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**Q4 2012 GWMR**

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Animas Environmental Services, LLC

[www.animasenvironmental.com](http://www.animasenvironmental.com)

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

**Re: 4<sup>th</sup> Quarter 2012 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 4<sup>th</sup> quarter of 2012 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 NW $\frac{1}{4}$  NE $\frac{1}{4}$  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.

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## 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.

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## 2.0 Groundwater Monitoring and Sampling - December 2012

AES personnel conducted groundwater monitoring and sampling at the project area on December 4, 2012. 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 December 2012 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 7,048.50 feet above mean sea level (AMSL) in MW-2 to 7,050.41 feet AMSL in MW-7. Groundwater gradient was calculated to be 0.006 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 8.50°C temperature, 7.43 pH, 4.92 mg/L dissolved oxygen (DO), -91.2 mV oxidation reduction potential (ORP), and 0.315 mS/cm conductivity. Depth to groundwater measurements and water quality data are presented in Table 1. Groundwater elevation contours for December 2012 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” was first observed in MW-9 during the January 2010 sampling event, with a measured thickness of 2.37 feet. Free product was again observed in MW-9 during the December 2012 sampling event with a measured thickness of 1.96 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 December 4, 2012. Free product was observed in six of the MPE wells with free product thicknesses ranging from 1.00 feet in MPE-2 to 2.78 feet in MPE-5. Note that free product was not observed in MPE-7 during the December 2012 sampling event. MPE well data are included in Table 1, and free product thickness contours from December 2012 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 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.

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## 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 have been removed via the MPE system to date. The system remained off-line (pulse mode) through the end of the fourth quarter 2012. AES anticipates re-activating the unit in the spring of 2013 for continued remedial operations.

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## 4.0 Conclusions and Recommendations

AES conducted a groundwater monitoring and sampling event on December 4, 2012. MW-8, the only sampled well during this event, has remained below the applicable WQCC standards for BTEX and below laboratory detection limits for TPH for seven 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 continued quarterly monitoring and sampling of MW-8 and MW-9.

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## 5.0 Scheduled Site Activities

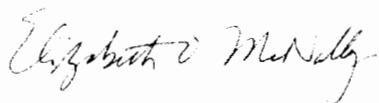
The first quarter 2013 sampling event is scheduled to be conducted in early March 2013.

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,



Landrea Cupps  
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, December 2012

Figure 4. Free Product Thickness Contours, December 2012

## Appendix

Water Sample Collection Forms

Groundwater Laboratory Analytical Report (Hall 1212334)

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

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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-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	
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

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<b>MW-2</b>	15-Aug-11	7079.94		30.81		7049.13	NM	NM	NM	NM	NM
<b>MW-2</b>	21-Nov-11	7079.94		29.79		7050.15	NM	NM	NM	NM	NM
<b>MW-2</b>	21-Feb-12	7079.94		30.68		7049.26	NM	NM	NM	NM	NM
<b>MW-2</b>	24-May-12	7079.94		30.69		7049.25	NM	NM	NM	NM	NM
<b>MW-2</b>	18-Sep-12	7079.94		31.00		7048.94	NM	NM	NM	NM	NM
<b>MW-2</b>	04-Dec-12	7079.94		31.44		7048.50	NM	NM	NM	NM	NM
<b>MW-3</b>	05-May-08	7081.10		29.49		7051.61	7.79	4.083	2.42	15.91	75.7
<b>MW-3</b>	24-Sep-08	7081.10		30.07		7051.03	6.85	2.778	2.80	14.44	18.5
<b>MW-3</b>	02-Jan-09	7081.10		30.01		7051.09					
<b>MW-3</b>	07-Apr-09	7081.10		30.02		7051.08	6.86	4.596	2.08	12.19	24.7
<b>MW-3</b>	07-Jul-09	7081.10		30.16		7050.94					
<b>MW-3</b>	12-Oct-09	7081.10		30.41		7050.69	7.23	2.316	2.24	13.88	8.3
<b>MW-3</b>	12-Jan-10	7081.10		30.50		7050.60	7.35	2.985	2.87	11.75	-27.2
<b>MW-3</b>	13-Oct-10	7081.10		30.84		7050.26	7.51	3.973	1.71	13.71	-49.8
<b>MW-3</b>	20-Jan-11	7081.10		30.85		7050.25	7.43	3.528	3.30	10.48	53.4
<b>MW-3</b>	10-May-11	7081.10		30.54		7050.56	7.55	3.270	2.06	13.47	-69.3
<b>MW-3</b>	15-Aug-11	7081.10		31.23		7049.87	NM	NM	NM	NM	NM
<b>MW-3</b>	21-Nov-11	7081.10		31.19		7049.91	NM	NM	NM	NM	NM
<b>MW-3</b>	21-Feb-12	7081.10		31.19		7049.91	NM	NM	NM	NM	NM
<b>MW-3</b>	24-May-12	7081.10		31.19		7049.91	NM	NM	NM	NM	NM
<b>MW-3</b>	18-Sep-12	7081.10		31.58		7049.52	NM	NM	NM	NM	NM
<b>MW-3</b>	04-Dec-12	7081.10		31.73		7049.37	NM	NM	NM	NM	NM
<b>MW-4</b>	05-May-08	7084.79		32.74		7052.05	7.70	2.699	2.36	14.62	-37.5
<b>MW-4</b>	24-Sep-08	7084.79		33.21		7051.58	6.98	2.163	3.04	13.70	42.9
<b>MW-4</b>	02-Jan-09	7084.79		33.29		7051.50					

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<b>MW-4</b>	07-Apr-09	7084.79		33.27		7051.52	6.91	2.779	1.35	11.90	21.1
<b>MW-4</b>	07-Jul-09	7084.79		33.32		7051.47	7.20	2.124	0.80	17.17	-41.5
<b>MW-4</b>	12-Oct-09	7084.79		33.56		7051.23	7.29	1.792	2.00	13.70	43.7
<b>MW-4</b>	12-Jan-10	7084.79		33.68		7051.11	7.36	2.374	2.03	11.53	-26.7
<b>MW-4</b>	13-Oct-10	7084.79		33.93		7050.86	7.42	2.233	1.18	14.11	-56.8
<b>MW-4</b>	20-Jan-11	7084.79		34.01		7050.78	7.55	2.292	2.14	11.57	126.2
<b>MW-4</b>	09-May-11	7084.79		33.79		7051.00	7.65	2.234	1.85	13.05	-20.0
<b>MW-4</b>	15-Aug-11	7084.79		34.37		7050.42	NM	NM	NM	NM	NM
<b>MW-4</b>	21-Nov-11	7084.79		34.33		7050.46	NM	NM	NM	NM	NM
<b>MW-4</b>	21-Feb-12	7084.79		34.35		7050.44	NM	NM	NM	NM	NM
<b>MW-4</b>	24-May-12	7084.79		34.33		7050.46	NM	NM	NM	NM	NM
<b>MW-4</b>	18-Sep-12	7084.79		34.65		7050.14	NM	NM	NM	NM	NM
<b>MW-4</b>	04-Dec-12	7084.79		34.83		7049.96	NM	NM	NM	NM	NM
<b>MW-5</b>	05-May-08	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	24-Sep-08	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	02-Jan-09	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	07-Apr-09	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	07-Jul-09	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	12-Oct-09	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	12-Jan-10	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	13-Oct-10	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	20-Jan-11	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	09-May-11	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	15-Aug-11	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	21-Nov-11	7087.98					NA			NM - WELL DRY	
<b>MW-5</b>	21-Feb-12	7087.98					NA			NM - WELL DRY	

