

3R - 079

**ANNUAL
MONITORING
REPORT**

2/11/2009

2009 FEB 13 PM 1 02

February 11, 2009

Mr. Glenn Von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Mr. Brandon Powell
New Mexico Oil Conservation Division
District 3 Office
1000 Rio Brazos Road
Aztec, New Mexico 87410

**RE: Annual Groundwater Monitoring and Sampling Report for the Conoco
Phillips and Clayton Investments Thomas No. 1 Well Location, Bloomfield,
New Mexico; Permit #3RP-79-0 (July 1, 1988)**

Dear Sirs:

Pursuant to New Mexico Oil Conservation Division (OCD) requirements, Animas Environmental Services, LLC (AES), on behalf of Walsh Engineering and Production Corporation (Walsh Engineering) and Clayton Investments, submits this Annual Groundwater Monitoring and Sampling Report for 2008 for the Thomas No.1 well, which is located west of Bloomfield in the NW ¼, SW ¼, Section 30, T29N, R11W, San Juan County, New Mexico. Groundwater at the site has been monitored and sampled since 1988 under Permit #3RP-79-0. A site location map is included as Figure 1.

1.0 Groundwater Monitoring and Sampling

On January 9, 2009, BioTech Remediation, Inc. (BioTech) personnel completed groundwater elevation monitoring at four monitoring wells (MW-2 through MW-5) located at the site for the 2008 groundwater sampling event. Groundwater samples from monitoring wells MW-2 and MW-3 were collected in early January 2009 for laboratory analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) per EPA Method 8021 and C₆ through C₁₀ range total petroleum hydrocarbons (TPH) per EPA Method 8015. All samples were submitted to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for analysis. Laboratory analytical reports are found in Appendix A.

1.1 Depth to Groundwater Measurements

Depth to groundwater measurements for the accessible monitoring wells were made with a Solinst Electronic Water Level and recorded prior to sampling activities. In January 2009, groundwater measurements indicated a general increase in elevations by approximately 0.3 feet across the site. Depth to groundwater varied between 2.68 feet below top of casing (TOC) in MW-3 to 4.35 feet below TOC in MW-5. Groundwater elevations across the site ranged from 5372.00 ft AMSL in MW-5 up to 5372.88 ft AMSL



in MW-3. Hydraulic gradient was estimated to be approximately 0.002 ft/ft in a southwest direction across the site.

Historical groundwater elevation data are summarized in Table 1, and groundwater elevation data for the January 9, 2009, monitoring event are included on Figure 2.

1.2 Groundwater Sample Collection

Following well measurements in January 2009, MW-2 and MW-3 were each purged with a new disposable bailer, and a groundwater sample was collected from each well. The groundwater samples were then transferred into new clean sample containers with a slow release valve, labeled accordingly, and the Chain of Custody Record was completed. The samples were subsequently stored in an insulated cooler at approximately 4°C and transported to the analytical laboratory, Hall, Albuquerque, New Mexico.

1.3 Dissolved Phase Contaminant Concentrations

Analytical results of the groundwater samples collected from MW-2 and MW-3 on January 9, 2009, indicate that benzene concentrations were below the New Mexico Water Quality Control Commission (WQCC) standard of 10 µg/L. Benzene was reported below the detection limit of 1.0 µg/L in MW-3 and 1.3 µg/L in MW-2. Toluene, ethylbenzene, and xylene concentrations in MW-2 and MW-3 were below applicable New Mexico WQCC standards or below laboratory detection limits in both wells. Trace amounts of TPH (C₆ through C₁₀) were reported from both MW-2 and MW-3 with concentrations of 1.3 mg/L and 0.47 mg/L, respectively.

Historical groundwater contaminant concentration data are summarized in Table 2, and groundwater contaminant concentration data are shown on Figure 2.

