NM2 - ____4___

MONITORING REPORTS YEAR(S):

2008



4900 College Boulevard Farmington, NM 87402 Office: 505

Fax: .505 327.9207

2009 JAN 30 PM 1 01

January 28, 2008

Mr. Brad Jones NMOCD Environment Bureau 1220 S. St. Francis Drive Santa Fe, NM 87505

Re: 2008 ANNUAL REPORT CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY, PERMIT No. NM-02-0004 Section 20, Township 25 North, Range 1 East, Rio Arriba County

Dear Mr. Jones:

Please find enclosed the referenced annual report for 2008. As you may recall, a leak in the evaporation pond's primary liner was discovered in April of 2008. All water was removed from the pond and the liner replaced. Monitoring wells were installed and those testing results are included with this report. The pond was returned to use in November of 2008.

Sampling was also done on December 30, 2008 and copies of those results will be forwarded as soon as AES provides them.

If you have any questions please contact me at 505-325-8874 or by email at: <u>mikedimond@bmgdrilling.com</u>.

Sincerely,

Mike Dimond President

Cc: NMOCD, Aztec; File



Animas Environmental Services, LLC

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

December 10, 2008

Mike Dimond Benson-Montin-Greer Drilling Corporation 4900 College Blvd Farmington, New Mexico 87402

RE: Results of October 2008 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Dimond:

On October 9, 2008, Animas Environmental Services, LLC (AES), completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico.

1.0 BMG Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site Information

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that while the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitoring wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. BMG installed a replacement 69 mil HDPE primary liner over the existing secondary liner on about September 15, 2008. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitoring wells on October 9, 2008. Groundwater samples were collected from MW-1 through MW-4 and the interstitial well. All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples



were transported to the analyzing laboratory in chilled and insulated coolers at less than 6°C.

All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) EPA Method 8260
- Total Petroleum Hydrocarbons (TPH) (C₆-C₃₆) EPA Method 8015B
- Chlorides EPA Method 300.0
- Total Dissolved Solids (TDS) SM 2540C

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation-reduction potential (ORP) measurements for each well. Note that dissolved oxygen concentrations were recorded, but the sensor was malfunctioning and providing erroneous readings. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 11.41°C in MW-2 to 19.01°C in IW. Conductivity ranged from 0.833 mS in MW-2 to 183.7 mS in IW, and ORP was measured between -35.7 mV in IW and 55.2 mV in MW-3. pH ranged from 6.11 in IW to 6.74 in MW-2. A summary of water quality data is included in Table 1, and Water Sample Collection Forms are presented in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the October 2008 sampling event show that none of the wells sampled exceeded the New Mexico Water Quality Control Commission (WQCC) standards for BTEX constituents. No WQCC standard currently exists for TPH. Each of the wells had TPH concentrations below laboratory detection limits. Chloride and TDS concentrations were above laboratory detection limits in each of the samples. The results have been summarized as follows:

- Chloride: IW (100,000 mg/L), MW-1 (42 mg/L), MW-2 (35 mg/L), MW-3 (36 mg/L), and MW-4 (34 mg/L).
- TDS: IW (180,000 mg/L), MW-1 (660 mg/L), MW-2 (550 mg/L), MW-3 (800 mg/L), and MW-4 (760 mg/L).

The analytical results for the groundwater samples collected during the October 2008 sampling event have been tabulated and are presented in Table 2. Groundwater analytical laboratory reports are presented in Appendix B.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from a depth of approximately two feet from the three treatment cells sampled. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The

Mr. Mike Dimond December 10, 2008 Page 3 of 4

containers were placed in a chilled, insulated cooler at less than 6°C until delivered to the analytical laboratory, Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples collected were analyzed for the following:

- BTEX per EPA Method 8260B;
- TPH per EPA Method 8015B;
- Chlorides per EPA Method 300.0;

Samples collected for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES's observations of the treatment cells at the time of sample collection, treatment cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Cell #4 is not in use. Results are summarized as follows:

- Chloride concentrations were below the applicable standard of 500 mg/kg in each of the cells;
- BTEX concentrations were below applicable laboratory detection limits in each cell;
- TPH concentrations were below detection limits except in Cell #1 which had a concentration of 55 mg/kg for TPH-MRO.

The locations of all samples, as well as analytical results, are presented on Figure 2. Laboratory analytical reports can be found in Appendix B and are summarized in Tables 3 and 4.

3.0 Conclusion and Recommendations

Based upon the results of the October 2008 sampling event associated with the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitoring wells located around the Evaporation Pond are below laboratory detection limits or WQCC standards for BTEX and TPH.

Soil analytical results from treatment zone monitoring within the landfarm were below laboratory detection limits for BTEX constituents and were below applicable standards for chlorides.

AES has scheduled quarterly treatment zone monitoring and sampling of evaporation pond monitoring wells to occur in December 2008. If you have any questions regarding the sampling procedures or results, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Mr. Mike Dimond December 10, 2008 Page 4 of 4

Sincerely,

Chr. fr Long Gyps Lany Cupps Project Manager

Attachments:	Table 1. Summary of Water Quality Data
	Table 2. Groundwater Analytical Results
	Table 3. Soil BTEX and TPH Concentrations
	Table 4. Soil Chloride Concentrations
	Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
	Figure 2. Treatment Zone Monitoring Locations
	Appendix A. Water Sample Collection Forms
	Appendix B. Laboratory Analytical Reports

Files/2008/BMG/Landfarm Sampling/gcbmg 120208

TABLE 1Water Quality and Well DataBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

		Top of	a present a	and an a second		a Costa Xa		
and the second second	Date	Casina	Depth to	an a	Specific	Dissolved		
Well ID	Measured	Elevation	Water	Temp.	Conduct.	Oxygen	рĤ	ORP
a warrant	and the Articles	(ft amsl)	, (ft) ,	(°C)	(mS)	(mg/L)		(mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
		-						
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
Interstitial Well	•. 9 - Oct-08	TBS 🔬	9.86	"		0.98	6.11	-35.7
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS 🔀	38.30	2.12.33	0.978	NM 👘	6.65	45.2
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-2	9-Oct-08	TBS	39.37	11.41	0.833	NM	6.74	42.3
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	12.44	1.567	3.69	6.82	184.6
👷 🔆 MW-3 🕵 🕵	. 9-Oct-08	Ţ₿S	, <u>38.61</u>	12.60	0.837	NM	6.60	55.2
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	38.91	12.38	1.975	NM	7.26	163.3
🔄 🕅 Ŵ-4 🔍 🖉 🗳	9-Oct-08	· * TBS ·	39.10	12.25	∛_0.904 ~~⊲	ŇM.		53.8~ 🛫

NM - Not Measured

TBS - To Be Surveyed

TABLE 2

Summary of Groundwater Analytical Results BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

· · · · · · · · · · · · · · · · · · ·	Date		· · · · · · · · · · · · · · · · · · ·	Ethyl-	Total			the state with		
Sample I.D.	Sampled	Benzene	Toluene	🗼 benzene 🤖	🖕 Xylenes 🗐	GRO	DRO	MRO	Chlorides	TDS
in the internet in the second	A A S A A A A A	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(<i>mg/L</i>)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Analytical M	lethod		8021B	/8260B		8015B	8015B	8015B	300.0	SM 2540C
New Mexico	WQCC	10	750	750	620	<u> </u>	NE	NE NE	NE .	NE NE
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
Interstitial Welle.	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	64	830
**************************************	09-Oct-08	j	🦉 🚁 <1:.0% 👯	Ì> ≷ ≷ 1.0≻ 🐒	·: <2.0%	े <0.050 इ	<u>`</u> ≰1:0; ∛	<5.0	£	660
	· · ·									
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	40	640
MW-2	09-Oct-08	<1.0	<1.0 [×]	<u>``</u> <1.0	<2.0 [.]	<0.050	` [®] `<1:0* ⊸	<5.0	* ∺35 * *:	÷-}•550*
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	38	610
👬 🕺 MW-3 🚓 🚱	09-Oct-08	ِنْ <1.0 <u>ج</u> ر	"·····································	<1 0	<2.0	<0.050	<1.0	ົ້<5.0 ້ຳ	36	800
			_							
MW-4	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	52	720
MW-4	21-Jul-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	57	770
👾 🤄 MW-4 🦄	*09-Oct-08	<u>* \$ <1:0 ***</u>	<u>in an chiù an a</u>	- × <1 0 · × ·	<u>.</u> 	<0.050 ·	A. <1.0	<5.0	· 34	760