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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-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
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-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

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Well ID	Date Sampled	Surveyed TOC (ft)	Depth to Product (ft)	Depth to Water (ft)	Thickness (ft)	NAPL (ft)	GW Elev. (ft)	pH	Conductivity (mS)	DO (mg/L)	Temperature (C)	ORP (mV)
<b>MW-7</b>	12-Jan-10	7090.15		38.64		7051.51	7.22	1.679	1.97	11.02	-6.5	
<b>MW-7</b>	13-Oct-10	7090.15		38.89		7051.26	7.57	2.227	1.68	16.25	66.3	
<b>MW-7</b>	20-Jan-11	7090.15		38.92		7051.23	8.20	2.569	2.63	10.71	193.4	
<b>MW-7</b>	09-May-11	7090.15		38.72		7051.43	7.67	2.066	2.19	14.93	86.8	
<b>MW-7</b>	15-Aug-11	7090.15		39.26		7050.89	NM	NM	NM	NM	NM	
<b>MW-7</b>	21-Nov-11	7090.15		39.27		7050.88	NM	NM	NM	NM	NM	
<b>MW-7</b>	21-Feb-12	7090.15		39.31		7050.84	NM	NM	NM	NM	NM	
<b>MW-7</b>	24-May-12	7090.15		39.30		7050.85	NM	NM	NM	NM	NM	
<b>MW-7</b>	18-Sep-12	7090.15		39.60		7050.55	NM	NM	NM	NM	NM	
<b>MW-7</b>	04-Dec-12	7090.15		39.74		7050.41	NM	NM	NM	NM	NM	
<b>MW-8</b>	05-May-08	7085.20		33.71		7051.49						
<b>MW-8</b>	24-Sep-08	7085.20		34.20		7051.00	6.88	1.672	3.06	15.24	-9.6	
<b>MW-8</b>	05-Jan-09	7085.20		34.21		7050.99						
<b>MW-8</b>	07-Apr-09	7085.20		34.28		7050.92	6.98	2.061	1.81	13.30	-108.8	
<b>MW-8</b>	07-Jul-09	7085.20		34.31		7050.89	7.11	1.811	1.17	16.26	-74.0	
<b>MW-8</b>	12-Oct-09	7085.20		34.54		7050.66	7.00	1.416	1.48	13.27	-102.1	
<b>MW-8</b>	12-Jan-10	7085.20		34.69		7050.51	7.02	1.699	1.73	11.13	-159.8	
<b>MW-8</b>	13-Oct-10	7085.20		34.92		7050.28	7.32	1.786	0.77	14.65	-126.5	
<b>MW-8</b>	20-Jan-11	7085.20		34.99		7050.21	7.40	1.776	1.32	11.42	-71.1	
<b>MW-8</b>	20-Jan-11	7085.20		34.99		7050.21	7.40	1.776	1.32	11.42	-71.1	
<b>MW-8</b>	10-May-11	7085.20		34.67		7050.53	7.44	1.698	1.06	12.74	-52.5	
<b>MW-8</b>	15-Aug-11	7085.20		35.33		7049.87	7.42	1.717	3.67	17.56	-124.4	
<b>MW-8</b>	21-Nov-11	7085.20		35.25		7049.95	7.38	1.430	1.83	11.77	95.8	
<b>MW-8</b>	21-Feb-12	7085.20		35.30		7049.90	7.74	1.377	2.46	10.21	-85.2	
<b>MW-8</b>	24-May-12	7085.20		35.25		7049.95	7.20	1.485	2.09	18.68	28.4	
<b>MW-8</b>	18-Sep-12	7085.20		35.63		7049.57	NM	NM	NM	NM	NM	

**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)
<b>MW-8</b>	04-Dec-12	7085.20		35.81		7049.39	7.43	0.315	4.92	8.50	-91.2
<b>MW-9</b>	05-May-08	7083.64		31.81		7051.83	7.85	1.955	2.59	15.01	-37.9
<b>MW-9</b>	24-Sep-08	7083.64		32.26		7051.38	7.08	1.515	2.84	14.03	43.3
<b>MW-9</b>	05-Jan-09	7083.64				7083.64					
<b>MW-9</b>	07-Apr-09	7083.64		32.34		7051.30	6.89	1.876	1.11	12.85	7.0
<b>MW-9</b>	07-Jul-09	7083.64		32.41		7051.23	7.19	1.672	1.14	16.77	-9.7
<b>MW-9</b>	12-Oct-09	7083.64		32.63		7051.01	7.22	1.352	2.10	13.78	72.9
<b>MW-9</b>	12-Jan-10	7083.64	32.43	34.80	2.37	7050.68					
<b>MW-9</b>	13-Oct-10	7083.64	32.63	35.29	2.66	7050.42					
<b>MW-9</b>	20-Jan-11	7083.64	32.71	35.21	2.50	7050.38					
<b>MW-9</b>	09-May-11	7083.64	32.43	34.96	2.53	7050.65					
<b>MW-9</b>	15-Aug-11	7083.64	33.11	35.33	2.22	7050.04					
<b>MW-9</b>	07-Oct-11	7083.64	33.14	35.23	2.09	7050.04					
<b>MW-9</b>	21-Nov-11	7083.64	33.25	35.37	2.12	7049.92					
<b>MW-9</b>	21-Feb-12	7083.64	33.14	35.06	1.92	7050.07					
<b>MW-9</b>	24-May-12	7083.64	33.15	35.19	2.04	7050.04					
<b>MW-9</b>	18-Sep-12	7083.64	33.47	35.26	1.79	7049.77					
<b>MW-9</b>	04-Dec-12	7083.64	33.68	35.64	1.96	7049.52					
<b>MPE-1</b>	09-May-11	TBS	33.87	36.87	3.00	NA					
<b>MPE-1</b>	15-Aug-11	TBS	34.68	36.47	1.79	NA					
<b>MPE-1</b>	07-Oct-11	TBS	34.87	35.81	0.94	NA					
<b>MPE-1</b>	21-Nov-11	TBS	34.60	36.85	2.25	NA					
<b>MPE-1</b>	21-Feb-12	TBS	34.57	37.03	2.46	NA					
<b>MPE-1</b>	24-May-12	TBS	34.56	37.13	2.57	NA					
<b>MPE-1</b>	18-Sep-12	TBS	34.91	37.42	2.51	NA					

