3R - 304

REPORTS

DATE:

July 2, 2001

Environmental Services
187 County Road 4980
Bloomfield, NM 87413
505-632-4409 Phone
505-632-4405 Fax

July 2, 2001

Mr. Bill Olson
Hydrogeologist
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: ALBRIGHT #4 DRIP PIT REMEDIATION AND CLOSURE REPORT

Dear Mr. Olson:

Enclosed please find information on remediation and closure activities associated with the unlined surface impoundment located at the Albright #4 Drip site. Public Service Company of New Mexico (PNM) formerly owned the site and initiated closure activities on June 17, 1999. The site later became an asset of Williams upon purchase of Gas Company of New Mexico (GCNM) from PNM. Upon expiration of PNM's retained environmental liabilities associated with the site, Williams agreed to complete necessary closure work. As such, the enclosed documentation reflects activities of both PNM and Williams.

Site History

Excavation of petroleum hydrocarbon impacted soil beneath the unlined surface impoundment began on June 17, 1999. A total of 2,040 cubic yards of contaminated soil were removed and disposed of at an approved off-site waste management facility. The excavation was reportedly terminated at a depth of 15-feet, where ground water was encountered. A sample of the ground water collected from the pit contained benzene and total xylene at concentrations in excess of Water Quality Control Commission (WQCC) standards. A letter notifying the Oil Conservation Division (OCD) of ground water contamination at the site was submitted on July 20, 1999.

To evaluate the magnitude and extent of ground water contamination, four monitoring wells were installed on July 27–28, 1999. An additional well was added to the network on April 12, 2000. Quarterly ground water samples were collected from the wells through May of 2001.

Site Hydrogeology

The Albright # 4 Drip is located in Unit F, Section 22, Township 29N, Range 10W of San Juan County, New Mexico (Figure 1). Approximately 100 feet southwest of the site is the Wright Canyon Arroyo, which flows south approximately 1 mile to the San Juan River. The site is underlain by approximately 15-feet of unconsolidated material consisting primarily of light brown, fine to coarse sand and silty sand. Below 15-feet an unknown thickness of gray, moderately to well indurated sandstone with appreciable clay content exists.

Groundwater in the unconsolidated sediments is unconfined and water level elevations vary seasonally. Depths to ground water range from approximately 8 to 15-feet below ground level. A hydrograph for the entire monitoring period is included as Figure 2. Ground water flows to the south consistent with the regional hydraulic gradient toward the San Juan River. A potentiometric surface map is included as Figure 3. Hydraulic conductivities of the sediments are likely on the order of 10^{-3} to 10^{-1} cm/sec.

Monitoring Results

Concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) were analyzed in water samples collected quarterly from August 1999 through May 2001. Of the five wells in the monitoring network, only well MW-2, located in the former source area, contained concentrations in excess of WQCC standards. Table 1 summarizes the analytical results from monitoring the wells.

Natural attenuation processes active at the site resulted in a steady decrease in BTEX over the two-year monitoring period. The initial concentration of total BTEX in well MW-2 was 1030 ug/L. Less than one-year later, in June 2000, the total BTEX concentration was reduced to 43.6 ug/L. For the last four consecutive quarters of monitoring the concentrations of the BTEX compounds have remained below the WQCC standards.

Summary

The unlined surface impoundment at the Albright #4 Drip was addressed consistent with OCD Order 7940-C and with the guidelines pertaining to the remediation of unlined surface impoundments. The work included the removal of hydrocarbon impacted soils and an evaluation of groundwater impacted by the historical operation of the impoundment. A network of ground water monitoring wells was installed and ground water analyses showed that a small BTEX plume existed in the vicinity of the former pit location. Natural attenuation of the BTEX compounds resulted in contaminant degradation to concentrations less than WQCC MCLs. The monitoring results show that WQCC standards for BTEX in ground water have been met for four consecutive quarterly monitoring periods.

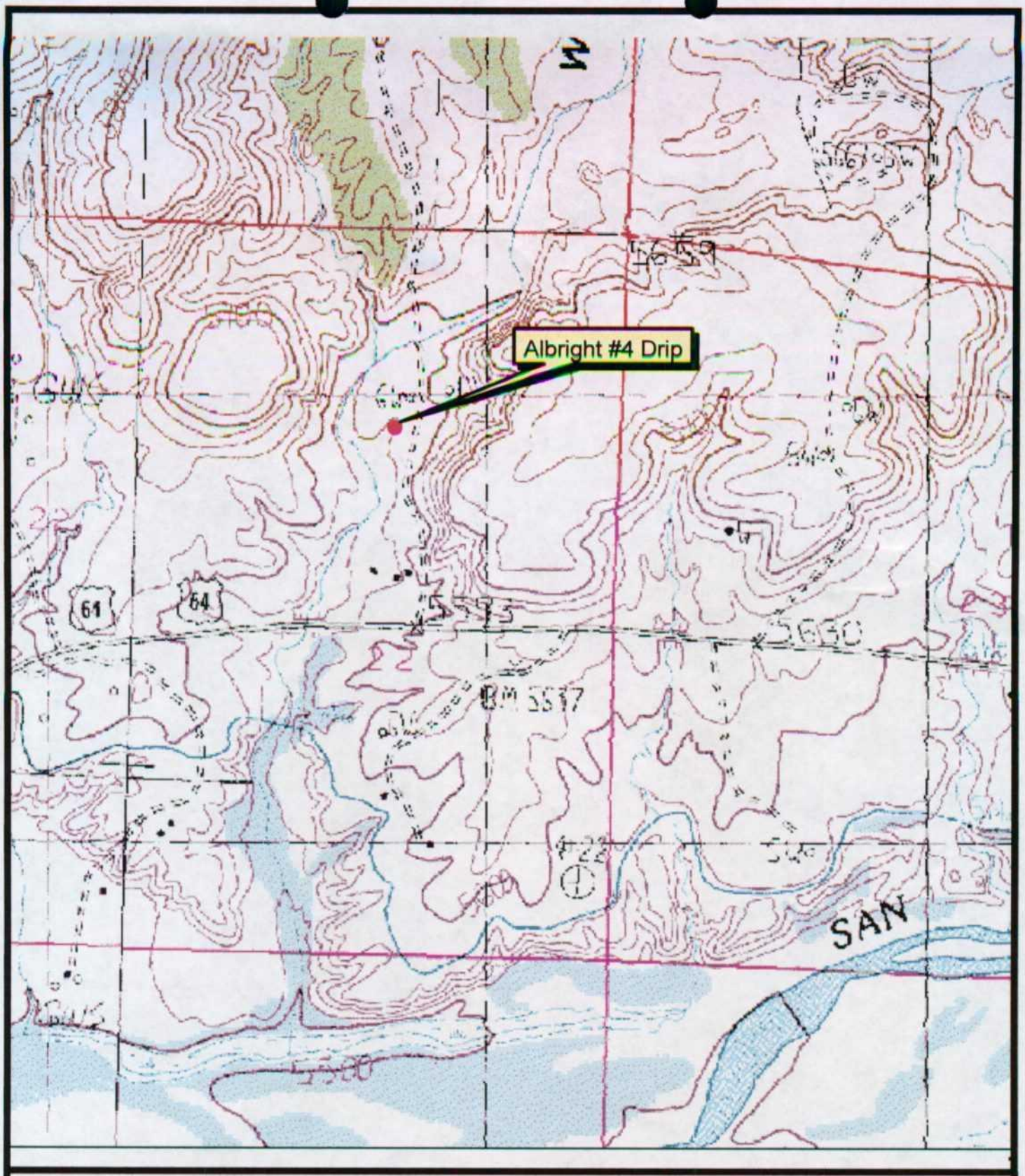
Based on current site conditions, Williams requests approval for closure of the Albright #4 Drip site. Following receipt of your closure approval we will plug and abandon the monitoring wells in accordance with applicable regulations. Williams appreciates your time in reviewing this site closure request. If you have any questions or require any additional information, please contact me at 505-632-4409 or Jim Struhs, Project Hydrogeologist at 505-632-4457.

Respectfully,

Mark B. Harvey
Project Coordinator

enclosures

c: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office



Williams

Figure 1
Site Location Map
Albright #4 Drip

1000 0 1000 2000 Feet

N

Figure 2. Albright #4 Drip
Hydrograph for Period Q3/1999 - Q2/2001
(Elevation vs. Time)

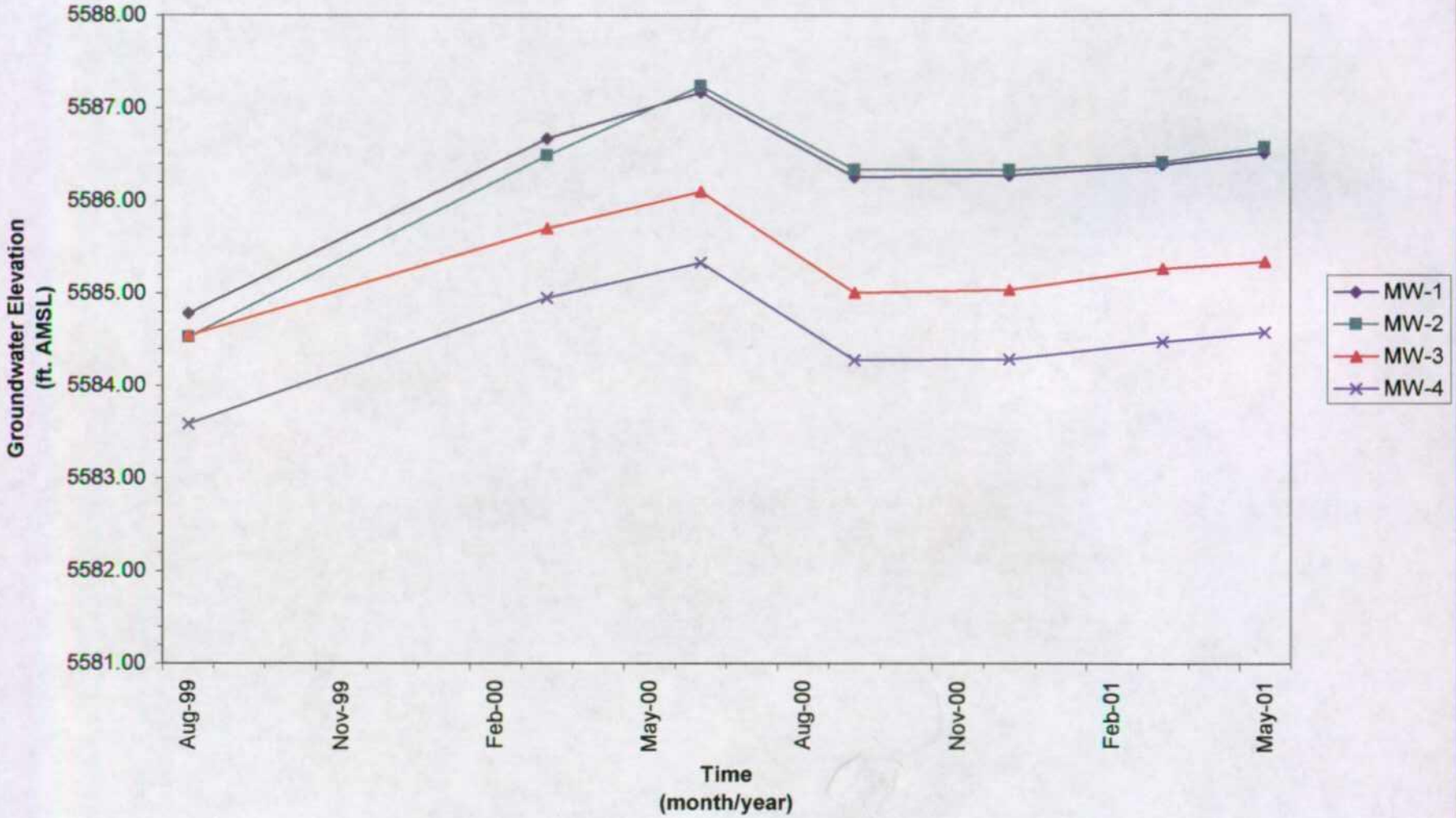


Figure 3. Potentiometric Surface Map
Albright #4 Drip
(August 5, 1999)