NOTE: NE = Not Established

TABLE 3Soil BTEX and TPH ConcentrationsBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

,

		Sample		Somnlo [*]			5 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1		TPH	TPH DRO	TDH.MDO
Landfarm	Sample	Location	Sample	Depth	Benzene	Toluene	benzene "	Xylene	C10)	C22)	(C22-C32)
- ID 2	1D	1	Date		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
in the second	Milling and a	🔌 🕴 🖄 Labora	tory Analytyic	al Method			260B	1. t	1 8 1 . St	3015M/8015	B
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752 ·	
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	5.4	2,000	1,700
Cell #1		N 36° 23.327' W 106° 51.939	9-Oct-08	× 2*	<0.050* -	<0.050*	<0.050*	<0.10*	́<5.0⊛		55
						-				-	
Cell #2	#1	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #2	#1	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	
Cell #2	#1	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	
Cell #2	#1	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #2	#1	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	

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TABLE 3

Soil BTEX and TPH Concentrations

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

×				the straight		•		· · · ·	ТРН	TPH DRO	5
Landfarm	Samnle	Sample Location	Samnle	Sample Denth	Renzene	Toluene	Ethyl	Xvlene	GRO (C6- C10)	(C10- C22)	TPH MRO (C22-C32)
ID	ID		Date	(ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(<i>mg/kg</i>)
	• • •	Laborat	ory Analytyic	al Method	s \$	8021/8	260B	ç	. 8	3015M/8015	В
Cell #2	#1	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #2	#1	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#1	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #2	, # 1	N 36° 23.403' W 106° 51.945'	9-Oct-08	:2.	<0.050*	<0.050*	<0.050*	<0.10*	÷ <5.0	<10	<50
Cell #3	#1	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #3	#1	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	
Cell #3	#1	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	
Cell #3	#1	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #3	#1	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	
Cell #3	#1	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #3	#1	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#1	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #3	#1	N 36° 23.365' W 106° 51.843'	9-Oct-08	2	<0.050*	<0.050*	<0.050*	.<0.10*	<5.0	, <10 [`]	<50
Cell #4	#1	W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20 `	NA	

Animas Environmental Services, LLC 100908 Sampling Event

TABLE 3Soil BTEX and TPH ConcentrationsBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

	at in a				· * * * * *	and of the .			TPH	TPH DRO	
		Sample	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Sample		ا میں ہو ک ^{و مع} لم م	Ethyl		GRO (C6-	` (C10- 😹	TPH MRO
Landfarm	Sample	Location	Sample	Depth	Benzene	Tolüene	benzene	Xylene	C10)	C22)	(C22-C32)
<u> </u>	<u> </u>		👌 Date 了	🦾 (ft) 🥂	(mg/kg)	∖ (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	= (mg/kg)	. (mg/kg)
	""""	Labora	ory Analytyic	al Method		: 🔆 × 8021/8	260B 🞋 👘	n kante oft	Storia to 1	B015M/8015	B ;

* = Samples were analyzed by per EPA Method 8260B

Note** 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.

Note** 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.

Note** Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.

TABLE 4

Soil Chloride Concentrations BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample	Sample Depth (ft)	Chloride (mg/kg)
	Laborat	orv Analytic	al Method	300.0
		NMOCD Soil	Standard	500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	· 45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	2	8.0
Cell :#1	: ; #1 ; ; ;	9-@ct-08	2	14.0
Cell #2	#1	7-Jun-06	2.5	20.4*
Cell #2	#1	22-May-07	3	17.4
Cell #2	#1	16-Aug-07	2.5	5.34
Cell #2	#1	6-Nov-07	2.5	3.3
Cell #2	#1	14-Apr-08	2	2.2
Cell #2	#1	21-Jul-08	2	14
≱⊶Cell:#2 <u>`</u> ∢_	*****# 1 -**?	9-Oct-08 -	<i>≩</i> ∛2 ,	:
Cell #3	#1	7-Jun-06	2.5	` 26.3*
Cell #3	#1	22-May-07	3	57.6
Cell #3	#1	16-Aug-07	2.5	2.86
Cell #3	#1	6-Nov-07	2	7.8
Cell #3	#1	14-Apr-08	2	26
Cell #3	#1	21-Jul-08	2	5.5
Cell #3	ें्र#ी∿्र	**9-Oct-08	2	1.4× 5.

Note: * = Concentrations reported are in mg/L NA = Not Analyzed

Animas Environmental Services, LLC 100908 Sampling Event



S:\ANIMAS 2000\2008 PROJECTS\BMG\LLAVES EVAPORATION POND\MAPS AND DRAWINGS\FIGURE 3 EVAPORATION POND





Monitor Well No: MW-1 624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022 Project: BMG Land Farm Sampling Evaporation Pond Location: Project No:: Project No:: Sampling Method: Purge Project No:: Date: [D-9-02] Sampling Method: Purge Air Temperature: 74 *f Weather: Use and the second of the seco	Monitor Well No: MW-1 624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022 Project: BMG Land Farm Sampling Project No.: Image: Solution Pond Image: Solu	Water S	ampling	Record			Anim	as Environme	ntal Services				
Tel. (505) 564-2281 Fax (505) 324-2022 Project: BMG Land Farm Sampling Date: D-9-03 Site: Evaporation Pond Date: 10-9-03 Sampling Method: Purge Air Temperature: $\frac{1}{72}$ *F Depth of Well (ft): 45.55 Well Diam. (in.): 2 Depth of Well (ft): 38, 30 0 14/36 Site Elevation (ft): Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observation 1/4.3.8 13.0.5 1.00.3 13.6.2.2 6.74 2.55 0.2.5 1 1/4.3.8 13.0.5 1.00.3 13.6.2.2 6.74 2.0.2.5 1 1/4.4.6 12.3.3 0.9.4.8 6.6.9.4 6.6.5 45.2.2 1 1/4.4.6 12.3.3 0.9.4.8 6.6.4.4 40.0.2 1 1 1/4.4.6 12.3.3 0.9.4.8 6.6.5.4.4.2.2 1 1 1/4.4.6 12.3.3 0.9.4.8 6.6.5.4.4.2.2 1 1 1/4.5.6 12.3.5 0.9.4.8 6.6.6.4.4.4.0.4	Tel. (505) 564-2281 Fax (505) 324-2022 Project: BMG Land Farm Sampling Project No.: Site: Evaporation Pond Date: $D-Q-OB$ Sampler: MW /J. W:11:5 Date: $D-Q-OB$ Sampler: MW /J. W:11:5 Date: $D-Q-OB$ Sampling Method: Purge Air Temperature: $T_2 \in F$ Depth of Well (ft): 38.30 @ 143@ Site Elevation (ft): 2 Time (deg C) (µS) (mS) (mg/L) pH (mV) (galions) Notes/Observatio 1/43.8 13:05 1,003 13.42.2 6.71 25.5 O. 25 [H:1] 1/4.1 12.44 0.969 6.59 4.66 40.0 1 [H:4] 12.43 5.5 O. 25 [H:4] [H:4] 5.5 O.978 6.65 45.7.2 1 [H:6] 5.64/5.7.2 1 [H:6] [H:6] 5.64/5.7.2 <t< th=""><th>Monitor V</th><th>Vell No:</th><th>MW-1</th><th></th><th></th><th>624 E.</th><th>Comanche, Farmingto</th><th>on NM 87401</th></t<>	Monitor V	Vell No:	MW-1			624 E.	Comanche, Farmingto	on NM 87401				
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Equipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter;	Environment Head Device - Ocean lines	Analytical	Laboratory	/:		Hall Environmental Analysis Lab, Albuquerque, NM							
	zquipment used During Sampling: Reck water Level, YSI water Quality Meter;	Equipmen	t Used Duri	ing Sampling:		Keck Water Level; YSI Water Qualtity Meter;							
Other Notes/Comments	Other Notes/Comments	Other Note	es/Commer	nts									

