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Animas Environmental Services, LLC

www.animasenvironmental.com

September 16, 2013

Glenn von Gonten
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

**Re: 2nd Quarter 2013 Periodic Progress Report
Benson-Montin-Greer Highway 537 Llaves Pipeline 2008 Oil Release
Rio Arriba County, New Mexico**

Dear Mr. von Gonten:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this Periodic Progress Report detailing groundwater monitoring and sampling for the 2nd quarter of 2013 at the BMG Highway 537 Llaves Pipeline 2008 release location. Groundwater monitoring and sampling were conducted in accordance with recommendations presented in the Site Investigation Report prepared by AES and submitted in June 2008.

The 2008 release originated on the Schmitz Ranch, on the south side of Highway 537, within the NW¼ NE¼ Section 18, T25N, R3W (N36.40357, W107.18422) and flowed south and southwest through a small unnamed arroyo for a distance of approximately 920 linear feet. A topographic site location map is presented as Figure 1, and a general site plan is presented as Figure 2.

1.0 Release History

On December 31, 2007, a Western Refining truck driver discovered the Llaves pipeline leak and immediately contacted BMG. BMG personnel confirmed the release and shut down the Llaves pipeline pumps and block valve located about one mile upstream. BMG contracted with TNT Excavating to remove the oil that had pooled along the surface of the small arroyo. Approximately 40 barrels (bbls) of oil were recovered and placed in storage tanks at the BMG Hwy 537 Transfer Station. A total of 3,932 cubic yards of contaminated soils were excavated and transported to the TNT Landfarm facility for disposal.

On January 9, 2008, the Llaves pipeline was repaired. BMG notified the National Response Center of the spill on January 23, 2008, and the release was given identification number 860429.

AES conducted a site investigation during April and May 2008, which included the installation of nine groundwater monitoring wells (MW-1 through MW-9). Details of the investigation were presented in the AES Site Investigation Report submitted to NMOCD and dated June 23, 2008.

2.0 Groundwater Monitoring and Sampling – June 2013

AES personnel conducted groundwater monitoring and sampling at the project area on June 26, 2013. Groundwater samples collected from MW-8 were laboratory analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) and total petroleum hydrocarbons (TPH) per EPA Methods 8021/8015 at Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico. Note that MW-1 through MW-7 were sampled from 2008 to 2011 and had concentrations which remained below laboratory detection limits or applicable standards for eight consecutive quarters.

2.1 *Groundwater Measurements and Water Quality Data*

During the June 2013 sampling event, groundwater measurements were recorded for MW-1 through MW-4 and MW-6 through MW-9. A groundwater measurement was not recorded for MW-5 because the well was dry. Groundwater elevations were measured with a Keck water level (with accuracy to 0.01 foot) and ranged from approximately 7,048.60 feet above mean sea level (AMSL) in MW-2 to 7,050.35 feet AMSL in MW-7. Groundwater gradient was calculated to be 0.005 ft/ft in a southwest direction, which is consistent with historical site data.

Water quality measurements were made with an YSI Water Quality Meter in MW-8 prior to sample collection. Water quality measurements for MW-8 were recorded as 18.87°C temperature, 6.90 pH, -22.9 mV oxidation reduction potential (ORP), and 1.467 mS/cm conductivity. Depth to groundwater measurements and water quality data are presented in Table 1. Groundwater elevation contours for June 2013 are presented on Figure 3, and Water Sample Collection Forms are included in the Appendix.

2.2 *Non Aqueous Phase Liquid (NAPL)*

NAPL or “free product” has been observed in MW-9 since the January 2010 sampling event and in June 2013 the measured thickness was recorded at 1.57 feet. Note that remediation wells MPE-1 through MPE-7 were installed around MW-9 in order to remove free product.

AES personnel measured depth to groundwater and free product thickness in the multi-phase extraction (MPE) wells on June 26, 2013. Free product was observed in six of the MPE wells with free product thicknesses ranging from 1.22 feet in MPE-2 to 2.57 feet in MPE-6. Note that free product was not observed in MPE-7 during the June 2013 sampling event. MPE well data are included in Table 1, and free product thickness contours from June 2013 are presented on Figure 4.

2.3 *Groundwater Analytical Results*

Groundwater samples were collected from MW-8 for laboratory analysis of total BTEX and TPH as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO). Total BTEX and TPH concentrations in MW-8 were reported below laboratory analytical results and applicable New Mexico Water Quality Control Commission (WQCC) standards. Tabulated laboratory analytical results are included in Table 2, and laboratory analytical reports are presented the Appendix.

3.0 MPE System Operation & Maintenance

The MPE unit was installed in May 2011 and operated until October 2011, when it was removed for the winter season. An estimated 26,250 lbs of petroleum hydrocarbons were removed via the MPE system to date. The system remained off-line (pulse mode) through the end of the second quarter 2013. AES has implemented hand bailing of free product on a weekly basis as an interim mitigation measure.

4.0 Conclusions and Recommendations

AES conducted a groundwater monitoring and sampling event on June 26, 2013. MW-8, the only well sampled during this event, has remained below the applicable WQCC standards for BTEX and below laboratory detection limits for TPH for nine consecutive quarters. Free product was observed in MW-9 and in six of the MPE wells (MPE-1 through MPE-6). Based on recent laboratory analytical results, AES recommends discontinuing quarterly monitoring and sampling of MW-8 at this time. However, AES recommends continued quarterly

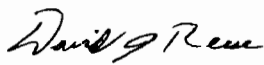
monitoring and gauging of MW-9 along with either hand bailing of free product within the wells containing NAPL on a weekly basis or re-activation of the mechanical system.

5.0 Scheduled Site Activities

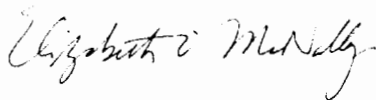
The third quarter 2013 gauging event is scheduled to be conducted in September 2013. No groundwater sampling is anticipated; however, progress reports will continue to be submitted on a quarterly basis and will include remediation information and summaries.

If you have any questions regarding this report or site conditions, please do not hesitate to contact Deborah Watson or Ross Kennemer at (505) 564-2281.

Sincerely,



David Reese
Environmental Scientist



Elizabeth McNally, P.E.

Tables

Table 1. Summary of Groundwater Measurement Data

Table 2. Summary of Groundwater Laboratory Analytical Results

Figures

Figure 1. Topographic Site Location Map

Figure 2. General Site Plan

Figure 3. Groundwater Elevation Contours, June 2013

Figure 4. Free Product Thickness Contours, June 2013

Appendix

Water Sample Collection Forms

Groundwater Laboratory Analytical Report (Hall 1307014)

cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
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Brandon Powell
New Mexico Oil Conservation Division
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Aztec, NM 87410

Craig Schmitz
#70 CR 405
Lindrith, NM 87029

Private Landowner
C/O Mike Dimond
Benson-Montin-Greer Drilling Corp.

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Progress Report 2nd Qtr 2013 091613.docx