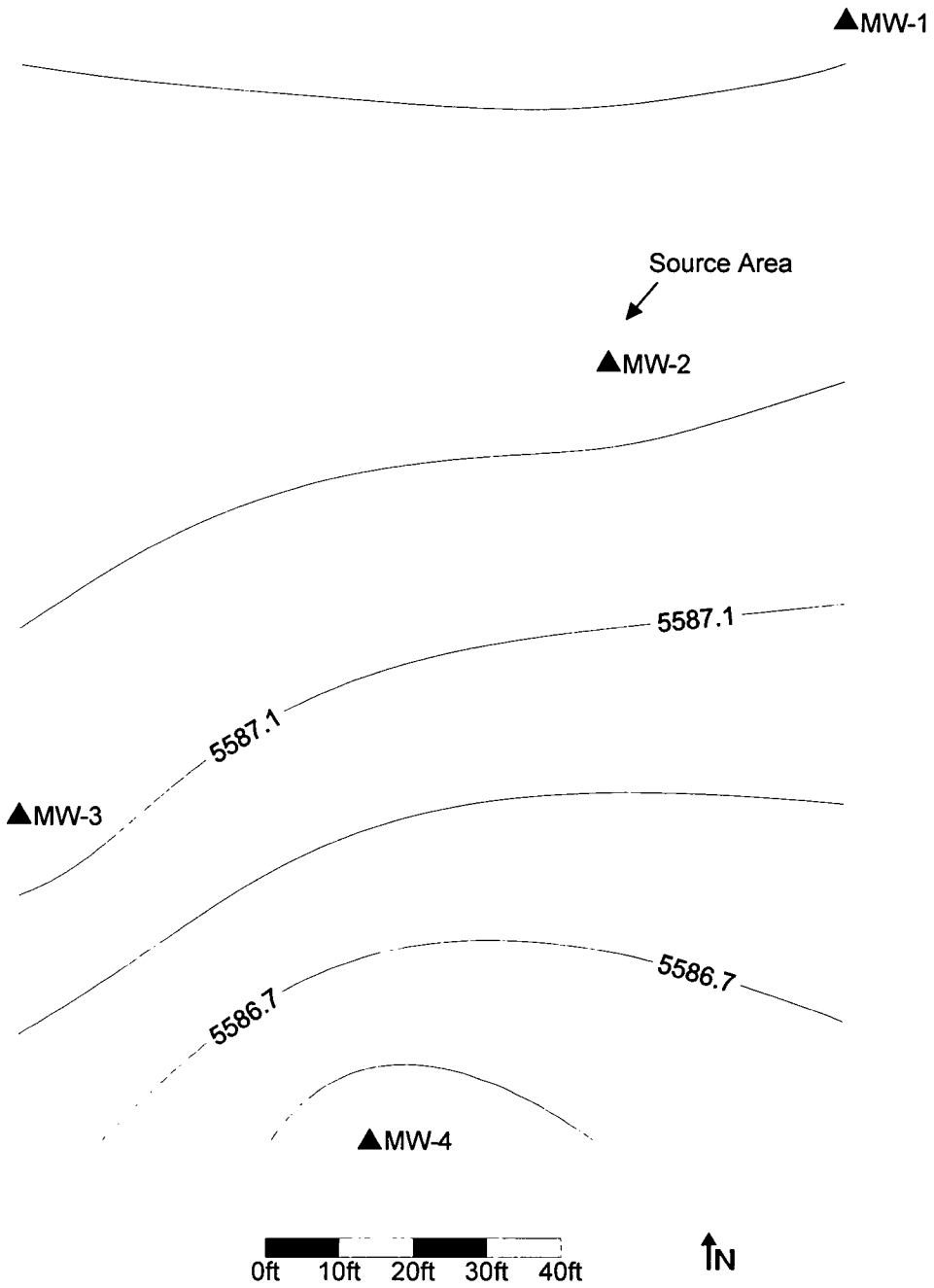


Table 1. Summary of Groundwater Analytical Data
Albright #4 Drip

			Free Product		Analytes (values in ug/L)			
Well ID	Sample ID	Sample Date	Present Yes/No	Thickness (ft.)	benzene	toluene	ethylbenzene	total xylenes
MW-1	9908051320	5-Aug-99	N		<0.5	<0.5	<0.5	<1.5
	9912061257	6-Dec-99	N		<0.5	1	<0.5	<1.5
	0003051332	5-Mar-00	N		<0.5	<0.5	<0.5	<1.5
	0006071157	7-Jun-00	N		<0.5	<0.5	<0.5	<1.5
	NS	28-Sep-00	N					
	NS	7-Dec-00	N					
	ALB4-UG-MW1	15-Mar-01	N		<1	<1	<1	<1
	ALB4-UG-MW1	4-May-01	N		<1	<1	<1	<1
MW-2	9908051400	5-Aug-99	N		230	8	52	740
	9912061322	6-Dec-99	N		170	3	39	68
	0003051355	5-Mar-00	N		26	<0.5	23	65
	0006071212	7-Jun-00	N		10.0	<0.5	9.3	23.8
	ALB4-SA-MW2	28-Sep-00	N		6.1	26.2	8.3	17.6
	ALB4-SA-MW2	7-Dec-00	N		4.16	1.56	5.94	2.24
	ALB4-SA-MW2	15-Mar-01	N		3.29	21.70	3.47	8.90
	ALB4-SA-MW2	4-May-01	N		<1	17.00	1.57	5.50
MW-3	9908051430	5-Aug-99	N		<0.5	<0.5	<0.5	<1.5
	9912061340	6-Dec-99	N		<0.5	1	<0.5	<1.5
	0003051410	5-Mar-00	N		<0.5	<0.5	<0.5	<1.5
	0006071226	7-Jun-00	N		<0.5	<0.5	<0.5	<1.5
	NS	28-Sep-00	N					
	NS	7-Dec-00	N					
	ALB4-DG-MW3	15-Mar-01	N		<1	<1	<1	<1
	ALB4-DG-MW3	4-May-01	N		<1	<1	<1	<1
MW-4	9908051520	5-Aug-99	N		<0.5	<0.5	<0.5	<1.5
	9912061353	6-Dec-99	N		<0.5	0.8	<0.5	<1.5
	0003051426	5-Mar-00	N		<0.5	<0.5	1	<1.5
	0006071237	7-Jun-00	N		<0.5	<0.5	1	<1.5
	NS	28-Sep-00	N					
	NS	7-Dec-00	N					
	ALB4-DG-MW4	15-Mar-01	N		<1	<1	<1	<1
	ALB4-DG-MW4	4-May-01	N		1.27	5.08	<1	4.63
MW-5	0006071248	7-Jun-00	N		<0.5	1.5	0.8	<1.5
	ALB4-DG-MW5	28-Sep-00	N		<1.0	13.8	2.33	3.54
	ALB4-DG-MW5	7-Dec-00	N		1.27	<1	<1	2.01
	ALB4-DG-MW5	15-Mar-01	N		<1	19.4	5.28	3.58
	ALB4-DG-MW5	4-May-01	N		<1	29.1	3.92	3.92

NS=Not Sampled

7820

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

Date: 8/5/99

Page: 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.

SEND INVOICE TO

Name	Denver Bearden		
Company	PNM Gas Services	Dept.	324-3763
Address	603 W. Elm Street		
City, State, Zip	Farmington, NM 87401		

REPORT RESULTS TO

Name	Maureen Gannon	Title	
Company	PNM Gas Services		
Mailing Address	Alverado Square, Mail Stop 0408		
City, State, Zip	Albuquerque, NM 87158		
Telephone No.	505-848-2974	Telefax No.	

Sampling Location: Albright #4 Dr. P

Sampler: Mark Kalianos

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX 8021B	PAH 8310	Water Quality Cations/Anions Dissolved							LAB ID
990805 1330 MW-1			H2O		4	X		X	X						
990805 1400 MW-2			↓		4	X	X	X	X						
990805 1430 MW-3			↓		2	X									
990805 1520 MW-4			↓		2	X									

Relinquished by:	Date/Time 8/5/99 1400	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Rush	24-48 Hours	10 Working Days	Special Instructions:
			Results to be sent to both parties.

Authorized by: _____ Date 8/5/99
(Client Signature Must Accompany Request)

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

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *31-Aug-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright #4 Drip
Work Order:	9908012	**Client Sample ID:**	9908051320; MW-1
Lab ID:	9908012-01A **Matrix:** AQUEOUS	**Collection Date:**	08/05/1999 1:20:00 PM
Project:	Albright #4 Drip	**COC Record:**	7820

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	08/12/1999
Toluene	ND	0.5		µg/L	1	08/12/1999
Ethylbenzene	ND	0.5		µg/L	1	08/12/1999
m,p-Xylene	ND	1		µg/L	1	08/12/1999
o-Xylene	ND	0.5		µg/L	1	08/12/1999

Qualifiers:

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

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: *13-Sep-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright #4 Drip
Work Order:	9908012	**Client Sample ID:**	9908051320; MW-1
Lab ID:	9908012-01B **Matrix:** AQUEOUS	**Collection Date:**	8/5/99 1:20:00 PM
Project:	Albright #4 Drip	**COC Record:**	7820

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CALCIUM, DISSOLVED		**E215.1**				Analyst: **HR**
Calcium	210	25		mg/L	100	8/10/99
POTASSIUM, DISSOLVED		**E258.1**				Analyst: **HR**
Potassium	4.8	0.5		mg/L	2	8/10/99
MAGNESIUM, DISSOLVED		**E242.1**				Analyst: **HR**
Magnesium	50	5		mg/L	20	8/10/99
SODIUM, DISSOLVED		**E273.1**				Analyst: **HR**
Sodium	1440	120		mg/L	500	8/10/99
ALKALINITY, TOTAL		**M2320 B**				Analyst: **HR**
Alkalinity, Bicarbonate (As CaCO3)	350	5		mg/L CaCO3	1	8/9/99
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	8/9/99
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	8/9/99
Alkalinity, Total (As CaCO3)	350	5		mg/L CaCO3	1	8/9/99
CHLORIDE		**E325.3**				Analyst: **HR**
Chloride	31	1		mg/L	1	8/9/99
CONDUCTIVITY @ 25C		**E120.1**				Analyst: **HR**
Specific Conductance	6690	2		uS/cm	1	8/9/99
HARDNESS, TOTAL		**M2340 B**				Analyst: **HR**
Hardness (As CaCO3)	740	1		mg/L	1	8/10/99
PH		**E150.1**				Analyst: **HR**
pH	7.51	2		pH units	1	8/6/99
SULFATE		**M4500-SO4 D**				Analyst: **HR**
Sulfate	3560	8		mg/L	1	8/9/99
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **HR**
Total Dissolved Solids (Residue, Filterable)	5580	40		mg/L	1	8/9/99
TOTAL DISSOLVED SOLIDS		**CALC**				Analyst: **HR**
Total Dissolved Solids (Calculated)	5650	40		mg/L	1	8/10/99

