondary excavation of additional source materials was successful in achieving clean-up at the Turner 1A; the BTEX concentrations in all of the wells have been below standards for four consecutive quarters.

Upon approval of the groundwater closure report, PNM will plug and abandon the four groundwater monitoring wells at the site. The concrete pad and metal vault surrounding each well will be removed. The PVC well casing will be removed or cut below ground surface and each well will be plugged to surface with cement containing 5% bentonite.



**Figure 1.
Turner 1A Topographic Map**



Cedar Hill, Quadrangle



Figure 2.
Turner 1A Site Map & Analytical Results
(Concentrations in ppb)

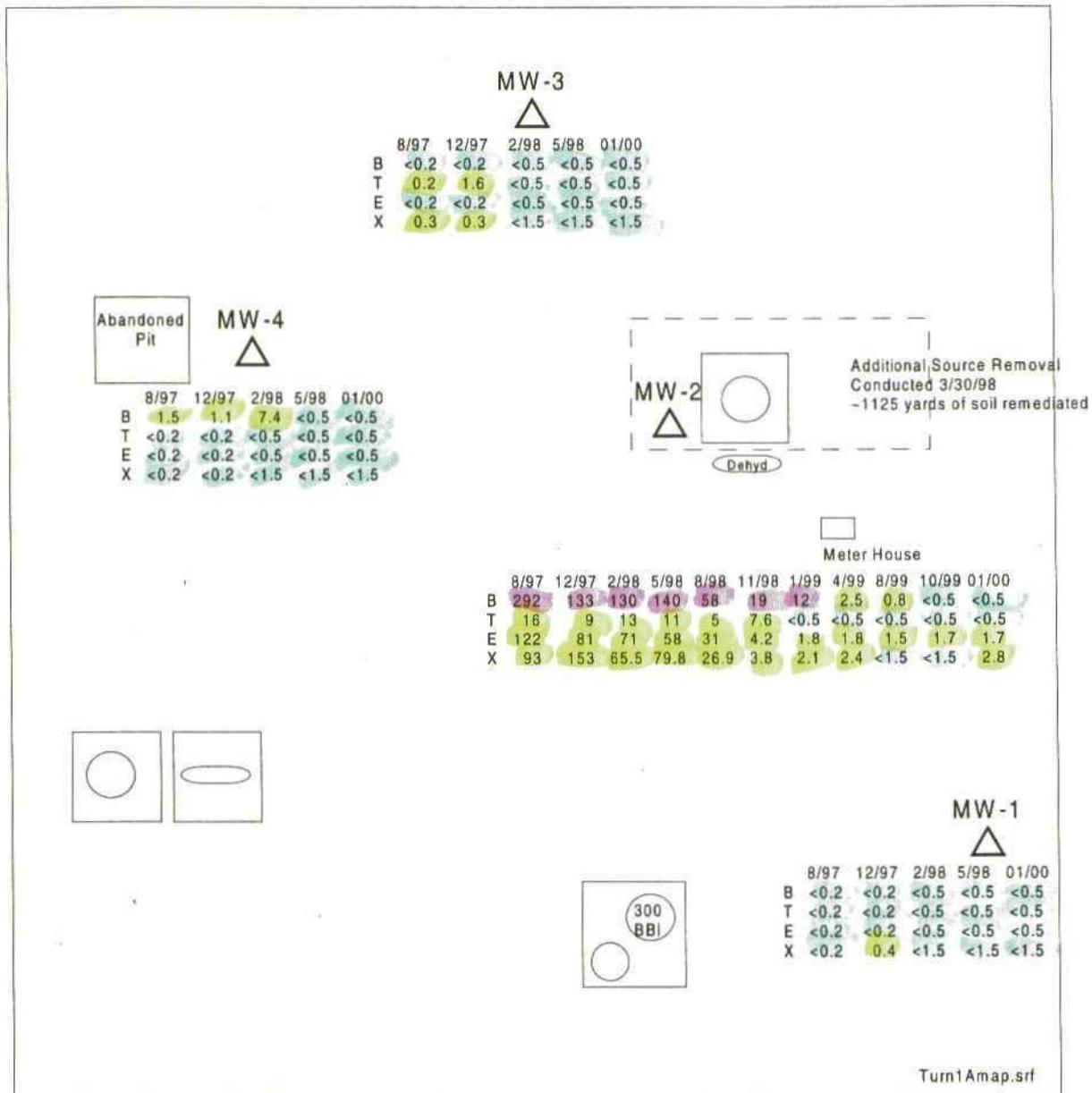


Figure 3.
Turner 1A Groundwater Contour Map
(April 21, 1999)