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)
<b>MPE-1</b>	04-Dec-12	TBS	35.06	37.54	2.48	NA					
<b>MPE-2</b>	09-May-11	TBS	32.50	33.73	1.23	NA					NM - 1.23 feet of Crude Oil or Free Product
<b>MPE-2</b>	15-Aug-11	TBS	33.28	33.69	0.41	NA					NM - 0.41 feet of Crude Oil or Free Product
<b>MPE-2</b>	07-Oct-11	TBS	33.33	33.34	0.01	NA					NM - 0.01 feet of Crude Oil or Free Product
<b>MPE-2</b>	21-Nov-11	TBS	33.28	33.41	0.13	NA					NM - 0.13 feet of Crude Oil or Free Product
<b>MPE-2</b>	21-Feb-12	TBS	33.24	33.66	0.42	NA					NM - 0.42 feet of Crude Oil or Free Product
<b>MPE-2</b>	24-May-12	TBS	33.21	33.91	0.70	NA					NM - 0.70 feet of Crude Oil or Free Product
<b>MPE-2</b>	18-Sep-12	TBS	33.50	34.44	0.94	NA					NM - 0.94 feet of Crude Oil or Free Product
<b>MPE-2</b>	04-Dec-12	TBS	33.68	34.68	1.00	NA					NM - 1.00 feet of Crude Oil or Free Product
<b>MPE-3</b>	09-May-11	TBS	32.43	34.65	2.22	NA					NM - 2.22 feet of Crude Oil or Free Product
<b>MPE-3</b>	15-Aug-11	TBS	33.25	34.51	1.26	NA					NM - 1.26 feet of Crude Oil or Free Product
<b>MPE-3</b>	07-Oct-11	TBS	33.40	33.74	0.34	NA					NM - 0.34 feet of Crude Oil or Free Product
<b>MPE-3</b>	21-Nov-11	TBS	33.28	34.13	0.85	NA					NM - 0.85 feet of Crude Oil or Free Product
<b>MPE-3</b>	21-Feb-12	TBS	33.18	34.83	1.65	NA					NM - 1.65 feet of Crude Oil or Free Product
<b>MPE-3</b>	24-May-12	TBS	33.15	34.89	1.74	NA					NM - 1.74 feet of Crude Oil or Free Product
<b>MPE-3</b>	18-Sep-12	TBS	33.45	37.10	3.65	NA					NM - 3.65 feet of Crude Oil or Free Product
<b>MPE-3</b>	04-Dec-12	TBS	33.64	35.75	2.11	NA					NM - 2.11 feet of Crude Oil or Free Product
<b>MPE-4</b>	09-May-11	TBS	33.45	35.74	2.29	NA					
<b>MPE-4</b>	15-Aug-11	TBS	34.26	35.85	1.59	NA					NM - 2.29 feet of Crude Oil or Free Product
<b>MPE-4</b>	07-Oct-11	TBS	34.46	34.67	0.21	NA					NM - 1.59 feet of Crude Oil or Free Product
<b>MPE-4</b>	21-Nov-11	TBS	34.20	35.92	1.72	NA					NM - 0.21 feet of Crude Oil or Free Product
<b>MPE-4</b>	21-Feb-12	TBS	34.16	36.17	2.01	NA					NM - 1.72 feet of Crude Oil or Free Product
<b>MPE-4</b>	24-May-12	TBS	34.16	36.08	1.92	NA					NM - 2.01 feet of Crude Oil or Free Product
<b>MPE-4</b>											NM - 1.92 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)
<b>MPE-4</b>	18-Sep-12	TBS	34.48	36.64	2.16	NA					NM - 2.16 feet of Crude Oil or Free Product
<b>MPE-4</b>	04-Dec-12	TBS	34.63	37.03	2.40	NA					NM - 2.40 feet of Crude Oil or Free Product
<b>MPE-5</b>	09-May-11	TBS	34.93	37.70	2.77	NA					NM - 2.77 feet of Crude Oil or Free Product
<b>MPE-5</b>	15-Aug-11	TBS	35.68	37.80	2.12	NA					NM - 2.12 feet of Crude Oil or Free Product
<b>MPE-5</b>	07-Oct-11	TBS	35.69	37.82	2.13	NA					NM - 2.13 feet of Crude Oil or Free Product
<b>MPE-5</b>	21-Nov-11	TBS	35.58	38.16	2.58	NA					NM - 2.58 feet of Crude Oil or Free Product
<b>MPE-5</b>	21-Feb-12	TBS	35.61	38.03	2.42	NA					NM - 2.42 feet of Crude Oil or Free Product
<b>MPE-5</b>	25-May-12	TBS	35.61	37.97	2.36	NA					NM - 2.36 feet of Crude Oil or Free Product
<b>MPE-5</b>	18-Sep-12	TBS	35.89	38.55	2.66	NA					NM - 2.66 feet of Crude Oil or Free Product
<b>MPE-5</b>	04-Dec-12	TBS	36.06	38.84	2.78	NA					NM - 2.78 feet of Crude Oil or Free Product
<b>MPE-6</b>	09-May-11	TBS			33.05		NA				NM - DUE TO HIGH CONTAMINATION OF CRUDE OIL
<b>MPE-6</b>	15-Aug-11	TBS	33.72	33.81	0.09	NA					NM - 0.09 feet of Crude Oil or Free Product
<b>MPE-6</b>	07-Oct-11	TBS	33.67	34.05	0.38	NA					NM - 0.38 feet of Crude Oil or Free Product
<b>MPE-6</b>	21-Nov-11	TBS	33.51	34.64	1.13	NA					NM - 1.13 feet of Crude Oil or Free Product
<b>MPE-6</b>	21-Feb-12	TBS	33.46	35.02	1.56	NA					NM - 1.56 feet of Crude Oil or Free Product
<b>MPE-6</b>	24-May-12	TBS	33.43	35.15	1.72	NA					NM - 1.72 feet of Crude Oil or Free Product
<b>MPE-6</b>	18-Sep-12	TBS	34.03	36.11	2.08	NA					NM - 2.08 feet of Crude Oil or Free Product
<b>MPE-6</b>	04-Dec-12	TBS	33.88	36.23	2.35	NA					NM - 2.35 feet of Crude Oil or Free Product
<b>MPE-7</b>	09-May-11	TBS	30.87	30.88	0.01	NA					NM - 0.01 feet of Crude Oil or Free Product
<b>MPE-7</b>	15-Aug-11	TBS		31.59		NA	NM		NM		NM
<b>MPE-7</b>	07-Oct-11	TBS		31.60		NA	NM		NM		NM
<b>MPE-7</b>	21-Nov-11	TBS	31.54	31.55	0.01	NA					NM - 0.01 feet of Crude Oil or Free Product
<b>MPE-7</b>	21-Feb-12	TBS	31.54	31.55	0.01	NA					NM - 0.01 feet of Crude Oil or Free Product
<b>MPE-7</b>	24-May-12	TBS	31.52	31.53	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	18-Sep-12	TBS		32.18		NA	NA	NM	NM	NM	NM