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	pH	Conductivity (mS)	DO (mg/L)	Temperature (C)	ORP (mV)
MW-1	05-May-08	7082.57		31.45		7051.12	7.62	4.051	1.48	15.57	141.9
MW-1	24-Sep-08	7082.57		31.91		7050.66	6.80	3.588	2.97	15.32	18.1
MW-1	02-Jan-09	7082.57		31.90		7050.67			NM		
MW-1	07-Apr-09	7082.57		31.92		7050.65	7.31	4.536	3.19	13.86	16.8
MW-1	07-Jul-09	7082.57		31.95		7050.62	7.31	3.161	1.48	16.43	52.6
MW-1	12-Oct-09	7082.57		32.20		7050.37	7.43	2.553	5.91	13.97	293.3
MW-1	12-Jan-10	7082.57		32.41		7050.16	7.72	4.035	3.35	11.12	-11.2
MW-1	13-Oct-10	7082.57		32.62		7049.95	7.38	3.596	0.50	14.60	-75.8
MW-1	20-Jan-11	7082.57		32.64		7049.93	7.48	3.726	1.50	11.89	44.6
MW-1	09-May-11	7082.57		32.27		7050.30	7.61	3.543	1.69	13.38	-5.4
MW-1	15-Aug-11	7082.57		33.07		7049.50	NM	NM	NM	NM	NM
MW-1	21-Nov-11	7082.57		32.98		7049.59	NM	NM	NM	NM	NM
MW-1	21-Feb-12	7082.57		32.98		7049.59	NM	NM	NM	NM	NM
MW-1	24-May-12	7082.57		32.92		7049.65	NM	NM	NM	NM	NM
MW-1	18-Sep-12	7082.57		33.34		7049.23	NM	NM	NM	NM	NM
MW-1	04-Dec-12	7082.57		33.54		7049.03	NM	NM	NM	NM	NM
MW-1	26-Mar-13	7082.57		33.31		7049.26	NM	NM	NM	NM	NM
MW-1	26-Jun-13	7082.57		33.53		7049.04	NM	NM	NM	NM	NM
MW-2	05-May-08	7079.94		29.01		7050.93	7.59	2.276	2.21	16.43	90.8
MW-2	24-Sep-08	7079.94		29.61		7050.33	6.93	2.073	2.75	14.93	36.0
MW-2	02-Jan-09	7079.94		29.52		7050.42			NM		
MW-2	07-Apr-09	7079.94		29.50		7050.44	6.93	2.560	1.93	13.38	21.5
MW-2	07-Jul-09	7079.94		29.65		7050.29	7.22	2.067	1.07	15.28	45.9
MW-2	12-Oct-09	7079.94		29.93		7050.01	7.37	1.665	5.63	14.10	178.1
MW-2	12-Jan-10	7079.94		30.01		7049.93	7.51	2.297	2.82	10.88	-2.9
MW-2	13-Oct-10	7079.94				7079.94			NM - Well Filled with Roots		

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Well ID	Date Sampled	Surveyed TOC (ft)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	pH	Conductivity (mS)	DO (mg/L)	Temperature (C)	ORP (mV)
MW-2	20-Jan-11	7079.94		30.33		7049.61		NM - Well Filled with Roots			
MW-2	09-May-11	7079.94		29.99		7049.95	7.62	2.134	2.54	13.64	-34.1
MW-2	15-Aug-11	7079.94		30.81		7049.13	NM	NM	NM	NM	NM
MW-2	21-Nov-11	7079.94		29.79		7050.15	NM	NM	NM	NM	NM
MW-2	21-Feb-12	7079.94		30.68		7049.26	NM	NM	NM	NM	NM
MW-2	24-May-12	7079.94		30.69		7049.25	NM	NM	NM	NM	NM
MW-2	18-Sep-12	7079.94		31.00		7048.94	NM	NM	NM	NM	NM
MW-2	04-Dec-12	7079.94		31.44		7048.50	NM	NM	NM	NM	NM
MW-2	26-Mar-13	7079.94		31.00		7048.94	NM	NM	NM	NM	NM
MW-2	26-Jun-13	7079.94		31.34		7048.60	NM	NM	NM	NM	NM
MW-3	05-May-08	7081.10		29.49		7051.61	7.79	4.083	2.42	15.91	75.7
MW-3	24-Sep-08	7081.10		30.07		7051.03	6.85	2.778	2.80	14.44	18.5
MW-3	02-Jan-09	7081.10		30.01		7051.09		NM			
MW-3	07-Apr-09	7081.10		30.02		7051.08	6.86	4.596	2.08	12.19	24.7
MW-3	07-Jul-09	7081.10		30.16		7050.94		NM - FILLED WITH SEDIMENT			
MW-3	12-Oct-09	7081.10		30.41		7050.69	7.23	2.316	2.24	13.88	8.3
MW-3	12-Jan-10	7081.10		30.50		7050.60	7.35	2.985	2.87	11.75	-27.2
MW-3	13-Oct-10	7081.10		30.84		7050.26	7.51	3.973	1.71	13.71	-49.8
MW-3	20-Jan-11	7081.10		30.85		7050.25	7.43	3.528	3.30	10.48	53.4
MW-3	10-May-11	7081.10		30.54		7050.56	7.55	3.270	2.06	13.47	-69.3
MW-3	15-Aug-11	7081.10		31.23		7049.87	NM	NM	NM	NM	NM
MW-3	21-Nov-11	7081.10		31.19		7049.91	NM	NM	NM	NM	NM
MW-3	21-Feb-12	7081.10		31.19		7049.91	NM	NM	NM	NM	NM
MW-3	24-May-12	7081.10		31.19		7049.91	NM	NM	NM	NM	NM
MW-3	18-Sep-12	7081.10		31.58		7049.52	NM	NM	NM	NM	NM
MW-3	04-Dec-12	7081.10		31.73		7049.37	NM	NM	NM	NM	NM

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MW-3	26-Mar-13	7081.10		31.53		7049.57	NM	NM	NM	NM	NM
MW-3	26-Jun-13	7081.10		31.75		7049.35	NM	NM	NM	NM	NM
MW-4	05-May-08	7084.79		32.74		7052.05	7.70	2.699	2.36	14.62	-37.5
MW-4	24-Sep-08	7084.79		33.21		7051.58	6.98	2.163	3.04	13.70	42.9
MW-4	02-Jan-09	7084.79		33.29		7051.50			NM		
MW-4	07-Apr-09	7084.79		33.27		7051.52	6.91	2.779	1.35	11.90	21.1
MW-4	07-Jul-09	7084.79		33.32		7051.47	7.20	2.124	0.80	17.17	-41.5
MW-4	12-Oct-09	7084.79		33.56		7051.23	7.29	1.792	2.00	13.70	43.7
MW-4	12-Jan-10	7084.79		33.68		7051.11	7.36	2.374	2.03	11.53	-26.7
MW-4	13-Oct-10	7084.79		33.93		7050.86	7.42	2.233	1.18	14.11	-56.8
MW-4	20-Jan-11	7084.79		34.01		7050.78	7.55	2.292	2.14	11.57	126.2
MW-4	09-May-11	7084.79		33.79		7051.00	7.65	2.234	1.85	13.05	-20.0
MW-4	15-Aug-11	7084.79		34.37		7050.42	NM	NM	NM	NM	NM
MW-4	21-Nov-11	7084.79		34.33		7050.46	NM	NM	NM	NM	NM
MW-4	21-Feb-12	7084.79		34.35		7050.44	NM	NM	NM	NM	NM
MW-4	24-May-12	7084.79		34.33		7050.46	NM	NM	NM	NM	NM
MW-4	18-Sep-12	7084.79		34.65		7050.14	NM	NM	NM	NM	NM
MW-4	04-Dec-12	7084.79		34.83		7049.96	NM	NM	NM	NM	NM
MW-4	26-Mar-13	7084.79		34.82		7049.97	NM	NM	NM	NM	NM
MW-4	26-Jun-13	7084.79		35.85		7048.94	NM	NM	NM	NM	NM
MW-5	05-May-08	7087.98				NA			NM - WELL DRY		
MW-5	24-Sep-08	7087.98				NA			NM - WELL DRY		
MW-5	02-Jan-09	7087.98				NA			NM - WELL DRY		
MW-5	07-Apr-09	7087.98				NA			NM - WELL DRY		
MW-5	07-Jul-09	7087.98				NA			NM - WELL DRY		