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Tel. (505) 524-2221 Fax (505) 324-2022Project: BMG Land Farm SamplingSite:Evaporation PondDate: $10-4-0.2$ Location:Laves, NMTime: 13.22 Sampler:MW J. 0.1(L)Air Temperature: $72.9F$ Depth of Well (ft): 45.54 Well Diam. (in.): 2 Depth of Well (ft): 54.54 Well Diam. (in.): 2 TimeTempConductivityDOORPPURGED VOLUMETime(deg C)(μ S) (mS)(mg/L)pH(mV)(galions)Notes/Observatio13.2.812.2.80.8.3.95.756.8.133.81113.3.4 11.5 $2.8.3.8$ $3.8.3.8$ 1113.3.4 11.5 $2.8.3.7.5$ $6.8.1$ 33.8 113.4.6 $11.4.1$ $0.8.3.3$ 7.75 $6.8.1$ 33.8 113.4.6 $11.4.1$ $0.8.3.3$ 7.75 $6.8.1$ 33.8 113.4.6 $11.4.1$ $0.8.3.3$ 7.75 $6.8.1$ 33.8 113.4.6 $11.4.1$ $0.8.3.3$ 7.975 $6.8.1$ 33.8 113.4.6 $11.4.1$ $0.8.3.3$ 7.975 $6.8.1$ 33.8 113.4.6 $11.4.1$ $0.8.3.3$ 7.975 $6.8.1$ $33.8.1$ 113.4.6 $11.4.1$ $0.8.3.3.6.1$ $12.8.16.16.16.16.16.16.16.16.16.16.16.16.16.$	1	ven NO:	111 4 4 - 2			024 E.				
Project: DMG Land Faith Sampling Project No.: Stite: Evaporation Pond Location: Laves, NM Sampling Method: Purge Depth of Well (ft): 45.54 Depth of Well (ft): 3(1, 5, 3, 4) (152) Time (deg C) (deg C) (µS) (mS) (mg/L) pH (mw) (gallons) Notes/Observatio (3.2.8) 12.4.8 0.8 39 51.75 6.81 33.6 13.4.6 1.4.1 0.8 3.3 7.75 6.81 33.8 13.4.6 7.4.9 1.4.1 0.83.3 1.4.7 0.83.3 1.4.7 0.83.9 1.4.9 1.4.9 1.4.9 1.4.9 1.4.9 1.4.9 1.4.9 1.4.9 1.5.9 1.4.9 1.5.9 1.5.9 1.5.9	Ducia	DMCLana				Tel. (50	05) 564-2281 Fax (505) 324-2022		
Date: Loganization Point Sampler: MW JJ. (J.): Sampler: MW JJ. (J.): Sampling Method: Purge Sampler: MW JJ. (J.): Depth of Well (ft): 33(3,7,4) Depth of Well (ft): 33(3,7,4) Time: [13,2,2] Depth of Well (ft): 33(3,7,4) Time: [12,2,8] O. & & (MS) (mg/L) PH (mV) (gallons) Notes/Observatio [32,2,8] [2,2,8] O. & & 33 7.57 G. & 31 33.8 1 1.41 O. & & 33 7.75 G. & 133.8 1 [34:0] 1.41 J. & 33 7.87 G. & 133.8 1 [34:0] 1.41 J. & 34 1.474 J. & 33.8 1 [34:0] 1.41 J. & 34 1.474 J. & 34 1.474 J. & 34 1.474	Project:	BING Land	n Pond	g	_ Project No.:					
Source Ist // It. Ist // It. Sampler: Wether: Clear Sampling Method: Purge Air Temperature: 2 Depth of Well (ft): 45.54 Well Diam. (in.): 2 Depth to Water (ft): 39.374 © 132.4 Site Elevation (ft): 2 Temp Conductivity DO ORP PURGED VOLUME (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observatio 132.4 II.53 0.839 5:75 6.81 33.8 1 1 134.0 II.41 0.833 7.87 6.74 42.3 1 3 134.6 II.41 0.833 7.87 6.74 42.3 1 3 134.6 II.41 0.833 7.87 6.74 42.3 1 3 I.34.6 II.41 0.833 7.87 6.74 42.3 1 I.34.6 II.41 II.42 II.42 II.42 II.42 I	l ocation.		1		Uate: <u>10-4-08</u>					
Conductivity Do the Water (ft): 45.54 Well Diam. (in.): Temp Conductivity DO ORP PURGED VOLUME Time (deg C) (µS) (mS) (mg/L) PURGED VOLUME Time (deg C) (µS) (mS) ORP PURGED VOLUME Time (deg C) (µS) (mS) (mg/L) PH (mV) (gallons) Notes/Observatio 13.2.6 1/.5.1 4.688 Z.1 0.2.5 1 13.3.6 1/.5.1 4.688 Z.1 0.2.5 1 13.3.6 1/.41 0.8.33 7.75 6.81 33.8 1 1 13.4.0 1/.41 0.8.33 7.87 6.74 42.3 1 1 13.4.6 1 1 1 1 1 1 1 1 13.4.6 1 1 1 1 1 1 1 1 13.4.6 1 1 1 1 1 1 1 1	Sampler:	MAN N. L	<u></u>		- Weather: (164 r					
Depth of Well (ft): 45.54 Well Diam. (in.): 2 Depth to Water (ft): 39.37 (a) 132.4 Site Elevation (ft): 3 Temp Conductivity DO ORP PURGED VOLUME [32.9] [2.6] 0.864 5.15 4.88 23.1 0.755 [33.4] [1.5] 0.839 57.75 6.81 33.8 1 [340] [1.4] 0.833 7.87 6.74 42.3 1 [346] [1.4] 0.833 7.87 6.74 42.3 1 [346] [1.4] 0.833 7.87 6.74 42.3 1 [346] [1.4] 0.833 7.87 6.74 42.3 1 [346] [1.4] 0.833 7.87 6.74 42.3 1 [346] [1.4] 0.833 7.87 6.74 42.3 1 [346] [1.4] 0.833 7.87 6.74 42.3 1 [346] [1.4]	Sampling	Method:	Purge		Air Temperature: 72°F					
Depth to Water (ft): 39,37 132.6 Site Elevation (ft): Temp Conductivity DO ORP PURGED VOLUME Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observatio 132.6 12.6 0.839 5:75 6.81 33.6 1 1 133.6 11.41 0.833 7.87 6.74 42.3 1 1 1340 11.41 0.833 7.87 6.74 42.3 1 1 1346 1 1 1 1 1 1 1 1 1 1346 1	Depth of \	Well (ft):	45.54		Well Diam. (in.): 2					
Temp Conductivity DO ORP PURGED VOLUME Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observatio 132.4 12.6 0.839 5:75 6.81 33.8 1 1 134.0 11.41 0.833 7.87 6.74 42.3 1 1 134.6 1.41 0.833 7.87 6.74 42.3 1 1 134.6 1.41 0.833 7.87 6.74 42.3 1 1 134.6 1.41 0.833 7.87 6.74 42.3 1 1 134.6 1.41 0.833 7.87 6.74 42.3 1 1 134.6 1.41 1.41 0.833 7.87 6.74 42.3 1 1 134.6 1.41 1.41 1.41 1.41 1.41 1 1 1 1 1 1 1 1 1	Depth to	Water (ft):	39.37	@ 1326	Site Elevation (ft):					
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1340 11.41 0.833 7.87 6.74 42.3 1 1346 1 5umples Sumples Collecter 1346 1 1 5umples Collecter 1346 1 1 1 5umples Collecter 1346 1 1 1 1 1 1 1346 1 1 1 1 1 1 1346 1 1 1 1 1 1 1346 1 1 1 1 1 1 1346 1 1 1 1 1 1 1346 1 1 1 1 1 1 1346 1 1 1 1 1 1 1 1347 1 1 1 1 1 1 1 1 1348 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1336	11.53	0.839	5.75	6.81	33.8	<u> </u>			
I 346 Sumpley Collecter I I I I I I I I I I I I I I I I I I I	1340	11.41	0.833	7.87	6.74	42.3	}			
Analytical Parameters Sampled For (include Method #): BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserv Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM Equipment Used During Sampling: Keck Water Level; YSI Water Qualitity Meter; Other Notes/Comments	1346							Samples Collected		
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Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM Equipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter; Other Notes/Comments Other Notes/Comments	Analytical	Parameter	s Sampled For BTEX/GRO/DF Chlorides and	(include Me RO by 8021/8 TDS (1) 500m	thod #): 015 (4) 4 nL poly ui	0mL VO	As with HCl and (1) 40 red)mL VOA unpreserve		
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Equipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter; Other Notes/Comments Image: Comment State Sta	Analytical Disposal c	Parameter of Purged V Custody Re	s Sampled For BTEX/GRO/DF Chlorides and Vater: cord Complete	(include Me RO by 8021/8 TDS (1) 500m	thod #): 015 (4) 4 nL poly un On asph Yes	0mL VO npreserv alt or co	As with HCI and (1) 40 red ncrete pavement	OmL VOA unpreserve		
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Monitor Well No: MW-3 624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022 Project: BMG Land Farm Sampling Project No.; Evaporation Pond Date: 10-9-08 Stet: Evaporation Pond Date: 10-9-08 Sampling: MW A). (Will): Well Diam. (in.): 2 Sampting Method: Purge Air Temperature: 72 °F 2 Depth of Well (ft): 45.59 Well Diam. (in.): 2 Depth of Well (ft): 3.5, (a): (a): 12.53 Site Elevation (ft): 2 Time: [12:30] O. 64/9 I3.56 6.460 51.5 1 IZ:44 7 I3.02 0::84/9 I3.56 6.460 51.5 1 1 I2:52 I2:34 0::84/9 I3.56 6.460 51.5 1 1 I2:52 I2:34 0::84/9 I3.56 6.460 51.5 1 1 I2:54 I2:60 0:837 10:73 6.58 51.0 1 1 I2:54 I2:60 0:837 10:73 6.669 51.5 1 1 I2:57	Water Sa	ampling	Record			Anim	as Environme	ntal Services
Tel. (505) 564-2281 Fax (505) 324-2022 Tel. (505) 564-2281 Fax (505) 324-2022 Project No.: Ste: Evaporation Pond Location: Llaves, NM Tel. (505) 564-2281 Fax (505) 324-2022 Project No.: Ste: Evaporation Pond Location: Llaves, NM Teme Conductivity DO Conductivity DO OR P Teme Conductivity DO Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2">Conductivity Colspan="2"Conductivity Colspan="2"Conductivity Colspan="2"Conductivi	Monitor W	/ell No:	MW-3	ب الأوما تركي		624 E.	Comanche, Farmingto	on NM 87401
Project: BMG Land Farm Sampling Project No.: Site: Evaporation Pond Date: [0-9-0.9] Sampler: WW Aix Temperature: [2-3-0] Sampler: WW Aix (0:)():5 Weather: [2-3-0] Sampler: WW Aix Temperature: [2-3-0] Depth of Well (ft): 35.6 (0) [2-3-9] Site Elevation (ft): Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observations 12-47 13.0 Z 0.849 13.56 6.60 51.6 1 1 12-52 12.34 0.844 13.56 6.60 51.6 1 1 12-54 12.60 0.844 13.56 6.60 51.6 1 1 12-57 12.60 0.837 10.774 6.60 53.7 1 1 13-02 - - - - - 2 1 13-02 - - - - 2 1 1 Balaytical Parameters Sampled For (include Method					u.	Tel. (50	5) 564-2281 Fax (505	5) 324-2022
Site: Evaporation Pond Date: 10-9-08 Location: Laves, NM Time: 1230 Sampler: WW A). (J):(J): Air Tomperature: 12-9-08 Sampling Method: Purge Air Tomperature: 12-9-08 Depth to Water (ft): 35,64 @ 12-89 Site Elevation (ft): 2 Depth to Water (ft): 36,64 @ 12-89 Site Elevation (ft): 2 Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observations 12-9-4 PLOG 0.8 49 13.56 6.60 57.5 1 1 12-57 12.60 0.844 13.94 6.58 57.0 1 1 12-57 12.60 0.844 13.94 6.58 57.0 1 1 13-02 - - - - 2 2 7 5 13-02 - - - - 2 2 7 5 13-02 - - - - - 2 2 7	Project:	BMG Land	Farm Sampling		_	Projec	t No.:	