MPE-7	04-Dec-12	TBS		32.09		NA	NA	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 ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	GRO ( $\text{mg/L}$ )	DRO ( $\text{mg/L}$ )	MRO ( $\text{mg/L}$ )
<b>Analytical Method</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>	<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	
<b>MW-1</b>	05-May-08	<1.0	<1.0	<1.0	<2.0	0.092	<1.0	<5.0
<b>MW-1</b>	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-1</b>	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-2</b>	13-Oct-10				NS - Well filled with Roots			
<b>MW-2</b>	20-Jan-11				NS - Well filled with Roots			
<b>MW-2</b>	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	07-Jul-09				NS - Well filled with sediment			
<b>MW-3</b>	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-3</b>	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	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 ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	GRO ( $\text{mg/L}$ )	DRO ( $\text{mg/L}$ )	MRO ( $\text{mg/L}$ )
<b>Analytical Method</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>	<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	
<b>MW-4</b>	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-4</b>	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-5</b>	05-May-08				NS - Well Dry			
<b>MW-5</b>	24-Sep-08				NS - Well Dry			
<b>MW-5</b>	02-Jan-09				NS - Well Dry			
<b>MW-5</b>	07-Apr-09				NS - Well Dry			
<b>MW-5</b>	07-Jul-09				NS - Well Dry			
<b>MW-5</b>	12-Oct-09				NS - Well Dry			
<b>MW-5</b>	12-Jan-10				NS - Well Dry			
<b>MW-5</b>	13-Oct-10				NS - Well Dry			
<b>MW-5</b>	20-Jan-11				NS - Well Dry			
<b>MW-5</b>	09-May-11				NS - Well Dry			
<b>MW-6</b>	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-6</b>	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-7</b>	05-May-08	2.8	<1.0	<1.0	<2.0	0.40	<1.0	<5.0
<b>MW-7</b>	24-Sep-08	<1.0	<1.0	<1.0	<2.0	0.069	<1.0	<5.0
<b>MW-7</b>	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-7</b>	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-7</b>	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-7</b>	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-7</b>	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-7</b>	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 ( $\mu\text{g/L}$ )	Toluene ( $\mu\text{g/L}$ )	Ethyl-benzene ( $\mu\text{g/L}$ )	Total Xylenes ( $\mu\text{g/L}$ )	GRO ( $\text{mg/L}$ )	DRO ( $\text{mg/L}$ )	MRO ( $\text{mg/L}$ )
<b>Analytical Method</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>	<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	
<b>MW-7</b>	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-7</b>	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-8</b>	05-May-08	<b>26</b>	10	<1.0	<2.0	1.10	<1.0	<5.0
<b>MW-8</b>	24-Sep-08	<b>65</b>	26	<1.0	<2.0	0.90	<1.0	<5.0
<b>MW-8</b>	05-Jan-09	<b>45</b>	25	<1.0	2.2	1.0	<1.0	<5.0
<b>MW-8</b>	07-Apr-09	<b>25</b>	20	<1.0	2.9	0.89	<1.0	<5.0
<b>MW-8</b>	07-Jul-09	7.5	4.5	<1.0	<2.0	0.21	<1.0	<5.0
<b>MW-8</b>	12-Oct-09	<b>15</b>	11	<1.0	<2.0	0.52	<1.0	<5.0
<b>MW-8</b>	12-Jan-10	<1.0	<1.0	<1.0	<2.0	0.088	<1.0	<5.0
<b>MW-8</b>	13-Oct-10	<b>12</b>	<1.0	1.7	16	0.25	<1.0	<5.0
<b>MW-8</b>	20-Jan-11	<b>35</b>	<1.0	6.5	6.3	0.16	<1.0	<5.0
<b>MW-8</b>	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-8</b>	15-Aug-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
<b>MW-8</b>	21-Nov-11	<2.0	<2.0	<2.0	<4.0	<0.10	2.2	<5.0
<b>MW-8</b>	21-Feb-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
<b>MW-8</b>	24-May-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
<b>MW-8</b>	21-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-8</b>	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
<b>MW-9</b>	05-May-08	6.2	7.5	<1.0	2.3	0.90	<1.0	<5.0
<b>MW-9</b>	24-Sep-08	<b>17</b>	12	<1.0	<2.0	0.32	<1.0	<5.0
<b>MW-9</b>	05-Jan-09				NS - Well Dry			
<b>MW-9</b>	07-Apr-09	<b>12</b>	6.2	<1.0	<2.0	0.32	<1.0	<5.0
<b>MW-9</b>	07-Jul-09	7.0	5.3	<1.0	<2.0	0.28	<1.0	<5.0
<b>MW-9</b>	12-Oct-09	<b>26</b>	2.0	<1.0	<2.0	0.31	<1.0	<5.0
<b>MW-9</b>	12-Jan-10				NS - 2.37 FEET OF CRUDE OIL			
<b>MW-9</b>	13-Oct-10				NS - 2.66 FEET OF CRUDE OIL			
<b>MW-9</b>	20-Jan-11				NS - 2.50 FEET OF CRUDE OIL			
<b>MW-9</b>	09-May-11				NS - 2.53 FEET OF CRUDE OIL			
<b>MW-9</b>	15-Aug-11				NS - 2.22 FEET OF CRUDE OIL			
<b>MW-9</b>	21-Nov-11				NS - 2.12 FEET OF CRUDE OIL			
<b>MW-9</b>	21-Feb-12				NS - 1.92 FEET OF CRUDE OIL			
<b>MW-9</b>	24-May-12				NS - 2.04 FEET OF CRUDE OIL			
<b>MW-9</b>	18-Sep-12				NS - 1.79 FEET OF CRUDE OIL			
<b>MW-9</b>	04-Dec-12				NS - 1.66 FEET OF CRUDE OIL			