2.0 Conclusions

BioTech personnel conducted groundwater sampling on January 9, 2009, for the fourth quarter 2008 sampling event. Based on groundwater elevation data, the hydraulic gradient at the site was calculated to be approximately 0.002 ft/ft in a southwest direction. Analytical results from both sampling events indicate that BTEX concentrations have remained below applicable WQCC standards for both MW-2 and MW-3.

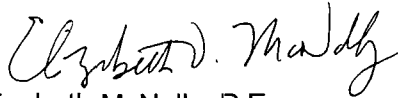
Groundwater contaminant concentrations continue to remain below all applicable WQCC standards, therefore AES recommends sampling MW-2 for two more quarters (March and June 2009). If contaminant concentrations remain below applicable standards, AES recommends the site (MW-1 through MW-5) be evaluated for closure.

If you have any questions regarding site conditions or this report, please contact me or Elizabeth McNally at (505) 564-2281.

Sincerely,



Deborah Watson
Project Manager



Elizabeth McNally, P.E.

Cc: Walsh Engineering and Production Corporation
7415 E. Main St.
Farmington, NM 87402

Robert Moss
General Counsel
Clayton Investments
501 Airport Drive, Suite 100
Farmington, NM 87401

Attachments: Tables
Figures
Appendix A. Laboratory Analytical Results

Files:2009/Thomas Wells/2008 Annual Monitoring and Sampling Report

TABLE 1
WATER QUALITY AND WELL DATA
ConocoPhillips Thomas No. 1 Location
Bloomfield, New Mexico

<i>Well ID</i>	<i>Date Measured</i>	<i>Top of Casing Elevation (ft amsl)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft amsl)</i>
MW-1	7-Sep-01	5376.91	4.69	5372.22
MW-1	4-Feb-02	5376.91	3.66	5373.25
MW-1	30-Jul-02	5376.91	4.14	5372.77
MW-1	4-Dec-02	5376.91	3.47	5373.44
MW-1	3-Jul-03	5376.91	3.15	5373.76
MW-1	19-Dec-03	5376.91	3.53	5373.38
MW-1	12-Jul-04	5376.91	4.05	5372.86
MW-1	3-Jan-05	5376.91	3.50	5373.41
MW-1	25-Jul-05	5376.91	4.23	5372.68
MW-1	30-Dec-05	5376.91	3.62	5373.29
MW-1	8-Jun-06	5376.91	3.90	5373.01
MW-1	10-Jan-07	Buried by Oil Well Construction		
MW-1	17-Jul-07	Buried by Oil Well Construction		
MW-2	7-Sep-01	5376.97	4.99	5371.98
MW-2	4-Feb-02	5376.97	4.21	5372.76
MW-2	30-Jul-02	5376.97	4.61	5372.36
MW-2	4-Dec-02	5376.97	4.05	5372.92
MW-2	3-Jul-03	5376.97	4.45	5372.52
MW-2	19-Dec-03	5376.97	4.06	5372.91
MW-2	12-Jul-04	5376.97	4.60	5372.37
MW-2	3-Jan-05	5376.97	4.22	5372.75
MW-2	25-Jul-05	5376.97	4.82	5372.15
MW-2	30-Dec-05	5376.97	4.26	5372.71
MW-2	8-Jun-06	5376.97	4.42	5372.55
MW-2	10-Jan-07	5376.97	4.28	5372.69
MW-2	17-Jul-07	5376.97	5.15	5371.82
MW-2	27-Dec-07	5376.97	4.42	5372.55
MW-2	13-Jan-09	5376.97	4.11	5372.86
MW-3	7-Sep-01	5375.56	4.10	5371.46
MW-3	4-Feb-02	5375.56	2.46	5373.10
MW-3	30-Jul-02	5375.56	3.47	5372.09
MW-3	4-Dec-02	5375.56	2.69	5372.87
MW-3	3-Jul-03	5375.56	3.54	5372.02
MW-3	19-Dec-03	5375.56	2.78	5372.78
MW-3	12-Jul-04	5375.56	3.40	5372.16
MW-3	3-Jan-05	5375.56	2.82	5372.74