Location: Llaves, NM Sampler: WW A). (b.:)(1/2) Sampling Method: Purge Depth of Well (ft): 45.59 Uell Diam. (in.): 2 C(ccA Air Temperature: 72 °F Well Diam. (in.): 2 Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observations 12.44 11.04 0.583 7.81 (c.15 20.7 0.25 12.44 13.02 0.644 13.56 (c.60 57.5 1) 12.52 12.34 0.846 13.14 (c.58 5/.0 1) 12.53 12.60 0.837 10.71 (c.60 55.2 0).75 13.02 2 Air Temperature: 72 °F 13.02 0.846 13.14 (c.58 5/.0 1) 12.54 12.60 0.837 10.71 (c.60 55.2 0).75 13.02 2 Analytical Parameters Sampled For (include Method #): BTEX/GR0/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM Equipment Used During Sampling: Keck Water Level; YSI Water Qualitity Meter; and New Disposable Bailer Parameters Comments	Site:	Evaporatio	n Pond		-		Date: 10-9-08	
Sampling Method: Purge Air Temperature: 7 2 °F Depth of Well (ft): 45.59 Well Diam. (in.): 2 Depth of Well (ft): 3g. 6() 0 123 ° Site Elevation (ft): 2 Time (rdeg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observations 12.44 14.64 0.69 ° 13.56 6.60 ° 51.55 1 12.52 12.34 0.649 13.56 6.60 ° 51.55 1 12.52 12.34 0.649 13.56 6.60 ° 51.55 1 12.52 12.34 0.649 13.56 6.60 ° 51.55 1 12.57 12.60 0.637 10.77 5 1 13.02	_ocation:	Llaves, NM	1		-		Time: 1230	
Sampling Method: Purge Air 1 emperature: 12.24 Depth of Well (ft): 32.6 @ 12.34 Site Elevation (ft): 2 Depth to Water (ft): 32.6 @ 12.34 Site Elevation (ft): 2 Depth to Water (ft): 32.6 @ 12.34 Site Elevation (ft): 2 Depth to Water (ft): 32.6 @ 12.34 Site Elevation (ft): 0.25 12.47 13.02 0.844 13.56 6.60 57.5 1 12.57 12.34 0.846 13.14 6.56 57.0 1 12.57 12.60 0.737 10.171 6.60 56.2 0.755 1 13.02 0.846 13.14 6.56 57.0 1 1 1 13.02 0.8737 10.171 6.60 56.5 0.755 1 1 1 13.02 0.8737 10.174 6.60 56.5 0.755 1 1 1 1 13.02 0.8737 10.174 6.60 56.5 1 1 1 1 1 1	Sampler:	MAN N. (<u>willis</u>			We	ather: Clean	
Jept of Well (R): 3.8.6 0 12.8.9 Well Diam. (In.): 2 Jept to Water (R): 3.8.6 0 12.8.9 Site Elevation (R): Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observations 12.44 14.04 0.8.9.3 7.81 6.75 20.7 0.2.5 1 12.52 12.34 0.844 13.56 6.60 57.5 1 1 12.57 12.60 0.837 10.71 6.60 57.2 0.75 1 13.02 - <td>Sampling</td> <td>Method:</td> <td>Purge</td> <td></td> <td>- Air</td> <td>Tempera</td> <td>ature: <u>7 z ° F</u></td> <td></td>	Sampling	Method:	Purge		- Air	Tempera	ature: <u>7 z ° F</u>	
Temp Conductivity DO ORP PURGED VOLUME Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Observations 12.44 13.02 0.849 13.56 6.60 57.5 1 1 12.52 12.34 0.844 13.56 6.60 57.5 1 1 12.57 12.34 0.844 13.14 6.58 57.0 1 1 12.57 12.60 0.837 10.74 6.60 57.2 0.755 1 13.02 0.845 10.74 6.40 57.2 0.755 1 13.02 0.837 10.74 6.40 57.2 0.755 1 13.02 0.937 10.74 6.40 57.2 0.755 1 13.02 0.975 10.74 6.40 57.2 0.755 1 13.02 10.74 10.40 10.74 10.40 10.40 10.40 13.02 10.74 10.74 10.40 10.40 10.40 10.40 10.40	Jeptn of v	Vell (π): Nator (ft):	45.59	0 1220	- VVG - Site	ell Diam. Elevatio	. (IN.):2 n (ff):	
Time (deg C) (µ\$) (ms) (mg/L) pH (mV) (gallons) Notes/Observations 12 44 14.04 0.8 93 7. 81 6.75 20.7 0.2 5 1 12 47 13.02 0.849 13.56 6.60 57.5 1 1 12 52 12.34 0.846 13.14 6.58 57.0 1 1 12 57 12.60 0.837 10.77 6.60 57.2 0.755 1 13 0 2		Temp	Conductivity	DO		ORP		1
Image: Notest Sector (indice) Image: Notest Sector (indice) Image: Notest Sector (indice) IZ 474 I3.02 0.849 I3.56 6.60 57.5 1 IZ 57 I2.34 0.846 I3.14 6.58 57.0 1 IZ 574 I2.34 0.846 I3.14 6.58 57.0 1 IZ 574 I2.60 0.837 10.77 6.60 57.5 1 IZ 674 I2.60 0.837 10.77 6.60 57.5 1 I3.02 Impliest Sector (include Method #): Impliest collection (include Method #): Impliest collection (include Method #): BTEX/GR0/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Impliest collection (include Method #): Chlorides and TDS (1) 500mL poly unpreserved Yes Malytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM Equipment Used During Sampling: Keck Water Level; YSI Water Quality Meter; and New Disposable Bailer Other Notes/Comments Impliest Comments Impliest Comments Impliest Comments	Time	(deg C)	(uS) (mS)	(ma/i)	nH	(mV)	(gallons)	Notes/Observations
12:47 1:304 0:343 4:51 0:15 20:4 0:25 12:47 1:3.02 0:849 1:3.56 0:60 51.5 1 12:57 12.34 0:846 1:3.14 0:58 51.0 1 12:57 12.34 0:846 1:3.14 0:58 51.0 1 12:57 12.60 0:837 10.777 0:75 1 13:02		1400		7 91		707	(gunons)	
IZSZ 0.814 IS.56 (2.00 S/S) IZSZ 12.34 0.846 IS.44 6.58 S/.0 IZST 12.60 0.837 10.77 6.60 S/.2 0.75 I302 Image: Strain of the s	1244	11.04	0.843		6.15	40.7	0.25	
IZST	1757	12.04	0.819	1214	6.60	21.5	<u>I</u>	
I25 + I2.CO C. 63 + I0.++ C. 60 56.2 C. 75 I302 Imples alled A I302 Imples alled A I302 Imples alled A Imples alled A <	1252	16.34	0.816	12,17	0.50	51.0	~ 7 ~	
1302 3. mples alled A Analytical Parameters Sampled For (include Method #): 4. all all all all all all all all all al	125+	12.60	0.057	10.++	6.60	<u>35,2</u>	0,75	
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Imalytical Parameters Sampled For (include Method #): BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA unpreserved Chlorides and TDS (1) 500mL poly unpreserved Visposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Imalytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM quipment Used During Sampling: Keck Water Level; YSI Water Qualitity Meter; and New Disposable Bailer								
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Pisposal of Purged Water: On asphalt or concrete pavement Inain of Custody Record Complete? (Y/N) Yes Inalytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM quipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer	• • • • • • • • • • • • • • • • • • • •		Chlorides and J	DS (1) 500m		nreserv	ed	
isposal of Purged Water: On asphalt or concrete pavement hain of Custody Record Complete? (Y/N) Yes nalytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM quipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer ther Notes/Comments Image: Comments			Childrides and 1	03(1)000		ipreserv	eu	
Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM Equipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer Other Notes/Comments								
Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM Equipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer Analytical Comments	Disposal o	of Purged V	Vater:		On asph	alt or co	ncrete pavement	
Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM Equipment Used During Sampling: Keck Water Level; YSI Water Qualitity Meter; and New Disposable Bailer Analysis Lab, Albuquerque, NM Other Notes/Comments Image: Comments	Chain of C	ustody Re	cord Complete	? (Y/N)	Yes	· · · · · · · · · · · · · · · · · · ·		<u>.</u>
Equipment Used During Sampling: Keck Water Level; YSI Water Qualtity Meter; and New Disposable Bailer Other Notes/Comments	Analytical	Laboratory	/:		Hall Env	ironment	al Analysis Lab, Albu	querque, NM
and New Disposable Bailer Other Notes/Comments	quipment	t Used Duri	ing Sampling:		Keck Wa	ater Leve	l; YSI Water Qualtity I	Meter;
Other Notes/Comments				,	and New	/ Disposa	able Bailer	-
	Other Note	s/Commer	nts					
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Water S	ampling	Record			Anim	nas Environme	ntal Services
Monitor V	Vell No:	MW-4			624 E.	Comanche, Farmingto	n NM 87401
					Tel. (50)5) 564-2281 Fax (505) 324-2022
Project:	BMG Lanc	Farm Sampling]		Projec	ct No.:	·
Site:	Evaporatio	on Pond		_		Date: 10-9-08	
Location:	Llaves, NN	1		_		Time: 1356	
Sampler:	KANY N.	Willis			We -	ather: <u>Clear</u>	
Sampling	Wethod:	Purge		- Air - w/	l emper		
Depth of	Well (IL). Water (ff)	29.10		- Site	Flevatic	n (ff):	
		Conductivity			ORP		
Time	(deg C)	(μS) (mS)	(mg/L)	pH	(mV)	(gallons)	Notes/Observations
1405	12.53	0.907	8.58	6.70	28.9	0.25	
140	17 24	0.902	7,72	6.63	46.9	1	
1414	12.25	0.904	8.81	6.58	53.8		
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1100							-unpres concerta
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1	.	L <u></u> .		L		L	
Analytical	Parameter	s Sampled For	(include Me	thod #).			
Analytical	ranameter	BTEX/GRO/DE	O by 8021/8	015 (4) 4	0ml VO	As with HCI and (1) 4()ml_VOA unpreserved
·	· ·	Chlorides and I	TDS (1) 500m		nreserv	red	
		Childrideo una					
Disposal	of Purged V	lator		On asph	alt or co	ncrete navement	
Chain of C	ustody Re	cord Complete	2 (Y/N)	Yes			
Analytical		/:	. (1/14)	Hall Env	ironmen	tal Analysis Lab. Albud	
Fauinmen	t llead Dur	ing Sampling:		Keck Wa	ter Leve	el: YSI Water Qualtity	Meter
Equipmen		ing oumphing.				able Bailer	
				and new	Dispos		
Other Note	es/Commer	nts				,	
1						<u> </u>	
1							
I		<u> </u>				<u></u>	