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MW-5	12-Oct-09	7087.98				NA			NM - WELL DRY		
MW-5	12-Jan-10	7087.98				NA			NM - WELL DRY		
MW-5	13-Oct-10	7087.98				NA			NM - WELL DRY		
MW-5	20-Jan-11	7087.98				NA			NM - WELL DRY		
MW-5	09-May-11	7087.98				NA			NM - WELL DRY		
MW-5	15-Aug-11	7087.98				NA			NM - WELL DRY		
MW-5	21-Nov-11	7087.98				NA			NM - WELL DRY		
MW-5	21-Feb-12	7087.98				NA			NM - WELL DRY		
MW-5	24-May-12	7087.98				NA			NM - WELL DRY		
MW-5	18-Sep-12	7087.98				NA			NM - WELL DRY		
MW-5	04-Dec-12	7087.98				NA			NM - WELL DRY		
MW-5	26-Mar-13	7087.98				NA			NM - WELL DRY		
MW-5	26-Jun-13	7087.98				NA			NM - WELL DRY		
MW-6	05-May-08	7088.43		36.03		7052.40	7.73	1.764	2.43	13.95	87.3
MW-6	24-Sep-08	7088.43		36.44		7051.99	7.00	1.464	3.95	14.19	50.3
MW-6	02-Jan-09	7088.43		36.50		7051.93			NM		
MW-6	07-Apr-09	7088.43		36.46		7051.97	7.00	1.854	2.21	11.98	22.2
MW-6	07-Jul-09	7088.43		36.67		7051.76	7.27	1.557	1.35	17.51	57.8
MW-6	12-Oct-09	7088.43		36.78		7051.65	7.43	1.297	2.06	13.11	66.0
MW-6	12-Jan-10	7088.43		36.92		7051.51	7.44	1.615	2.24	11.82	-19.2
MW-6	13-Oct-10	7088.43		37.19		7051.24	7.54	1.502	1.68	14.44	57.9
MW-6	20-Jan-11	7088.43		37.18		7051.25	7.85	1.539	1.83	11.52	174.9
MW-6	09-May-11	7088.43		37.05		7051.38	7.80	1.526	3.31	13.01	31.9
MW-6	15-Aug-11	7088.43		37.59		7050.84	NM	NM	NM	NM	NM
MW-6	21-Nov-11	7088.43		37.65		7050.78	NM	NM	NM	NM	NM
MW-6	21-Feb-12	7088.43		37.61		7050.82	NM	NM	NM	NM	NM

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MW-6	24-May-12	7088.43		37.69		7050.74	NM	NM	NM	NM	NM
MW-6	18-Sep-12	7088.43		37.90		7050.53	NM	NM	NM	NM	NM
MW-6	04-Dec-12	7088.43		38.04		7050.39	NM	NM	NM	NM	NM
MW-6	26-Mar-13	7088.43		37.94		7050.49	NM	NM	NM	NM	NM
MW-6	26-Jun-13	7088.43		38.09		7050.34	NM	NM	NM	NM	NM
MW-7	05-May-08	7090.15		37.71		7052.44			NM - LOW YIELD		
MW-7	24-Sep-08	7090.15		38.16		7051.99	7.08	1.572	6.11	13.99	36.3
MW-7	02-Jan-09	7090.15		38.21		7051.94			NM		
MW-7	07-Apr-09	7090.15		38.16		7051.99	6.87	1.955	1.46	12.80	22.0
MW-7	07-Jul-09	7090.15		38.29		7051.86	7.06	1.599	2.27	16.48	92.6
MW-7	12-Oct-09	7090.15		38.49		7051.66	7.18	1.365	4.64	13.48	77.0
MW-7	12-Jan-10	7090.15		38.64		7051.51	7.22	1.679	1.97	11.02	-6.5
MW-7	13-Oct-10	7090.15		38.89		7051.26	7.57	2.227	1.68	16.25	66.3
MW-7	20-Jan-11	7090.15		38.92		7051.23	8.20	2.569	2.63	10.71	193.4
MW-7	09-May-11	7090.15		38.72		7051.43	7.67	2.066	2.19	14.93	86.8
MW-7	15-Aug-11	7090.15		39.26		7050.89	NM	NM	NM	NM	NM
MW-7	21-Nov-11	7090.15		39.27		7050.88	NM	NM	NM	NM	NM
MW-7	21-Feb-12	7090.15		39.31		7050.84	NM	NM	NM	NM	NM
MW-7	24-May-12	7090.15		39.30		7050.85	NM	NM	NM	NM	NM
MW-7	18-Sep-12	7090.15		39.60		7050.55	NM	NM	NM	NM	NM
MW-7	04-Dec-12	7090.15		39.74		7050.41	NM	NM	NM	NM	NM
MW-7	26-Mar-13	7090.15		39.61		7050.54	NM	NM	NM	NM	NM
MW-7	26-Jun-13	7090.15		39.80		7050.35	NM	NM	NM	NM	NM
MW-8	05-May-08	7085.20		33.71		7051.49			NM - LOW YIELD		
MW-8	24-Sep-08	7085.20		34.20		7051.00	6.88	1.672	3.06	15.24	-9.6

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MW-8	05-Jan-09	7085.20		34.21		7050.99			NM		
MW-8	07-Apr-09	7085.20		34.28		7050.92	6.98	2.061	1.81	13.30	-108.8
MW-8	07-Jul-09	7085.20		34.31		7050.89	7.11	1.811	1.17	16.26	-74.0
MW-8	12-Oct-09	7085.20		34.54		7050.66	7.00	1.416	1.48	13.27	-102.1
MW-8	12-Jan-10	7085.20		34.69		7050.51	7.02	1.699	1.73	11.13	-159.8
MW-8	13-Oct-10	7085.20		34.92		7050.28	7.32	1.786	0.77	14.65	-126.5
MW-8	20-Jan-11	7085.20		34.99		7050.21	7.40	1.776	1.32	11.42	-71.1
MW-8	20-Jan-11	7085.20		34.99		7050.21	7.40	1.776	1.32	11.42	-71.1
MW-8	10-May-11	7085.20		34.67		7050.53	7.44	1.698	1.06	12.74	-52.5
MW-8	15-Aug-11	7085.20		35.33		7049.87	7.42	1.717	3.67	17.56	-124.4
MW-8	21-Nov-11	7085.20		35.25		7049.95	7.38	1.430	1.83	11.77	95.8
MW-8	21-Feb-12	7085.20		35.30		7049.90	7.74	1.377	2.46	10.21	-85.2
MW-8	24-May-12	7085.20		35.25		7049.95	7.20	1.485	2.09	18.68	28.4
MW-8	18-Sep-12	7085.20		35.63		7049.57	NM	NM	NM	NM	NM
MW-8	04-Dec-12	7085.20		35.81		7049.39	7.43	0.315	4.92	8.50	-91.2
MW-8	26-Mar-13	7085.20		35.65		7049.55	6.98	0.737	6.02	13.26	-66.2
MW-8	26-Jun-13	7085.20		35.83		7049.37	6.90	1.467	9.32	18.87	-22.9
MW-9	05-May-08	7083.64		31.81		7051.83	7.85	1.955	2.59	15.01	-37.9
MW-9	24-Sep-08	7083.64		32.26		7051.38	7.08	1.515	2.84	14.03	43.3
MW-9	05-Jan-09	7083.64				7083.64			NM - WELL DRY		
MW-9	07-Apr-09	7083.64		32.34		7051.30	6.89	1.876	1.11	12.85	7.0
MW-9	07-Jul-09	7083.64		32.41		7051.23	7.19	1.672	1.14	16.77	-9.7
MW-9	12-Oct-09	7083.64		32.63		7051.01	7.22	1.352	2.10	13.78	72.9
MW-9	12-Jan-10	7083.64	32.43	34.80	2.37	7050.68			NM - 2.37 feet of Crude Oil or Free Product		
MW-9	13-Oct-10	7083.64	32.63	35.29	2.66	7050.42			NM - 2.66 feet of Crude Oil or Free Product		
MW-9	20-Jan-11	7083.64	32.71	35.21	2.50	7050.38			NM - 2.50 feet of Crude Oil or Free Product		