Qualifiers:

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

RECEIVED AUG 3 ^ 1999

ACZ

Analytical Results

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

Albright #4 Drip 9908051320; MW-1

Lab Sample ID: *L24239-01*
Client Sample ID: *9908012-01C*
Client Project ID:
ACZ Report ID: *RG99733*

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

Date Sampled: *8/5/99 01:20*
Date Received: *8/10/99*
Date Reported: *8/25/99*

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	8/18/99	jl
Barium, dissolved	M200.7 ICP	0.022		mg/L	0.003	0.01	8/20/99	kr
Cadmium, dissolved	M213.2 GFAA		U	mg/L	0.0005	0.003	8/17/99	jl
Chromium, dissolved	M200.7 ICP		U	mg/L	0.01	0.05	8/20/99	kr
Iron, dissolved	M200.7 ICP	0.02	B	mg/L	0.01	0.05	8/20/99	kr
Lead, dissolved	M239.2 GFAA		U	mg/L	0.001	0.005	8/16/99	jl
Manganese, dissolved	M200.7 ICP	0.050		mg/L	0.005	0.03	8/20/99	kr
Mercury, dissolved	M245.1 CVAA		U	mg/L	0.0002	0.001	8/20/99	ms
Selenium, dissolved	SM 3500-Se C, AA-Hydride	0.003	B	mg/L	0.001	0.005	8/18/99	ms
Silver, dissolved	M200.7 ICP		U	mg/L	0.005	0.03	8/20/99	kr

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Lab Filtration & Acidification	***						8/11/99	ss/tr

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. Halverson for

Vice President of Operations: Ralph Poulsen

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *31-Aug-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright #4 Drip
Work Order:	9908012	**Client Sample ID:**	9908051400; MW-2
Lab ID:	9908012-02A **Matrix:** AQUEOUS	**Collection Date:**	08/05/1999 2:00:00 PM
Project:	Albright #4 Drip	**COC Record:**	7820

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	230	2.5		µg/L	5	08/16/1999
Toluene	7.7	2.5		µg/L	5	08/16/1999
Ethylbenzene	52	2.5		µg/L	5	08/16/1999
m,p-Xylene	740	5		µg/L	5	08/16/1999
o-Xylene	ND	2.5		µg/L	5	08/16/1999

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
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E - Value above quantitation range
Surr - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *13-Sep-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright #4 Drip
Work Order:	9908012	**Client Sample ID:**	9908051400; MW-2
Lab ID:	9908012-02B **Matrix:** AQUEOUS	**Collection Date:**	8/5/99 2:00:00 PM
Project:	Albright #4 Drip	**COC Record:**	7820

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CALCIUM, DISSOLVED		**E215.1**				Analyst: **HR**
Calcium	340	25		mg/L	100	8/10/99
POTASSIUM, DISSOLVED		**E258.1**				Analyst: **HR**
Potassium	8	1.2		mg/L	5	8/10/99
MAGNESIUM, DISSOLVED		**E242.1**				Analyst: **HR**
Magnesium	57	5		mg/L	20	8/10/99
SODIUM, DISSOLVED		**E273.1**				Analyst: **HR**
Sodium	1560	120		mg/L	500	8/10/99
ALKALINITY, TOTAL		**M2320 B**				Analyst: **HR**
Alkalinity, Bicarbonate (As CaCO3)	780	5		mg/L CaCO3	1	8/9/99
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	8/9/99
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	8/9/99
Alkalinity, Total (As CaCO3)	780	5		mg/L CaCO3	1	8/9/99
CHLORIDE		**E325.3**				Analyst: **HR**
Chloride	38	1		mg/L	1	8/9/99
CONDUCTIVITY @ 25C		**E120.1**				Analyst: **HR**
Specific Conductance	7510	2		uS/cm	1	8/9/99
HARDNESS, TOTAL		**M2340 B**				Analyst: **HR**
Hardness (As CaCO3)	1090	1		mg/L	1	8/10/99
PH		**E150.1**				Analyst: **HR**
pH	6.96	2		pH units	1	8/6/99
SULFATE		**M4500-SO4 D**				Analyst: **HR**
Sulfate	3960	8		mg/L	1	8/9/99
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **HR**
Total Dissolved Solids (Residue, Filterable)	6660	40		mg/L	1	8/9/99
TOTAL DISSOLVED SOLIDS		**CALC**				Analyst: **HR**
Total Dissolved Solids (Calculated)	6740	40		mg/L	1	8/10/99

Qualifiers:

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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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ACZ

Analytical Results

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

Albright #4 Drip 9908051400; MW-2

Lab Sample ID: *L24239-02*
Client Sample ID: *9908012-02C*
Client Project ID:
ACZ Report ID: *RG99734*

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

Date Sampled: *8/5/99 02:00*
Date Received: *8/10/99*
Date Reported: *8/25/99*

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	8/18/99	jl
Barium, dissolved	M200.7 ICP	0.038		mg/L	0.006	0.02	8/20/99	kr
Cadmium, dissolved	M213.2 GFAA		U	mg/L	0.0005	0.003	8/17/99	jl
Chromium, dissolved	M200.7 ICP		U	mg/L	0.02	0.1	8/20/99	kr
Iron, dissolved	M200.7 ICP	0.13		mg/L	0.02	0.1	8/20/99	kr
Lead, dissolved	M239.2 GFAA		U	mg/L	0.001	0.005	8/16/99	jl
Manganese, dissolved	M200.7 ICP	9.96		mg/L	0.01	0.05	8/20/99	kr
Mercury, dissolved	M245.1 CVAA		U	mg/L	0.0002	0.001	8/20/99	ms
Selenium, dissolved	SM 3500-Se C, AA-Hydride		U	mg/L	0.001	0.005	8/18/99	ms
Silver, dissolved	M200.7 ICP		U	mg/L	0.01	0.05	8/20/99	kr

Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Lab Filtration & Acidification	***						8/11/99	ss/tr

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. Haremehl for

Vice President of Operations: Ralph Poulsen

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9908282-01

On Site Technologies
612 East Murray
Farmington, NM 87401
ATTN: David Cox

Albright #4 Drip 9908051400; MW-2

08/16/99

PROJECT: 8310 Analysis
SITE:
SAMPLED BY: On Site Technologies, LTD.
SAMPLE ID: 9908012-02D

PROJECT NO: 9908012
MATRIX: WATER
DATE SAMPLED: 08/05/99 14:00:00
DATE RECEIVED: 08/10/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Naphthalene	18	2.0	ug/L
Acenaphthylene	ND	0.1	ug/L
Acenaphthene	0.3	0.1	ug/L
Fluorene	ND	2.0	ug/L
Phenanthrene	ND	0.1	ug/L
Anthracene	ND	0.1	ug/L
Fluoranthene	0.7	0.1	ug/L
Pyrene	ND	0.1	ug/L
Chrysene	ND	0.1	ug/L
Benzo (a) anthracene	ND	0.1	ug/L
Benzo (b) fluoranthene	ND	0.1	ug/L
Benzo (k) fluoranthene	ND	0.1	ug/L
Benzo (a) pyrene	ND	0.1	ug/L
Dibenzo (a,h) anthracene	ND	0.1	ug/L
Benzo (g,h,i) perylene	ND	0.1	ug/L
Indeno (1,2,3-cd) pyrene	ND	0.1	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1-Fluoronaphthalene	0.50 ug/L	74	50	150
Phenanthrene d-10	0.50 ug/L	90	50	150

ANALYZED BY: KA
DATE/TIME: 08/13/99 06:04:32
EXTRACTED BY: KL
DATE/TIME: 08/10/99 12:00:00
METHOD: 8310 Polynuclear Aromatic Hydrocarbons
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *31-Aug-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright #4 Drip
Work Order:	9908012	**Client Sample ID:**	9908051430; MW-3
Lab ID:	9908012-03A **Matrix:** AQUEOUS	**Collection Date:**	08/05/1999 2:30:00 PM
Project:	Albright #4 Drip	**COC Record:**	7820

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	08/12/1999
Toluene	ND	0.5		µg/L	1	08/12/1999
Ethylbenzene	ND	0.5		µg/L	1	08/12/1999
m,p-Xylene	ND	1		µg/L	1	08/12/1999
o-Xylene	ND	0.5		µg/L	1	08/12/1999

Qualifiers:

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *31-Aug-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright #4 Drip
Work Order:	9908012	**Client Sample ID:**	9908051520; MW-4
Lab ID:	9908012-04A **Matrix:** AQUEOUS	**Collection Date:**	08/05/1999 3:20:00 PM
Project:	Albright #4 Drip	**COC Record:**	7820

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	08/12/1999
Toluene	ND	0.5		µg/L	1	08/12/1999
Ethylbenzene	ND	0.5		µg/L	1	08/12/1999
m,p-Xylene	ND	1		µg/L	1	08/12/1999
o-Xylene	ND	0.5		µg/L	1	08/12/1999

Qualifiers:

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

7033

ON SITE TECHNOLOGIES, LTD.

CHAIN OF CUSTODY RECORD

Date: 12/6/99

Page: 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.	
SEND INVOICE TO			
Name	Denver Bearden		
Company	PNM Gas Services	Dept.	324-3763
Address	603 W. Elm Street		
City, State, Zip	Farmington, NM 87401		

REPORT RESULTS TO			
Name	Maureen Gannon	Title	
Company	PNM Gas Services		
Mailing Address	Alverado Square, Mail Stop 0408		
City, State, Zip	Albuquerque, NM 87158		
Telephone No.	505-848-2974	Telefax No.	

Sampling Location: Albright 4 Drip

Sampler: R.B., R.D & R.H

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION		SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX-8021B									LAB ID
9912061257	MW-1	12/6/99	1257	H_2O	HCl	2	X									9912008-01A
9912061322	MW-2	12/6/99	1322	H_2O	HCl	2	X									-02A
991206 1340	MW-3	12/6/99	1340	H_2O	HCl	2	X									-03A
991206 1353	MW-4	12/6/99	1353	H_2O	HCl	2	X									-04A
991206 1415	MW-5	12/6/99	1415	H_2O	HCl	2	X									-05A

Relinquished by: Ray Haston	Date/Time 12-6-99 1504	Received by:	Date/Time 12/6/99 1504
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: Randall A Dedrick Date 12/6/99
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:
			Results to be sent to both parties.