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Monitor W	ampling	Record			Anim	as Environme	ental Service		
1	/ell No:	Interstitia			624 E	Comanche, Farmingt	on NM 87401		
				1ei. (505) 564-2281 Fax (505) 324-2022					
Project:	BING Land	Farm Sampling	9	-	Projec	Dato:			
l ocation.	Laves NA	1	<u> </u>	-		Time: 1501			
Sampler:	Pathone A). I	alillis		-	We	ather: (leg C			
Sampling	Method:	Purge	····	Air	Temper	ature: G8°F			
Depth of V	Vell (ft);	12.10		w	ell Diam	. (in.): <u>2</u>			
Depth to V	Vater (ft):	9.86 Q	1504	Site Elevation (ft):					
	Temp	Conductivity	DO		ORP	PURGED VOLUME	:		
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observa		
1508	19.01	183.7	0,98	6.11	-35.7	0.25			
1515				ļ	ļ		Gamples (
							1-1		
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	<u> </u>								
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			r *	· · · · ·					
Analytical	Parameter	s Sampled For BTEX/GRO/DF Chlorides and	(include Me RO by 8021/8 TDS (1) 500m	thod #): 015 (4) 4 hL poly u	0mL VO	As with HCI and (1) 4 ed	0mL VOA unpres		
							-		
	<u> </u>								
Disposal o	f Purged V	Vater:		On aspł	nalt or co	ncrete pavement			
Disposal o Chain of C	f Purged V ustody Re	Vater: cord Complete	? (Y/N)	On aspł Yes	nalt or co	ncrete pavement			
Disposal o Chain of C Analytical	f Purged V ustody Re Laboratory	Vater: cord Complete /:	? (Y/N)	On aspł Yes Hall Env	nalt or co vironment	ncrete pavement al Analysis Lab, Albu	iquerque, NM		