TABLE 1
WATER QUALITY AND WELL DATA
ConocoPhillips Thomas No. 1 Location
Bloomfield, New Mexico

<i>Well ID</i>	<i>Date Measured</i>	<i>Top of Casing Elevation (ft amsl)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft amsl)</i>
MW-3	25-Jul-05	5375.56	3.72	5371.84
MW-3	30-Dec-05	5375.56	2.84	5372.72
MW-3	8-Jun-06	5375.56	3.20	5372.36
MW-3	10-Jan-07	5375.56	2.86	5372.70
MW-3	17-Jul-07	5375.56	4.03	5371.53
MW-3	27-Dec-07	5375.56	3.02	5372.54
MW-3	13-Jan-09	5375.56	2.68	5372.88
MW-4	7-Sep-01	5375.56	3.91	5371.65
MW-4	4-Feb-02	5375.56	2.82	5372.74
MW-4	30-Jul-02	5375.56	3.53	5372.03
MW-4	4-Dec-02	5375.56	2.81	5372.75
MW-4	3-Jul-03	5375.56	3.38	5372.18
MW-4	19-Dec-03	5375.56	2.87	5372.69
MW-4	12-Jul-04	5375.56	3.46	5372.10
MW-4	3-Jan-05	5375.56	3.00	5372.56
MW-4	25-Jul-05	5375.56	3.74	5371.82
MW-4	30-Dec-05	5375.56	3.03	5372.53
MW-4	8-Jun-06	5375.56	3.24	5372.32
MW-4	10-Jan-07	5375.56	3.03	5372.53
MW-4	17-Jul-07	5375.56	4.05	5371.51
MW-4	27-Dec-07	5375.56	3.18	5372.38
MW-4	13-Jan-09	5375.56	2.87	5372.69
MW-5	7-Sep-01	5376.35	5.86	5370.49
MW-5	4-Feb-02	5376.35	4.19	5372.16
MW-5	30-Jul-02	5376.35	5.27	5371.08
MW-5	4-Dec-02	5376.35	4.49	5371.86
MW-5	3-Jul-03	5376.35	3.89	5372.46
MW-5	19-Dec-03	5376.35	4.23	5372.12
MW-5	12-Jul-04	5376.35	5.13	5371.22
MW-5	3-Jan-05	5376.35	4.60	5371.75
MW-5	25-Jul-05	5376.35	DRY	DRY
MW-5	30-Dec-05	5376.35	4.28	5372.07
MW-5	8-Jun-06	5376.35	4.63	5371.72
MW-5	10-Jan-07	5376.35	4.30	5372.05
MW-5	17-Jul-07	5376.35	5.63	5370.72
MW-5	27-Dec-07	5376.35	4.58	5371.77

TABLE 1
WATER QUALITY AND WELL DATA
ConocoPhillips Thomas No. 1 Location
Bloomfield, New Mexico

<i>Well ID</i>	<i>Date Measured</i>	<i>Top of Casing Elevation (ft amsl)</i>	<i>Depth to Water (ft)</i>	<i>Water Level Elevation (ft amsl)</i>
MW-5	13-Jan-09	5376.35	4.35	5372.00

TABLE 2. GROUNDWATER ANALYTICAL RESULTS
ConocoPhillips Thomas No. 1 Location
Bloomfield, New Mexico