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

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *22-Dec-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	9912008	**Client Sample ID:**	9912061257; MW-1
Lab ID:	9912008-01A **Matrix:** AQUEOUS	**Collection Date:**	12/6/1999 12:57:00 PM
Project:	Albright 4 Drip	**COC Record:**	7033

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	12/15/1999
Toluene	0.5	0.5		µg/L	1	12/15/1999
Ethylbenzene	ND	0.5		µg/L	1	12/15/1999
m,p-Xylene	ND	1		µg/L	1	12/15/1999
o-Xylene	ND	0.5		µg/L	1	12/15/1999

Qualifiers:

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

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *22-Dec-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	9912008	**Client Sample ID:**	9912061322; MW-2
Lab ID:	9912008-02A **Matrix:** AQUEOUS	**Collection Date:**	12/6/1999 1:22:00 PM
Project:	Albright 4 Drip	**COC Record:**	7033

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	170	0.5		µg/L	1	12/16/1999
Toluene	2.8	2.5		µg/L	5	12/15/1999
Ethylbenzene	39	0.5		µg/L	1	12/16/1999
m,p-Xylene	66	1		µg/L	1	12/16/1999
o-Xylene	1.5	0.5		µg/L	1	12/16/1999

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: *22-Dec-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	9912008	**Client Sample ID:**	9912061340; MW-3
Lab ID:	9912008-03A **Matrix:** AQUEOUS	**Collection Date:**	12/6/1999 1:40:00 PM
Project:	Albright 4 Drip	**COC Record:**	7033

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	12/15/1999
Toluene	0.6	0.5		µg/L	1	12/15/1999
Ethylbenzene	ND	0.5		µg/L	1	12/15/1999
m,p-Xylene	ND	1		µg/L	1	12/15/1999
o-Xylene	ND	0.5		µg/L	1	12/15/1999

Qualifiers:

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

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *22-Dec-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	9912008	**Client Sample ID:**	9912061353; MW-4
Lab ID:	9912008-04A **Matrix:** AQUEOUS	**Collection Date:**	12/6/1999 1:53:00 PM
Project:	Albright 4 Drip	**COC Record:**	7033

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	12/15/1999
Toluene	0.8	0.5		µg/L	1	12/15/1999
Ethylbenzene	ND	0.5		µg/L	1	12/15/1999
m,p-Xylene	1.1	1		µg/L	1	12/15/1999
o-Xylene	ND	0.5		µg/L	1	12/15/1999

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CHAIN OF CUSTODY RECORD

0501

ON SITE TECHNOLOGIES, LTD.

Date: _____ Page: 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.	
SEND INVOICE TO			
Name	**Denver Bearden**		
Company	**PNM Gas Services**	Dept.	**324-3763**
Address	**603 W. Elm Street**		
City, State, Zip	**Farmington, NM 87401**		

REPORT RESULTS TO			
Name	**Maureen Gannon**	Title	
Company	**PNM Gas Services**		
Mailing Address	**Alverado Square, Mail Stop 0408**		
City, State, Zip	**Albuquerque, NM 87158**		
Telephone No.	**505-848-2974**	Telefax No.	

Sampling Location:

Sampler:

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED									LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:	Rush	24-48 Hours	10 Working Days
Authorized by: _____ Date _____ (Client Signature Must Accompany Request)			Special Instructions: **Results to be sent to both parties.**

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

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *08-Mar-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0003006	**Client Sample ID:**	0003051332; MW-1
Lab ID:	0003006-01A **Matrix:** AQUEOUS	**Collection Date:**	3/5/2000 1:32:00 PM
Project:	Albright 4 Drip	**COC Record:**	8501

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	3/7/2000
Toluene	ND	0.5		µg/L	1	3/7/2000
Ethylbenzene	ND	0.5		µg/L	1	3/7/2000
m,p-Xylene	ND	1		µg/L	1	3/7/2000
o-Xylene	ND	0.5		µg/L	1	3/7/2000

Qualifiers:

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

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ANALYTICAL REPORT

Date: *08-Mar-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0003006	**Client Sample ID:**	0003051355; MW-2
Lab ID:	0003006-02A **Matrix:** AQUEOUS	**Collection Date:**	3/5/2000 1:55:00 PM
Project:	Albright 4 Drip	**COC Record:**	8501

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	26	0.5		µg/L	1	3/7/2000
Toluene	ND	0.5		µg/L	1	3/7/2000
Ethylbenzene	23	0.5		µg/L	1	3/7/2000
m,p-Xylene	63	1		µg/L	1	3/7/2000
o-Xylene	1.8	0.5		µg/L	1	3/7/2000

Qualifiers:

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

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *08-Mar-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0003006	**Client Sample ID:**	0003051410; MW-3
Lab ID:	0003006-03A **Matrix:** AQUEOUS	**Collection Date:**	3/5/2000 2:10:00 PM
Project:	Albright 4 Drip	**COC Record:**	8501

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	3/7/2000
Toluene	ND	0.5		µg/L	1	3/7/2000
Ethylbenzene	ND	0.5		µg/L	1	3/7/2000
m,p-Xylene	ND	1		µg/L	1	3/7/2000
o-Xylene	ND	0.5		µg/L	1	3/7/2000

Qualifiers:

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

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *08-Mar-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0003006	**Client Sample ID:**	0003051426; MW-4
Lab ID:	0003006-04A **Matrix:** AQUEOUS	**Collection Date:**	3/5/2000 2:26:00 PM
Project:	Albright 4 Drip	**COC Record:**	8501

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	3/7/2000
Toluene	ND	0.5		µg/L	1	3/7/2000
Ethylbenzene	1	0.5		µg/L	1	3/7/2000
m,p-Xylene	1.2	1		µg/L	1	3/7/2000
o-Xylene	ND	0.5		µg/L	1	3/7/2000

Qualifiers:

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

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- Technology Blending Industry with the Environment -

7388

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

Date: _____ Page: _____ of _____

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	**Farmington, NM 87401**	

REPORT RESULTS TO	Name	**Maureen Gannon**	Title
	Company	**PNM Gas Services**	
	Mailing Address	**Alverado Square, Mail Stop 0408**	
	City, State, Zip	**Albuquerque, NM 87158**	
	Telephone No.	**505-848-2974**	Telefax No.

Sampling Location:

Sampler:

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED									LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:	Rush	24-48 Hours	10 Working Days
Authorized by: _____ Date _____ (Client Signature Must Accompany Request)			Special Instructions: **Results to be sent to both parties.**

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

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

ON SITE TECHNOLOGIES, LTD.

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

ANALYTICAL REPORT

Date: *20-Jun-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0006020	**Client Sample ID:**	0006071157; MW-1
Lab ID:	0006020-01A **Matrix:** AQUEOUS	**Collection Date:**	6/7/2000 11:57:00 AM
Project:	Albright 4 Drip	**COC Record:**	7888

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	6/16/2000
Toluene	ND	0.5		µg/L	1	6/16/2000
Ethylbenzene	ND	0.5		µg/L	1	6/16/2000
m,p-Xylene	ND	1		µg/L	1	6/16/2000
o-Xylene	ND	0.5		µg/L	1	6/16/2000

Qualifiers:

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

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FAX: (505) 327-1496

ANALYTICAL REPORT

Date: *20-Jun-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0006020	**Client Sample ID:**	0006071212; MW-2
Lab ID:	0006020-02A **Matrix:** AQUEOUS	**Collection Date:**	6/7/2000 12:12:00 PM
Project:	Albright 4 Drip	**COC Record:**	7888

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	10	0.5		µg/L	1	6/13/2000
Toluene	ND	0.5		µg/L	1	6/13/2000
Ethylbenzene	9.3	0.5		µg/L	1	6/13/2000
m,p-Xylene	23	1		µg/L	1	6/13/2000
o-Xylene	0.8	0.5		µg/L	1	6/13/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
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E - Value above quantitation range
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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: *20-Jun-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0006020	**Client Sample ID:**	0006071226; MW-3
Lab ID:	0006020-03A **Matrix:** AQUEOUS	**Collection Date:**	6/7/2000 12:26:00 PM
Project:	Albright 4 Drip	**COC Record:**	7888

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	6/16/2000
Toluene	ND	0.5		µg/L	1	6/16/2000
Ethylbenzene	ND	0.5		µg/L	1	6/16/2000
m,p-Xylene	ND	1		µg/L	1	6/16/2000
o-Xylene	ND	0.5		µg/L	1	6/16/2000

Qualifiers:

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

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FAX: (505) 327-1496

ON SITE TECHNOLOGIES, LTD.

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

ANALYTICAL REPORT

Date: *20-Jun-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0006020	**Client Sample ID:**	0006071237; MW-4
Lab ID:	0006020-04A **Matrix:** AQUEOUS	**Collection Date:**	6/7/2000 12:37:00 PM
Project:	Albright 4 Drip	**COC Record:**	7888

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	6/16/2000
Toluene	ND	0.5		µg/L	1	6/16/2000
Ethylbenzene	ND	0.5		µg/L	1	6/16/2000
m,p-Xylene	ND	1		µg/L	1	6/16/2000
o-Xylene	ND	0.5		µg/L	1	6/16/2000

Qualifiers:

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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

ON SITE TECHNOLOGIES, LTD.

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

ANALYTICAL REPORT

Date: *20-Jun-00*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright 4 Drip
Work Order:	0006020	**Client Sample ID:**	0006071248; MW-5
Lab ID:	0006020-05A **Matrix:** AQUEOUS	**Collection Date:**	6/7/2000 12:48:00 PM
Project:	Albright 4 Drip	**COC Record:**	7888

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	6/16/2000
Toluene	1.5	0.5		µg/L	1	6/16/2000
Ethylbenzene	0.8	0.5		µg/L	1	6/16/2000
m,p-Xylene	ND	1		µg/L	1	6/16/2000
o-Xylene	ND	0.5		µg/L	1	6/16/2000

Qualifiers:

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- *TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT* -

Q.W.A.L. LABORATORIES, INC.