C	hain-	of-Cu	stody Record	Turn-Around	Time:				_												
Client:	Anima	5 En	Vilagrage L Konviers	Standard	🗆 Rush								El	NV Stc	'1R : 1		N P	ne: Da			-
			VIION MENUAL ACTIVICES	Project Name	;			1 X							"			rs.A		Л	
Mailing	Address	1711		DM/	1 15	2		www.hallenvironmental.com													
		644	E. Comanche	Project #:				4901 Hawkins NE - Albuquerque, NM 87109													
_tati	Mingte	M, N	<u>M 8 +401</u>					Tel. 505-345-3975 Fax 505-345-4107													
email o	<u>". </u>	505-	375-7077	Project Mana	1000-	2		3	(le	· ·		- 1		(N.C.G	aco.		Q			8 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1
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X Stan	Standard D Level 4 (Full Validation)			Ros	s Ken	nemer	8(Gas	as/L					PO	PC			<u>L</u> BRC	Se la		
□ Other			Sampler:	Athan	1. Jillis	╡┋	PH ((C)	<u> </u>	=			10 ₂ ,	082			医 N	17	Ä		
	(Type)			Out loes stores	DAYOS.	IE NO PARTIN	國卡	 +	0151	118.	504	AH	6	0 ₃ ,N	s / 8		Â	5	म्	Ч	- 2
	· · · · ·	······		Samplevitering	oerature A.T.A.	4		TBE	9 bc	po	po	or	etal	CI,N	cide	(A)	-i	प्र	γ	-	ک د
				Container	Preservative		≵	≥ +	lethe	Meth	Meth	PNA	8 M	; (F,	esti	S	Ser	18	-	Ñ	oble
Date	Time	Matrix	Sample Request ID	Type and #	Туре	HEAL/No		Ш	NH	E) H	B (I	10 (RA	ions	81 F	60B	70 (22	8	22	Bul
						a start and the start		Ē	Ë	片	Ш	8	R	Ar	80	82	82	88	<u>[n]</u>	\rightarrow	- Ā
7-9-08	0823	HzO	Trip Blank	2-40ml glass	Hel		X														
	1450		MW-1	4- 40ml glass	HC1 None													X	凶	즤	
5	1345		ML1-Z		1													\times	X	\times	
)	1302		MW-3		5													\times	X	\times	
\checkmark	1420	\checkmark	MW-4	2	\checkmark													X	\times	\times	
-9-08	1515	H-0	Interstitial Well	4-40 ml glass 1-40 ml glass	HCI													Х	Х	X	
7	1144	Soil	(P #1	meOH Kit	meot]		X	ZT		
7	1124	501-1	(P11 #2											Ι				\times	$\left \right\rangle$		
T	1058	C	1011 #3	C	C													X	X		
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Date:	Time:	Relinquish	ed by:	Received by:	ΛΛ	PoterslogTime	Re	mark	s:	·/	sta	nd	nr	-1	5		•	<u> </u>	الصديد مع	4	· • •
10/13/08	0800	Nath	- Willin	Hands	eg K. Ly	DAS 0801	2 11	17 W			<i>.</i>		<i>L.</i>	2-				-	-	-	
Date:	Time:	Relinquish	ed by:	Received by:		V V Date Time				,		~		1							
10/13/08/0900 L. (UPP)						5	Shipped via Greyhound														