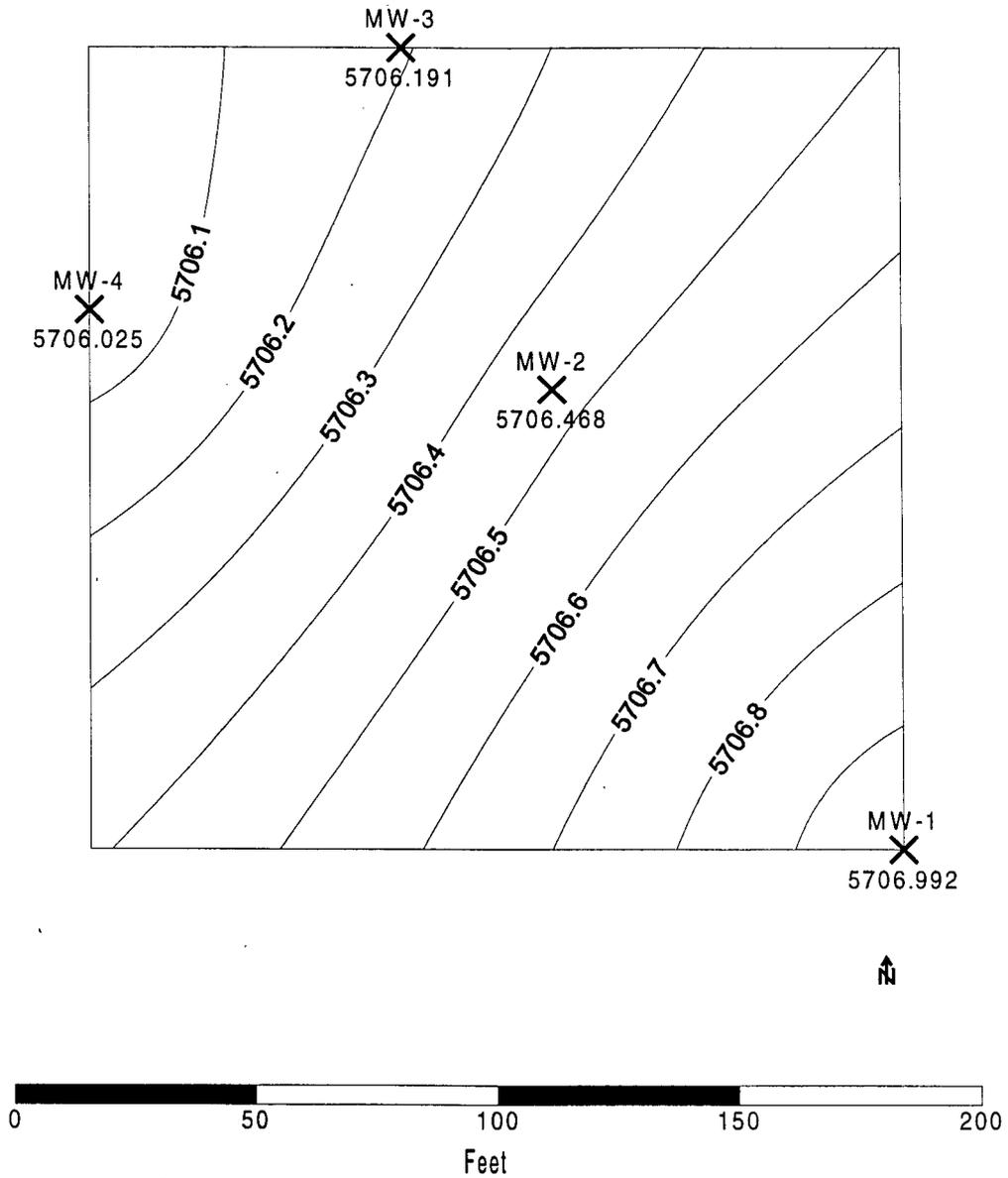


Figure 4.
Turner 1A Groundwater Contour Map
(August 3, 1999)