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	pH	Conductivity (mS)	DO (mg/L)	Temperature (C)	ORP (mV)
MW-9	09-May-11	7083.64	32.43	34.96	2.53	7050.65		NM - 2.53 feet of Crude Oil or Free Product			
MW-9	15-Aug-11	7083.64	33.11	35.33	2.22	7050.04		NM - 2.22 feet of Crude Oil or Free Product			
MW-9	07-Oct-11	7083.64	33.14	35.23	2.09	7050.04		NM - 2.09 feet of Crude Oil or Free Product			
MW-9	21-Nov-11	7083.64	33.25	35.37	2.12	7049.92		NM - 2.12 feet of Crude Oil or Free Product			
MW-9	21-Feb-12	7083.64	33.14	35.06	1.92	7050.07		NM - 1.92 feet of Crude Oil or Free Product			
MW-9	24-May-12	7083.64	33.15	35.19	2.04	7050.04		NM - 2.04 feet of Crude Oil or Free Product			
MW-9	18-Sep-12	7083.64	33.47	35.26	1.79	7049.77		NM - 1.79 feet of Crude Oil or Free Product			
MW-9	04-Dec-12	7083.64	33.68	35.64	1.96	7049.52		NM - 1.96 feet of Crude Oil or Free Product			
MW-9	26-Mar-13	7083.64	33.53	35.22	1.69	7049.73		NM - 1.69 feet of Crude Oil or Free Product			
MW-9	26-Jun-13	7083.64	33.70	35.27	1.57	7049.59		NM - 1.57 feet of Crude Oil or Free Product			
MPE-1	09-May-11	TBS	33.87	36.87	3.00	NA		NM - 3.00 feet of Crude Oil or Free Product			
MPE-1	15-Aug-11	TBS	34.68	36.47	1.79	NA		NM - 1.79 feet of Crude Oil or Free Product			
MPE-1	07-Oct-11	TBS	34.87	35.81	0.94	NA		NM - 0.94 feet of Crude Oil or Free Product			
MPE-1	21-Nov-11	TBS	34.60	36.85	2.25	NA		NM - 2.25 feet of Crude Oil or Free Product			
MPE-1	21-Feb-12	TBS	34.57	37.03	2.46	NA		NM - 2.46 feet of Crude Oil or Free Product			
MPE-1	24-May-12	TBS	34.56	37.13	2.57	NA		NM - 2.57 feet of Crude Oil or Free Product			
MPE-1	18-Sep-12	TBS	34.91	37.42	2.51	NA		NM - 2.51 feet of Crude Oil or Free Product			
MPE-1	04-Dec-12	TBS	35.06	37.54	2.48	NA		NM - 2.48 feet of Crude Oil or Free Product			
MPE-1	26-Mar-13	TBS	34.91	37.33	2.42	NA		NM - 2.42 feet of Crude Oil or Free Product			
MPE-1	26-Jun-13	TBS	35.09	37.57	2.48	NA		NM - 2.48 feet of Crude Oil or Free Product			
MPE-2	09-May-11	TBS	32.50	33.73	1.23	NA		NM - 1.23 feet of Crude Oil or Free Product			
MPE-2	15-Aug-11	TBS	33.28	33.69	0.41	NA		NM - 0.41 feet of Crude Oil or Free Product			
MPE-2	07-Oct-11	TBS	33.33	33.34	0.01	NA		NM - 0.01 feet of Crude Oil or Free Product			
MPE-2	21-Nov-11	TBS	33.28	33.41	0.13	NA		NM - 0.13 feet of Crude Oil or Free Product			
MPE-2	21-Feb-12	TBS	33.24	33.66	0.42	NA		NM - 0.42 feet of Crude Oil or Free Product			

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	pH	Conductivity (mS)	DO (mg/L)	Temperature (C)	ORP (mV)
MPE-2	24-May-12	TBS	33.21	33.91	0.70	NA		NM - 0.70 feet of Crude Oil or Free Product			
MPE-2	18-Sep-12	TBS	33.50	34.44	0.94	NA		NM - 0.94 feet of Crude Oil or Free Product			
MPE-2	04-Dec-12	TBS	33.68	34.68	1.00	NA		NM - 1.00 feet of Crude Oil or Free Product			
MPE-2	26-Mar-13	TBS	33.50	34.82	1.32	NA		NM - 1.32 feet of Crude Oil or Free Product			
MPE-2	26-Jun-13	TBS	33.66	34.88	1.22	NA		NM - 1.22 feet of Crude Oil or Free Product			
MPE-3	09-May-11	TBS	32.43	34.65	2.22	NA		NM - 2.22 feet of Crude Oil or Free Product			
MPE-3	15-Aug-11	TBS	33.25	34.51	1.26	NA		NM - 1.26 feet of Crude Oil or Free Product			
MPE-3	07-Oct-11	TBS	33.40	33.74	0.34	NA		NM - 0.34 feet of Crude Oil or Free Product			
MPE-3	21-Nov-11	TBS	33.28	34.13	0.85	NA		NM - 0.85 feet of Crude Oil or Free Product			
MPE-3	21-Feb-12	TBS	33.18	34.83	1.65	NA		NM - 1.65 feet of Crude Oil or Free Product			
MPE-3	24-May-12	TBS	33.15	34.89	1.74	NA		NM - 1.74 feet of Crude Oil or Free Product			
MPE-3	18-Sep-12	TBS	33.45	37.10	3.65	NA		NM - 3.65 feet of Crude Oil or Free Product			
MPE-3	04-Dec-12	TBS	33.64	35.75	2.11	NA		NM - 2.11 feet of Crude Oil or Free Product			
MPE-3	26-Mar-13	TBS	33.49	35.31	1.82	NA		NM - 1.82 feet of Crude Oil or Free Product			
MPE-3	26-Jun-13	TBS	33.66	35.80	2.14	NA		NM - 2.14 feet of Crude Oil or Free Product			
MPE-4	09-May-11	TBS	33.45	35.74	2.29	NA		NM - 2.29 feet of Crude Oil or Free Product			
MPE-4	15-Aug-11	TBS	34.26	35.85	1.59	NA		NM - 1.59 feet of Crude Oil or Free Product			
MPE-4	07-Oct-11	TBS	34.46	34.67	0.21	NA		NM - 0.21 feet of Crude Oil or Free Product			
MPE-4	21-Nov-11	TBS	34.20	35.92	1.72	NA		NM - 1.72 feet of Crude Oil or Free Product			
MPE-4	21-Feb-12	TBS	34.16	36.17	2.01	NA		NM - 2.01 feet of Crude Oil or Free Product			
MPE-4	24-May-12	TBS	34.16	36.08	1.92	NA		NM - 1.92 feet of Crude Oil or Free Product			
MPE-4	18-Sep-12	TBS	34.48	36.64	2.16	NA		NM - 2.16 feet of Crude Oil or Free Product			
MPE-4	04-Dec-12	TBS	34.63	37.03	2.40	NA		NM - 2.40 feet of Crude Oil or Free Product			
MPE-4	26-Mar-13	TBS	34.47	36.58	2.11	NA		NM - 2.11 feet of Crude Oil or Free Product			
MPE-4	26-Jun-13	TBS	34.63	37.06	2.43	NA		NM - 2.43 feet of Crude Oil or Free Product			

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	pH	Conductivity (mS)	DO (mg/L)	Temperature (C)	ORP (mV)
MPE-5	09-May-11	TBS	34.93	37.70	2.77	NA		NM - 2.77 feet of Crude Oil or Free Product			
MPE-5	15-Aug-11	TBS	35.68	37.80	2.12	NA		NM - 2.12 feet of Crude Oil or Free Product			
MPE-5	07-Oct-11	TBS	35.69	37.82	2.13	NA		NM - 2.13 feet of Crude Oil or Free Product			
MPE-5	21-Nov-11	TBS	35.58	38.16	2.58	NA		NM - 2.58 feet of Crude Oil or Free Product			
MPE-5	21-Feb-12	TBS	35.61	38.03	2.42	NA		NM - 2.42 feet of Crude Oil or Free Product			
MPE-5	25-May-12	TBS	35.61	37.97	2.36	NA		NM - 2.36 feet of Crude Oil or Free Product			
MPE-5	18-Sep-12	TBS	35.89	38.55	2.66	NA		NM - 2.66 feet of Crude Oil or Free Product			
MPE-5	04-Dec-12	TBS	36.06	38.84	2.78	NA		NM - 2.78 feet of Crude Oil or Free Product			
MPE-5	26-Mar-13	TBS	35.94	38.36	2.42	NA		NM - 2.42 feet of Crude Oil or Free Product			
MPE-5	26-Jun-13	TBS	36.12	38.12	2.00	NA		NM - 2.00 feet of Crude Oil or Free Product			
MPE-6	09-May-11	TBS		33.05		NA		NM - DUE TO HIGH CONTAMINATION OF CRUDE OIL			
MPE-6	15-Aug-11	TBS	33.72	33.81	0.09	NA		NM - 0.09 feet of Crude Oil or Free Product			
MPE-6	07-Oct-11	TBS	33.67	34.05	0.38	NA		NM - 0.38 feet of Crude Oil or Free Product			
MPE-6	21-Nov-11	TBS	33.51	34.64	1.13	NA		NM - 1.13 feet of Crude Oil or Free Product			
MPE-6	21-Feb-12	TBS	33.46	35.02	1.56	NA		NM - 1.56 feet of Crude Oil or Free Product			
MPE-6	24-May-12	TBS	33.43	35.15	1.72	NA		NM - 1.72 feet of Crude Oil or Free Product			
MPE-6	18-Sep-12	TBS	34.03	36.11	2.08	NA		NM - 2.08 feet of Crude Oil or Free Product			
MPE-6	04-Dec-12	TBS	33.88	36.23	2.35	NA		NM - 2.35 feet of Crude Oil or Free Product			
MPE-6	26-Mar-13	TBS	34.71	35.85	1.14	NA		NM - 1.14 feet of Crude Oil or Free Product			
MPE-6	26-Jun-13	TBS	33.88	36.45	2.57	NA		NM - 2.57 feet of Crude Oil or Free Product			
MPE-7	09-May-11	TBS	30.87	30.88	0.01	NA		NM - 0.01 feet of Crude Oil or Free Product			
MPE-7	15-Aug-11	TBS		31.59		NA	NM	NM	NM	NM	NM
MPE-7	07-Oct-11	TBS		31.60		NA	NM	NM	NM	NM	NM
MPE-7	21-Nov-11	TBS	31.54	31.55	0.01	NA		NM - 0.01 feet of Crude Oil or Free Product			