NOTE: NS = Not Sampled

**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 ( $\mu\text{g}/\text{L}$ )	Toluene ( $\mu\text{g}/\text{L}$ )	Ethyl-benzene ( $\mu\text{g}/\text{L}$ )	Total Xylenes ( $\mu\text{g}/\text{L}$ )	GRO ( $\text{mg}/\text{L}$ )	DRC ( $\text{mg}/\text{L}$ )	MRO ( $\text{mg}/\text{L}$ )
<b>Analytical Method</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8021B</b>	<b>8015B</b>	<b>8015B</b>	<b>8015B</b>
<b>New Mexico WQCC</b>	<b>10</b>	<b>750</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>

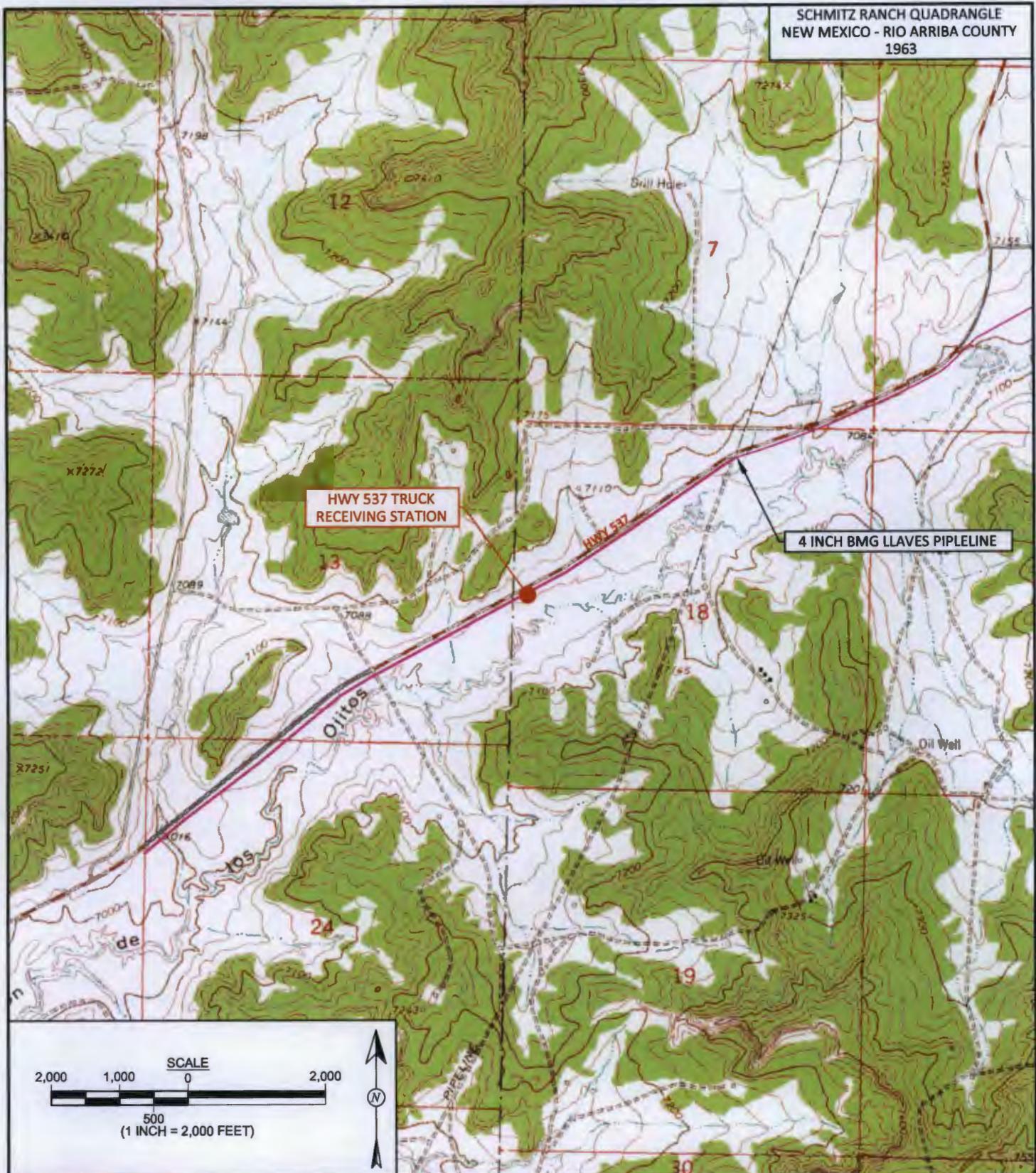