0010036

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: **FAX 1-316-232-7730 OR PHONE 1-316-232-1970**

AS PER CONTRACT

① Company Name: WILLIAMS
Attention: JIM STRUHS
Address: 187 C.R. 4980
BLOOMFIELD, NM 87413
City, State, Zip Code

④ Phone #: 505-632-4457
④ Fax #: 505-632-4405

⑬ TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☒ Standard ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

② Project Name or Number: SJA-GW SITES
⑤ Purchase Order #:

③ Sampling Personnel Signature(s): James P. Struhs
Sampling Personnel (print name): JAMES P. STRUHS

⑫ **ANALYSIS REQUEST**
(Write Tests Here)

⑥ Sample I.D.	Date ⑦	Time ⑦	⑧ Comp.	⑧ Grab	⑨ # of Containers	⑩ Method Preserved: H2SO4	HNO3	NAOH	HCL	Ice	None	⑪ Sample Matrix: Water	Soil	Air	Sludge	Other	BTEX 8020	REMARKS (If special detection limits are required please note below.)
RAN-UG-MW-1	9/27	1521			3				X			X					X	
RAN-SA-MW-2	9/27	1633			3				X			X					X	
RAN-DG-MW-3	9/27	1750			3				X			X					X	
ALB4-DG-MW-5	9/28	1325			3				X			X					X	
ALB4-SA-MW-2	9/28	1358			3				X			X					X	
ZAC-SA-MW-4	9/29	1601			3				X			X					X	
TRIP BLANK	9/21	—			1				X			X					X	

⑭	Date	Time
Relinquished By: James P. Struhs	10/2/00	08:00
Received By:		
Relinquished By:		
Received By:		
Relinquished By:		
Received By:		

⑮ PLEASE RETURN COOLER + FOAM
Send Report to:
Company: WILLIAMS
Attn: JIM STRUHS
Address: 187 C.R. 4980
City/State: BLOOMFIELD, NM 87413
Phone: 505-632-4457
Fax: 505-632-4405

⑯ Send Invoice to:
(if different form report address)
Company:
Attn:
Address:
City/State:
Phone:
Fax:

***FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.**

Sample ID: ALB4-DG-MW-5 **Sample Matrix:** WATER
Collection Date: 09/28/00 13:25:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BTEX	OA1/8021B			3.0		
BENZENE	71-43-2	ND	UG/L	1.0	10/05/00MB	
TOLUENE	108-88-3	13.80	UG/L	1.0	10/05/00MB	
ETHYLBENZENE	100-41-4	2.33	UG/L	1.0	10/05/00MB	
TOTAL XYLENES	1330-20-7	3.54	UG/L	1.0	10/05/00MB	
BFB (SURROGATE)	-	90.5	125	75		

Sample ID: ALB4-SA-MW-2 **Sample Matrix:** WATER
Collection Date: 09/28/00 13:58:00

TEST	METHOD-CAS #	RESULT	UNITS	PQL	ANALYZED	EXTRACTED
BTEX	OA1/8021B			3.0		
BENZENE	71-43-2	6.14	UG/L	1.0	10/06/00MB	
TOLUENE	108-88-3	26.20	UG/L	1.0	10/06/00MB	
ETHYLBENZENE	100-41-4	8.33	UG/L	1.0	10/06/00MB	
TOTAL XYLENES	1330-20-7	17.60	UG/L	1.0	10/06/00MB	
BFB (SURROGATE)	-	105	125	75		

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: **FAX 1-316-232-7730 OR PHONE 1-316-232-1970**

0012301

① Company Name: WILLIAMS
Attention: JIM STRUHS

④ Phone #: 505-632-4457

⑬ TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☒ Standard ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

Address: 187 C.R. 4980
BLOOMFIELD NM 87413
City, State, Zip Code

④ Fax #: 505-632-4405

⑫ **ANALYSIS REQUEST**
(Write Tests Here)

② Project Name or Number: WES / ALBRIGHT #4 DRIP

⑤ Purchase Order #: JPS-120800-01

③ Sampling Personnel Signature(s): James Struhs

Sampling Personnel (print name): JAMES STRUHS

⑥ Sample I.D.	Date ⑦	Time ⑦	⑧ Comp.	⑧ Grab	⑨ # of Containers	⑩ Method Preserved: H2S04	HN03	NAOH	HCL	Ice	None	⑪ Sample Matrix: Water	Soil	Air	Sludge	Other	BTEX	REMARKS (If special detection limits are required please note below.)
ALB4-SA-MW2	12/7	1522			2				X	X		X					X	
ALB4-DG-MW5	12/7	1539			2				X	X		X					X	

⑭ Relinquished By: [signature] Date 12/8/00 Time 1100
Received By: [signature] Date 12/9/00 Time 11:30
Relinquished By: Date Time
Received By: Date Time
Relinquished By: Date Time
Received By: Date Time

⑮ Send Report to:
Company: WILLIAMS
Attn: JIM STRUHS
Address: 187 C.R. 4980
City/State: BLOOMFIELD, NM 87413
Phone:
Fax:

⑯ Send Invoice to:
(if different form report address)
Company: MHE
Attn: JIM STRUHS
Address: 187 C.R. 4980
City/State: BLOOMFIELD, NM 87413
Phone:
Fax:

***FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.**

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012301

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD # 4980
BLOOMFIELD, NM 87413
JIM STRUHS

DATE REPORTED: 12/15/00
DATE COLLECTED: **12/07/00**
DATE RECEIVED: **12/09/00**

PROJECT: WES/ALBRIGHT #4 DRIP

Reference Fraction:0012301-01A
Sample ID: ALB4-SAMW2
Sample Date Collected: **12/07/0015:22:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		4.16	UG/L	1.0	12/16/00	TK
TOLUENE		1.56	UG/L	1.0	12/16/00	TK
ETHYLBENZENE		5.94	UG/L	1.0	12/16/00	TK
TOTAL XYLENES		2.24	UG/L	1.0	12/16/00	TK
BFB (SURROGATE)		115	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0012301

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD # 4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT #4 DRIP

DATE REPORTED: 12/15/00
DATE COLLECTED: **12/07/00**
DATE RECEIVED: **12/09/00**

Reference Fraction:0012301-02A
Sample ID: ALB4-DGMW5
Sample Date Collected: **12/07/0015:39:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		1.27	UG/L	1.0	12/12/00	TK
TOLUENE		ND	UG/L	1.0	12/12/00	TK
ETHYLBENZENE		ND	UG/L	1.0	12/12/00	TK
TOTAL XYLENES		2.01	UG/L	1.0	12/12/00	TK
BFB (SURROGATE)		89.9	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

Q.W.A.L. LABORATORIES, INC.

Established 1976

2911 Rotary Terrace • Pittsburg, Kansas 66762

TO ORDER: **FAX 1-316-232-7730 OR PHONE 1-316-232-1970**

0103421

① Company Name: Williams

Attention: Jim Struns

④ Phone #: 505-632-4457

Address: 187 C.R. 4980

Bloomfield N.M. 87413

City, State, Zip Code

④ Fax #: 505-632-4405

⑬ TURNAROUND TIME REQUESTED (Additional Charges May Apply)

☑ Standard ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ SameDay

* Note - Please contact lab for availability of priority service.

② Project Name or Number: WES/ Albright #4 Drip

⑤ Purchase Order #: SWA-031501-01

③ Sampling Personnel Signature(s): Steve Archuleta

Sampling Personnel (print name): Steve Archuleta

⑫ ANALYSIS REQUEST

(Write Tests Here)

⑥ Sample I.D.	Date ⑦	Time ⑦	⑧ Comp.	⑧ Grab	⑨ # of Containers	⑩ Method Preserved: H2S04	HN03	NAOH	HCL	Ice	None	⑪ Sample Matrix: Water	Soil	Air	Sludge	Other	BTEX	REMARKS (If special detection limits are required please note below.)
ALB4-DA-MW3	3/15	12:35			2				✓	✓		✓					✓	
ALB4-UA-MW1	3/15	12:09			2				✓	✓		✓					✓	
ALB4-SA-MW2	3/15	12:14			2				✓	✓		✓					✓	
ALB4-DA-MW5	3/15	12:24			2				✓	✓		✓					✓	
ALB4-DA-MW4	3/15	12:29			2				✓	✓		✓					✓	

⑭ Relinquished By: Steve Archuleta — Date: 3-15-01 — Time: 13:41

Received By: Sue Robinson — Date: 3/16/01 — Time: 10:00

Relinquished By: — Date: — Time:

Received By: — Date: — Time:

Relinquished By: — Date: — Time:

Received By: — Date: — Time:

⑮ Send Report to:

Company: Williams

Attn: Jim Struns

Address: 187 C.R. 4980

City/State: Bloomfield N.M. 87413

Phone:

Fax:

⑯ Send Invoice to:

(if different form report address)

Company: MHE

Attn: Jim Struns

Address: 187 C.R. 4980

City/State: Bloomfield N.M. 87413

Phone:

Fax:

***FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.**

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0103421

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT #4 DRIP

DATE REPORTED: 03/21/01
DATE COLLECTED: **03/15/01**
DATE RECEIVED: **03/16/01**

Reference Fraction:0103421-01A
Sample ID: ALB4-DG-MW3
Sample Date Collected: **03/15/0112:35:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	03/19/01	MB
TOLUENE		ND	UG/L	1.0	03/19/01	MB
ETHYLBENZENE		ND	UG/L	1.0	03/19/01	MB
TOTAL XYLENES		ND	UG/L	1.0	03/19/01	MB
BFB (SURROGATE)		101	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0103421

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT #4 DRIP

DATE REPORTED: 03/21/01
DATE COLLECTED: **03/15/01**
DATE RECEIVED: **03/16/01**

Reference Fraction:0103421-02A
Sample ID: ALB4-UG-MW1
Sample Date Collected: **03/15/0112:09:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	03/19/01	MB
TOLUENE		ND	UG/L	1.0	03/19/01	MB
ETHYLBENZENE		ND	UG/L	1.0	03/19/01	MB
TOTAL XYLENES		ND	UG/L	1.0	03/19/01	MB
BFB (SURROGATE)		96	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0103421

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT #4 DRIP

DATE REPORTED: 03/21/01
DATE COLLECTED: **03/15/01**
DATE RECEIVED: **03/16/01**

Reference Fraction:0103421-03A
Sample ID: ALB4-SA-MW2
Sample Date Collected: **03/15/0112:14:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		3.29	UG/L	1.0	03/19/01	MB
TOLUENE		21.7	UG/L	1.0	03/19/01	MB
ETHYLBENZENE		3.47	UG/L	1.0	03/19/01	MB
TOTAL XYLENES		8.90	UG/L	1.0	03/19/01	MB
BFB (SURROGATE)		117	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0103421

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT #4 DRIP

DATE REPORTED: 03/21/01
DATE COLLECTED: **03/15/01**
DATE RECEIVED: **03/16/01**

Reference Fraction:0103421-04A
Sample ID: ALB4-DG-MW5
Sample Date Collected: **03/15/0112:24:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	03/19/01	MB
TOLUENE		19.4	UG/L	1.0	03/19/01	MB
ETHYLBENZENE		5.28	UG/L	1.0	03/19/01	MB
TOTAL XYLENES		3.58	UG/L	1.0	03/19/01	MB
BFB (SURROGATE)		115	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0103421

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS

DATE REPORTED: 03/21/01
DATE COLLECTED: **03/15/01**
DATE RECEIVED: **03/16/01**

PROJECT: WES/ALBRIGHT #4 DRIP

Reference Fraction:0103421-05A
Sample ID: ALB4-DG-MW4
Sample Date Collected: **03/15/0112:29:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	03/19/01	MB
TOLUENE		ND	UG/L	1.0	03/19/01	MB
ETHYLBENZENE		ND	UG/L	1.0	03/19/01	MB
TOTAL XYLENES		ND	UG/L	1.0	03/19/01	MB
BFB (SURROGATE)		108	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TERRY KOESTER

TERRY KOESTER
LABORATORY DIRECTOR

Q.W.A.L. LABORATORIES, INC.

Established 1976
2911 Rotary Terrace • Pittsburg, Kansas 66762
TO ORDER: **FAX 1-316-232-7730 OR PHONE 1-316-232-1970**

207

① Company Name: Williams
Attention: Jim Struns
Address: 187 C.R. 4980
Bloomfield N.M. 87413
City, State, Zip Code

④ Phone #: 505-632-4457
④ Fax #: 505-632-4405

② Project Name or Number: WES/ Albright 4 Drip
⑤ Purchase Order #: SWA-050701-03

③ Sampling Personnel Signature(s): Steve Archuleta
Sampling Personnel (print name): Steve Archuleta

⑬ TURNAROUND TIME REQUESTED (Additional Charges May Apply)
☒ Standard ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ SameDay
* Note - Please contact lab for availability of priority service.

