### 3R - 448

**2009 GWMR** 

02/11/2009

#### Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . Tel. 505-564-2281 . FAX 505-324-2022 . www.animaservironmental.com

2000 FEB 19 PM 1 46

February 11, 2009

Wayne Price Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

Dixon Sandoval Jicarilla Apache Nation Environmental Protection Office P.O. Box 507 Dulce, NM 87528

Re: Periodic Progress Report for the Benson-Montin-Greer Highway 537 Truck Receiving Station Llaves Pipeline 2007 Oil Spill, Rio Arriba County, New Mexico

Dear Sirs:

Animas Environmental Services, LLC (AES), on behalf of Benson-Montin-Greer Drilling Corporation (BMG), conducted groundwater sampling of monitoring wells at the BMG Highway 537 Truck Receiving Station 2007 Spill Location on December 31, 2008, and January 5 and 6, 2009. Work was conducted in accordance with a Sampling and Analysis Plan (SAP) submitted to the Jicarilla Apache Nation Environmental Protection Office (JEPO) and the U.S. Environmental Protection Agency (USEPA) on April 4, 2007.

The release originated in March 2007 on the Schmitz Ranch within the SW¼ NW¼ of Section 18, T25N, R3W (latitude and longitude recorded as N36° 23' 59.781" and W107° 11' 26.450"). Petroleum hydrocarbons flowed into the Los Ojitos Arroyo and then downstream to a livestock pond located on Jicarilla Apache Nation Land within the SE¼ SE¼ of Section 13, T25N, R4W (latitude and longitude recorded as N36° 23' 40.417" and W107° 11' 53.337"), Rio Arriba County, New Mexico. The locations of the release and flow route are shown on Figures 1 and 2.

#### 1.0 Site History

On March 7, 2007, Schmitz Ranch personnel observed oil leaking into the Los Ojitos Canyon Arroyo. BMG personnel discovered that a small corrosion hole in the Llaves Pipeline, which runs parallel to the south side of Highway 537, was the source of the leaking oil, and the pipeline was removed from service until the pipeline was repaired and clean up action was completed.



Approximately 25,230 cubic yards of petroleum-contaminated soils were excavated from the origin of the oil pipeline leak toward the Los Ojitos Arroyo and within the arroyo during March and April 2007. The soils were then transported off-site to a New Mexico Oil Conservation Division (NMOCD) permitted facility, the Schmitz Ranch Landfarm. Confirmation samples were collected by AES personnel for soil confirmation during excavation activities and surface water at Vigil Pond on April 3, 2007. Excavation and clean up efforts are discussed in detail within the SAP prepared by AES and dated April 5, 2007, which was submitted to the JEPO and USEPA.

On July 16 and 17, 2007, AES installed 11 monitoring wells along the route of the release in order to define the lateral and vertical extent of near surface and subsurface soil contamination. Analytical results from groundwater samples collected during the September 2008 sampling event show that benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH) C<sub>6</sub>-C<sub>36</sub> concentrations in all wells sampled remained below laboratory detection limits. Note that two wells, MW-9 and MW-11, were not sampled during the September 2008 sampling event. Details of groundwater sampling were presented within the AES *Groundwater Monitoring Report*, dated October 30, 2008.

#### 2.0 Groundwater Monitoring and Sampling

AES personnel conducted groundwater monitoring and sampling at the project area on December 31, 2008, and January 5 and 6, 2009. Groundwater samples were laboratory analyzed for BTEX and TPH per EPA Methods 8021/8015 at Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico.

#### 2.1 Groundwater Measurements and Water Quality Data

During the December 2008 and January 2009 sampling event, groundwater measurements were recorded for MW-1 through MW-6 and MW-8. Groundwater measurements were not recorded for MW-7, MW-10, and MW-11 because the wells were dry or contained ice. MW-9 had been destroyed and therefore was not measured. Groundwater elevations were measured with a Keck water level with accuracy to 0.01 foot and found to range from 7,031.74 feet above mean sea level (amsl) in MW-1 up to 7,052.35 feet amsl in MW-8. Groundwater elevations were noted to have decreased from the September 2008 sampling event.

Water quality measurements were made with an YSI Water Quality Meter in MW-1, MW-5, MW-6, and MW-8. The YSI was not functioning during measurement of MW-2, and MW-3. Out of the wells measured for water quality data, temperature ranged from 6.78°C in MW-8 to 11.91°C in MW-4. pH ranged from 6.25 to 6.94, and dissolved oxygen concentrations ranged between 2.22 mg/L in MW-5 and 4.36 mg/L in MW-4. Oxidation reduction potential (ORP) measurements were between 21.8 mV to 231.2 mV, and conductivity readings were between 2.430 mS and 23.84 mS. Depth to groundwater measurements and water quality data are presented in Table 1. Water Sample Collection Forms are included as Appendix A.

#### 2.2 Groundwater Analytical Results

Groundwater samples were collected from MW-1 through MW-6 and MW-8 for laboratory analysis on December 31, 2008, and January 5 and 6, 2009. In each of the wells sampled, analytical results for BTEX showed that concentrations remained below laboratory detection limits, and therefore also below applicable New Mexico Water Quality Control Commission (WQCC) standards for BTEX. TPH concentrations were also below laboratory detection limits in each of the wells sampled.

Tabulated laboratory analytical results are included in Table 2, and laboratory analytical reports are attached as Appendix B.

#### 3.0 Conclusions and Recommendations

Petroleum hydrocarbon impacts to groundwater have not been detected since the monitor wells were installed in July 2007. Groundwater laboratory analytical results continued to show non-detectable concentrations of BTEX and TPH in December 2008 and January 2009. AES recommends that the site be considered for no further action status.

If you have any questions about site conditions or this report, please feel free to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Deborah Watson Project Manager

Elizabeth McNally, P.E.

Debruh Watsu

Attachment:

Figures Tables

Appendix A. Water Sample Collection Forms

Appendix B. Laboratory Analytical Reports

Cc:

**Brandon Powell** 

New Mexico Oil Conservation Division

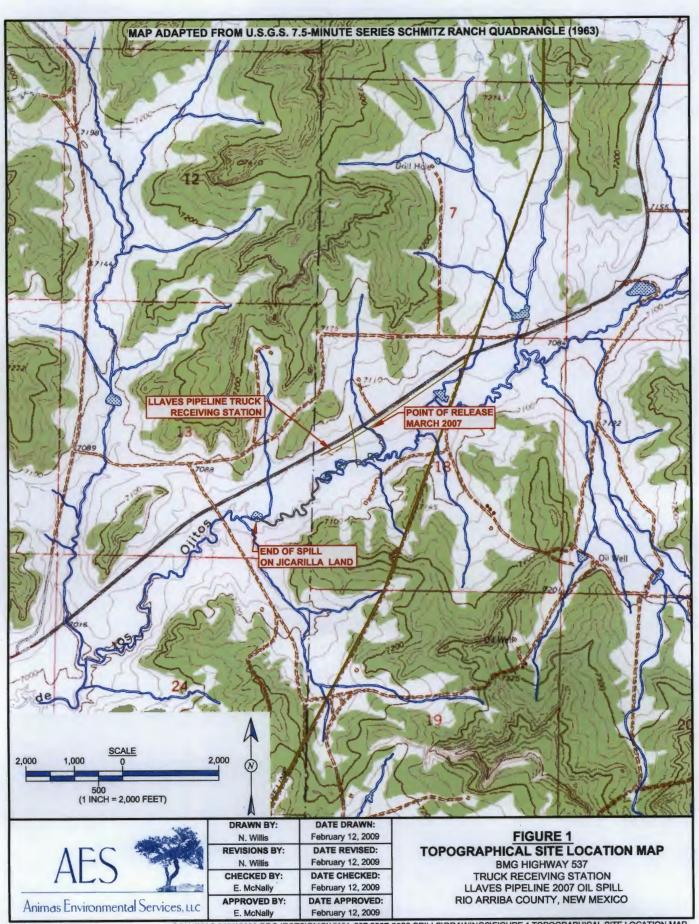
1000 Rio Brazos Rd. Aztec, NM 87410

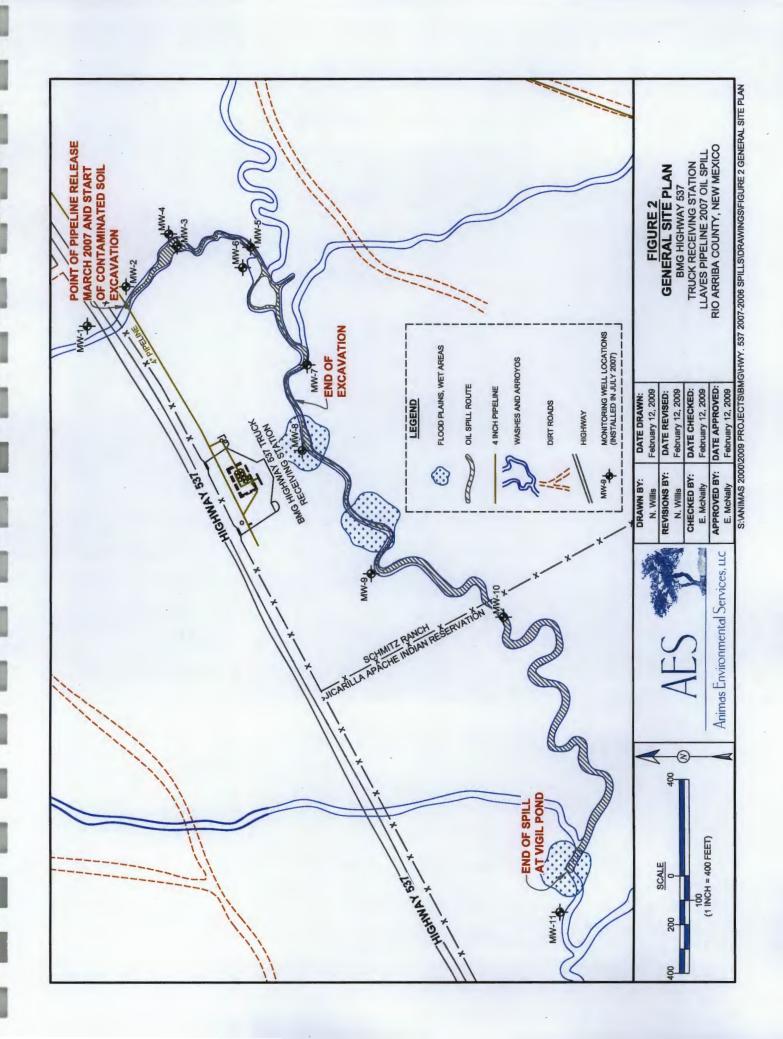
Mike Dimond

Benson-Montin-Greer Drilling Corp.

4900 College Blvd Farmington NM 87402

File: 2009\BMG\Hwy. 537 2007-2006 Spills\Reports\gc Letter Report 013009





## Periodic Progress Report February 11, 2009

# TABLE 1 GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA BMG LLAVES PIPELINE SPILL 2006 and 2007 Rio Arriba County, New Mexico

Well ID         Date           Sampled         Sampled           MW-1         08-Aug-07           MW-1         16-Apr-08           MW-1         26-Sep-08           MW-1         31-Dec-08           MW-2         07-Nov-07		Depth to Water (ft) 10.05 7.92 8.96 5.66	Surveyed TOC (ft) 7109 7109 7109 7109 7109 7103 7103 7103	GW Elev.	된	Conductivity (mS)	Oxygen (mg/L)	Temperature (C)	ORP (mV)
		10.05 10.05 7.92 8.96 5.66	7109 7109 7109 7109 7103 7103		5	(0111)	(11.8/L)		
	0.08 0.08 0.07 0.07	10.05 7.92 8.96 5.66	7109 7109 7109 7103 7103				NM - WELL	OH.	
	80 0.08 -07 -07	10.05 7.92 8.96 5.66	7109 7109 7103 7103 7103				1 .	DRY	
	80 - 00 -07 - 00 -08 - 08	7.92 8.96 5.66	7109 7109 7103 7103	7098.95			NM - LOW YIELD	IELD	
	-08 -07 -07	7.92	7109 7103 7103				NM - WELL DRY	DRY	
11	-07	7.92 8.96 5.66	7103				NM - WELL DRY	DRY	
	20 07 08	8.96	7103	2005.00	MIN	VIV	MIN	MA	MA
	8 8	5.66	7103	7004.04		1 7EA	NINI OC 9	11.67	NIM DE 7
	9 8	00.0	1103	7007.04	20.02	4.734	0.00	70.17	95.7
		7 24	-	7005 60	8.60	1.896	3.70	9.82	-05.3
	9 3	1.31	/103	69.0607	0.80	3.003	<u> </u>	17.44	-90.1
MW-2 31-Dec-08	89	96.8	7103	7094.04	6.14	4.500	ΣZ	6.88	67.8
MW-3 08-Aug-07	-07	31.08	7124	7092.92	ΣN	NN	NM	ΝN	WN
MW-3 07-Nov-07	-07	31.75	7124	7092.25			NM - LOW Y	YIELD	
MW-3 16-Apr-08	90	29.81	7124	7094.19	8.23	5.352	3.79	11.56	5.4
MW-3 26-Sep-08	-08	31.29	7124	7092.71			NM - LOW YIELD	IELD	
MW-3 31-Dec-08	-08	31.71	7124	7092.29	2.60	6.170	NM	8.67	93.1
MW-4 08-Aug-07	-07	6.80	7064	7057.20	NM	NN	NM	ΝN	NM
MW-4 07-Nov-07	-07	7.14	7064	7056.86	7.96	4.904	5.73	13.89	-45.6
MW-4 16-Apr-08	90	6.11	7064	7057.89	8.69	4.141	4.61	9.22	-35.4
MW-4 26-Sep-08	-08	7.49	7064	7056.51			NM - LOW YIELD	IELD	
MW-4 31-Dec-08	-08	7.27	7064	7056.73	6.25	5.153	NM	8.11	-59.4
MW-5 08-Aug-07	-07	33.01	7084	7050.99	ΣN	ΣZ	ΣN	ΣZ	MN
MW-5 07-Nov-07	-07	33.20	7084	7050.80	8.34	2.900	6.40	12.84	12.5
MW-5 15-Apr-08	80	32.23	7084	7051.77	9.14	2.937	1.94	13.75	-22.5

# TABLE 1 GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA BMG LLAVES PIPELINE SPILL 2006 and 2007 Rio Arriba County, New Mexico

							Dissolved		
Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	рН	Conductivity (mS)	Oxygen (mg/L)	Temperature (C)	ORP (mV)
MW-5	26-Sep-08	33.60	7084	7050.40			NM - LOW YIELD	ELD	
MW-5	31-Dec-08	33.33	7084	7050.67	6.02	3.510	NM	10.01	9.1
MW-6	08-Aug-07	11.81	7058	7046.19			NM - LOW YIELD	ELD	
MW-6	07-Nov-07	12.23	7058	7045.77			NM - LOW YIELD	IELD	
MW-6	15-Apr-08	10.02	7058	7047.98	8.55	6.950	2.70	12.71	43.3
MW-6	26-Sep-08	12.45	7058	7045.55			NM - LOW YIELD	IELD	
MW-6	31-Dec-08	12.32	7058	7045.68			NM - LOW YIELD	IELD	
MW-7	08-Aug-07	28.14	7070	7041.86			NM - LOW YIELD	ELD	
MW-7	07-Nov-07		7070				NM - WELL DRY	JRY	
MW-7	15-Apr-08	26.48	7070	7043.52			NM-LOW YIELD	ELD	
MW-7	26-Sep-08	28.10	7070	7041.90			NM-LOW YIELD	ELD	
MW-7	31-Dec-08		7070				NM - WELL DRY	DRY	
MW-8	08-Aug-07		7056				NM - WELL DRY	DRY	
MW-8	08-Nov-07		7056				NM - WELL DRY	DRY	
MW-8	15-Apr-08	12.78	7056	7043.22			NM-LOW YIELD	ELD	
MW-8	26-Sep-08		7056				NM - WELL DRY	JRY	
MW-8	30-Dec-08		7056				NM - WELL DRY	JRY	
MW-9	08-Aug-07	5.49	7029	7023.51	NM	MN	NM	MN	NM
MW-9	07-Nov-07	5.41	7029	7023.59	7.97	1.277	2.63	11.51	-54.7
WW-9	15-Apr-08	4.18	7029	7024.82	9.00	1.667	2.44	9.05	-68.2
MW-9	26-Sep-08	5.65	7029	7023.35	6.87	1.692	1.39	15.73	-37.8
WW-9	30-Dec-08	5.08	7029	7023.92	6.42	1.759	NM	5.40	-83.6