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



COVER LETTER

Monday, November 03, 2008

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

TEL: (505) 486-1776 FAX (505) 324-2022

RE: BMG Landfarm

Dear Ross Kennemer:

Order No.: 0810283

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 10/13/2008 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



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109 505.345 3975 ■ Fax 505.345.4107 www.hallenvironmental.com

Date: 03-Nov-08

CLIENT:Animas Environmental ServicesProject:BMG LandfarmLab Order:0810283

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_W, SAMPLE 0810283-06A: necessary dilution for foamy sample Analytical Comments for METHOD 8021BTEX_W, SAMPLE 0810283-06A: necessary dilution for foamy sample

Lab ID:	0810283-01	Ma	atrix: TRIP BLANK
Project:	BMG Landfarm	Date Rece	ived: 10/13/2008
Lab Order:	0810283	Collection	Date: 10/9/2008 8:23:00 AM
CLIENT:	Animas Environmental Servi	ces Client Sampl	e ID: FIELD BLANK

Date: 03-Nov-08

Analyses	Acount	y dy i	ual Units	Dr	Date Analyzeu
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/20/2008 12:51:52 PM
Toluene	ND	1.0	µg/L	1	10/20/2008 12:51 [.] 52 PM
Ethylbenzene	ND	1.0	µg/L	1	10/20/2008 12.51:52 PM
Xylenes, Total	ND	2.0	µg/L	1	10/20/2008 12:51.52 PM
Surr: 1,2-Dichloroethane-d4	102	59.3-133	%REC	1	10/20/2008 12:51:52 PM
Surr: 4-Bromofluorobenzene	111	80.4-119	%REC	1	10/20/2008 12:51 52 PM
Surr: Dibromofluoromethane	101	59.5-134	%REC	1	10/20/2008 12:51 52 PM
Surr: Toluene-d8	98.2	53.5-136	%REC	1	10/20/2008 12:51:52 PM

Qualifiers:

E Estimated value

*

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

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

	Hall	Enviro	nmental	Analy	sis La	boratory	, Inc.
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Date: 03-Nov-08

CLIENT: Animas Environmental Services Client Sample ID: MW-1 Lab Order: 0810283 Collection Date: 10/9/2008 2:50:00 PM **Project:** BMG Landfarm Date Received: 10/13/2008 Matrix: AQUEOUS 0810283-02 Lab ID: Analyses Result POI Qual Unite nF Data Analy

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE.			<u></u>	Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/16/2008
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	10/16/2008
Surr: DNOP	123	58-140	%REC	1	10/16/2008
1					
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/18/2008 5:23:22 AM
Surr: BFB	84.3	59.9-122	%RĘC	1	10/18/2008 5:23:22 AM
1					
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	42	1.0	mg/L	10	10/28/2008 4:38:14 PM
EPA METHOD 8260: VOLATILES SH	ORT LIST				Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/20/2008 1:21:28 PM
Toluene .	ND	1.0	µg/L	1	10/20/2008 1:21:28 PM
Ethylbenzene	ND	1.0	µg/L	1	10/20/2008 1:21:28 PM
Xylenes, Total	ND	2.0	µg/L	1	10/20/2008 1:21:28 PM
Surr: 1,2-Dichloroethane-d4	105	59.3-133	%REC	1	10/20/2008 1:21.28 PM
Surr: 4-Bromofluorobenzene	111	80.4-119	%REC	1	10/20/2008 1:21:28 PM
Surr. Dibromofluoromethane	105	59.5-134	%REC	1	10/20/2008 1:21:28 PM
Surr: Toluene-d8	94.0	53.5-136	%REC	1	10/20/2008 1:21:28 PM
SM 2540C: TDS					Analyst: KMB
Total Dissolved Solids	660	100	mg/L	5	10/14/2008

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank					
2	Е	Estimated value	H H	Holding times for preparation or analysis exceeded				
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level				
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit				
I	S	Spike recovery outside accepted recovery limits		Page 2 of 9				
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Lab Order:	0810283			Collection Dat	te: 10/9/200	8 1:45:00 PM
Project:	BMG Landfarm			Date Receive	d: 10/13/20	08
Lab ID:	0810283-03			Matri	x: AQUEO	US
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE			. ·		Analyst: SCC
Diesel Range C	Drganics (DRO)	ND	1.0	mg/L	1	10/16/2008
Motor Oil Rang	e Organics (MRO)	ND	5.0	mg/L	1	10/16/2008
Surr: DNOP		122	58-140	%REC	1	10/16/2008
EPA METHOD	8015B: GASOLINE RAN	IGE				Analyst: DAM
Gasoline Range	e Organics (GRO)	ND	0.050	mg/L	1	10/18/2008 5:53:43 AM
Surr: BFB		85.6	59. 9 -122	%REC	1	10/18/2008 5:53:43 AM
EPA METHOD	300.0: ANIONS					Analyst: SLB
Chloride		35	0.10	mg/L	1	10/23/2008 11:10:14 AM
EPA METHOD	8260: VOLATILES SHO	RT LIST				Analyst: NSB
Benzene		ND	1.0	µg/L	1	10/20/2008 1:51:00 PM
Toluene		ND	1.0	μg/L	1	10/20/2008 1:51:00 PM
Ethylbenzene		ND	1.0	μg/L	1	10/20/2008 1:51:00 PM
Xylenes, Total		ND	2.0	µg/L	1	10/20/2008 1:51:00 PM
Surr: 1,2-Dicl	hloroethane-d4	100	59.3-133	%REC	1	10/20/2008 1:51:00 PM
Surr: 4-Brom	ofluorobenzene	105	80.4-119	%REC	1	10/20/2008 1:51:00 PM
Surr: Dibrom	ofluoromethane	100	59.5-134	%REC	1	10/20/2008 1:51:00 PM
Surr: Toluene	ə-d8	97.1	53.5-136	%REC	1	10/20/2008 1:51:00 PM
SM 2540C: TD	S					Analyst: KMB
Total Dissolved	Solids	550	200	mg/L	1	10/16/2008

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Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

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CLIENT:

Qualifiers:

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Date: 03-Nov-08

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Client Sample ID: MW-2

E Estimated valueJ Analyte detected below quantitation limitsND Not Detected at the Reporting Limit

Value exceeds Maximum Contaminant Level

- 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

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				/		v /	

Date: 03-Nov-08

CLIENT: Animas Environmental Services Client Sample ID: MW-3 Lab Order: 0810283 Collection Date: 10/9/2008 1:02:00 PM BMG Landfarm **Project:** Date Received: 10/13/2008 Matrix: AQUEOUS 0810283-04 Lab ID: Result **PQL** Qual Units DF Analyses **Date Analyzed** EPA METHOD 8015B: DIESEL RANGE Analyst: SCC Diesel Range Organics (DRO) ND 1.0 mg/L 1 10/16/2008 Motor Oil Range Organics (MRO) ND mg/L 10/16/2008 5.0 1 Surr: DNOP %REC 10/16/2008 127 58-140 1

127	00-140	701120	•	10,10,2000
NGE				Analyst: DAM
ND	0.050	_ mg/L	1	10/18/2008 6:24:02 AM
86.2	59.9-122	%REC	1	10/18/2008 6:24:02 AM
				Analyst: SLB
36	0.10	mg/L	1	10/23/2008 11:27:39 AM
ORT LIST				Analyst: NSB
. ND	1.0	µg/L	1	10/20/2008 2:20:41 PM
ND	1.0	μg/L	1	10/20/2008 2:20:41 PM
ND	1.0	µg/L	1	10/20/2008 2:20:41 PM
ND	2.0	µg/L	1	10/20/2008 2:20:41 PM
104	59.3-133	%REC	1	10/20/2008 2:20:41 PM
103	80.4-119	%REC	1	10/20/2008 2:20:41 PM
103	59.5-134	%REC	1	10/20/2008 2:20:41 PM
94.6	53.5-136	%REC	1	10/20/2008 2:20:41 PM
				Analyst: KMB
800	200	mg/L	1	10/16/2008
	NGE ND 86.2 36 ORT LIST ND ND ND ND 104 103 103 94.6	NGE NGE 36 0.10 ORT LIST ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 2.0 104 59.3-133 103 80.4-119 103 59.5-134 94.6 53.5-136	NGE NGE ND 0.050 mg/L 86.2 59.9-122 %REC 36 0.10 mg/L ORT LIST ND 1.0 µg/L ND 1.0 µg/L ND 1.0 µg/L ND 2.0 µg/L 104 59.3-133 %REC 103 80.4-119 %REC 103 59.5-134 %REC 94.6 53.5-136 %REC	NGE NGE ND 0.050 mg/L 1 86.2 59.9-122 %REC 1 36 0.10 mg/L 1 ORT LIST ND 1.0 µg/L 1 ND 1.0 µg/L 1 ND 1.0 µg/L 1 ND 2.0 µg/L 1 104 59.3-133 %REC 1 103 80.4-119 %REC 1 103 59.5-134 %REC 1 94.6 53.5-136 %REC 1

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	Е	Estimated value	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		Page 4 of 9