⑫ **ANALYSIS REQUEST**
(Write Tests Here)

⑥ Sample I.D.	Date ⑦	Time ⑦	⑧ Comp.	⑧ Grab	⑨ # of Containers	⑩ Method Preserved: H2S04	HN03	NAOH	HCL	Ice	None	⑪ Sample Matrix: Water	Soil	Air	Sludge	Other	BTEX	REMARKS (If special detection limits are required please note below.)
ALB4-SA-MW2	5/4	1443			2				✓	✓		✓					✓	
ALB4-UG-MW1	5/4	1438			2				✓	✓		✓					✓	
ALB4-DG-MW3	5/4	1455			2				✓	✓		✓					✓	
ALB4-DG-MW4	5/4	1454			2				✓	✓		✓					✓	
ALB4-CG-MW5	5/4	1447			2				✓	✓		✓					✓	

Please return cooler & packing material
Thank you.

⑭ Relinquished By: Steve Archuleta — Date: 5-7-01 — Time: 11:19
Received By: [signature] — Date: 5/8/01 — Time: 10:00
Relinquished By: — Date: — Time:
Received By: — Date: — Time:
Relinquished By: — Date: — Time:
Received By: — Date: — Time:

⑮ Send Report to:
Company: Williams
Attn: Jim Struns
Address: 187 C.R. 4980
City/State: Bloomfield N.M. 87413
Phone:
Fax:

⑯ Send Invoice to:
(if different form report address)
Company: MHE
Attn: Jim Struns
Address: 187 C.R. 4980
City/State: Bloomfield N.M. 87413
Phone:
Fax:

***FAILURE TO COMPLETE THIS FORM MAY DELAY LABORATORY RESULTS.**

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0105207

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT 4 DRIP

DATE REPORTED: 05/15/01
DATE COLLECTED: **05/04/01**
DATE RECEIVED: **05/08/01**

Reference Fraction:0105207-01A
Sample ID: ALB4-SA-MW2
Sample Date Collected: **05/04/0114:43:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/09/01	MB
TOLUENE		17.0	UG/L	1.0	05/09/01	MB
ETHYLBENZENE		1.57	UG/L	1.0	05/09/01	MB
TOTAL XYLENES		5.50	UG/L	1.0	05/09/01	MB
BFB (SURROGATE)		112	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0105207

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT 4 DRIP

DATE REPORTED: 05/15/01
DATE COLLECTED: **05/04/01**
DATE RECEIVED: **05/08/01**

Reference Fraction:0105207-02A
Sample ID: ALB4-UG-MW1
Sample Date Collected: **05/04/0114:38:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/09/01	MB
TOLUENE		ND	UG/L	1.0	05/09/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/09/01	MB
TOTAL XYLENES		ND	UG/L	1.0	05/09/01	MB
BFB (SURROGATE)		102	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0105207

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT 4 DRIP

DATE REPORTED: 05/15/01
DATE COLLECTED: **05/04/01**
DATE RECEIVED: **05/08/01**

Reference Fraction:0105207-03A
Sample ID: ALB4-DG-MW3
Sample Date Collected: **05/04/0114:55:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/09/01	MB
TOLUENE		ND	UG/L	1.0	05/09/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/09/01	MB
TOTAL XYLENES		ND	UG/L	1.0	05/09/01	MB
BFB (SURROGATE)		97	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0105207

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT 4 DRIP

DATE REPORTED: 05/15/01
DATE COLLECTED: **05/04/01**
DATE RECEIVED: **05/08/01**

Reference Fraction:0105207-04A
Sample ID: ALB4-DG-MW4
Sample Date Collected: **05/04/0114:54:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		1.27	UG/L	1.0	05/09/01	MB
TOLUENE		5.08	UG/L	1.0	05/09/01	MB
ETHYLBENZENE		ND	UG/L	1.0	05/09/01	MB
TOTAL XYLENES		4.63	UG/L	1.0	05/09/01	MB
BFB (SURROGATE)		108	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

Q W A L L A B O R A T O R I E S, I N C.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT: **REFERENCE #:** 0105207

SENT TO: ***WILLIAMS GAS PIPELINE***
187 COUNTY ROAD #4980
BLOOMFIELD, NM 87413
JIM STRUHS
PROJECT: WES/ALBRIGHT 4 DRIP

DATE REPORTED: 05/15/01
DATE COLLECTED: **05/04/01**
DATE RECEIVED: **05/08/01**

Reference Fraction:0105207-05A
Sample ID: ALB4-CG-MW5
Sample Date Collected: **05/04/0114:47:00**

Sample Matrix: WATER

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
BTEX	OA1/8021B			3.0		
BENZENE		ND	UG/L	1.0	05/09/01	MB
TOLUENE		29.1	UG/L	1.0	05/09/01	MB
ETHYLBENZENE		3.92	UG/L	1.0	05/09/01	MB
TOTAL XYLENES		3.92	UG/L	1.0	05/09/01	MB
BFB (SURROGATE)		107	125	75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: _____
TERRY KOESTER
LABORATORY DIRECTOR

District I
P O Box 1980, Hobbs, NM

District II
Drawer DD, Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (WFS) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Albright # 4 Drip

Location: Unit: F Sec. 22 T. 29 N R. 10 W County San Juan

Pit Type: Separator ___ Dehydrator ___ Other Drip

Land Type: BLM X State ___ Fee ___ Other ___

Pit Location: Pit dimensions: length 15' width 15' depth 3'

(Attach diagram) Reference: wellhead X other ___

Footage from reference: 270'

Direction from reference: 20° Degrees ___ East North X of

X West South ___

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (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 No	(20 points) (0 points)	0
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	0

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 6-17-99 **Date Completed:** 6-23-99

Remediation Method: Excavation X Approx. Cubic Yard 5300

(Check all appropriate sections) Landfarmed _____ Amount Landfarmed (cubic yds) _____

Other Tierra Environmental

Remediation Location: Onsite _____ Offsite Tierra Environmental

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

Backfill Material Location: _____

General Description of Remedial Action:

Excavated pit 90' x 106' x 15'

Ground Water Encountered: No _____ Yes X Depth 15'

Final Pit Closure Sampling: Sample Location middle of pit

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

Sample depth 15'

Sample date 6/18/99 Sample time 0700

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) _____

TPH _____ Method _____

Vertical Extent (ft) _____ Risk Assessment form attached Yes _____ No _____

Ground Water Sample: Yes X No _____ (If yes, attach sample results)

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

DATE 6/23/99

SIGNATURE [signature]

PRINTED NAME AND TITLE Denver Bearden, Administrator III

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *01-Jul-99*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Albright #4 Drip
Work Order:	9906065	**Client Sample ID:**	9906180700
Lab ID:	9906065-01A **Matrix:** AQUEOUS	**Collection Date:**	6/18/99 7:00:00 AM
Project:	Albright #4 Drip	**COC Record:**	7608

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	610	10		µg/L	20	6/28/99
Toluene	410	10		µg/L	20	6/28/99
Ethylbenzene	200	10		µg/L	20	6/28/99
m,p-Xylene	1700	20		µg/L	20	6/28/99
o-Xylene	350	10		µg/L	20	6/28/99

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

7608

CHAIN OF CUSTODY RECORD

Date: 6/18/99

Page: 1 of 1

ON SITE TECHNOLOGIES, LTD.
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	Farmington, NM 87401		

REPORT RESULTS TO

Name	Maureen Gannon	Title	
Company	PNM Gas Services		
Mailing Address	Alverado Square, Mail Stop 0408		
City, State, Zip	Albuquerque, NM 87158		
Telephone No.	505-848-2974	Telefax No.	

Sampling Location: Albright #4 Drip

Sampler: Gary Cook

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX-8021B									LAB ID
9906180700	6/18/99	0700	~~Soil~~ HLD	HCL		X									99D6045-01A

Relinquished by: Gary Cook 6/18/99	Date/Time 1205	Received by:	Date/Time 6/18/99 1205
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Rush	24-48 Hours	10 Working Days	Special Instructions:
	X		Results to be sent to both parties.

Authorized by: Gary Cook Date 6/18/99
(Client Signature Must Accompany Request)

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

Excavation Work Sheet

PNM Environmental Services

Date	Name
6-17-99	Gary Cook

Well Name	Operator	S	T	R	Ul
Albright #4 Drip	WFS	22	29N	10W	F

Pit Dimensions at Start	Excavation Dimensions at End
15X15X3	90X106X15

Excavated Cu. Yds.	Overburden Cu. Yds.	Spoil Cu. Yds.
5300	3260	2040

PIT PID READINGS

Feet	Center	Soil Type
5'	687	BLK/GRY sand
10'	540	GRY sand
15'		water
20'		
25'		

hauled 1700 yds back. 11 back from Tiron MC

Composite Sample # (Walls):	~~[illegible]~~
Composite Sample # (Bottom):	~~[illegible]~~ 990618 0700 H2O

Location	Depth	PID Reading
North Wall		
South Wall		
East Wall		
West Wall		
Pit Bottom		

Land Farm Location: Albright #4

Field Notes: At 15' depth have clean sand & water started seeping into pit. Notified Manager about with location. Contacted Tom McMalla (WFS) requested switch on location to blowdown drip line. will need to dig south of line. 1030 hrs WFS switch (Dink) have to install drip. Contacted El Paso to mark their line on right of way called BR Jose Chavez to mark their line on right of way.

Land owner: Raymond Stiffler. No water well, on city H2O

1400 called Phil Noblis (Tierra Environ.)
gave him legals & name & advised we would
start hauling tomorrow morning from Albright #4 Dump
to him & request clean backfill to be
hauled back on trucks from him.

6/18/99 Dissin on West wall. Hit water line (city)
to Stiffler house. Repaining water line

Water line was not marked. Line was put in
by landlord.
Line repaired by Blanco Water dept. (Al Sanchez)

Meridian came out & spotted lines in right of way
Requested they be present Monday 6/21/99 when we
dig south

N, E & W walls all clean
Have 5 trucks hauling spoil to Tierra & clean backfill
back

6/21/99 Trucks still hauling to Tierra
Backfilling pit as possible and building beds
to hold up drip line and water line to
keep them from falling in.
Called Jose Chavez (BR) need pipeline respotted.
Exposed BR 2" gas line & they marked 6" line
in pipeline right of way. (Dick Dickens, OA)

6-22-99

1400 has finished excavation, all walls clean

Unlined Surface Impoundment Assessment Form

Site Information:

Well Name:	Albright #4 Drip
Operator:	WFS
Legal Description: Sec	22
Twn	29N
Rng	10W
Unit	F

Vulnerable Area: ☐ Original ☐ Expanded ☒ Extended ☐ Other _____

Date: 6/17/99
Time: 0700 (AM) PM

Well Pad Dimensions: L _____ W _____

Data Sheet #: _____

Canyon: Slane Canyon
Quad Map (#): _____

County: San Juan
Run #: 10-72

Pit Information:

PNM Pit: ☒ Yes ☐ No
☒ Active ☐ SAT
☐ Abandoned ☐ Inaccessible
L 15 W 15 D 3

PNM Equipment: ☒ Yes ☐ No
Tank Set: ☐ Yes ☒ No
Discharges to Pit: ☐ SEP ☐ DH ☒ DR ☐ None