<i>Sample ID</i>	<i>Sample Date</i>	<i>Analytical Method</i>	<i>Benzene</i> (µg/L)	<i>Toluene</i> (µg/L)	<i>Ethyl- benzene</i> (µg/L)	<i>Xylenes</i> (µg/L)	<i>MTBE</i> (µg/L)	<i>TPH C6 - C10</i> (mg/L)
NM WQCC Standards			10	750	750	620	100	NE
MW-2	7-Sep-01	8021/8015	<2.5	<2.5	25	63.2	<5.0	ns
MW-2	4-Feb-02	8021/8015	120	9.0	76	373.6	2.8	ns
MW-2	30-Jul-02	8021/8015	50	<2.5	49	245.6	<5.0	ns
MW-2	4-Dec-02	8021/8015	87	<2.5	67	270	<13	ns
MW-2	3-Jul-03	8021/8015	150	<2.5	87	430	<13	ns
MW-2	19-Dec-03	8021/8015	56	<2.5	74	150	<13	ns
MW-2	12-Jul-04	8021/8015	89	3.4	110	1100	<13	5.1
MW-2	3-Jan-05	8021/8015	16	<2.5	35	420	<13	2.4
MW-2	25-Jul-05	8021/8015	46	<2.5	59	360	<13	3.0
MW-2	30-Dec-05	8021/8015	5.2	<0.5	15	33	<2.5	1.5
MW-2	8-Jun-06	8021/8015	6.6	<0.5	25	86	<2.5	1.3
MW-2	10-Jan-07	8021/8015	6.1	21	21	96	<2.5	1.4
MW-2	17-Jul-07	8021/8015	<5.0	40	12	34	<25	1.2
MW-2	27-Dec-07	8021/8015	2.4	<1.0	4.2	76	<2.5	0.88
MW-2	13-Jan-09	8021/8015	1.3	<1.0	4.8	140	<2.5	1.3
MW-3	7-Sep-01	8021/8015	130	<0.5	51	372.9	<1.0	<3.0
MW-3	4-Feb-02	8021/8015	ns	ns	ns	ns	ns	ns
MW-3	30-Jul-02	8021/8015	<0.5	2.3	9.5	8.6	<1.0	ns
MW-3	4-Dec-02	8021/8015	0.6	1.7	2.4	6.2	<2.5	ns
MW-3	3-Jul-03	8021/8015	<0.5	2.3	6.2	8.5	<2.5	ns
MW-3	19-Dec-03	8021/8015	<0.5	1.2	6.6	9.5	<2.5	ns
MW-3	12-Jul-04	8021/8015	0.6	1.7	12	12	<2.5	0.6
MW-3	3-Jan-05	8021/8015	<0.5	1.7	5.7	7	<2.5	0.4
MW-3	25-Jul-05	8021/8015	<0.5	1.2	12	10	<2.5	0.81
MW-3	30-Dec-05	8021/8015	<0.5	0.8	5.8	6	<2.5	0.54
MW-3	8-Jun-06	8021/8015	<0.5	<0.5	16	23	<2.5	0.76
MW-3	10-Jan-07	8021/8015	<0.5	<0.5	4.7	8.7	<2.5	0.62
MW-3	17-Jul-07	8021/8015	<0.5	22	7.7	14.0	<2.5	0.75
MW-3	27-Dec-07	8021/8015	2.3	<1.0	8.0	23	<2.5	0.51
MW-3	13-Jan-09	8021/8015	<1.0	1.6	9.0	29	<2.5	0.47
MW-4	7-Sep-01	8021/8015	ns	ns	ns	ns	ns	ns
MW-4	4-Feb-02	8021/8015	<0.5	6.9	8.2	18.7	1.0	ns
MW-4	30-Jul-02	8021/8015	ns	ns	ns	ns	ns	ns
MW-4	4-Dec-02	8021/8015	ns	ns	ns	ns	ns	ns