NA = Not Analyzed

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil Range Organics

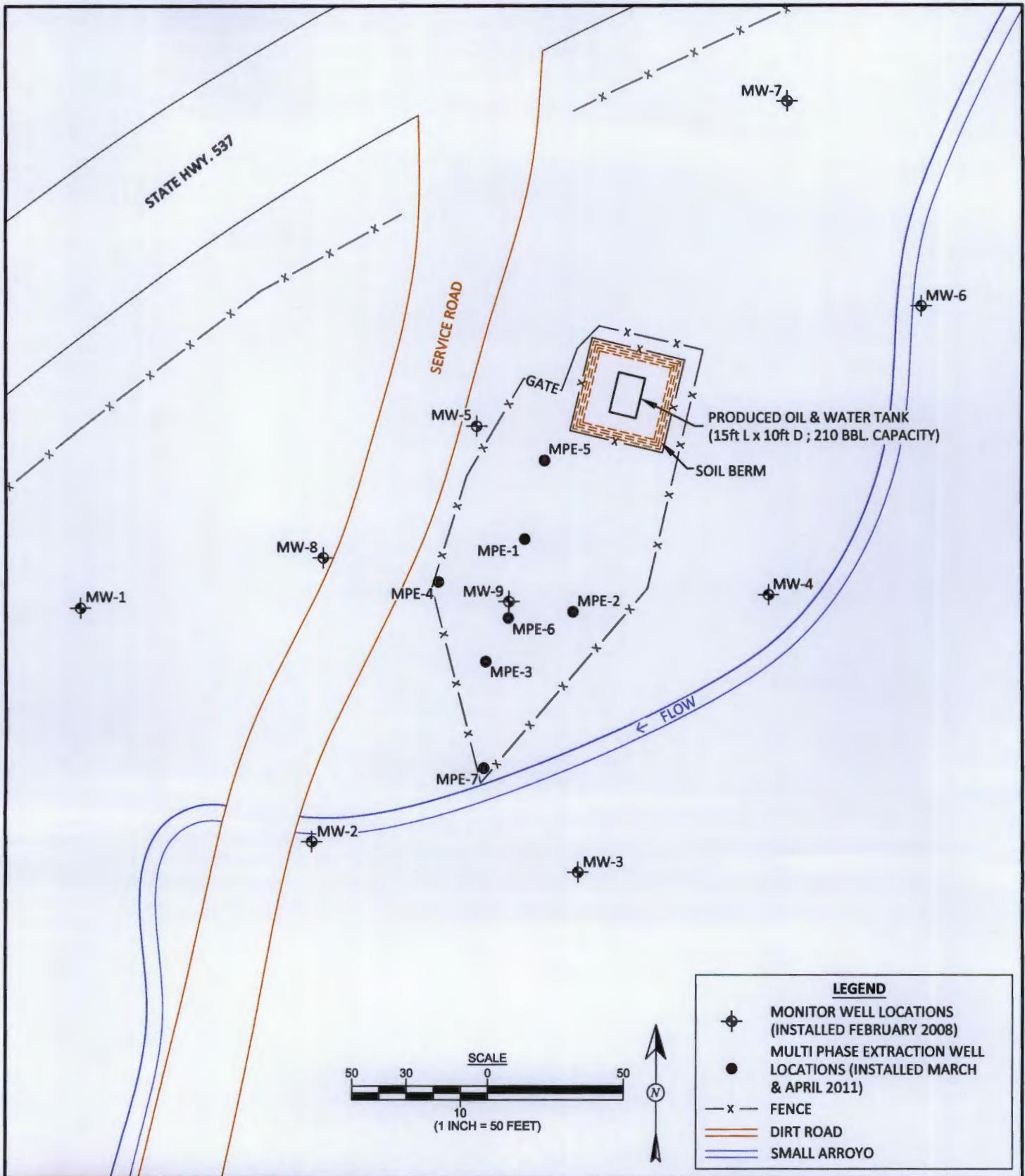
SCHMITZ RANCH QUADRANGLE  
NEW MEXICO - RIO ARRIBA COUNTY  
1963



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

**FIGURE 1**

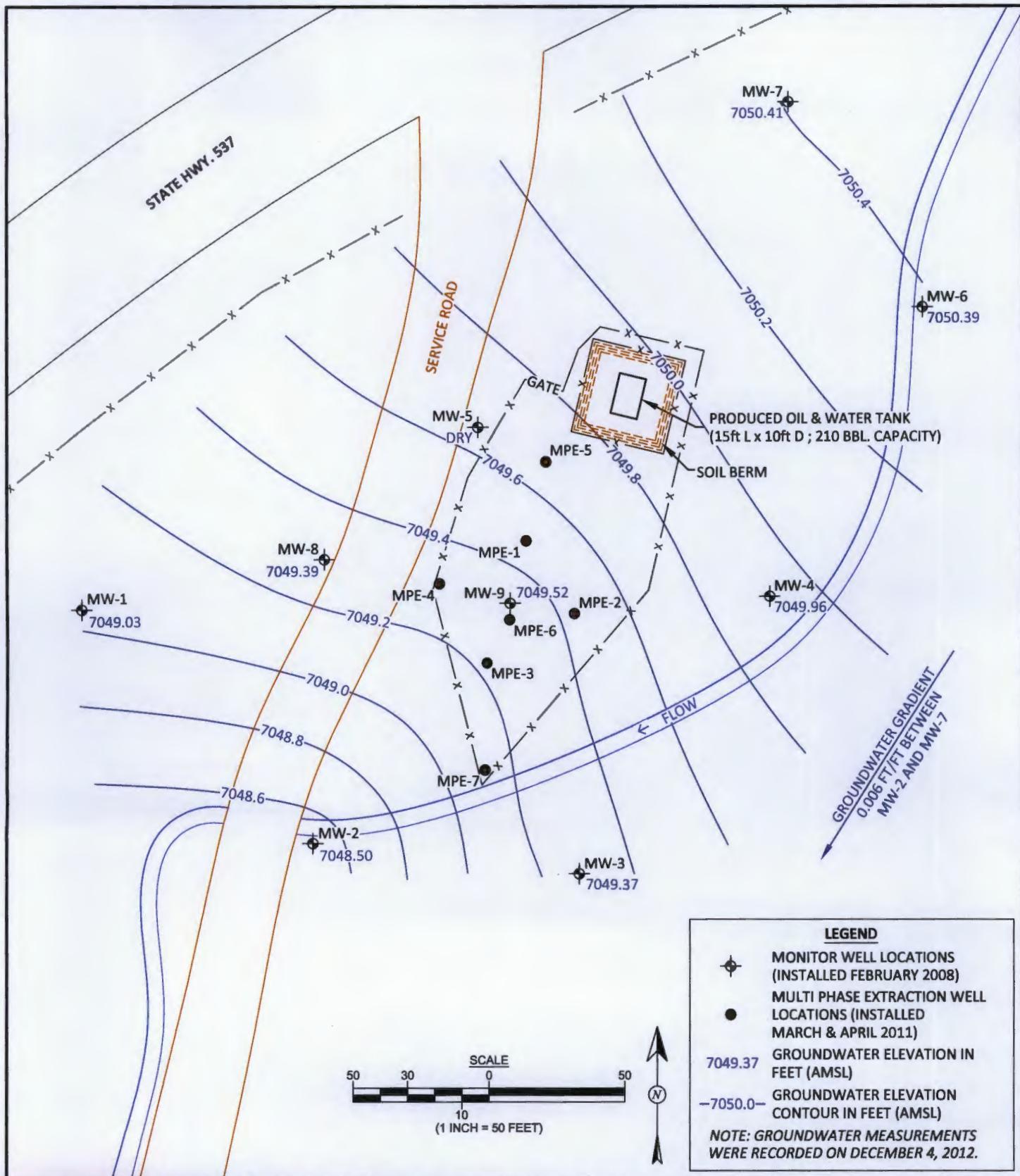
**TOPOGRAPHIC SITE LOCATION MAP**  
BMG HIGHWAY 537  
LLAVES 2008 PIPELINE OIL RELEASE  
 $NW\frac{1}{4} NE\frac{1}{4}$ , SEC. 18, T25N, R3W  
SCHMITZ RANCH  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.40357, W107.18422