Ref: WH ☒ Other _____
Distance from Ref. 270'
Degrees: 20° W of N

OVM 687 ppm
Testhole Depth 5'
Soil Desc. BLK/GRY

Lab Sample: ☐ Yes ☐ No Sample #(s): _____ COC#: _____

Geographical:

Geology: ☐ SS ☐ Clay ☒ Sand ☐ Outcrop ☐ Rock ☐ Gravel ☐ Cliffs ☐ Silt ☐ Other _____

Terrain: ☐ Mesa Top ☒ Trailing Slope ☐ River Bottom ☐ Other _____

Land Use: ☒ Grazing ☒ Residential ☐ Recreation ☐ Other _____

Land Type: ☒ BLM ☐ State ☐ Fee ☐ Other _____

Vegetation: Well Pad ☒ Normal ☐ Stressed ☐ None; Area ☒ ☐ ☐

Ranking:

Depth to Groundwater:
(Vertical distance from contaminants to seasonal high water elevation of groundwater)
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) — 0

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) — 0

Distance to Ephemeral Stream (dry wash):
(Horizontal distance to all downgradient streams having a width of at least 10 feet) ***Jicarilla only***
Less than or equal to 100 feet (10 points)
Greater than 100 feet (0 points) — _____

Distance to Nearest Lake, Playa, or Watering Pond:
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds) ***Jicarilla only***
Less than or equal to 100 feet (10 points)
Greater than 100 feet (0 points) — _____

General Comments: _____

Assessor's Signature: [signature] Date: 6/17/99

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 328-2262 FAX (505) 328-2388

Borehole # 1
Well # MW1
Page 1 of 2

Project Name PNM WELL INSTALLATION
Project Number 21300 Phase 6.001
Project Location ALBRIGHT #4 DRIP

Elevation
Borehole Location ALBRIGHT #4 DRIP S22, T29N R10W
GWL Depth 13.35' 10:10am
Logged By C. CULLICOTT
Drilled By R. PADILLA & D. PADILLA
Date/Time Started 7/27/99 7:50am
Date/Time Completed 7/27/99 9:20am

Well Logged By C. CULLICOTT
Personnel On-Site R. PADILLA, D. PADILLA
Contractors On-Site
Client Personnel On-Site GARY COOK

Drilling Method AUGER
Air Monitoring Method PID

Depth (Feet)		Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0				SURFACE: SAND						
5	1			(1) SILTY SAND, MODERATE CONSOLIDATION, GRAY, DAMP			Ø		Ø	SS = Ø 13 BLOWS
10	2			(2) SILTY sand, Consolidated, damp, giving way to Loose sand @ 11'. Fine to coarse sand, angular ~~to~~			Ø		Ø	SS = Ø 17 BLOWS
15	3									
20				(3) WET S~~AND~~, ~~GRAY~~ with ~1" of HC stain @ ~15', right @ TOP OF WATER TABLE			Ø			
25				[redacted]						
30				DRILLER SAYS HE HIT SANDSTONE AT 20' & WAS ABLE TO DRILL THROUGH IT TO 25'. SS CUTTINGS - GRAY w/ MEDIUM CLAY CONTENT, STICKY						
35										
40				TD 25'						

Comments: MOSTLY OVERCAST, COOL. SITE IS IN OUTWASH AREA OF A SMALL SIDE DRAINAGE TO SLANE CANYON.

Geologist Signature Cathy Cullicott

5/6/99\Drillog.xls

MONITORING WELL INSTALLATION RECORD

Philip Environmental Services Corp.
1000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # 1
Well # MW 1
Page 2 of 2

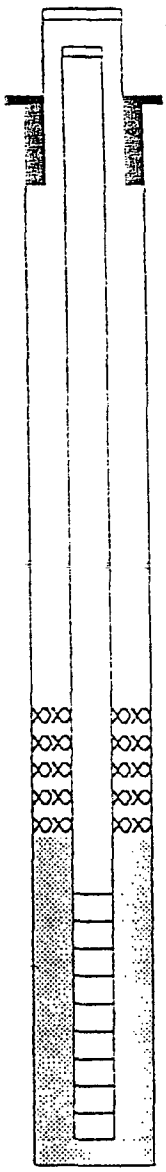
Project Name PNM WELL INSTALLATION
Project Number 21300 Phase 6001
Project Location ALBRIGHT #4 DRIP

On-Site Geologist C. CULLICOTT
Personnel On-Site K. PADILLA, D. PADILLA
Contractors On-Site
Client Personnel On-Site GARY COOK

Elevation
Well Location S22 T29N R10W, F
GWL Depth ~~[illegible]~~ 13.35'
Installed By K. PADILLA, D. PADILLA
Date/Time Started 7/27/99 7:50am
Date/Time Completed 7/27/99 9:20am

Depths in Reference to Ground Surface

Item	Material	Depth
Top of Protective Casing		
Bottom of Protective Casing		
Top of Permanent Borehole Casing		
Bottom of Permanent Borehole Casing		
Top of Concrete		
Bottom of Concrete		
Top of Grout		GS
Bottom of Grout		5'
Top of Well Riser		
Bottom of Well Riser		
Top of Well Screen		10'
Bottom of Well Screen		25'
Top of Peltonite Seal		5'
Bottom of Peltonite Seal		7'
Top of Gravel Pack		7'
Bottom of Gravel Pack		25'
Top of Natural Cave-In		
Bottom of Natural Cave-In		
Top of Groundwater		
Total Depth of Borehole		25'



Top of Protective Casing
Top of Riser
Ground Surface GS
GROUT
Top of Seal 5'
Top of Gravel Pack 7'
Top of Screen 10'
Bottom of Screen 25'
Bottom of Borehole 25'

Comments:

Geologist Signature Cathy Cullicott

RECORD OF SUBSURFACE EXPLORATION

Borehole # 2
Well # MW 2
Page 1 of 2

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name: PNM WELL INSTALLATION
Project Number: 21300 Phase: 0001
Project Location: ALBRIGHT #4 DRIP

Elevation:
Borehole Location: S 22 T 29 N R 10 W, F
GWL Depth: 18.25 TOC + 2.86 from G.C. = 15.39'
Logged By: C. CULLICOTT
Drilled By: K. PADILLA, D. PADILLA
Date/Time Started: 7/27/99 9:20am
Date/Time Completed: 7/27/99 10:40am

Well Logged By: C. CULLICOTT
Personnel On-Site: K. PADILLA, D. PADILLA
Contractors On-Site:
Client Personnel On-Site: GARY COOK
Drilling Method: AUGER
Air Monitoring Method: PID

Depth (Feet)		Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0				SURFACE: SAND						
				0-15' BACKFILL, CLEAN						
5										
10										
15				@ ~15½-16' 6" of strongly HC CONTAMINATED SAND + GRAVEL, DAMP						
20				BELOW IN TO ORANGEISH CLEAN SILTY SAND, SLIGHTLY DAMP, WITH SMALL PATCHES OF CLEAN QUARTZ						
25										
30				SAND. CONSOLIDATED, STIFF						
35				@17½' INTO BEDROCK, FINE SANDSTONE, GRAY, SOLID. NOTHING THIS HARD IN BOREHOLE #1						
40				TD 18'4"						

TD 18'4"

Comments: CLEARING, LIGHT BREEZE, COOL. THIS SITE IS ALSO IN THE SLANE CANYON

Geologist Signature: Cathy Cullicott

5/6/99\Drillog.xls

IONITORING WELL INSTALLATION RECORD

lilip Environmental Services Corp.
300 Monroe Road
armington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # 2
Well # MW2
Page 2 of 2

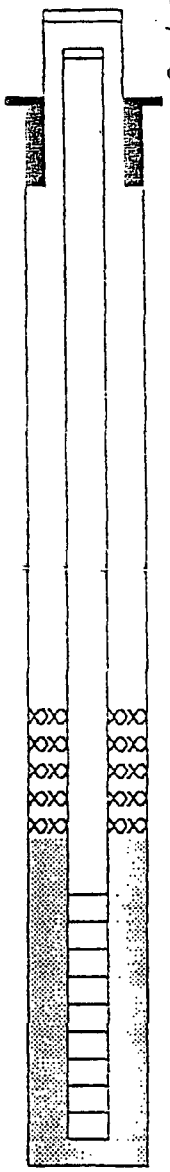
Project Name PNM ~~MONITOR~~ WELL INSTALLATION
Project Number 21300 Phase 6001
Project Location ALBRIGHT #4 DRIP

On-Site Geologist C. CULLICOTT
Personnel On-Site K. PADILLA, D. PADILLA
Contractors On-Site
Client Personnel On-Site GARY COOK

Elevation
Well Location 3 22 T29N R10W, F
SWL Depth 18.25 TOC 2.86 = 15.39'
nstalled By D. PADILLA + K. PADILLA
Date/Time Started 7/27/99 9:20am
Date/Time Completed 7/27/99 10:40am

Depths in Reference to Ground Surface

Item	Material	Depth
Top of Protective Casing		
Bottom of Protective Casing		
Top of Permanent Borehole Casing		
Bottom of Permanent Borehole Casing		
Top of Concrete		
Bottom of Concrete		
Top of Grout		
Bottom of Grout		
Top of Well Riser		
Bottom of Well Riser		
Top of Well Screen		
Bottom of Well Screen		
Top of Peltonite Seal		GS
Bottom of Peltonite Seal		1'4"
Top of Gravel Pack		1'4"
Bottom of Gravel Pack		18'4"
Top of Natural Cave-In		
Bottom of Natural Cave-In		
Top of Groundwater		
Total Depth of Borehole		18'4"



Top of Protective Casing
Top of Riser
Ground Surface

NO GROUT - NO ROOM

Top of Seal GS
Top of Gravel Pack 1'4"
Top of Screen 3'4"
Bottom of Screen
Bottom of Borehole 18'4"

Comments:

Geologist Signature Cathy Cullicott

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # 1
Well # MW-3
Page 1 of 2

Project Name: PNM WELL INSTALLATION
Project Number: 21300 Phase: 6001
Project Location: ALBRIGHT #4 DRIP

Elevation:
Borehole Location: ON YESTERDAY'S LOG
GWL Depth: 9.87 - TOC 2.7 = 7.17'
Logged By: C. CULLICOTT
Drilled By: K. PADILLA, D. PADILLA
Date/Time Started: 7/28/99 10:50am
Date/Time Completed: 7/28/99 11:45am

Well Logged By: C. CULLICOTT
Personnel On-Site: K. PADILLA, D. PADILLA
Contractors On-Site:
Client Personnel On-Site: GARY COOK, PAUL JANKOWSKI - ECOSPHERE
Drilling Method: AUGER
Air Monitoring Method: PID

Depth (Feet)		Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0				SURFACE: SAND						
5	1			① CLEAN SAND, UNCONSOLIDATED, MIXTURE FINE-MEDIUM LIGHT BROWN.					Ø	SS = Ø 6 BLOWS
10	2			② WET SAND STARTING ~10'1/2. COARSE TO MEDIUM WITH SCATTERED GRAVEL, ANGULAR TO SUBROUNDED.						15 BLOWS
15				HIT SANDSTONE @ 15' TD 15'						
20										
25										
30										
35										
40										

Comments: TODAY'S WORK IS COVERED BY YESTERDAY'S ITA FOR THIS [redacted] SITE. SUNNY, WARM