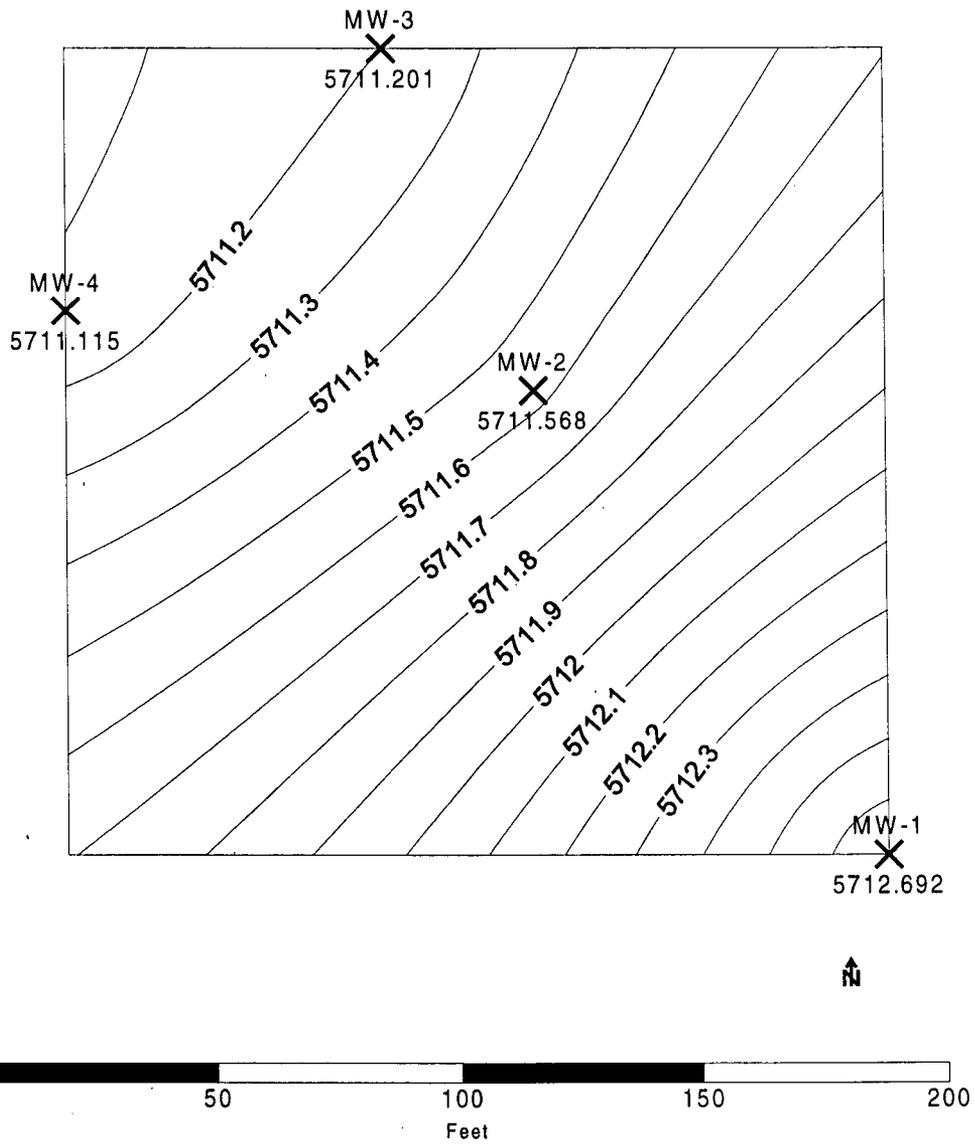


Figure 5.
Turner 1A Groundwater Contour Map
(October 27, 1999)