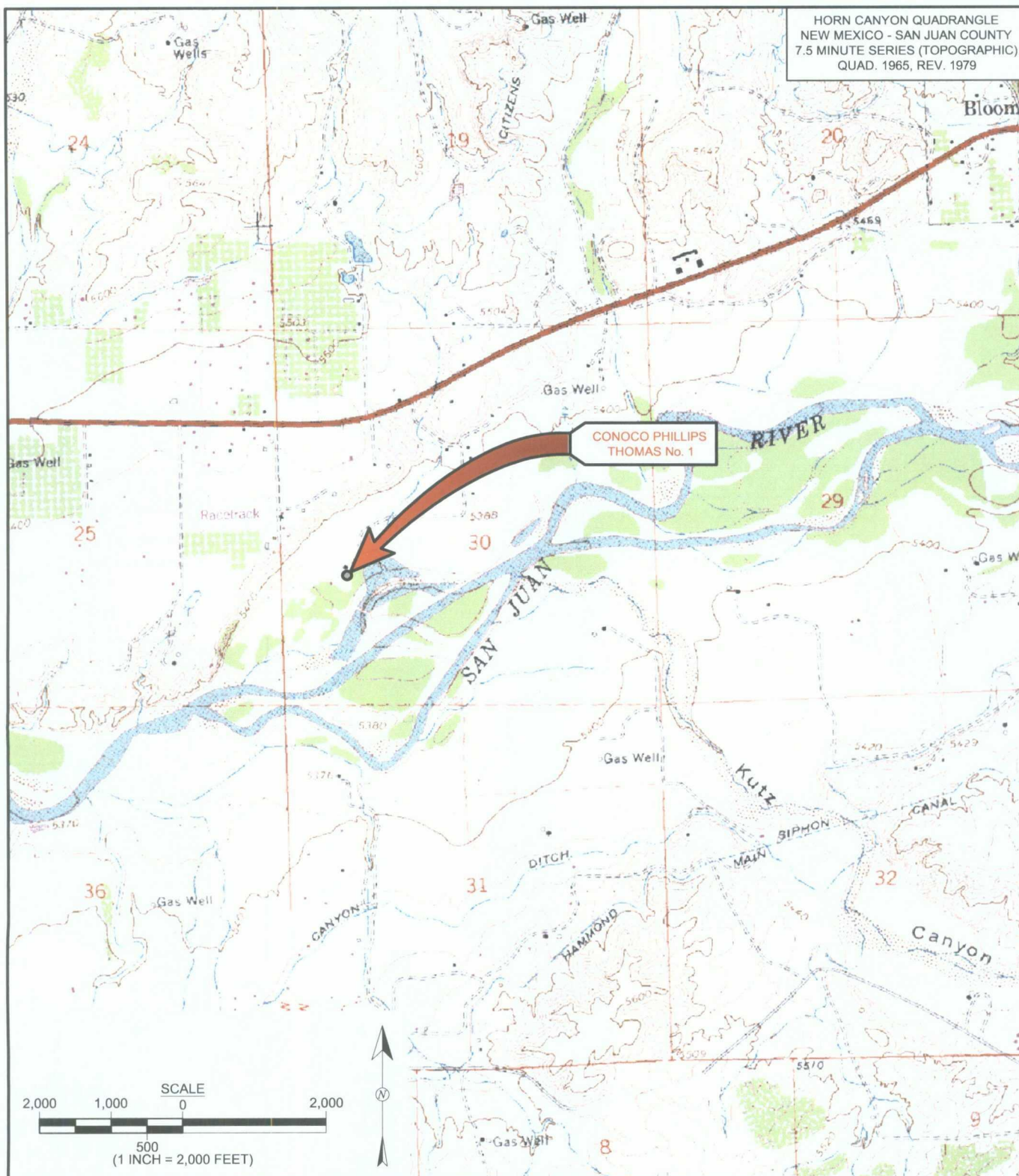
TABLE 2. GROUNDWATER ANALYTICAL RESULTS
ConocoPhillips Thomas No. 1 Location
Bloomfield, New Mexico