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

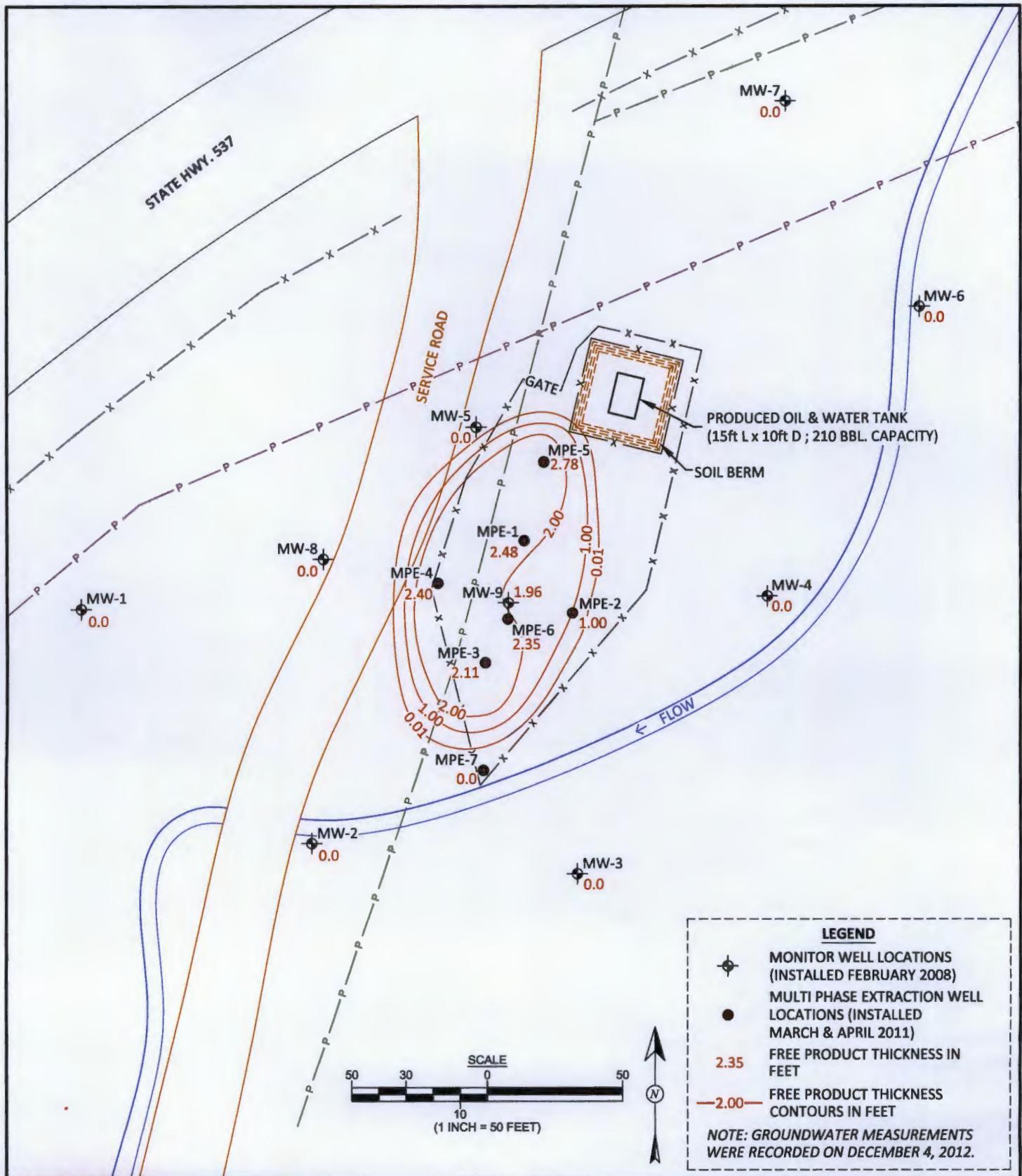
**FIGURE 2**

**GENERAL SITE PLAN**  
BMG HIGHWAY 537  
Llaves 2008 PIPELINE OIL RELEASE  
NW $\frac{1}{4}$  NE $\frac{1}{4}$ , SEC. 18, T25N, R3W  
SCHMITZ RANCH  
RIO ARriba COUNTY, NEW MEXICO  
N36.40357, W107.18422



**FIGURE 3**

**GROUNDWATER ELEVATION  
CONTOURS, DECEMBER 2012**  
**BMG HIGHWAY 537**  
**LLAVES 2008 PIPELINE OIL RELEASE**  
**NW $\frac{1}{4}$  NE $\frac{1}{4}$ , SEC. 18, T25N, R3W**  
**SCHMITZ RANCH, RIO ARRIBA COUNTY, NEW MEXICO**  
**N36.40357, W107.18422**



**FIGURE 4**

**FREE PRODUCT THICKNESS CONTOURS, DECEMBER 2012**  
**BMG HIGHWAY 537**  
**LLAVES 2008 PIPELINE OIL RELEASE**  
**NW $\frac{1}{4}$  NE $\frac{1}{4}$ , SEC. 18, T25N, R3W**  
**SCHMITZ RANCH, RIO ARRIBA COUNTY, NEW MEXICO**  
**N36.40357, W107.18422**

**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. Lamone

**Project No.:** AES 080101

**Date:** 12-4-2012

**Time:** 0810

**Form:** 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	0840		33.54		1" PVC Pipe needs cap
MW-2	0836		31.44		1" PVC Pipe needs cap
MW-3	0829		31.73		1" PVC Pipe needs cap
MW-4	0832 er		34.83	0"	1" PVC Pipe needs cap
MW-5	0847		Dry		34.90 - TDW NEEDS CAP 1" PVC
MW-6	0826		38.04	0"	1" PVC NEEDS CAP
MW-7	0850 er		39.74 er		1" PVC NEEDS CAP 3' Above ground well
MW-8	0844		35.81		1" PVC 3' Above ground
MW-9	0929	33.68	35.64		1" Well PVC needs cap 3' Above ground
MPE-1	0921	35.04	37.54		2" well 3' Above ground
MPE-2	0917	33.68	34.68		2" well 3' ABOVE ground
MPE-3	0857	33.64	35.75		2" well 3' ABOVE ground
MPE-4	0902	34.63	37.03		2" well 3' ABOVE ground
MPE-5	0926	36.04	38.84		2" well 3' ABOVE ground
MPE-6	0910	33.88	36.23		2" well 3' above ground Need cap.
MPE-7	0855		32.09		2" well 3' above ground

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

<b>MONITORING WELL SAMPLING RECORD</b>		Animas Environmental Services					
Monitor Well No: <u>MW-8</u>		624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022					
Site: Highway 537 2008 Spill		Project No.: AES 080101					
Location: Rio Arriba County, New Mexico		Date: <u>12/4/2012</u>					
Project: Groundwater Monitoring and Sampling		Arrival Time: <u>0940</u>					
Sampling Technician: <u>Nathan Williams L. LAMONE</u>		Air Temp: <u>42° F</u>					
Purge / No Purge: <u>No Purge</u>		T.O.C. Elev. (ft): <u>7085.2</u>					
Well Diameter (in): <u>0.75</u>		Total Well Depth (ft): <u>39.15</u>					
Initial D.T.W. (ft): <u>35.81</u>		Time: <u>0844</u> (taken at initial gauging of all wells)					
Confirm D.T.W. (ft): <u>35.81</u>		Time: <u>0942</u> (taken prior to purging well)					
Final D.T.W. (ft): <u>38.00</u>		Time: <u>1030</u> (taken after sample collection)					
If NAPL Present: D.T.P.: _____		D.T.W.: _____ Thickness: _____ Time: _____					
<b>Water Quality Parameters - Recorded During Well Purging</b>							
Time	Temp (deg C)	Conductivity ( $\mu\text{S}$ ) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
<u>1020</u>	<u>8.50</u>	<u>0.315</u>	<u>4.92</u>	<u>7.43</u>	<u>-91.2</u>	<u>1 cup</u>	<u>Clear</u>
							<u>Organic Floaters</u>
							<u>Well is <del>so hard</del> to collect.</u>
							<u>Time consuming.</u>
<b>Analytical Parameters (include analysis method and number and type of sample containers)</b>							
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: <u>None</u>							
Collected Samples Stored on Ice in Cooler: <u>Yes</u>							
Chain of Custody Record Complete: <u>Yes</u>							
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							
<b>Notes/Comments:</b>							
<u>3.34</u>							



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

December 11, 2012

Debbie Watson  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-4071  
FAX (505) 324-2022