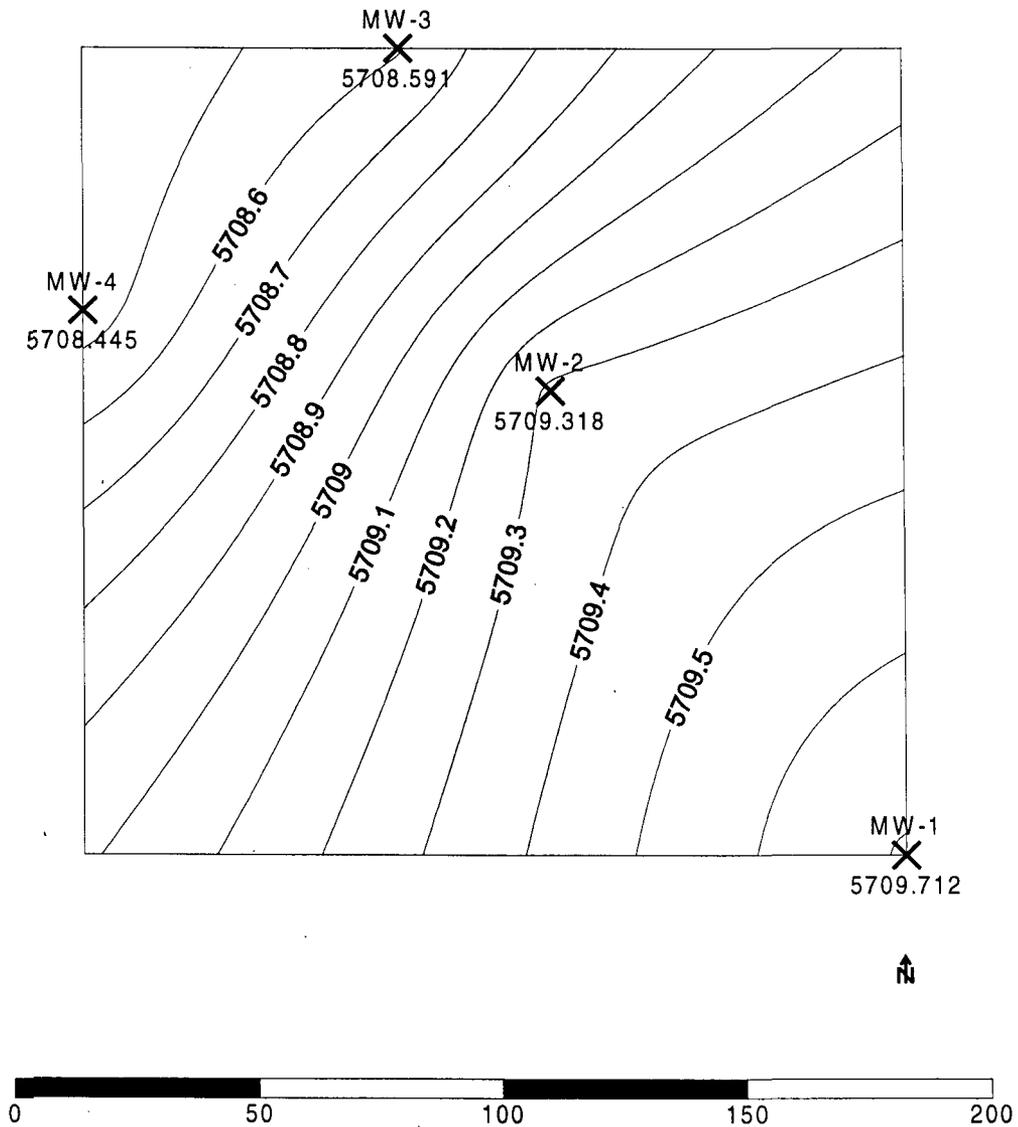


Figure 6.
Turner 1A Groundwater Contour Map
(January 19, 2000)