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	pH	Conductivity (mS)	DO (mg/L)	Temperature (C)	ORP (mV)
MPE-7	21-Feb-12	TBS	31.54	31.55	0.01	NA		NM - 0.01 feet of Crude Oil or Free Product			
MPE-7	24-May-12	TBS	31.52	31.53	0.01	NA		NM - 0.01 feet of Crude Oil or Free Product			
MPE-7	18-Sep-12	TBS		32.18		NA	NM	NM	NM	NM	NM
MPE-7	04-Dec-12	TBS		32.09		NA	NM	NM	NM	NM	NM
MPE-7	26-Mar-13	TBS		31.87		NA	NM	NM	NM	NM	NM
MPE-7	26-Jun-13	TBS		32.09		NA	NM	NM	NM	NM	NM

NOTE:
 NS = NOT SAMPLED
 NM = NOT MEASURED
 NA = NOT AVAILABLE
 TBS = TO BE SURVEYED

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
MW-1	05-May-08	<1.0	<1.0	<1.0	<2.0	0.092	<1.0	<5.0
MW-1	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	13-Oct-10	NS - Well filled with Roots						
MW-2	20-Jan-11	NS - Well filled with Roots						
MW-2	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	07-Jul-09	NS - Well filled with sediment						
MW-3	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
MW-4	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-5	05-May-08	NS - Well Dry						
MW-5	24-Sep-08	NS - Well Dry						
MW-5	02-Jan-09	NS - Well Dry						
MW-5	07-Apr-09	NS - Well Dry						
MW-5	07-Jul-09	NS - Well Dry						
MW-5	12-Oct-09	NS - Well Dry						
MW-5	12-Jan-10	NS - Well Dry						
MW-5	13-Oct-10	NS - Well Dry						
MW-5	20-Jan-11	NS - Well Dry						
MW-5	09-May-11	NS - Well Dry						
MW-6	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	05-May-08	2.8	<1.0	<1.0	<2.0	0.40	<1.0	<5.0
MW-7	24-Sep-08	<1.0	<1.0	<1.0	<2.0	0.069	<1.0	<5.0
MW-7	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	GRO	DRO	MRO
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
MW-7	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	05-May-08	26	10	<1.0	<2.0	1.10	<1.0	<5.0
MW-8	24-Sep-08	65	26	<1.0	<2.0	0.90	<1.0	<5.0
MW-8	05-Jan-09	45	25	<1.0	2.2	1.0	<1.0	<5.0
MW-8	07-Apr-09	25	20	<1.0	2.9	0.89	<1.0	<5.0
MW-8	07-Jul-09	7.5	4.5	<1.0	<2.0	0.21	<1.0	<5.0
MW-8	12-Oct-09	15	11	<1.0	<2.0	0.52	<1.0	<5.0
MW-8	12-Jan-10	<1.0	<1.0	<1.0	<2.0	0.088	<1.0	<5.0
MW-8	13-Oct-10	12	<1.0	1.7	16	0.25	<1.0	<5.0
MW-8	20-Jan-11	35	<1.0	6.5	6.3	0.16	<1.0	<5.0
MW-8	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	15-Aug-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
MW-8	21-Nov-11	<2.0	<2.0	<2.0	<4.0	<0.10	2.2	<5.0
MW-8	21-Feb-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
MW-8	24-May-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
MW-8	21-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	27-Jun-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-9	05-May-08	6.2	7.5	<1.0	2.3	0.90	<1.0	<5.0
MW-9	24-Sep-08	17	12	<1.0	<2.0	0.32	<1.0	<5.0
MW-9	05-Jan-09	NS - Well Dry						
MW-9	07-Apr-09	12	6.2	<1.0	<2.0	0.32	<1.0	<5.0
MW-9	07-Jul-09	7.0	5.3	<1.0	<2.0	0.28	<1.0	<5.0
MW-9	12-Oct-09	26	2.0	<1.0	<2.0	0.31	<1.0	<5.0
MW-9	12-Jan-10	NS - 2.37 FEET OF CRUDE OIL						
MW-9	13-Oct-10	NS - 2.66 FEET OF CRUDE OIL						
MW-9	20-Jan-11	NS - 2.50 FEET OF CRUDE OIL						
MW-9	09-May-11	NS - 2.53 FEET OF CRUDE OIL						
MW-9	15-Aug-11	NS - 2.22 FEET OF CRUDE OIL						
MW-9	21-Nov-11	NS - 2.12 FEET OF CRUDE OIL						
MW-9	21-Feb-12	NS - 1.92 FEET OF CRUDE OIL						
MW-9	24-May-12	NS - 2.04 FEET OF CRUDE OIL						
MW-9	18-Sep-12	NS - 1.79 FEET OF CRUDE OIL						

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	GRO	DRO	MRO
		($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	($\mu\text{g/L}$)	(mg/L)	(mg/L)	(mg/L)
Analytical Method		8021B	8021B	8021B	8021B	8015B	8015B	8015B
New Mexico WQCC		10	750	750	620	NE	NE	NE
MW-9	04-Dec-12	NS - 1.96 FEET OF CRUDE OIL						
MW-9	26-Mar-13	NS - 1.69 FEET OF CRUDE OIL						
MW-9	27-Jun-13	NS - 1.57 FEET OF CRUDE OIL						

NOTE: NS = Not Sampled
NA = Not Analyzed
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics

SCHMITZ RANCH QUADRANGLE
NEW MEXICO - RIO ARriba COUNTY
1963

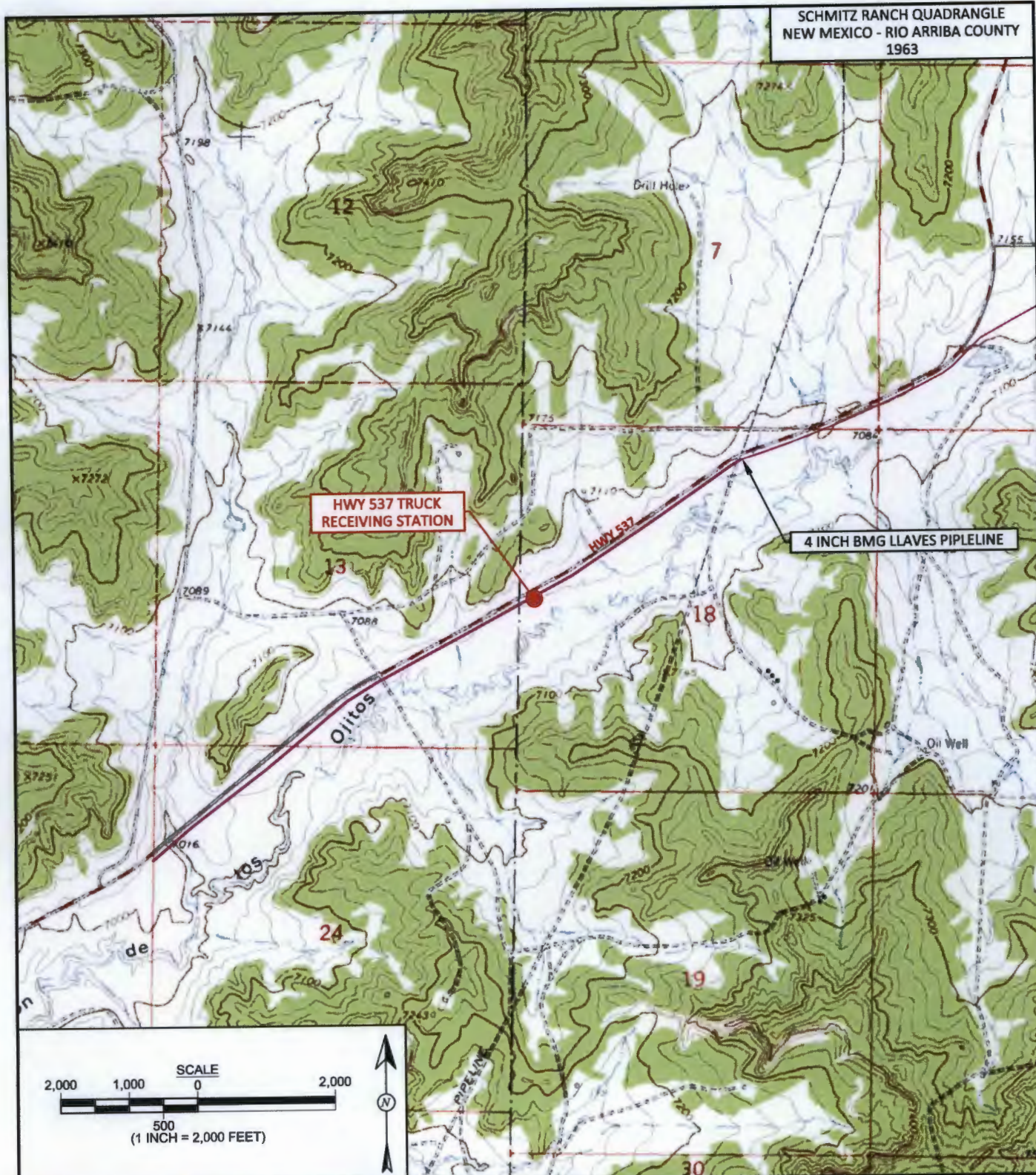


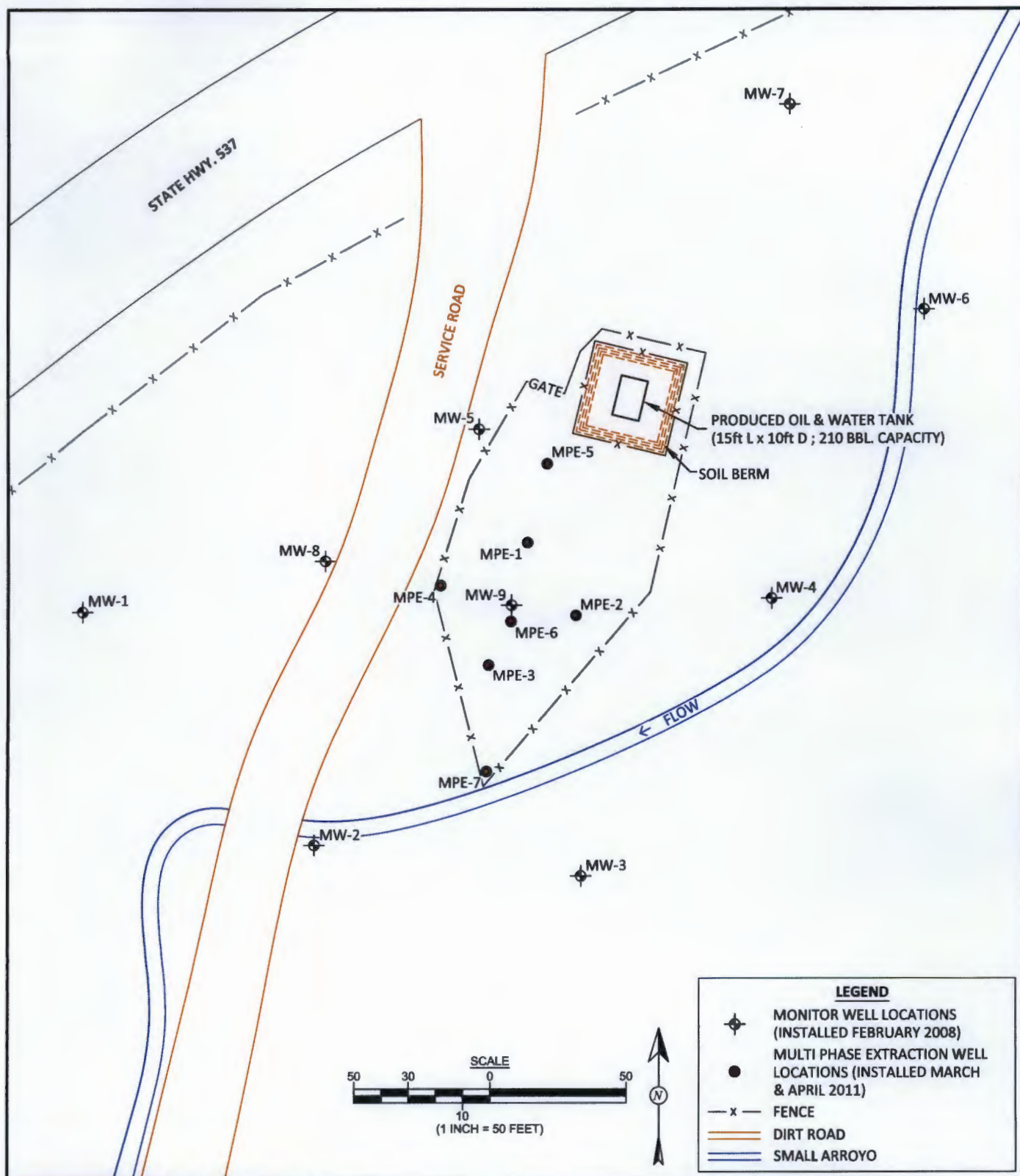
FIGURE 1



Animas Environmental Services, LLC

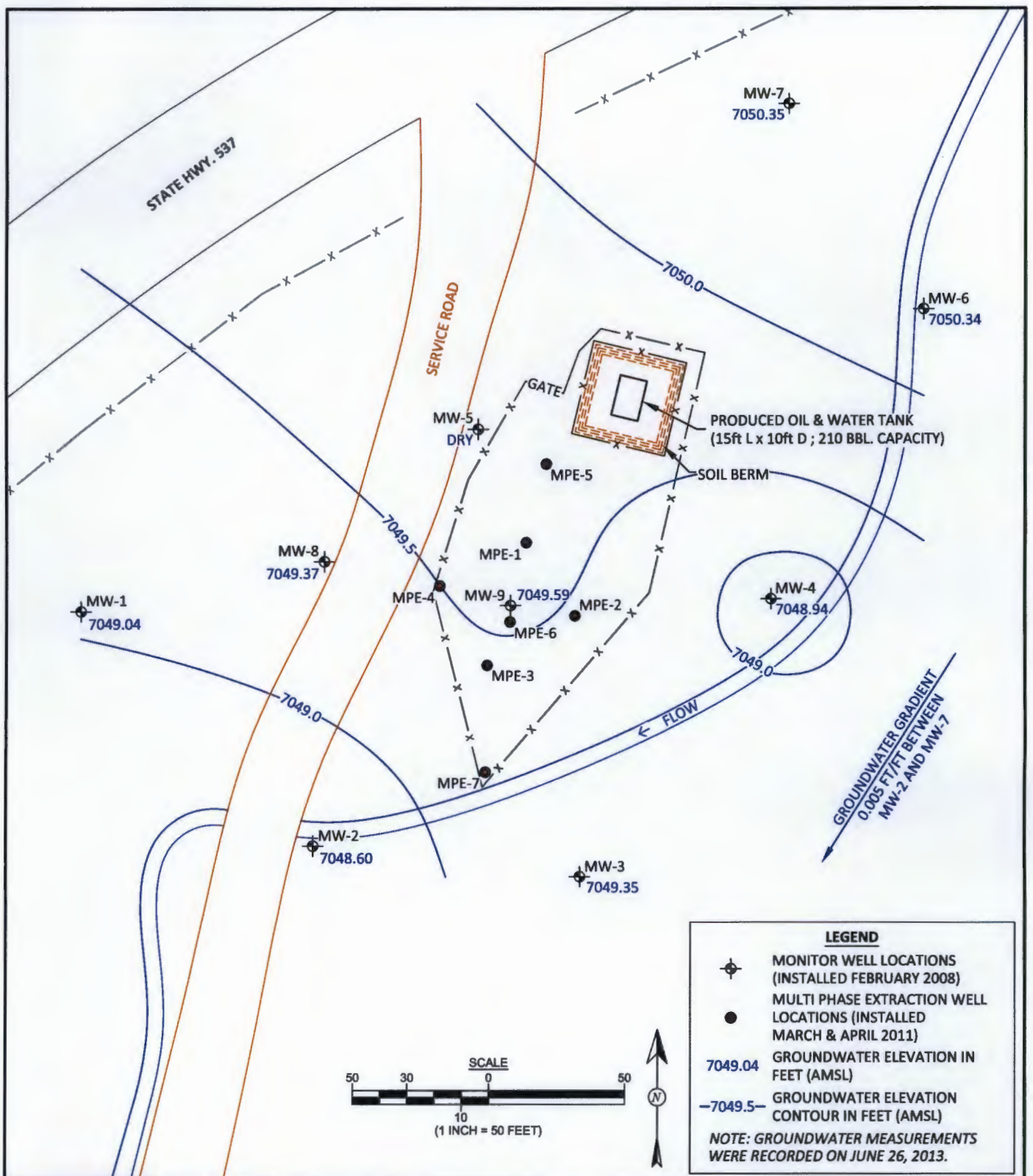
DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: July 23, 2013
CHECKED BY: D. Watson	DATE CHECKED: July 23, 2013
APPROVED BY: E. McNally	DATE APPROVED: July 23, 2013

TOPOGRAPHIC SITE LOCATION MAP
BMG HIGHWAY 537
LLAVES 2008 PIPELINE OIL RELEASE
NW¼ NE¼, SEC. 18, T25N, R3W
SCHMITZ RANCH
RIO ARriba COUNTY, NEW MEXICO
N36.40357, W107.18422



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: July 23, 2013
CHECKED BY: D. Watson	DATE CHECKED: July 23, 2013
APPROVED BY: E. McNally	DATE APPROVED: July 23, 2013



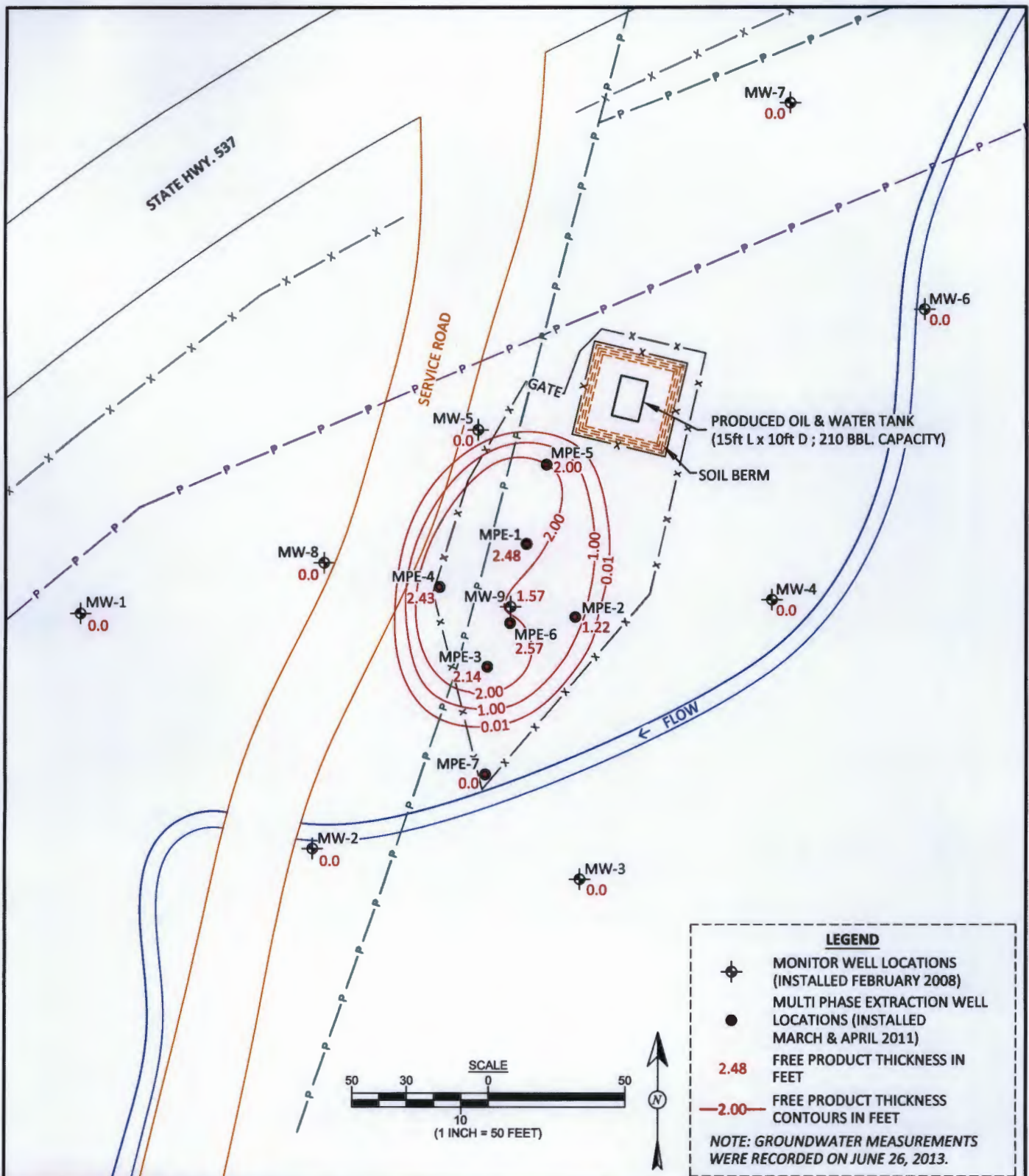


FIGURE 4

FREE PRODUCT THICKNESS CONTOURS, JUNE 2013

BMG HIGHWAY 537
LLAVES 2008 PIPELINE OIL RELEASE
NW¼ NE¼, SEC. 18, T25N, R3W
SCHMITZ RANCH, RIO ARriba COUNTY, NEW MEXICO
N36.40357, W107.18422



DRAWN BY:
C. Lameman

DATE DRAWN:
January 11, 2013