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# TABLE 1 GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA BMG LLAVES PIPELINE SPILL 2006 and 2007 Rio Arriba County, New Mexico

							Dissolved		
Well ID	Date Sampled	Depth to Water (ft)	Surveyed TOC (ft)	GW Elev. (ft)	рН	Conductivity (mS)	Oxygen (mg/L)	Temperature (C)	ORP (mV)
MW-10	08-Aug-07	4.50	7019	7014.50	MN	WN	NM	ΝN	NM
MW-10	07-Nov-07	4.77	7019	7014.23	7.54	4.942	2.96	13.62	-1.3
MW-10	15-Apr-08	4.10	7019	7014.90	8.76	4.668	2.65	10.96	-13.4
MW-10	26-Sep-08	6.01	7019	7012.99	6.44	4.302	2.58	17.37	15.9
MW-10	30-Dec-08	5.42	7019	7013.58	5.98	4.393	MN	4.94	-90.9
MW-11	08-Aug-07	15.99	7043	7027.01	MN	MN	MN	ΝN	ΝZ
MW-11	07-Nov-07	15.91	7043	7027.09	8.14	1.144	2.84	13.12	40.2
MW-11	15-Apr-08	14.78	7043	7028.22	9.31	1.162	2.55	13.07	-67.7
MW-11	26-Sep-08	16.14	7043	7026.86	6.78	1.297	3.50	15.74	-74.5
MW-11	30-Dec-08	15.49	7043	7027.51	5.89	1.545	ΣN	98.6	-148.0
MW-12	08-Aug-07	3.97	7015	7011.03	NM	MN	NM	WN	NM
MW-12	07-Nov-07	3.45	7015	7011.55	8.04	1.152	3.60	10.09	-102.6
MW-12	15-Apr-08		7015	7015.00	N	UNABLE TO REACH WELL	- 1	SURROUNDED BY	BY WATER
MW-12	26-Sep-08	4.38	7015	7010.62	6.68	1.221	1.46	15.83	-81.8
MW-12	30-Dec-08		7015			NM - F	NM - FROZEN WATER IN WEL	ER IN WELL	
MW-13	8-Aug-07	4.47	6988	6983.53		- MN	EQUIPMENT	FAILURE	
MW-13	07-Nov-07	4.44	6988	6983.56	7.52	8.288	4.35	11.27	42.5
MW-13	15-Apr-08	3.70	6988	6984.30	8.46	7.006	3.85	10.04	40.5
MW-13	26-Sep-08	5.99	6988	6982.01	6.75	7.561	2.73	17.06	-10.4
MW-13	30-Dec-08	3.58	6988	6984.42	6.26	6.284	ΝZ	4.80	24.1
MW-14	8-Aug-07	4.61	8269	6973.39	7.45	2.500	2.10	19.55	114.7
MW-14	7-Nov-07	4.50	8269	6973.50	7.59	1.800	7.64	6.85	-86.1
MW-14	15-Apr-08	3.66	8269	6974.34	8.71	3.081	3.88	98.6	-111.8

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**GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA BMG LLAVES PIPELINE SPILL 2006 and 2007** Rio Arriba County, New Mexico TABLE 1

							Dissolved		
Well ID	Date	Depth to	Surveyed	GW Elev.		Conductivity	Oxygen	Temperature	ORP
	Sampled	Water (ft)	TOC (ft)	(ft)	рH	(mS)	(mg/L)	(၁)	(mV)
MW-14	26-Sep-08	6.29	8269	6971.71	7.16	2.095	4.47	15.30	-35.9
MW-14	30-Dec-08		8269			NM - F	NM - FROZEN WATER IN WELL	ER IN WELL	
NOTE:	NM = NOT MEASUREI	ASURED							

### TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL DATA BMG LLAVES PIPELINE SPILL 2006 and 2007 Rio Arriba County, New Mexico

	Data			Est. 1	<b>T</b>		
Sample I.D.	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total	DRO	GRO
Sample i.b.	Sampled				Xylenes		
Analytic	al Method	(μg/L) 8021B	(μg/L) 8021B	(μg/L) 8021B	<i>(μg/L)</i> 8021B	(mg/L) 8015B	(mg/L) 8015B
	ico WQCC	10	750	750	620	NE	NE
MW-1	08-Aug-07	10	750		/ell Dry	IVL.	IVL
MW-1	08-Aug-07				/ell Dry		
MW-1	16-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-1	26-Sep-08	<u> </u>	<1.0		/ell Dry	V1.0	20.030
MW-1	31-Dec-08				/ell Dry		
10100-1	31-Dec-08			143 - 44	reli Diy		
MW-2	08-Aug-07	<1.0	<1.0	<1.0	<2.0	-1.0	-0.0E0
MW-2	07-Nov-07	<1.0	<1.0	<1.0	<2.0	<1.0 <1.0	<0.050 <0.050
MW-2	16-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-2	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-2	31-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
	01-060-00	\1.0	\1.0	V1.0	\Z.U	<1.0	V0.030
MW-3	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-3	07-Nov-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-3	16-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-3	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-3	31-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
	01-200-00	<u> </u>	V1.0	V1.0	\Z.U	<1.0	V0.030
MW-4	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-4	07-Nov-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-4	16-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-4	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-4	31-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
	0. 200 00			1710		-110	10.000
MW-5	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-5	07-Nov-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-5	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-5	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-5	31-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-6	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-6	07-Nov-07				w Yield		
MW-6	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-6	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-6	31-Dec-08				w Yield		
		,			1000	141-	
MW-7	08-Aug-07			NS - Lo	w Yield		

## TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL DATA BMG LLAVES PIPELINE SPILL 2006 and 2007 Rio Arriba County, New Mexico

Commis I D	Date	Bannana	Taluana	Ethyl-	Total	DDO	CDO
Sample I.D.	Sampled	Benzene	Toluene	benzene	Xylenes	DRO	GRO
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(mg/L)
	al Method	8021B	8021B	8021B	8021B	8015B	8015B
	ico WQCC	10	750	750	620	NE	NE
MW-7	07-Nov-07				/ell Dry		
MW-7	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-7	26-Sep-08			NS - Lo			
MW-7	31-Dec-08			NS - W	/ell Dry		· · · · · · · · · · · · · · · · · · ·
MW-8	08-Aug-07				/ell Dry		N. II
MW-8	07-Nov-07			NS - W	/ell Dry		<u></u>
MW-8	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-8	26-Sep-08			NS - W	/ell Dry		
MW-8	30-Dec-08			NS - W	ell Dry		
MW-9	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-9	07-Nov-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-9	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-9	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-9	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-10	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-10	07-Nov-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-10	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-10	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-10	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-11	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-11	07-Nov-07	<1.0	<1.0	<1.0	<2.0	1.2	<0.050
MW-11	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-11	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-11	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-12	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-12	07-Nov-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-12	15-Apr-08	NS	NS	NS	NS	NS	NS
MW-12	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-12	30-Dec-08	1.0			n Well Froze		
	55 2 55 55						
MW-13	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-13	07-Nov-07	<1.0	<1.0	<1.0	<2.0	1.0	<0.050

### TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL DATA BMG LLAVES PIPELINE SPILL 2006 and 2007 Rio Arriba County, New Mexico

Sample I.D.	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DRO	GRO
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(mg/L)	(mg/L)
Analytica	al Method	8021B	8021B	8021B	8021B	8015B	8015B
New Mex	ico WQCC	10	750	750	620	NE	NE
MW-13	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-13	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-13	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-14	08-Aug-07	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-14	07-Nov-07	<1.0	<1.0	<1.0	<2.0	1.1	<0.050
MW-14	15-Apr-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-14	26-Sep-08	<1.0	<1.0	<1.0	<2.0	<1.0	<0.050
MW-14	30-Dec-08		N	S - Water ir	n Well Froze	en	

NOTE: NS = Not Sampled

Note: DRO samples for MW-9, MW-10, MW-11, and MW-12, collected December 30, 2008 were analyzed one day past the holding time.