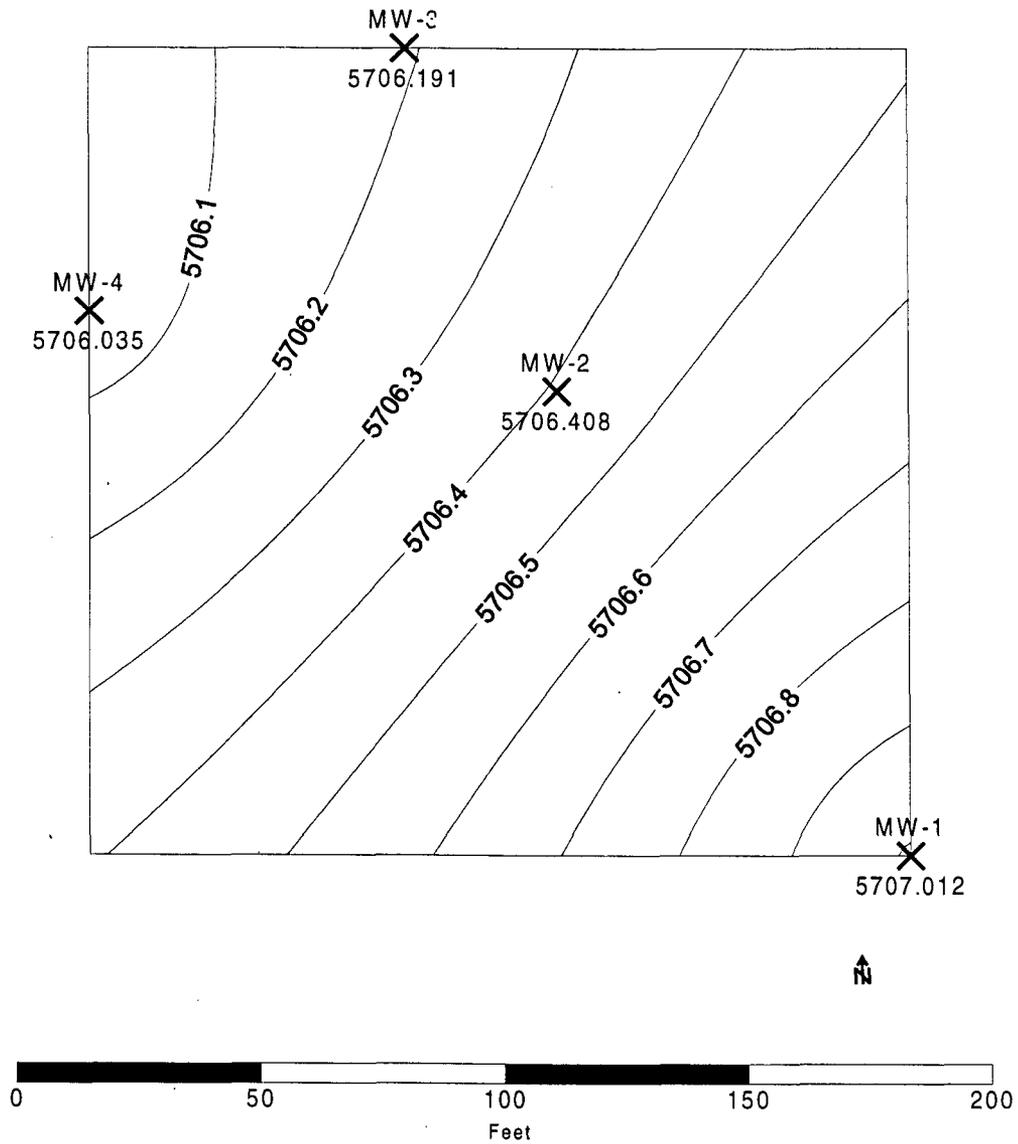