REVISIONS BY:
C. Lameman

DATE REVISED:
July 23, 2013

CHECKED BY:
D. Watson

DATE CHECKED:
July 23, 2013

APPROVED BY:
E. McNally

DATE APPROVED:
July 23, 2013

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

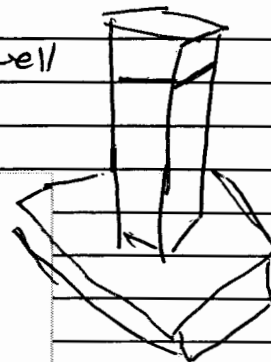
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Hwy 537 2008 Spill
Location: Rio Arriba County, New Mexico
Tech: L. Lamore

Project No.: AES 080101
Date: 6/26/2013
Time: 0845
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	0922		33.53		
MW-2	0920		31.34		
MW-3	0916		31.75		
MW-4	0913		35.85		
MW-5	0929		DRY		34.88 TDW No H ₂ O
MW-6	0910		38.09		
MW-7	0905		39.80		
MW-8	0925		35.83		39.02 TDW
MW-9	0940	33.70	35.27	5.32	
MPE-1	0946	35.09	37.57	2.48	2" well above ground stem
MPE-2	0951	33.66	34.88	1.22	2" well above ground stem
MPE-3	0956	33.66	35.80	2.14	2" well above ground stem
MPE-4	1002	34.63	37.06	2.43	2" well
MPE-5	1005	36.12	38.12	2.00	2" well
MPE-6	1010	33.88	36.45	2.58	2" well
MPE-7	1015		32.09	N/A	39.15 TDW 2" well
				n	

ONE INCH WELLS...TAKE
CORRECT BAILERS!!!!



Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project No.: AES 080101

Date:

Arrival Time: 1021 (1111 sample)

Air Temp:

T.O.C. Elev. (ft): 7085.2

Total Well Depth (ft): 39.15

Time: 0925

(taken at initial gauging of all wells)

Time: 0723

(taken prior to purging well)

Time: 115

(taken after sample collection)

D.T.W.:

Thickness: Time:

[illegible]

BTEX per EPA Method 8021 (3 40mL Vials w/ HCl preserve)

TPH C6-C36 per EPA Method 8015B (2 40mL Vials w/ HCl preserve)

TPH C6-C36 per EPA Method 8015B (40mL Vial w/ no preservative)

Disposal of Purged Water: none

Collected Samples Stored on Ice in Cooler: yes

Chain of Custody Record Complete: yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments: was only able to collect 4 vials of H_2O

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: MW-9

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Highway 537 2008 Spill
Location: Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Nathan Willis
Purge / No Purge: No Purge
Well Diameter (in): 0.75
Initial D.T.W. (ft): _____ Time: _____
Confirm D.T.W. (ft): _____ Time: _____
Final D.T.W. (ft): _____ Time: _____
If NAPL Present: D.T.P.: 33.70 D.T.W.: 35.27 Thickness: 5.32 Time: 0940

Project No.: AES 080101

Date: 6/27/2013

Arrival Time: 0940

Air Temp: 89°F

T.O.C. Elev. (ft): 7083.64

Total Well Depth (ft): _____

(taken at initial gauging of all wells)

(taken prior to purging well)

(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

NO SAMPLE

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX per EPA Method 8021 (3 40mL Vials w/ HCl preserve)

TPH C6-C36 per EPA Method 8015B (2 40mL Vials w/ HCl preserve)

TPH C6-C36 per EPA Method 8015B (40mL Vial w/ no preservative)

NO SAMPLE

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

N/A

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

NO SAMPLE



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

July 05, 2013

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: BMG Hwy 537 2008 Release

OrderNo.: 1307014

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/29/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical ReportLab Order **1307014**

Date Reported: 7/5/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** Trip Blank**Project:** BMG Hwy 537 2008 Release**Collection Date:** 6/27/2013**Lab ID:** 1307014-001**Matrix:** AQUEOUS**Received Date:** 6/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2013 8:51:05 PM	R11690
Toluene	ND	1.0		µg/L	1	7/1/2013 8:51:05 PM	R11690
Ethylbenzene	ND	1.0		µg/L	1	7/1/2013 8:51:05 PM	R11690
Xylenes, Total	ND	2.0		µg/L	1	7/1/2013 8:51:05 PM	R11690

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1307014

Date Reported: 7/5/2013

CLIENT: Animas Environmental Services

Client Sample ID: MW-8

Project: BMG Hwy 537 2008 Release

Collection Date: 6/27/2013 11:11:00 AM

Lab ID: 1307014-002

Matrix: AQUEOUS

Received Date: 6/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: JME
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/2/2013 1:09:35 PM	8197
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/2/2013 1:09:35 PM	8197
Surr: DNOP	101	75.4-146		%REC	1	7/2/2013 1:09:35 PM	8197
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/1/2013 11:22:04 PM	R11690
Surr: BFB	92.9	51.5-151		%REC	1	7/1/2013 11:22:04 PM	R11690
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/1/2013 11:22:04 PM	R11690
Toluene	ND	1.0		µg/L	1	7/1/2013 11:22:04 PM	R11690
Ethylbenzene	ND	1.0		µg/L	1	7/1/2013 11:22:04 PM	R11690
Xylenes, Total	ND	2.0		µg/L	1	7/1/2013 11:22:04 PM	R11690

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307014

05-Jul-13

Client: Animas Environmental Services

Project: BMG Hwy 537 2008 Release

Sample ID	MB-8197	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	PBW	Batch ID:	8197	RunNo:	11699					
Prep Date:	7/2/2013	Analysis Date:	7/2/2013	SeqNo:	332278	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		104	75.4	146			

Sample ID	LCS-8197	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSW	Batch ID:	8197	RunNo:	11699					
Prep Date:	7/2/2013	Analysis Date:	7/2/2013	SeqNo:	332279	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	121	89.1	151			
Surr: DNOP	0.55		0.5000		110	75.4	146			

Sample ID	LCSD-8197	SampType:	LCSD	TestCode:	EPA Method 8015D: Diesel Range					
Client ID:	LCSS02	Batch ID:	8197	RunNo:	11699					
Prep Date:	7/2/2013	Analysis Date:	7/2/2013	SeqNo:	332280	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	123	89.1	151	1.54	20	
Surr: DNOP	0.55		0.5000		110	75.4	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307014

05-Jul-13

Client: Animas Environmental Services

Project: BMG Hwy 537 2008 Release

Sample ID	B9	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBW	Batch ID:	R11690	RunNo:	11690					
Prep Date:		Analysis Date:	7/1/2013	SeqNo:	331761	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		92.8	51.5	151			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSW	Batch ID:	R11690	RunNo:	11690					
Prep Date:		Analysis Date:	7/1/2013	SeqNo:	331762	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.1	73.2	124			
Surr: BFB	20		20.00		101	51.5	151			

Sample ID	1307014-002AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	MW-8	Batch ID:	R11690	RunNo:	11690					
Prep Date:		Analysis Date:	7/1/2013	SeqNo:	331764	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.9	65.2	137			
Surr: BFB	20		20.00		100	51.5	151			

Sample ID	1307014-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	MW-8	Batch ID:	R11690	RunNo:	11690					
Prep Date:		Analysis Date:	7/2/2013	SeqNo:	331765	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	91.5	65.2	137	3.69	20	
Surr: BFB	20		20.00		99.7	51.5	151	0	0	

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307014

05-Jul-13

Client: Animas Environmental Services

Project: BMG Hwy 537 2008 Release

Sample ID B9	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: R11690		RunNo: 11690							
Prep Date:	Analysis Date: 7/1/2013		SeqNo: 331778		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	22		20.00		110	69.4	129			

Sample ID 100NG BTEX LCS	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSW	Batch ID: R11690		RunNo: 11690							
Prep Date:	Analysis Date: 7/1/2013		SeqNo: 331779		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	104	80	120			
Xylenes, Total	63	2.0	60.00	0	105	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		112	69.4	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1307014

RcptNo: 1

Received by/date:

AF 06/29/13

Logged By:

Michelle Garcia

6/29/2013 10:00:00 AM

Michelle Garcia

Completed By:

Michelle Garcia

7/1/2013 10:23:19 AM

Michelle Garcia

Reviewed By:

JO

07/01/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (If applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: Animas Environmental Services				X Standard ☒ Rush ☐	
Project Name:					
Mailing Address 824 E Comanche Farmington NM				BMG Hwy 537 2008 Release	
87401				Project #:	
Phone #: 505-564-2281				AES 080101	
email or Fax#: 505-324-2022				Project Manager:	
QA/QC Package:					
X Standard ☐ Level 4 (Full Validation)				Deborah Watson	
Accreditation:				Sampler: <u>u</u>	
☐ NELAP ☐ Other					
☐ EDD (Type)					
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type
6/27/2012		H ₂ O	Trip Blank	Glass 2 - 40 mL	HCl
6/27/2012	1111	H ₂ O	MW-8	Glass 6 - 40 mL	5 - HCl 1 - non
Date:	Time:	Relinquished by:	Received by:		
6/28/13	1110	<i>[Signature]</i>	Deborah Watson 6/28/13 1110		
Date:	Time:	Relinquished by:	Received by:		
6/28/13	1700	<i>[Signature]</i>	Deborah Watson 6/29/13 10:00		

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.