MONITO	RING WE	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services		
Monitor W	ell No:	MW-1			624 E.	Comanche, Farmington	NM 87401		
						5) 564-2281 Fax (505)			
		37 Station Spill			Proje	ct No.: AES 070302			
		County, New Me	xico	-		Date: 12-21-68	· •		
		er Monitoring		-		Time: 13:25	-		
Sampling	l echnician: / No Purge:	N. Willis/C.L	nneman	· +	Air O.C. El∉	Temp: 35'	•		
	ameter (in):				Nell Dep		-		
	D.T.W. (ft):		Time:	- 101411	von Dop	(taken at initial gauging	of all wells)		
	D.T.W. (ft):		Time:	15.2	7	(taken prior to purging			
Final	D.T.W. (ft):		Time:			(taken after sample col	llection)		
	7	Water Quality	Paramete	ers - Red	corded	During Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
15:32	11:43	3.925	9.83	6.25	174.9	.25			
15:37				,		,			
				:					
		- 27							
Analytical Parameters (include analysis method and number and type of sample containers)									
BTEX per EPA Method 8021 (2 40mL Vials w/ HCI)									
		TPH C <sub>6</sub> -C <sub>36</sub> per							
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	d 8015B	( 40mL \	/ials no preservative)			
	D	isposal of Purg	ed Water:						
Collect		Stored on Ice i							
	•	stody Record (	-						
		-	•	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque NM		
Equipment	Used Durin	g Sampling:	_			, YSI Water Quality Met			
						ble Bailer	,		
Notes/Com	ments				•				
		1.00	_						

MONITO	RING WE	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services		
Monitor W	ell No:	MW-2			624 E. 0	Comanche, Farmington	NM 87401		
			-			5) 564-2281 Fax (505)			
		37 Station Spill		-	Proje	ct No.: AES 070302	_		
		County, New Me	xico	_		Date: 1-5-08	•		
		er Monitoring		-		Time: 1255	-		
	Technician:					Temp: 220F	-		
_	/ No Purge: ameter (in):			-	.O.C. Ele Vell Dep	` '	-		
	D.T.W. (ft):		Time:	- IOIAI V	ren beb	(taken at initial gauging	of all wells)		
	D.T.W. (ft):		Time:	12	59	(taken prior to purging	•		
	D.T.W. (ft):		Time:			(taken after sample co	•		
	,	Water Quality	Paramete	ers - Rec	orded	During Well Purging	l		
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1305						0. 75	Samples Lollected		
1,500							Occupied adjust		
				ļ					
Analytical Parameters (include enclusion method and number and type of complex containers)									
Analytical Parameters (include analysis method and number and type of sample containers)									
		BTEX per EPA I	Method 802	21 (2 40m	L Vials w	// HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	(2 40mL	Vials w/ HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	( 40mL \	/ials no preservative)			
	D	isposal of Purg	ed Water:						
Callage			•						
	-	Stored on Ice	-	·····					
	Chain of Cu	stody Record (	•						
			•			al Analysis Laboratory,			
Equipment	Used Durin	g Sampling:		Keck Wa	ter Level	, YSI Water Quality Met	er,		
				and New	Disposa	ble Bailer			
Notes/Com	ments								
	YSI Mal	function, L'	so Wat	ier aix	dita	Taken			
					7 1				

MONITO	RING WE	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services		
Monitor W	ell No:	MW-3			624 E. 0	Comanche, Farmington	NM 87401		
			•		Tel. (50	5) 564-2281 Fax (505) 3	324-2022		
Site:	Highway 53	37 Station Spill				ct No.: AES 070302			
		County, New Me	xico	-	, .	Date: 1-5-09	-		
•		er Monitoring		-	Arrival		•		
-	Technician:			-		Temp: 220F	•		
	/ No Purge:			- т	O.C. Ele		•		
_	ameter (in):			-	Vell Dep	` '	•		
	D.T.W. (ft):		Time:	- I Otal V	tell peh	(taken at initial gauging	r of all walls)		
		29.51	Time:	12/	0	(taken prior to purging	•		
	D.T.W. (ft):		Time:	131	46	_(taken phor to purging - (taken after sample col	•		
Fillal	D. 1. W. (It).		i iine:			(taken alter sample col	iecuorij		
	,	Water Quality	Paramete	ers - Rec	orded	During Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1224						0.25			
1324				<u> </u>		0.20	Samples Collected		
		:							
Analytical Parameters (include analysis method and number and type of sample containers)									
		BTEX per EPA !	Method 802	1 (2 40m	L Vials w	// HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per							
					·	/ials no preservative)			
				00 136	( 40IIIL \	viais no preservative)			
	D	isposal of Purg	ed Water:						
Collect	ed Samples	Stored on Ice	in Cooler: _						
	Chain of Cu	stody Record (	Complete:						
		Analytical La	boratory:	Hall Envi	ronmenta	al Analysis Laboratory,	Albuquerque, NM		
Fauinment	Used Durin	g Sampling:	٠.			, YSI Water Quality Met			
Lquipinent	Ooca Dami	g oumpmig				ble Bailer	01,		
N-410				and New	Disposa	ble ballel			
Notes/Com	1	~ 1. 1		0.14	7.4	,			
	157 Mal	Function, N	a Water	Qualis	ny lak	hev			
					· · · · · · · · · · · · · · · · · · ·				

		<del></del>							
MONITO	RING WE	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services		
Monitor W	ell No:	MW-4			624 E.	Comanche, Farmington	NM 87401		
			•			5) 564-2281 Fax (505)			
		37 Station Spill		_	Proje	ct No.: AES 070302	_		
		County, New Me	xico	_		Date: 1-6-0-	- -		
		er Monitoring		_		Time: 132	_		
	Technician: / No Purge:				Air O.C. Ele.	Temp: 18°F	-		
-	no Furge. ameter (in):				.O.C. Ele Nell Dep		-		
	D.T.W. (ft):		Time:	113	•	(taken at initial gauging	g of all wells)		
	D.T.W. (ft):		Time:			(taken prior to purging			
Final	D.T.W. (ft):		Time:			(taken after sample co	llection)		
	,	Water Quality	Paramete	ers - Red	corded	During Well Purging	1		
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations		
1144	1191	2.902	4.36	7	230,9	0.25			
1150				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	250,1		5 7 (1110		
1,00							Semples Collected		
Analytical Parameters (include analysis method and number and type of sample containers)									
		BTEX per EPA I	Method 802	21 (2 40m	L Vials w	// HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	(2 40mL	Vials w/ HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	( 40mL \	/ials no preservative)			
	D	isposal of Purg	ed Water						
Collect		Stored on Ice	-						
	•	stody Record (	-						
	Onam or ou	-	•	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuquerque NM		
Fauinment	llsed Durin	g Sampling:	•			, YSI Water Quality Met			
Equipment	Jour Duilli	a samping				ble Bailer	GI,		
Notes/Com	monte			and 1464	Dioposa	DO DONO!			
TOLES/COIT	illelif2								
							i		