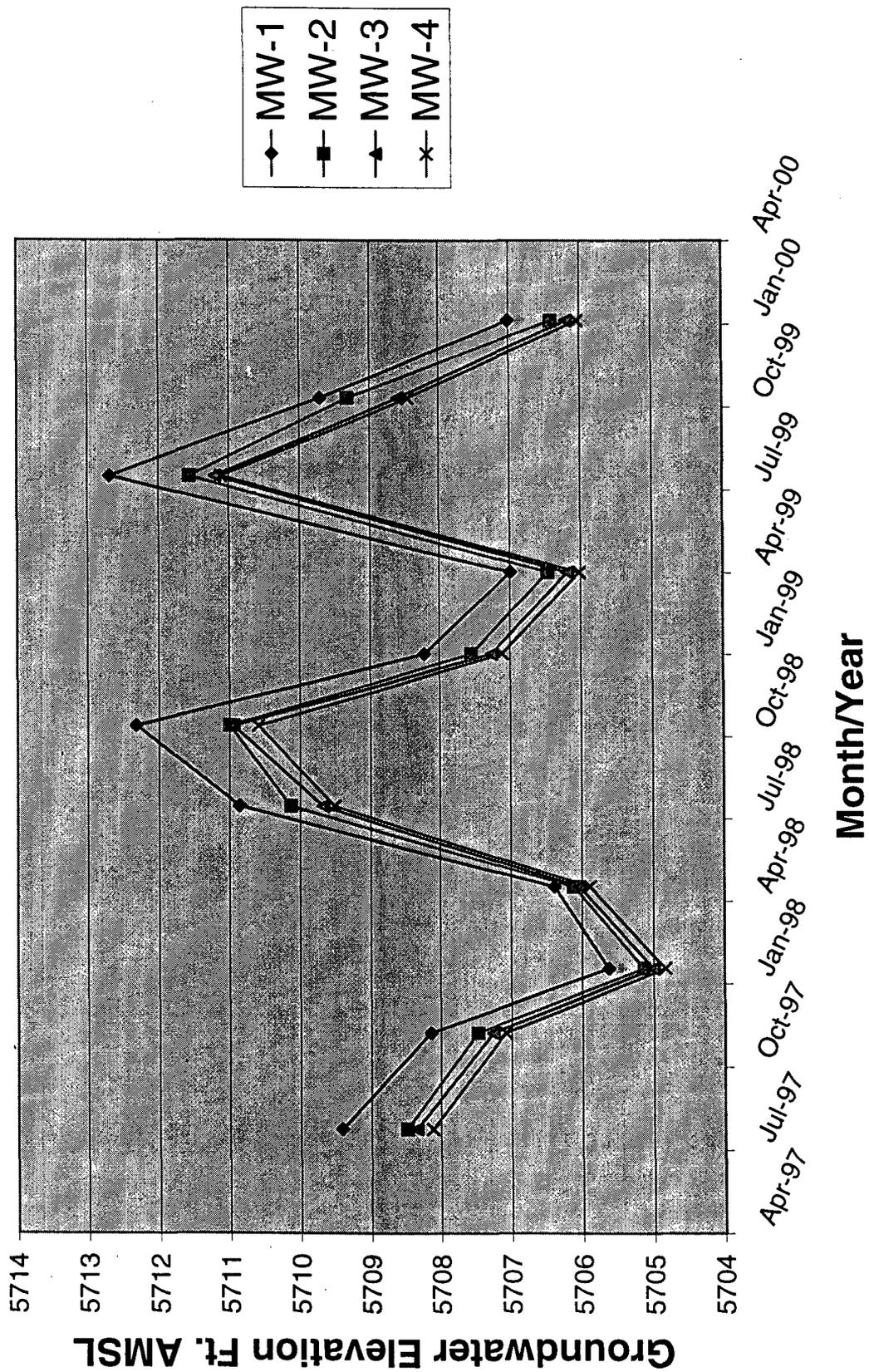