Geologist Signature: Cathy Cullicott

ONITORING WELL INSTALLATION RECORD

ilip Environmental Services Corp.
00 Monroe Road
rmington, New Mexico 87401
061 326-2262 FAX (5061 326-2388

Borehole # 1
Well # MW 3
Page 2 of 2

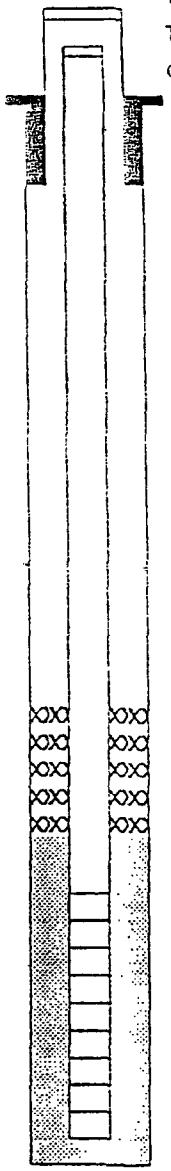
Project Name PNM WELL INSTALLATION
Project Number 21300 Phase 6.001
Project Location ALBRIGHT #4 DRIP

On-Site Geologist C. CULLICOTT
Personnel On-Site D. PADILLA, K PADILLA
Contractors On-Site
Client Personnel On-Site GARY COOK, PAUL JANKOWSKI, ECOSPHERE

Elevation
Well Location
SWL Depth 9.87'-TOC 2.7 = 7.17'
Installed By K. PADILLA, D PADILLA
Date/Time Started 7/28/99 10:50am
Date/Time Completed 7/28/99 11:45am

Depths in Reference to Ground Surface

Item	Material	Depth
Top of Protective Casing		2.8'
Bottom of Protective Casing		GS
Top of Permanent Borehole Casing		
Bottom of Permanent Borehole Casing		
Top of Concrete		
Bottom of Concrete		
Top of Grout		
Bottom of Grout		
Top of Well Riser		GS
Bottom of Well Riser		5'
Top of Well Screen		5'
Bottom of Well Screen		15'
Top of Peltonite Seal		GS
Bottom of Peltonite Seal		3'
Top of Gravel Pack		3'
Bottom of Gravel Pack		15'
Top of Natural Cave-In		
Bottom of Natural Cave-In		
Top of Groundwater		7.17'
Total Depth of Borehole		15'



Top of Protective Casing	2.8'
Top of Riser	2.7'
Ground Surface	0'
Top of Seal	GS
Top of Gravel Pack	3'
Top of Screen	5'
Bottom of Screen	15'
Bottom of Borehole	15'

Comments: MW 1 & MW 2 ON THIS SITE: MW 1 Top of Protective casing: 3.1'
MW 2 " 2.8'

Geologist Signature Cathy Cullicott

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2282 FAX (505) 326-2388

Borehole # 2
Well # MW 21
Page 1 of

Project Name PNM WELL INSTALLATION
Project Number 21300 Phase 6001
Project Location ALBRIGHT #4 DRIP

Elevation
Borehole Location
GWL Depth 11.39 - TOC 3.0 = 8.39'
Logged By C. CULLICOTT
Drilled By K. PADILLA, D. PADILLA
Date/Time Started 7/28/99 ~~11:50am~~ 1pm
Date/Time Completed 7/28/99 2pm

Well Logged By C. CULLICOTT
Personnel On-Site K. PADILLA & D. PADILLA
Contractors On-Site
Client Personnel On-Site GARY COOK, PAUL SANKOWSKI, ECOSPHERE
Drilling Method AUGER
Air Monitoring Method PID

Depth (Feet)		Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0										
5	1			① CLEAN TAN SAND, DRY, LOOSE, FINE-MEDIUM, ANGULAR.						SS Ø 10 BLOWS
10	2			② SATURATED SAND, CLEAN @ top of SPLIT SPOON COARSE SAND, FINER @ BOTTOM OF SPLIT SPOON, ~9' @ 11' OF MORE CLAY-RICH SAND & PEBBLES						15 BLOWS
15										
20										
25				@ 15' HIT SANDSTONE. TD 15'						
30										
35										
40										

Comments: SUNNY, WARM, LIGHT BREEZE

Geologist Signature Cathy Cullicott

MONITORING WELL INSTALLATION RECORD

Tulip Environmental Services Corp.
000 Monroe Road
armington, New Mexico 87401
5061 326-2262 FAX (505) 326-2388

Borehole # 2
Well # MW4
Page 2 of 2

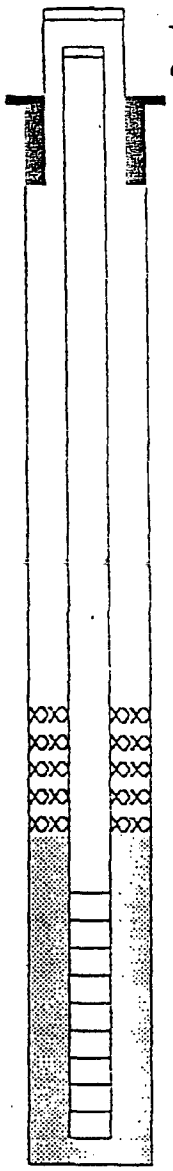
Project Name PNM WELL INSTALLATION
Project Number 21300 Phase 6001
Project Location ALBRIGHT #4 DRIP

On-Site Geologist C. CULLICOTT
Personnel On-Site E. PADILLA, D. PADILLA
Contractors On-Site
Client Personnel On-Site GARY COOK
PAUL JANKOWSKY, ECOSPHERE

Elevation
Well Location
GWL Depth 11.39 - 3 TOC = 8.39'
Installed By E. PADILLA, D. PADILLA
Date/Time Started 7/28/99 1pm
Date/Time Completed 7/28/99 2pm

Depths in Reference to Ground Surface

Item	Material	Depth
Top of Protective Casing		
Bottom of Protective Casing		
Top of Permanent Borehole Casing		
Bottom of Permanent Borehole Casing		
Top of Concrete		
Bottom of Concrete		
Top of Grout		
Bottom of Grout		
Top of Well Riser		GS
Bottom of Well Riser		5'
Top of Well Screen		5'
Bottom of Well Screen		15'
Top of Peltonite Seal		GS
Bottom of Peltonite Seal		2'
Top of Gravel Pack		2'
Bottom of Gravel Pack		15'
Top of Natural Cave-In		
Bottom of Natural Cave-In		
Top of Groundwater		8.39'
Total Depth of Borehole		15'



Top of Protective Casing	+3.2
Top of Riser	+3.0
Ground Surface	GS
Top of Seal	GS
Top of Gravel Pack	2'
Top of Screen	5'
Bottom of Screen	15'
Bottom of Borehole	15'

Comments:

Geologist Signature Cathy Cullicott

RECORD OF SUBSURFACE EXPLORATION

HILIP SERVICES CORP.
00 Monroe Road
armington, New Mexico 87401
05) 326-2262 FAX (505) 326-2388

Borehole #
Well # MW-5
Page 1 of 2

Project Number 62800161 Phase
Project Name PNM Drilling + Investigation
Project Location San Juan County, NM
S: 22 T29N, R10W
Weather: Sunny, cool, dry, ≈ 50°F ↑.
Client Personnel: Roy Burnham
Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Elevation 5597' GL
Borehole Location Albright #4 Drip
GWL Depth -10.15' BGS
Drilled By R. Padilla
Well Logged By S. Stellavato
Date Started 4/12/00 0815
Date Completed 4/12/00 0845

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ	BH	S	Drilling Conditions & Blow Counts
0				Light-brown (+) Silt and (-) Clay. Some Lithics, dry.						
5				CORING:						
	1	5'-7'	18"	Light-brown (+) Silt and Some (-) Clay. Minor Lithics. Competent core.						16-counts 8.6 PPM
10										
	2	10'-12'	18"	Light-brown fine (+) SAND and (-) Silt. Large Lithics. Wet at 11' BGS.						6-counts 8.4 PPM
15										
	3	15'-17'	24"	Light-brown Medium (+) Sand and coarse (-) Lithics. Wet. GWL = 10.15' BGS. Solid Clay At 17' BGS.						14-counts 6.5 PPM
20				TOTAL Depth of Well is 15 feet BGS.						
25										
30										
35										
40										

Comments: Collected samples for head-space analysis by splitting core and placing in ziplock and testing them using PID.

(+) = larger %
(-) = smaller %
BGS = Below ground surface.

Geologist Signature Stephen Stellavato

12/18/97\Drillog

MONITOR WELL INSTALLATION FORM

Philip Services Corp.
4000 Monroe Rd.
Farmington, NM 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # [redacted]
Well # [redacted]-5
Page 2 of 2

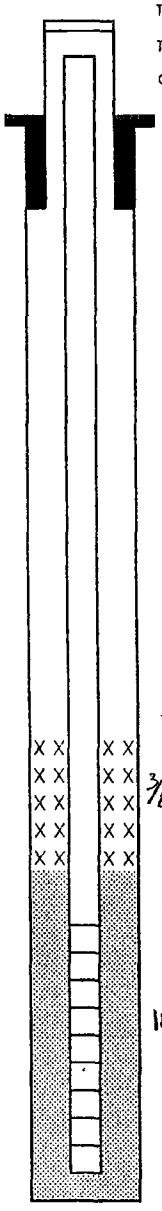
Project Name PNM Drilling + Investigation
Project Number 62800161 Phase
Site Location San Juan County, NM
S: 22 T29N, R10W
On-Site Geologist ~~[illegible]~~ S. Stellavato
Personnel On-Site Ryan Lafebre (Philip)
Contractors On-Site None
Client Personnel On-Site Roy Burnham

Elevation 5597' GL
Well Location Albright #4 Dmp
GWL Depth -10.15 BGS
Installed By K PADILLA

Date/Time Started 4/12/00 0845
Date/Time Complete 4/12/00 0930

Depths in Reference to Ground Surface

Item	Material	Depth (feet)
Top of Protective Casing	Steel	+3'
Bottom of Protective Casing	Steel	-2'
Top of Permanent Borehole Casing		
Bottom of Permanent Borehole Casing		
Top of Concrete		
Bottom of Concrete		
Top of Grout		
Bottom of Grout		
Top of Well Riser	SCH 40 PVC	+3'
Bottom of Well Riser	SCH 40 PVC	-5'
Top of Well Screen	SCH 40 PVC	-5'
Bottom of Well Screen	SCH 40 PVC	-15'
Top of Peltonite Seal	Bentonite Holeplug 3/8	0
Bottom of Peltonite Seal	Bentonite Holeplug 3/8	-3'
Top of Gravel Pack	Colorado Silica Sand	-3'
Bottom of Gravel Pack	Colorado Silica Sand 10x20	-15'
Top of Natural Cave-In		
Bottom of Natural Cave-In		
Top of Groundwater	H_2O	-10.15'
Total Depth of Borehole		-15'



Top of Protective Casing	+3'
Top of Riser (survey elev.)	+3'
Ground Surface	0
Top of Seal	0
3/8 Bentonite Holeplug	
Top of Gravel Pack	-3'
Top of Screen	-5'
10 x 20 Silica Sand	
Bottom of Screen	-15
Bottom of Borehole	-15

Commen No comments.

Geologist Signature Stephen Stellavato

MWINSTAL.wk1