MONITO	RING WE	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services		
Monitor W	ell No:	MW-5			624 E.	Comanche, Farmington	NM 87401		
						5) 564-2281 Fax (505)	324-2022		
		37 Station Spill		_	Proje	ct No.: AES 070302	_		
		County, New Me	xico	_		Date: 1-6-09	_		
•		er Monitoring		-		Time: 1205	-		
	Technician:					Temp: 18°F	-		
	/ No Purge:			-	O.C. Ele		-		
	ameter (in): D.T.W. (ft):		Time:	. Totai v	Well Dep	tn (ft): (taken at initial gauging	· r of all walls)		
	D.T.W. (ft):		Time:	120	a	_(taken prior to purging			
	D.T.W. (ft):		Time:		<u> </u>	(taken after sample col	,		
		Water Quality	Paramete	ers - Red	orded	During Well Purging			
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(μS) (mS)	(mg/L)	рH	(mV)	(see reverse for calc.)	Notes/Observations		
		Z3. 84			<del>- `</del>	h	Notes/Observations		
1214	8,91	42.07	2.22	6.52	231.2	16			
1220	-						Samples Collected		
							'		
Analytical Parameters (include analysis method and number and type of sample containers)									
		BTEX per EPA I	Method 802	1 (2 40m	L Vials w	ı/ HCI)			
	•	TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	d 8015B	(2 40mL	Vials w/ HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	d 8015B	( 40mL \	/ials no preservative)			
	Di	isposal of Purg	ed Water:						
Collect		Stored on Ice	-						
	•	stody Record (	-						
			•	Hall Envi	ronmenta	al Analysis Laboratory, A	Albuguergue, NM		
Equipment	Used Durin	g Sampling:	-			, YSI Water Quality Met			
						ble Bailer			
Notes/Com	ments								

MONITO	RING WE	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services	
Monitor W	ell No:	MW-6			624 E. (	Comanche, Farmington	NM 87401	
					<u> </u>	5) 564-2281 Fax (505) 3	324-2022	
		7 Station Spill		_	Proje	ct No.: AES 070302	•	
	Location: Rio Arriba County, New Mexico			-		Date: 1-6-09	: •	
Project: Groundwater Monitoring Sampling Technician:			-	Arrival	Time: 1234 Temp: 18°F	-		
	/ No Purge:			- т	O.C. Ele		-	
	ameter (in):				Vell Dep		-	
	D.T.W. (ft):		Time:			(taken at initial gauging	of all wells)	
		22,54	Time:	17.3	8	(taken prior to purging	,	
Final	D.T.W. (ft):		Time:			(taken after sample col	lection)	
	· · · · · · · · · · · · · · · · · · ·	Water Quality	Paramete	ers - Rec	orded	During Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(see reverse for calc.)	Notes/Observations	
1243	7,77	4,537	2.77	6.94	21.8	1/16		
1250							Samples Collected	
						·		
<u>i</u>			7.					
Analytic	cal Parame	eters (include	analysis	method	and nu	mber and type of sa	mple containers)	
		BTEX per EPA	Method 802	21 (2 40m	L Vials w	v/ HCI)		
		TPH C <sub>6</sub> -C <sub>36</sub> per			<u> </u>	<u></u>		
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	( 40mL \	Vials no preservative)		
	D	isposal of Purg	ed Water:		· · · · · · · · · · · · · · · · · · ·			
Collect	ed Samples	Stored on Ice	in Cooler:					
	Chain of Cu	stody Record (	Complete:					
		Analytical La	aboratory:	Hall Envi	ronment	al Analysis Laboratory,	Albuquerque, NM	
Equipment	<b>Used Durin</b>	g Sampling:		Keck Wa	Keck Water Level, YSI Water Quality Meter,			
				and New Disposable Bailer				
Notes/Com	ments					·		

revised: 05/23/07

MONITO	RING WEI	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services
Monitor W	ell No:	MW-7				Comanche, Farmington 5) 564-2281 Fax (505)	
Site:	Highway 53	7 Station Spill				ct No.: AES 070302	V2
		County, New Mex	xico	-		Date: 1-7-09	-
•		er Monitoring		-	Arrival	Time: 105R	
	Technician:					Temp: 15°F	_
_	No Purge:			•	O.C. Ele	` '	
	ameter (in):	0.75		Total V	Vell Dep		
	D.T.W. (ft):		Time:			(taken at initial gauging	-
	D.T.W. (ft):	AN	Time:			_(taken prior to purging _(taken after sample co	
Final	D.T.W. (ft):					• •	
	·			ers - Red		During Well Purging PURGED VOLUME	
	Temp	Conductivity	DO	ļ	ORP	İ	
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations
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						0	
Analytic	cal Parame	eters (include	analysis	method	and nu	mber and type of sa	mple containers)
		BTEX per EPA I	Method 802	21 (2 40m	L Vials w	v/ HCI)	
		TPH C <sub>6</sub> -C <sub>36</sub> per	<b>EPA Metho</b>	od 8015B	(2 40mL	. Vials w/ HCl)	
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	( 40mL \	Vials no preservative)	
	Di	isposal of Purg	ed Water:				
Collect		Stored on Ice	•				
	•		•				
	Chain of Cu	stody Record (					A.II
		•	- •			al Analysis Laboratory,	
Equipment	Used Durin	g Sampling: _		Keck Wa	ter Level	I, YSI Water Quality Me	ter,
				and New	Disposa	ble Bailer	
Notes/Comments							
Water in Well Frozen, unable to get water quality or samples							
		<del></del>	, V		_	3	

MONITO	RING WEI	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services	
Monitor W	ell No:	MW-8			624 E.	Comanche, Farmington	NM 87401	
			• •			5) 564-2281 Fax (505)	324-2022	
		7 Station Spill		_	Proje	ct No.: AES 070302	-	
Location: Rio Arriba County, New Mexico Project: Groundwater Monitoring			-	Arriva	Date: <u>1-6-09</u> I Time: 1354	-		
Sampling Technician:			•		Temp: 187	-		
	/ No Purge:			Ţ.	O.C. Ele		•	
	ameter (in):			_ Total V	Vell Dep		•	
	D.T.W. (ft):		Time:			_(taken at initial gauging	•	
	D.T.W. (ft): D.T.W. (ft):	13.65	Time: Time:	135	8	_(taken prior to purging _(taken after sample col		
11101						<u> </u>		
	<u> </u>	Water Quality	Paramete	ers - Red	orded	During Well Purging		
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations	
1402	6.78	2.430	2,25	6,48	41.0	1/16		
1408							Samples Collected	
			<del></del>					
Analyti	cal Parame	eters (include	analysis	method	and nu	mber and type of sa	mple containers)	
		BTEX per EPA	Method 802	21 (2 40m	L Vials w	v/ HCI)		
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	(2 40mL	Vials w/ HCl)		
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	( 40mL \	Vials no preservative)		
	Di	isposal of Purg	ed Water:					
Collect		Stored on Ice	•					
	•	stody Record (	•					
•			•	Hall Envi	ronment	al Analysis Laboratory, A	Albuqueraue. NM	
Eguipment	Used Durin	g Sampling:	٠.					
					Geck Water Level, YSI Water Quality Meter, and New Disposable Bailer			
Notes/Com	ments							
30.30, 30.11								
		1.0.						