<i>Sample ID</i>	<i>Sample Date</i>	<i>Analytical Method</i>	<i>Benzene</i> ($\mu\text{g/L}$)	<i>Toluene</i> ($\mu\text{g/L}$)	<i>Ethyl- benzene</i> ($\mu\text{g/L}$)	<i>Xylenes</i> ($\mu\text{g/L}$)	<i>MTBE</i> ($\mu\text{g/L}$)	<i>TPH C6 - C10</i> (mg/L)
NM WQCC Standards			10	750	750	620	100	NE
MW-4	3-Jul-03	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	19-Dec-03	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	12-Jul-04	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	3-Jan-05	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	8-Jun-06	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	10-Jan-07	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	17-Jul-07	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	27-Dec-07	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
MW-4	13-Jan-09	8021/8015	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>

Notes:

< Analyte not detected above listed method limit
 ($\mu\text{g/L}$) Micrograms per Liter (ppb)
 (mg/L) Milligrams per Liter (ppm)
ns Not Sampled

HORN CANYON QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)
QUAD. 1965, REV. 1979



CONOCO PHILLIPS
THOMAS No. 1

2,000 1,000 SCALE 0 2,000
500
(1 INCH = 2,000 FEET)

AES

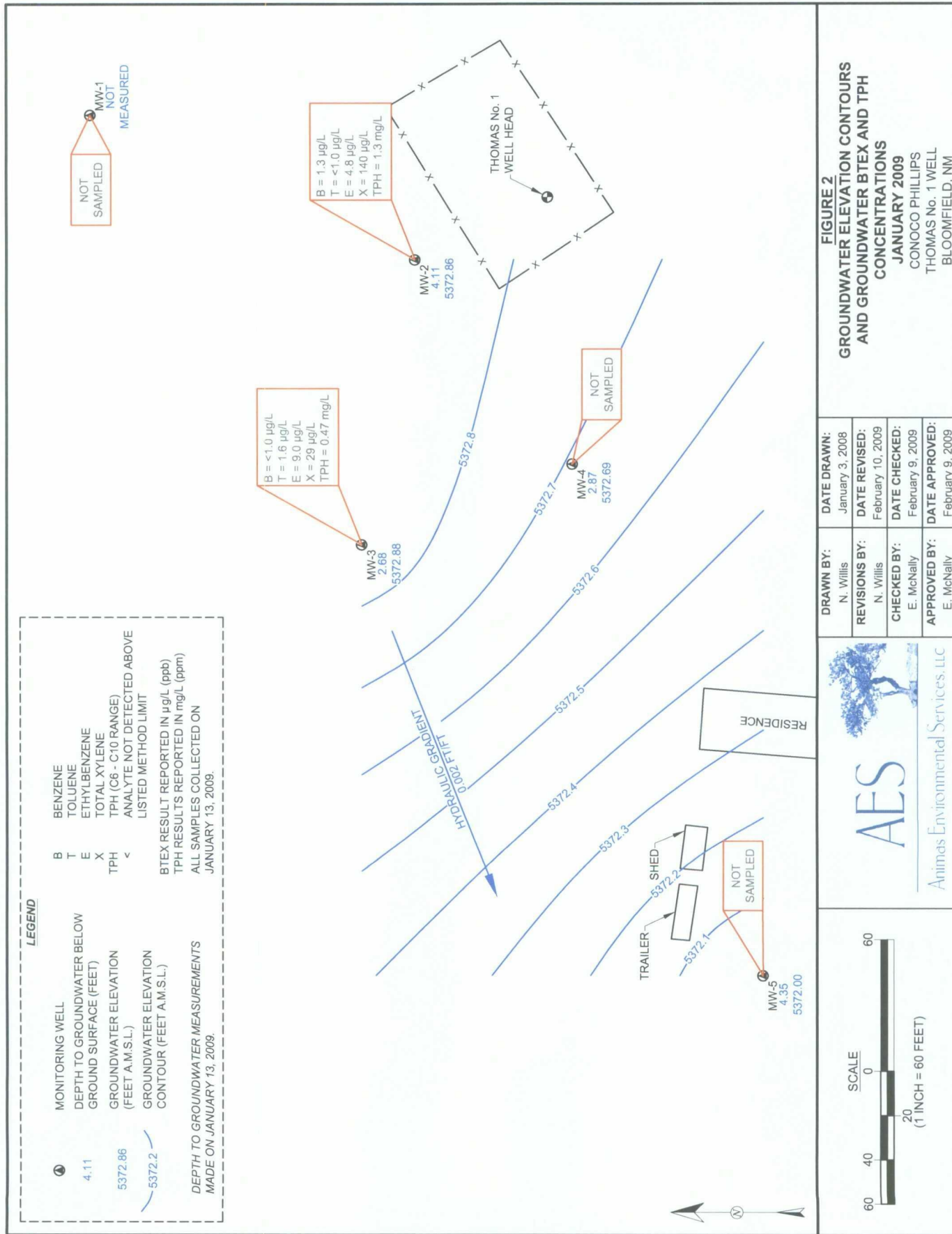


Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: January 3, 2008
REVISIONS BY: N. Willis	DATE REVISED: February 10, 2009
CHECKED BY: E. McNally	DATE CHECKED: February 9, 2009
APPROVED BY: E. McNally	DATE APPROVED: February 9 2009

FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP

CONOCO PHILLIPS
THOMAS No. 1
NW 1/4 SW 1/4 SEC. 30, T29N, R11W
SAN JUAN COUNTY, NEW MEXICO
N 36° 41' 42.416", W 108° 02' 16.674"



COVER LETTER

Thursday, January 22, 2009

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-1776
FAX (505) 324-2022

RE: Thomas Wells

Order No.: 0901244

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 1/16/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 22-Jan-09