RE: BMG Hwy 537 2008 Release

OrderNo.: 1212334

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/6/2012 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](http://www.hallenvironmental.com) or the state specific web sites. 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. 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1212334

Date Reported: 12/11/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** Trip Blank**Project:** BMG Hwy 537 2008 Release**Collection Date:****Lab ID:** 1212334-001**Matrix:** TRIP BLANK**Received Date:** 12/6/2012 9:55:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Analyst: NSB</b>
<b>EPA METHOD 8021B: VOLATILES</b>							
Benzene	ND	1.0		µg/L	1	12/7/2012 11:57:55 PM	
Toluene	ND	1.0		µg/L	1	12/7/2012 11:57:55 PM	
Ethylbenzene	ND	1.0		µg/L	1	12/7/2012 11:57:55 PM	
Xylenes, Total	ND	2.0		µg/L	1	12/7/2012 11:57:55 PM	
Surr: 4-Bromofluorobenzene	95.9	69.7-152		%REC	1	12/7/2012 11:57:55 PM	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 1 of 5

**Analytical Report**  
Lab Order 1212334  
Date Reported: 12/11/2012

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services  
**Project:** BMG Hwy 537 2008 Release  
**Lab ID:** 1212334-002

**Matrix:** AQUEOUS

**Client Sample ID:** MW-8

**Collection Date:** 12/4/2012 10:20:00 AM  
**Received Date:** 12/6/2012 9:55:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/7/2012 11:13:51 PM	Analyst: MMD
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/7/2012 11:13:51 PM	
Surr: DNOP	112	79.5-166		%REC	1	12/7/2012 11:13:51 PM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/8/2012 12:28:11 AM	Analyst: NSB
Surr: BFB	97.3	51.9-148		%REC	1	12/8/2012 12:28:11 AM	
<b>EPA METHOD 8021B: VOLATILES</b>							
Benzene	ND	1.0		µg/L	1	12/8/2012 12:28:11 AM	Analyst: NSB
Toluene	ND	1.0		µg/L	1	12/8/2012 12:28:11 AM	
Ethylbenzene	ND	1.0		µg/L	1	12/8/2012 12:28:11 AM	
Xylenes, Total	ND	2.0		µg/L	1	12/8/2012 12:28:11 AM	
Surr: 4-Bromofluorobenzene	94.3	69.7-152		%REC	1	12/8/2012 12:28:11 AM	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212334

11-Dec-12

Client: Animas Environmental Services  
Project: BMG Hwy 537 2008 Release

Sample ID	MB-5160	SampType:	MBLK	TestCode: EPA Method 8015B: Diesel Range							
Client ID:	PBW	Batch ID:	5160	RunNo: 7361							
Prep Date:	12/7/2012	Analysis Date:	12/7/2012	SeqNo:	213899	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									
Sur: DNOP	1.0		1.000		103	79.5	166				

Sample ID	LCS-5160	SampType:	LCS	TestCode: EPA Method 8015B: Diesel Range							
Client ID:	LCSW	Batch ID:	5160	RunNo: 7361							
Prep Date:	12/7/2012	Analysis Date:	12/7/2012	SeqNo:	213900	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	5.6	1.0	5.000	0	112	64.4	132				
Sur: DNOP	0.48		0.5000		96.6	79.5	166				

Sample ID	LCSD-5160	SampType:	LCSD	TestCode: EPA Method 8015B: Diesel Range							
Client ID:	LCSS02	Batch ID:	5160	RunNo: 7361							
Prep Date:	12/7/2012	Analysis Date:	12/7/2012	SeqNo:	213901	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	64.4	132	2.75	20		
Sur: DNOP	0.49		0.5000		97.9	79.5	166	0	0		

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212334  
11-Dec-12

Client: Animas Environmental Services  
Project: BMG Hwy 537 2008 Release

Sample ID	5ML RB	SampType:	MBLK	TestCode: EPA Method 8015B: Gasoline Range						
Client ID:	PBW	Batch ID:	R7391	RunNo: 7391						
Prep Date:		Analysis Date:	12/7/2012	SeqNo: 214089 Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Sur: BFB	19		20.00		95.6	51.9	148			
Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode: EPA Method 8015B: Gasoline Range						
Client ID:	LCSW	Batch ID:	R7391	RunNo: 7391						
Prep Date:		Analysis Date:	12/7/2012	SeqNo: 214090 Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	115	75.9	119			
Sur: BFB	20		20.00		98.9	51.9	148			
Sample ID	1212334-002AMS	SampType:	MS	TestCode: EPA Method 8015B: Gasoline Range						
Client ID:	MW-8	Batch ID:	R7391	RunNo: 7391						
Prep Date:		Analysis Date:	12/7/2012	SeqNo: 214102 Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0.01840	111	63.5	131			
Sur: BFB	20		20.00		101	51.9	148			
Sample ID	1212334-002AMSD	SampType:	MSD	TestCode: EPA Method 8015B: Gasoline Range						
Client ID:	MW-8	Batch ID:	R7391	RunNo: 7391						
Prep Date:		Analysis Date:	12/7/2012	SeqNo: 214103 Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0.01840	105	63.5	131	4.94	16.7	
Sur: BFB	20		20.00		98.0	51.9	148	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212334

11-Dec-12

Client: Animas Environmental Services  
Project: BMG Hwy 537 2008 Release

Sample ID	5ML RB	SampType:	MBLK	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBW	Batch ID:	R7391	RunNo: 7391						
Prep Date:	Analysis Date: 12/7/2012			SeqNo:	214172	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								
Sur: 4-Bromofluorobenzene	20	20.00		97.7	69.7	152				

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSW	Batch ID:	R7391	RunNo: 7391						
Prep Date:	Analysis Date: 12/7/2012			SeqNo:	214173	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Toluene	21	1.0	20.00	0	103	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Sur: 4-Bromofluorobenzene	20	20.00		103	69.7	152				

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4101  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1212334
Received by/date:	AG 12/06/12		
Logged By:	Lindsay Mangin	12/6/2012 9:55:00 AM	<i>Jay Huggo</i>
Completed By:	Lindsay Mangin	12/6/2012 3:58:59 PM	<i>Jay Huggo</i>
Reviewed By:	TO 12/07/2012		

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes  No  NA
  5. Was an attempt made to cool the samples? Yes  No  NA
  6. Were all samples received at a temperature of >0° C to 6.0° C Yes  No  NA
  7. Sample(s) in proper container(s)? Yes  No
  8. Sufficient sample volume for indicated test(s)? Yes  No
  9. Are samples (except VOA and ONG) properly preserved? Yes  No
  10. Was preservative added to bottles? Yes  No  NA
  11. VOA vials have zero headspace? Yes  No  No VOA Vials
  12. Were any sample containers received broken? Yes  No
  13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes  No
  14. Are matrices correctly identified on Chain of Custody? Yes  No
  15. Is it clear what analyses were requested? Yes  No
  16. 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)

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