MONITO	MONITORING WELL SAMPLING RECORD Animas Environmental Services								
			O ILLUCI						
Monitor W	ell No:	MW-9	-			Comanche, Farmington			
Cito	Highway 52	7 Ctation Caill				5) 564-2281 Fax (505) ct No.: AES 070302	324-2022		
1		37 Station Spill County, New Me	vico	-	Proje	Date: 1~7-09	-		
		er Monitoring	XICO	-	Arrival Time: \\03				
Sampling Technician:			-		Temp: 15%	-			
	/ No Purge:			Т.	O.C. Ele		-		
Well Di	ameter (in):	0.75		Total V	Vell Dep	th (ft):			
	D.T.W. (ft):		Time:			(taken at initial gauging			
	D.T.W. (ft):		Time:			(taken prior to purging	•		
Final	D.T.W. (ft):		Time:			(taken after sample co	(lection)		
	1	Water Quality	Paramete	ers - Rec	corded	During Well Purging	J		
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	рH	(mV)	(see reverse for calc.)	Notes/Observations		
							<b>N</b>		
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				-	$\searrow$				
				\ \ \		)			
Analyti	cal Parame	eters (include	analysis	method	and nu	mber and type of sa	mple containers)		
		BTEX per EPA	Method 802	21 (2 40m	L Vials w	v/ HCl)			
		TPH C <sub>6</sub> -C <sub>36</sub> per							
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	( 40mL \	Vials no preservative)			
	D	isposal of Purg	jed Water:						
Collect	ed Samples	Stored on Ice	in Cooler:						
	Chain of Cu	stody Record (	Complete:						
		Analytical La	aboratory:	Hall Envi	ronmenta	al Analysis Laboratory,	Albuquerque, NM		
Equipment	g Sampling:		Keck Water Level, YSI Water Quality Meter,						
			and New Disposable Bailer						
Notes/Com	ments								

MONITO	MONITORING WELL SAMPLING RECORD Animas Environmental Services								
Monitor W	ell No:	MW-10			624 E. Comanche, Farmington NM 87401				
			•			5) 564-2281 Fax (505)			
E .		37 Station Spill		_	Proje	ct No.: AES 070302			
Location: Rio Arriba County, New Mexico Project: Groundwater Monitoring			-	<b>A</b> •	Date: 1-4-09	-			
	Groundwate Technician:			-	Arrival		-		
	/ No Purge:			- т	O.C. Ele		-		
	ameter (in):				Vell Dep		-		
	D.T.W. (ft):		Time:	•		(taken at initial gauging	g of all wells)		
1	D.T.W. (ft):		Time:			(taken prior to purging	•		
Final	D.T.W. (ft):		Time:			(taken after sample col	llection)		
		Water Quality	Paramete	ers - Rec	orded	During Well Purging	l		
	Temp	Conductivity	DO		ORP	PURGED VOLUME			
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations		
				1					
	1								
			20						
	$\frac{1}{2}$		0			/	(O)		
		$\sim$	/			7 / \ \ \ \			
		70			10				
						1			
Analyti	cal Parame	eters (include	analysis ı	method	and nu	mber and type of sa	mple containers)		
		BTEX per EPA I	Method 802	1 (2 40m	L Vials w	/ HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	(2 40mL	Vials w/ HCI)			
		TPH C <sub>6</sub> -C <sub>36</sub> per	EPA Metho	od 8015B	( 40mL \	/ials no preservative)	·		
	D	isposal of Purg	ed Water:						
Collect	ed Samples	Stored on Ice	in Cooler:						
	Chain of Cu	stody Record (	- Complete:						
		Analytical La	aboratory:	Hall Envir	ronmenta	al Analysis Laboratory,	Albuquerque, NM		
Equipment	Used Durin	g Sampling:	_	Keck Wa	ter Level	, YSI Water Quality Met	er,		
	and New Disposable Bailer								
Notes/Comments									
LAC	With Water in well was Frozen, No water quality or sample								
					1				
		-							

revised: 05/23/07

MONITO	RING WEI	LL SAMPLIN	G RECO	RD	Anim	as Environmenta	l Services	
Monitor W	ell No:	MW-11				Comanche, Farmington 5) 564-2281 Fax (505)		
Site:	Highway 53	7 Station Spill		_		ct No.: AES 070302		
		County, New Me	xico	<u>.</u>		Date: 1-7-09	- •	
-		er Monitoring		-	Arrival		-	
	Technician:					Temp: 15°F	-	
	/ No Purge: ameter (in):			-	O.C. Ele		-	
1	D.T.W. (ft):	0.75	Time:	- Total v	Vell Dep	(taken at initial gauging	- r of all wells)	
	D.T.W. (ft):	Dry	Time:	172	0	(taken prior to purging		
	D.T.W. (ft):		Time:		<u>'                                    </u>	(taken after sample co	,	
	Water Quality Parameters - Recorded During Well Purging							
	Temp	Conductivity	DO		ORP	PURGED VOLUME		
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(see reverse for calc.)	Notes/Observations	
	V			1				
		1				<b>Y</b>		
	\_A\			1	<u> </u>	/		
						1		
			$\hat{\Delta}$			MAN		
						V		
Analyti	cal Parame	eters (include	analysis	method	and nu	mber and type of sa	mple containers)	
		BTEX per EPA I		· · · · · · · ·				
		TPH C <sub>6</sub> -C <sub>36</sub> per						
				oa 8015B	( 40mL \	Vials no preservative)		
		isposal of Purg	•		·			
	-	Stored on Ice	•					
	Chain of Cu	stody Record (						
	Analytical Laboratory:							
Equipment	Used Durin	g Sampling:				, YSI Water Quality Me	ter,	
				and New	Disposa	ble Bailer		
Notes/Com	Notes/Comments							



#### COVER LETTER

Thursday, January 15, 2009

Ross Kennemer Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: BMG Highway 537 06&07 Spill

Dear Ross Kennemer:

Order No.: 0901110

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 1/8/2009 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman, Business Manager Nancy McDuffie, Laboratory Manager

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



Date: 15-Jan-09

**CLIENT:** 

Animas Environmental Services

Project:

BMG Highway 537 06&07 Spill

Lab Order:

0901110

**CASE NARRATIVE** 

MW-1 was received past the holding time for 8015B diesel range.

**Date:** 15-Jan-09

**CLIENT:** 

Animas Environmental Services

Lab Order:

0901110

090111

BMG Highway 537 06&07 Spill

Project: Lab ID:

0901110-01

Client Sample ID: MW-1

**Collection Date:** 12/31/2008 3:37:00 PM

Date Received: 1/8/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE				·····		Analyst: SCC
Diesel Range Organics (DRO)	ND .	1.0	Н	mg/L	1	1/13/2009
Motor Oil Range Organics (MRO)	ND	5.0	Н	mg/L	1	1/13/2009
Surr: DNOP	125	58-140	Н	%REC	1	1/13/2009
EPA METHOD 8015B: GASOLINE RAN	GE					Analyst: DAM
Gasoline Range Organics (GRO)	ND .	0.050		mg/L	1	1/10/2009 10:18:05 AM
Surr: BFB	79.0	59.9-122		%REC	1	1/10/2009 10:18:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: <b>DAM</b>
Benzene	ND	1.0		µg/L	1	1/10/2009 10:18:05 AM
Toluene	ND	1.0		μg/L	1	1/10/2009 10:18:05 AM
Ethylbenzene	ND	1.0		μg/L	1	1/10/2009 10:18:05 AM
Xylenes, Total	ND	2.0		μg/L	1	1/10/2009 10:18:05 AM
Surr: 4-Bromofluorobenzene	82.2	65.9-130		%REC	1	1/10/2009 10:18:05 AM

S Spike recovery outside accepted recovery limits

MCL Maximum Contaminant Level

RL Reporting Limit

Page 1 of 8

<sup>\*</sup> Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

 $B \quad \ \mbox{Analyte detected in the associated Method Blank}$ 

H Holding times for preparation or analysis exceeded

Date: 15-Jan-09

CLIENT:

Animas Environmental Services

Lab Order:

0901110

Project:

BMG Highway 537 06&07 Spill

Lab ID:

0901110-02

Client Sample ID: MW-2

Collection Date: 1/5/2009 1:05:00 PM

Date Received: 1/8/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE				<b>√</b>	Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/13/2009
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/13/2009
Surr: DNOP	127	58-140	%REC	1	1/13/2009
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/10/2009 10:48:26 AM
Surr: BFB	78.4	59.9-122	%REC	1	1/10/2009 10:48:26 AM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	1.0	μg/L	1	1/10/2009 10:48:26 AM
Toluene	ND	1.0	μg/L	1	1/10/2009 10:48:26 AM
Ethylbenzene	ND	1.0	μg/L	1	1/10/2009 10:48:26 AM
Xylenes, Total	ND	2.0	μg/L	1	1/10/2009 10:48:26 AM
Surr: 4-Bromofluorobenzene	81.0	65.9-130	%REC	1	1/10/2009 10:48:26 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