CLIENT: Animas Environmental Services
Lab Order: 0901244
Project: Thomas Wells
Lab ID: 0901244-01

Client Sample ID: MW#2
Collection Date: 1/13/2009 12:11:00 PM
Date Received: 1/16/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	14	1.0		mg/L	1	1/19/2009
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/19/2009
Surr: DNOP	139	58-140		%REC	1	1/19/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	1.3	0.25		mg/L	5	1/20/2009 2:28:39 PM
Surr: BFB	88.4	59.9-122		%REC	5	1/20/2009 2:28:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/21/2009 1:16:21 PM
Benzene	1.3	1.0		µg/L	1	1/21/2009 1:16:21 PM
Toluene	ND	1.0		µg/L	1	1/21/2009 1:16:21 PM
Ethylbenzene	4.8	1.0		µg/L	1	1/21/2009 1:16:21 PM
Xylenes, Total	140	2.0		µg/L	1	1/21/2009 1:16:21 PM
1,2,4-Trimethylbenzene	71	1.0		µg/L	1	1/21/2009 1:16:21 PM
1,3,5-Trimethylbenzene	57	1.0		µg/L	1	1/21/2009 1:16:21 PM
Surr: 4-Bromofluorobenzene	92.1	65.9-130		%REC	1	1/21/2009 1:16:21 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Jan-09

CLIENT: Animas Environmental Services
Lab Order: 0901244
Project: Thomas Wells
Lab ID: 0901244-02

Client Sample ID: MW#3
Collection Date: 1/13/2009 12:50:00 PM
Date Received: 1/16/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	1/19/2009
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/19/2009
Surr: DNOP	114	58-140		%REC	1	1/19/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	0.47	0.050		mg/L	1	1/20/2009 2:59:09 PM
Surr: BFB	90.1	59.9-122		%REC	1	1/20/2009 2:59:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/20/2009 2:59:09 PM
Benzene	ND	1.0		µg/L	1	1/20/2009 2:59:09 PM
Toluene	1.6	1.0		µg/L	1	1/20/2009 2:59:09 PM
Ethylbenzene	9.0	1.0		µg/L	1	1/20/2009 2:59:09 PM
Xylenes, Total	29	2.0		µg/L	1	1/20/2009 2:59:09 PM
1,2,4-Trimethylbenzene	10	1.0		µg/L	1	1/20/2009 2:59:09 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2009 2:59:09 PM
Surr: 4-Bromofluorobenzene	82.8	65.9-130		%REC	1	1/20/2009 2:59:09 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Page 2 of 2