Figure 7. Turner 1A Hydrograph



Attachments

OFF: (505) 325-5667



LAB: (505) 325-1556

April 28, 1999

RECEIVED
MAY 03 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.: 9904050

Dear Maureen Gannon,

On Site Technologies, LTD. received 1 sample on 4/21/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (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", written in a cursive style.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 28-Apr-99

CLIENT: PNM - Public Service Company of NM
Project: Turner 1A
Lab Order: 9904050

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: 28-Apr-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9904050	Client Sample ID:	9904211330; MW 2
Lab ID:	9904050-01A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	4/21/99 1:30:00 PM
		COC Record:	7176

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HR
Benzene	2.5	0.5		µg/L	1	4/26/99
Toluene	ND	0.5		µg/L	1	4/26/99
Ethylbenzene	1.8	0.5		µg/L	1	4/26/99
m,p-Xylene	1.2	1		µg/L	1	4/26/99
o-Xylene	1.2	0.5		µg/L	1	4/26/99

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



CHAIN OF CUSTODY RECORD

7176

Page: 1 of 1

Date: 4/21/99

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: Denver Bearden		Title: Maureen Gannon																																																											
Company: PNM Gas Services		Company: PNM Gas Services																																																											
Address: 603 W. Elm Street		Mailing Address: Alverado Square, Mail Stop 0408																																																											
City, State, Zip: Farmington, NM 87401		City, State, Zip: Albuquerque, NM 87158																																																											
		Telephone No.: 505-848-2974																																																											
		Telefax No.:																																																											
SEND INVOICE TO		RESULTS TO																																																											
Name: Denver Bearden		Name: Maureen Gannon																																																											
Company: PNM Gas Services		Company: PNM Gas Services																																																											
Address: 603 W. Elm Street		Mailing Address: Alverado Square, Mail Stop 0408																																																											
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		Telephone No.: 505-848-2974																																																											
		Telefax No.:																																																											
Sampling Location: <u>Turner 1A</u>		ANALYSIS REQUESTED																																																											
Sampler: <u>Mark Sikelianos</u>		<table border="1"> <tr> <td rowspan="2">Number of Containers</td> <td rowspan="2">Matrix Pres.</td> <td rowspan="2">Date/Time</td> <td rowspan="2">Received by:</td> <td rowspan="2">Date/Time</td> <td rowspan="2">Special Instructions:</td> </tr> <tr> <td>LAB ID</td> </tr> <tr> <td>2</td> <td>H₂O</td> <td>4/21/99 1710</td> <td><u>[Signature]</u></td> <td>4/21/99 1710</td> <td rowspan="10">Results to be sent to both parties.</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Number of Containers	Matrix Pres.	Date/Time	Received by:	Date/Time	Special Instructions:	LAB ID	2	H ₂ O	4/21/99 1710	<u>[Signature]</u>	4/21/99 1710	Results to be sent to both parties.																																													
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Sample Identification: <u>MW-2 9904211330</u>		Received by: <u>[Signature]</u>																																																											
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Date/Time:		Date/Time:																																																											
Method of Shipment:		Rush																																																											
Authorized by: <u>[Signature]</u>		24-48 Hours																																																											
Date: <u>4/21/99</u>		10 Working Days																																																											
(Client Signature Must Accompany Request)		Special Instructions:																																																											

OFF: (505) 325-5667



LAB: (505) 325-1556

August 09, 1999

RECEIVED

AUG 12 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.: 9908006

Dear Maureen Gannon,

On Site Technologies, LTD. received 1 sample on 08/04/1999 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (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", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 09-Aug-99

CLIENT: PNM - Public Service Company of NM

Project: Turner 1A

Lab Order: 9908006

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.



ANALYTICAL REPORT

Date: 09-Aug-99

Client: PNM - Public Service Company of NM	Client Sample Info: Turner 1A
Work Order: 9908006	Client Sample ID: 9908031600; MW-2
Lab ID: 9908006-01A Matrix: AQUEOUS	Collection Date: 08/03/1999 4:00:00 PM
Project: Turner 1A	COC Record: 7782

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DC	
Benzene	0.8	0.5		µg/L	1	08/04/1999
Toluene	ND	0.5		µg/L	1	08/04/1999
Ethylbenzene	1.5	0.5		µg/L	1	08/04/1999
m,p-Xylene	ND	1		µg/L	1	08/04/1999
o-Xylene	0.8	0.5		µg/L	1	08/04/1999

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

OFF: (505) 325-5667



LAB: (505) 325-1556

November 01, 1999

RECEIVED
NOV 05 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.: 9910041

Dear Maureen Gannon,

On Site Technologies, LTD. received 1 sample on 10/27/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (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", with a stylized flourish at the end.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 01-Nov-99

CLIENT: PNM - Public Service Company of NM
Project: Turner 1A
Lab Order: 9910041

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.



ANALYTICAL REPORT

Date: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	9910041	Client Sample ID:	9910271055; MW-2
Lab ID:	9910041-01A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	10/27/99 10:55:00 AM
		COC Record:	7828

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	10/29/99
Toluene	ND	0.5		µg/L	1	10/29/99
Ethylbenzene	1.7	0.5		µg/L	1	10/29/99
m,p-Xylene	ND	1		µg/L	1	10/29/99
o-Xylene	0.8	0.5		µg/L	1	10/29/99

Qualifiers:

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

February 28, 2000

RECEIVED
MAR 02 2000

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.: 0001023

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 1/20/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Aromatic Volatiles by GC/PID (SW8021B)
Arsenic, Dissolved (SW6010A)
Selenium, Dissolved (SW7742)

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 "D. Cox", written in a cursive style.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 28-Feb-00

CLIENT: PNM - Public Service Company of NM
Project: Turner 1A
Lab Order: 0001023

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: 28-Feb-00

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	0001023	Client Sample ID:	0001191337; MW-2
Lab ID:	0001023-02A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	1/19/2000 1:37:00 PM
		COC Record:	7797

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	ND	0.5		µg/L	1	1/24/2000
Toluene	ND	0.5		µg/L	1	1/24/2000
Ethylbenzene	1.7	0.5		µg/L	1	1/24/2000
m,p-Xylene	2.1	1		µg/L	1	1/24/2000
o-Xylene	0.7	0.5		µg/L	1	1/24/2000

Qualifiers:

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



ANALYTICAL REPORT

Date: 28-Feb-00

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	0001023	Client Sample ID:	0001191347; MW-3
Lab ID:	0001023-03A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	1/19/2000 1:47:00 PM
		COC Record:	7797

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	1/24/2000
Toluene	ND	0.5		µg/L	1	1/24/2000
Ethylbenzene	ND	0.5		µg/L	1	1/24/2000
m,p-Xylene	ND	1		µg/L	1	1/24/2000
o-Xylene	ND	0.5		µg/L	1	1/24/2000

Qualifiers:

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

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Feb-00

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	0001023	Client Sample ID:	0001191356; MW-4
Lab ID:	0001023-04A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	1/19/2000 1:56:00 PM
		COC Record:	7797

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	1/24/2000
Toluene	ND	0.5		µg/L	1	1/24/2000
Ethylbenzene	ND	0.5		µg/L	1	1/24/2000
m,p-Xylene	ND	1		µg/L	1	1/24/2000
o-Xylene	ND	0.5		µg/L	1	1/24/2000

Qualifiers:

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

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Feb-00

Client:	PNM - Public Service Company of NM	Client Sample Info:	Turner 1A
Work Order:	0001023	Client Sample ID:	0001191415; MW-5
Lab ID:	0001023-05A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	1/19/2000 2:15:00 PM
		COC Record:	7797

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	1/24/2000
Toluene	ND	0.5		µg/L	1	1/24/2000
Ethylbenzene	1.7	0.5		µg/L	1	1/24/2000
m,p-Xylene	2.1	1		µg/L	1	1/24/2000
o-Xylene	0.7	0.5		µg/L	1	1/24/2000

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

CASE NARRATIVE
February 18, 2000

Client: On-Site Technologies, LTD.
Date Rec'd: 1/21/00
Matrix: Groundwater
SDG#: L26197
Lab Nos.: L26197-01 through L26197-02

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received two groundwater samples from On-Site Technologies, LTD. on January 21, 2000. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Sample Analysis:

The sample was analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following anomalies were noted during analysis:

1. None.

Holding Times:

All analysis was performed within the applicable EPA recommended holding times.

If you have any questions please do not hesitate to call me at (800) 334-5493.



Scott Gustin, Project Manager

ACZ Laboratories, Inc.
 2773 Downhill Drive
 Steamboat Springs, CO 80487
 (800) 334-5493

Lab Sample ID: L26197-01
 Client Sample ID: 0001023-01B
 Client Project ID:
 ACZ Report ID: RG111459

On Site Technologies, LTD.
 612 E Murray Dr
 Farmington, NM 87499
 David Cox

Date Sampled: 01/19/2000 1:23:00 PM
 Date Received: 01/21/2000
 Date Reported: 02/03/2000

Turner 1A; 0001191323 MW-1

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M206.2 GFAA		U	mg/L	0.001	0.005	2/2/2000	ms
Selenium, dissolved	SM 3500-Se C, AA-Hydride		U	mg/L	0.001	0.005	1/29/2000	ms

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Lab Filtration & Acidification	***						1/25/2000	laa

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected at the indicated MDL
 B = Analyte concentration detected at a value between MDL and PQL
 PQL = Practical Quantitation Limit

S. Hauemehe

Vice President of Operations: Ralph Poulsen

ACZ Laboratories, Inc.
 2773 Downhill Drive
 Steamboat Springs, CO 80487
 (800) 334-5493

Lab Sample ID: **L26197-02**
 Client Sample ID: **0001023-02B**
 Client Project ID:
 ACZ Report ID: **RG111460**

On Site Technologies, LTD.
 612 E Murray Dr
 Farmington, NM 87499
 David Cox

Date Sampled: **01/19/2000 1:37:00 PM**
 Date Received: **01/21/2000**
 Date Reported: **02/03/2000**

Turner 1A; 0001191337 MW-2

Sample Matrix: *Ground Water*

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M206.2 GFAA	0.003	B	mg/L	0.001	0.005	2/2/2000	ms
Selenium, dissolved	SM 3500-Se C, AA-Hydrde		U	mg/L	0.001	0.005	1/29/2000	ms

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Lab Filtration & Acidification	***						1/25/2000	laa

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected at the indicated MDL
 B = Analyte concentration detected at a value between MDL and PQL
 PQL = Practical Quantitation Limit

S.H.
 Vice President of Operations: Ralph Poulsen