**Date:** 15-Jan-09

**CLIENT:** 

Animas Environmental Services

Lab Order:

0901110

er:

BMG Highway 537 06&07 Spill

Project: Lab ID:

0901110-03

Client Sample ID: MW-3

**Collection Date:** 1/5/2009 1:24:00 PM

Date Received: 1/8/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	<u> </u>				Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/13/2009
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/13/2009
Surr: DNOP	119	58-140	%REC	1	1/13/2009
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/10/2009 11:18:53 AM
Surr: BFB	73.9	59.9-122	%REC	1	1/10/2009 11:18:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>DAM</b>
Benzene	ND	1.0	μg/L	1	1/10/2009 11:18:53 AM
Toluene	ND	1.0	μg/L	1	1/10/2009 11:18:53 AM
Ethylbenzene	ND	1.0	μg/L	1	1/10/2009 11:18:53 AM
Xylenes, Total	ND	2.0	μg/L	1	1/10/2009 11:18:53 AM
Surr: 4-Bromofluorobenzene	74.1	65.9-130	%REC	1	1/10/2009 11:18:53 AM

Qualifiers:

S Spike recovery outside accepted recovery limits

RL Reporting Limit

Page 3 of 8

<sup>\*</sup> Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

Date: 15-Jan-09

**CLIENT:** 

Animas Environmental Services

Lab Order:

0901110

Project:

BMG Highway 537 06&07 Spill

Lab ID:

0901110-04

Client Sample ID: MW-4

Collection Date: 1/6/2009 11:50:00 AM

Date Received: 1/8/2009

Matrix: AQUEOUS

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	. 1	1/13/2009
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/13/2009
Surr: DNOP	119	58-140	%REC	1	1/13/2009
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/10/2009 11:49:19 AM
Surr: BFB	83.1	59.9-122	%REC	1	1/10/2009 11:49:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	1.0	µg/L	1	1/10/2009 11:49:19 AM
Toluene	ND	1.0	µg/L	1	1/10/2009 11:49:19 AM
Ethylbenzene	ND	1.0	μg/L	1	1/10/2009 11:49:19 AM
Xylenes, Total	ND	2.0	μg/L	1	1/10/2009 11:49:19 AM
Surr: 4-Bromofluorobenzene	87.9	65.9-130	%REC	1	1/10/2009 11:49:19 AM

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
  - RL Reporting Limit

Page 4 of 8

Date: 15-Jan-09

CLIENT:

Animas Environmental Services

Lab Order:

0901110

BMG Highway 537 06&07 Spill

Project: Lab ID:

0901110-05

Client Sample ID: MW-5

Collection Date: 1/6/2009 12:20:00 PM

Date Received: 1/8/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE			// <u> </u>		Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/13/2009
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/13/2009
Surr: DNOP	116	58-140	%REC	1	1/13/2009
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/10/2009 12:19:39 PM
Surr: BFB	78.6	59.9-122	%REC	1	1/10/2009 12:19:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	1.0	μg/L	1	1/10/2009 12:19:39 PM
Toluene	ND	1.0	μg/L	1	1/10/2009 12:19:39 PM
Ethylbenzene	ND	1.0	μg/L	1	1/10/2009 12:19:39 PM
Xylenes, Total	ND	2.0	μg/L	1	1/10/2009 12:19:39 PM
Surr: 4-Bromofluorobenzene	81.3	65.9-130	%REC	1	1/10/2009 12:19:39 PM

- Value exceeds Maximum Contaminant Level
- Ε Estimated value
- Analyte detected below quantitation limits J
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 8

Date: 15-Jan-09

**CLIENT:** 

Animas Environmental Services

Lab Order:

0901110

BMG Highway 537 06&07 Spill

Project: Lab ID:

0901110-06

Client Sample ID: MW-6

Collection Date: 1/6/2009 12:50:00 PM

Date Received: 1/8/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/13/2009
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/13/2009
Surr: DNOP	119	58-140	%REC	1	1/13/2009
EPA METHOD 8015B: GASOLINE RAN	GE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/10/2009 2:52:04 PM
Surr: BFB	81.1	59.9-122	%REC	1	1/10/2009 2:52:04 PM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	, ND	1.0	μg/L	1	1/10/2009 2:52:04 PM
Toluene	ND	1.0	μg/L	1	1/10/2009 2:52:04 PM
Ethylbenzene	ND	1.0	μg/L	1	1/10/2009 2:52:04 PM
Xylenes, Total	ND	2.0	μg/L	1	1/10/2009 2:52:04 PM
Surr: 4-Bromofluorobenzene	84.6	65.9-130	%REC	1	1/10/2009 2:52:04 PM

MCL Maximum Contaminant Level

RL Reporting Limit

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Date: 15-Jan-09

**CLIENT:** 

Animas Environmental Services

Lab Order: Project:

0901110

BMG Highway 537 06&07 Spill

Lab ID:

0901110-07

Client Sample ID: MW-8

Collection Date: 1/6/2009 2:08:00 PM

Date Received: 1/8/2009

Matrix: AQUEOUS

Analyses	Result	PQL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE					Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	1/13/2009
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	1/13/2009
Surr: DNOP	121	58-140	%REC	1	1/13/2009
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: <b>DAM</b>
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/10/2009 3:22:31 PM
Surr: BFB	79.2	59.9-122	%REC	1	1/10/2009 3:22:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>DAM</b>
Benzene	ND	1.0	μg/L	1	1/10/2009 3:22:31 PM
Toluene	ND	1.0	μg/L	1	1/10/2009 3:22:31 PM
Ethylbenzene	ND	1.0	µg/L	1	1/10/2009 3:22:31 PM
Xylenes, Total	ND	2.0	μg/L	1	1/10/2009 3:22:31 PM
Surr: 4-Bromofluorobenzene	81.4	65.9-130	%REC	1	1/10/2009 3:22:31 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Е Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
  - RL Reporting Limit

Date: 15-Jan-09

CLIENT:

Animas Environmental Services

Client Sample ID: FIELD BLANK

Lab Order:

0901110

**Collection Date:** 

Project:

BMG Highway 537 06&07 Spill

Date Received: 1/8/2009

Lab ID:

0901110-08

Matrix: TRIP BLANK

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/10/2009 3:52:59 PM
Surr: BFB	77.4	59.9-122	%REC	1	1/10/2009 3:52:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5	μg/L	1	1/10/2009 3:52:59 PM
Benzene	ND	1.0	μg/L	1	1/10/2009 3:52:59 PM
Toluene	ND	1.0	μg/L	√1	1/10/2009 3:52:59 PM
Ethylbenzene	ND	1.0	µg/L	1	1/10/2009 3:52:59 PM
Xylenes, Total	ND	2.0	μg/L	1	1/10/2009 3:52:59 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	1/10/2009 3:52:59 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	1/10/2009 3:52:59 PM
Surr: 4-Bromofluorobenzene	79.2	65.9-130	%REC	1	1/10/2009 3:52:59 PM

- Value exceeds Maximum Contaminant Level
- E Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
  - RL Reporting Limit

Page 8 of 8

**Date:** 15-Jan-09

#### **QA/QC SUMMARY REPORT**

Client:

Animas Environmental Services

Project:

BMG Highway 537 06&07 Spill

Work Order:

0901110

Analyte	Result	Units	PQL	%Rec	LowLimit HighLimit		%RPD	RPDLimit	Qual
Method: EPA Method 8015B: D	iesel Range								
Sample ID: MB-18062		MBLK			Batch ID:	18062	Analysis Dat	e:	1/13/2009
Diesel Range Organics (DRO)	ND	mg/L	1.0						
Motor Oil Range Organics (MRO)	ND	mg/L	5.0						
Sample ID: LCS-18062		LCS			Batch ID:	18062	Analysis Dat	e:	1/13/2009
Diesel Range Organics (DRO)	5.359	mg/L	1.0	107	74	157			
Sample ID: LCSD-18062		LCSD			Batch ID:	18062	Analysis Date	e:	1/13/2009
Diesel Range Organics (DRO)	6.023	mg/L	1.0	120	74	157	11.7	23	·
Method: EPA Method 8015B: G	asoline Ran	ge							
Sample ID: 5ML RB		MBLK			Batch ID:	R31961	Analysis Date	e: 1/9/20	009 8:54:30 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 5ML RB II		MBLK			Batch ID:	R31961	Analysis Date	e: 1/10/20	009 5:44:25 AN
Gasoline Range Organics (GRO)	ND	mg/L	0.050						
Sample ID: 2.5UG GRO LCS		LCS			Batch ID:	R31961	Analysis Date	e: 1/9/20	009 7:04:46 PM
Gasoline Range Organics (GRO)	0.5454	mg/L	0.050	109	80	115			
Sample ID: 2.5UG GRO LCS II		LCS			Batch ID:	R31961	Analysis Date	e: 1/10/20	009 5:13:55 AM
Gasoline Range Organics (GRO)	0.5124	mg/L	0.050	102	80	115			

#### Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 1

Date: 15-Jan-09

#### **QA/QC SUMMARY REPORT**

Client:

Animas Environmental Services

**Project:** BMG Highway 537 06&07 Spill

Work Order:

0901110

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RI	PDLimit Qual
Method: EPA Method 8021B: V	olatiles							
Sample ID: 5ML RB		MBLK			Batch I	D: <b>R31961</b>	Analysis Date:	1/9/2009 8:54:30 AM
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5					
Benzene	ND	μ <b>g</b> /L	1.0					
Toluene	ND	μg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	μg/L	2.0					
1,2,4-Trimethylbenzene	ND	μg/L	1.0					
1,3,5-Trimethylbenzene	ND	μ <b>g</b> /L	1.0					
Sample ID: 5ML RB II		MBLK			Batch II	D: <b>R31961</b>	Analysis Date:	1/10/2009 5:44:25 AM
Methyl tert-butyl ether (MTBE)	ND	μg/L	2.5					
Benzene	ND	μg/L	1.0					
Toluene	ND	μg/L	1.0					
Ethylbenzene	ND	μg/L	1.0					
Xylenes, Total	ND	μg/L	2.0					
1,2,4-Trimethylbenzene	ND	μg/L	1.0					
1,3,5-Trimethylbenzene	ND	μg/L	1.0					
Sample ID: 100NG BREX LCS		LCS			Batch II	D: <b>R31961</b>	Analysis Date:	1/9/2009 5:33:24 PM
Methyl tert-butyl ether (MTBE)	20.24	μg/L	2.5	101	51.2	138		
Benzene	22.46	μg/L	1.0	112	85.9	113		
Toluene	21.22	μg/L	1.0	106	86.4	113		
Ethylbenzene	20.65	μg/L	1.0	103	83.5	118		
Xylenes, Total	61.87	µg/L	2.0	103	83.4	122		
1,2,4-Trimethylbenzene	19.63	μg/L	1.0	97.8	83.5	115		
1,3,5-Trimethylbenzene	19.29	µg/L	1.0	95.5	85.2	113		
Sample ID: 100NG LCS II		LCS			Batch II	D: <b>R31961</b>	Analysis Date:	1/10/2009 3:42:09 AM
Methyl tert-butyl ether (MTBE)	21.43	μg/L	2.5	107	51.2	138		
Benzene	22.96	µg/L	1.0	114	85.9	113		S
Toluene	21.96	µg/L	1.0	108	86.4	113		
Ethylbenzene	21.46	μg/L	1.0	107	83.5	118		
Xylenes, Total	64.70	μg/L	2.0	108	83.4	122		
1,2,4-Trimethylbenzene	20.90	μg/L	1.0	104	83.5	115		
1,3,5-Trimethylbenzene	20.33	µg/L	1.0	102	85.2	113		

#### Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 2

#### Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL	·		•	Date Re	eceived:			1/8/2009	
Work Order Number 0901110	erini.			Receiv	ved by:	TLS		·	
Checklist completed by: Signature		1	S o	Sampl	e ID labe	els checked	by:	Initials	
Matrix:	Carrier name	Grey	yhound						
Shipping container/cooler in good condition?		Yes	<b>✓</b>	No 🗌	N	lot Present			
Custody seals intact on shipping container/coo	ler?	Yes	<b>V</b>	No 🗌	N	lot Present		Not Shipped	
Custody seals intact on sample bottles?		Yes		No 🗌	N	I/A	✓		
Chain of custody present?		Yes	$\checkmark$	No 🗌					
Chain of custody signed when relinquished and	d received?	Yes	$\checkmark$	No 🗆					
Chain of custody agrees with sample labels?		Yes	<b>✓</b>	No 🗌					
Samples in proper container/bottle?		Yes	$\checkmark$	No 🗆					
Sample containers intact?		Yes	$\checkmark$	No 🗌					
Sufficient sample volume for indicated test?		Yes	$\checkmark$	No 🗌					
All samples received within holding time?		Yes	V	No 🗌					
Water - VOA vials have zero headspace?	No VOA vials subm	itted		Yes 🗹		No 🗌			
Water - Preservation labels on bottle and cap r	natch?	Yes		No 🗆		N/A 🗹			
Water - pH acceptable upon receipt?		Yes		No 🗆		N/A 🗸			
Container/Temp Blank temperature?			4°	<6° C Acc					
COMMENTS:				If given suff	ficient tim	ne to cool.			
Client contacted	Date contacted:				Person	contacted			
	-				1 013011	oomacica			
Contacted by:	Regarding:								
Comments:	-								
				·					
Corrective Action									

ENTAL	ATORY	60					(N	01 10	Д) s	Air Bubble												ical report.
VIRONMEN	LABOR	environmental.com Albuquerque, NM 87109	505-345-4107	ednest	9	5 bCB	3808		(A(	8081 Pesti S260B (VC												otated on the analy
HALL ENV		www.hallenvironmental.com		Analysis Request	(*0	S,,O9,	(	НАЧ	10 /	EDC (Methers) (PNA Anions (F,6)												data will be clearly n
	AN	www.hawwins NE	Tel. 505-345-3975		_		1)	015	8 po	BTEX + Methorn (Methorn Methorn Methor	×	X	X	X	X	×	7			arks:		y. Any sub-contracted of
										BTEX + M	X	×	×	X	×	×	×			Remarks:		is possibility
		06 4 07					llis			HEAL NO.	-	2	8	7	2	9	π		89	Water 14:30	1523 pola	aboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
lime:	□ Rush	W Y 537			jer:	ENNemer	than Willis		William Sala	Preservative Type	1-HC1	1					7		#CL	Received by: Debruck Water	Received by:	ite
Turn-Around Time:	N Standard	Project Name:  BMS- HW	Project #:		Project Manager:	Ross Ken	Sampler: Nath	がない。	State of the state	. #	5-40 mL					)	-1		(2) 40mL			rbcontracted to other ac
Chain-of-Custody Record	Animas Environmental	by E. Comenific	Farmmeton, N.M. 87401	564-228		☐ Level 4 (Full Validation)				Sample Request ID	1-MH	MW-2	MW-3	4- WM	S-WM	9-MM	8-MW	D. Id Bals	Tro Blank	Relinquished by:	Relinguished by: Watory	If necessary, samples submitted to Hall Environmental may be subcontracted to other accred
ain-of-(	MIMAS	Services,	armme	505-	-ax#:	ıckage: ard		Type)		Time	1537		1324	0.511	1220	1250	1408			Time:	Time: 08 50	sessary, samples
ch	Client:	Address:		Phone #:	email or Fax#:	QA/QC Package:	Other	□ EDD (Type)		Date	123108	15/09	1/5/09	1/6/09	16/07	16/08	609			Date:	Date: 09	If ne