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Thomas Wells

Work Order: 0901244

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Diesel Range

Sample ID: MB-18107		MBLK			Batch ID: 18107		Analysis Date:		1/19/2009
Diesel Range Organics (DRO)	ND	mg/L	1.0						
Motor Oil Range Organics (MRO)	ND	mg/L	5.0						
Sample ID: LCS-18107		LCS			Batch ID: 18107		Analysis Date:		1/19/2009
Diesel Range Organics (DRO)	5.093	mg/L	1.0	102	74	157			
Sample ID: LCSD-18107		LCSD			Batch ID: 18107		Analysis Date:		1/19/2009
Diesel Range Organics (DRO)	5.329	mg/L	1.0	107	74	157	4.53	23	

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB		MBLK			Batch ID: R32090		Analysis Date: 1/20/2009 9:20:43 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050					
Sample ID: 2.5UG GRO LCS		LCS			Batch ID: R32090		Analysis Date: 1/21/2009 4:14:01 AM	
Gasoline Range Organics (GRO)	0.5084	mg/L	0.050	102	80	115		
Sample ID: 2.5UG GRO LCSD		LCSD			Batch ID: R32090		Analysis Date: 1/21/2009 4:44:34 AM	
Gasoline Range Organics (GRO)	0.4712	mg/L	0.050	94.2	80	115	7.59	8.39

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB		MBLK		Batch ID: R32090		Analysis Date: 1/20/2009 9:20:43 AM	
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5				
Benzene	ND	µg/L	1.0				
Toluene	ND	µg/L	1.0				
Ethylbenzene	ND	µg/L	1.0				
Xylenes, Total	ND	µg/L	2.0				
1,2,4-Trimethylbenzene	ND	µg/L	1.0				
1,3,5-Trimethylbenzene	ND	µg/L	1.0				
Sample ID: 100NG BTEX LCS		LCS		Batch ID: R32090		Analysis Date: 1/20/2009 7:03:14 PM	
Methyl tert-butyl ether (MTBE)	20.41	µg/L	2.5	102	51.2	138	
Benzene	20.17	µg/L	1.0	101	85.9	113	
Toluene	20.44	µg/L	1.0	102	86.4	113	
Ethylbenzene	20.59	µg/L	1.0	103	83.5	118	
Xylenes, Total	61.88	µg/L	2.0	103	83.4	122	
1,2,4-Trimethylbenzene	20.78	µg/L	1.0	104	83.5	115	
1,3,5-Trimethylbenzene	20.15	µg/L	1.0	101	85.2	113	
Sample ID: 100NG BTEX LCSD		LCSD		Batch ID: R32090		Analysis Date: 1/20/2009 7:33:50 PM	
Methyl tert-butyl ether (MTBE)	21.09	µg/L	2.5	105	51.2	138	3.29 28
Benzene	20.51	µg/L	1.0	103	85.9	113	1.70 27
Toluene	20.31	µg/L	1.0	102	86.4	113	0.677 19
Ethylbenzene	20.38	µg/L	1.0	102	83.5	118	1.02 10
Xylenes, Total	60.50	µg/L	2.0	101	83.4	122	2.27 13
1,2,4-Trimethylbenzene	19.86	µg/L	1.0	98.9	83.5	115	4.57 21
1,3,5-Trimethylbenzene	19.04	µg/L	1.0	95.2	85.2	113	5.69 10

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL

Date Received:

1/16/2009

Work Order Number 0901244

Received by: ARS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐ Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
Container/Temp Blank temperature?	1°	<6° C Acceptable If given sufficient time to cool.	

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

1/19/09 per RIK collection time for MIST 3 is 1250

ARS 1/19/09

Corrective Action