CLIENT:	Animas Environment	tal Services		Client Sample II): MW-4	MW-4				
Lab Order:	0810283			Collection Dat	e: 10/9/200	8 2:20:00 PM				
Project:	BMG Landfarm			Date Received	1: 10/13/20	08				
Lab ID:	0810283-05			Matri	K: AQUEO	AQUEOUS				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed				
EPA METHOD	8015B: DIESEL RANGE	:				Analyst: SCC				
Diesel Range C	Drganics (DRO)	ND	1.0	mg/L	1	10/16/2008				
Motor Oil Range Organics (MRO)		ND	5.0	mg/L	1	10/16/2008				
Surr: DNOP	,	124	58-140	%REC	1	10/16/2008				
EPA METHOD	8015B: GASOLINE RAN	NGE				Analyst: DAM				
Gasoline Range	e Organics (GRO)	ND	0.050	mg/L	1	10/18/2008 6:54:13 AM				
Surr: BFB		89.0	59.9-122	%REC	1	10/18/2008 6.54.13 AM				
EPA METHOD	300.0: ANIONS					Analyst: SLB				
Chloride		34	0.10	mg/L	1	10/23/2008 11:45:03 AM				
EPA METHOD	8260: VOLATILES SHO	RT LIST				Analyst: NSB				
Benzene		ND	1.0	µg/L	1	10/20/2008 2:50:24 PM				
Toluene		ND	1.0	µq/L	1	10/20/2008 2:50:24 PM				

200

mg/L

Hall Environmental Analysis Laboratory, Inc.

Date: 03-Nov-08

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			F 3' -
Toluene	ND	1.0	μg/L
Ethylbenzene	ND	1.0	µg/L
Xylenes, Total	ND	2.0	μg/L
Surr: 1,2-Dichloroethane-d4	105	59.3-133	%REC
Surr: 4-Bromofluorobenzene	110	80.4-119	%REC
Surr: Dibromofluoromethane	111	59.5-134	%REC
Surr. Toluene-d8	98.1	53.5-136	%REC
M 2540C: TDS			

760

Total Dissolved Solids

SM 2540C:

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

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10/20/2008 2:50:24 PM

10/20/2008 2:50[.]24 PM

10/16/2008

Analyst: KMB

Animas Environmental Services

0810283

BMG Landfarm

0810283-06

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CLIENT:

Lab ID:

Lab Order: Project: Date: 03-Nov-08

Client Sample ID: Interstitial Well Collection Date: 10/9/2008 3:15:00 PM Date Received: 10/13/2008 Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/L	1	10/16/2008
Motor Oil Range Organics (MRO)	ND	50	mg/L	1	10/16/2008
Surr: DNOP	124	58-140	%REC	1	10/16/2008
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	0.50	mg/L	10	10/17/2008 2:43·00 PM
Surr: BFB	87.4	59.9-122	%REC	10	10/17/2008 2:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: DAM
Benzene	ND	10	μg/L	10	10/17/2008 2:43:00 PM
Toluene	ND	10	µg/L	10	10/17/2008 2:43:00 PM
Ethylbenzene	ND	10	µg/L	10	10/17/2008 2:43:00 PM
Xylenes, Total	ND	20	µg/L	. 10	10/17/2008 2:43:00 PM
Surr: 4-Bromofluorobenzene	97.7	65.9-130	%REC	10	10/17/2008 2:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	100000	500	mg/L	5000	10/28/2008 4:55:38 PM
SM 2540C: TDS					Analyst: KMB
Total Dissolved Solids	180000	100	mg/L	1	10/16/2008

Qualifiers:	*	Value exceeds Maximum Contaminant Level		В	Analyte detected in the associated Method Blank
1	E	Estimated value		Н	Holding times for preparation or analysis exceeded
I.	J	Analyte detected below quantitation limits		MCL	Maximum Contaminant Level
1	ND	Not Detected at the Reporting Limit		RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits			Page 6 of 9
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Date: 03-Nov-08

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Client Sample ID: Cell #1 **CLIENT:** Animas Environmental Services Lab Order: 0810283 Collection Date: 10/9/2008 11:44:00 AM BMG Landfarm **Project:** Date Received: 10/13/2008 Matrix: MEOH (SOIL) Lab ID: 0810283-07 · • • • • .14 1 TT-- 14 np Data Analan nor • د.

Analyses	Result	PQL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS	•			Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/20/2008
Motor Oil Range Organics (MRO)	55	50	mg/Kg	1	10/20/2008
Surr: DNOP	111	61.7-135	%REC	1	10/20/2008
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/18/2008 1:20:42 AM
Surr: BFB	90.2	58.8-123	%REC	1	10/18/2008 1:20:42 AM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	14	0.30	mg/Kg	1	10/23/2008 4:44:03 AM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	10/20/2008 6:17:06 PM
Toluene	ND	0.050	mg/Kg	1	10/20/2008 6:17:06 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/20/2008 6:17:06 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/20/2008 6.17:06 PM
Surr: 1,2-Dichloroethane-d4	102	81.6-105	%REC	1	10/20/2008 6:17:06 PM
Surr: 4-Bromofluorobenzene	105	84.7-111	%REC	1	10/20/2008 6:17:06 PM
Surr: Dibromofluoromethane	104	77.4-105	%REC	1	10/20/2008 6:17:06 PM
Surr: Toluene-d8	88.8	88.2-113	%REC	1	10/20/2008 6:17:06 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level		B	Analyte detected in the associated Method	Blank
	Ε	Estimated value	`	Н	Holding times for preparation or analysis e	exceeded
	J	Analyte detected below quantitation limits		MCL	Maximum Contaminant Level	
	ND	Not Detected at the Reporting Limit		RL	Reporting Limit	D
	S	Spike recovery outside accepted recovery limits				Page / 019
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Date: 03-Nov-08

CLIENT: Animas Environmental Services Client Sample ID: Cell #2 Lab Order: 0810283 Collection Date: 10/9/2008 11:24:00 AM **Project:** BMG Landfarm Date Received: 10/13/2008 Matrix: MEOH (SOIL) 0810283-08 Lab ID: DOI ~ 1 17 1 n .

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/20/2008
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2008
Surr: DNOP	105	61.7-135	%REC	1	10/20/2008
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/18/2008 1:50:59 AM
Surr: BFB	83.9	58.8-123	%REC	1	10/18/2008 1:50:59 AM
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	1.1	0.30	mg/Kg	1	10/23/2008 5:01:28 AM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	10/20/2008 6:46:48 PM
Toluene	ND	0 050	mg/Kg	1	10/20/2008 6:46:48 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/20/2008 6:46:48 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/20/2008 6:46:48 PM
: Surr: 1,2-Dichloroethane-d4	96.4	81.6-105	%REC	1	10/20/2008 6:46:48 PM
Surr: 4-Bromofluorobenzene	106	84.7-111 ⁻	%REC	1	10/20/2008 6:46:48 PM
Surr: Dibromofluoromethane	98.3	77.4-105	%REC	1	10/20/2008 6:46:48 PM
Surr: Toluene-d8	91.6	88.2-113	%REC	1	10/20/2008 6:46:48 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В		Analyte detected in the associated Method Blank
T	Ε	Estimated value	н		Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MC	L	Maximum Contaminant Level
1	ND	Not Detected at the Reporting Limit	RL		Reporting Limit
1	S	Spike recovery outside accepted recovery limits			Page 8 of 9
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CLIENT:	Animas Environmen	ital Services		Client Sample II	: Cell #3	
Lab Order:	0810283			Collection Date	e: 10/9/200	8 10:58:00 AM
Project:	BMG Landfarm			Date Received	1: 10/13/20	08
Lab ID:	0810283-09			Matrix	: MEOH (SOIL)
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range O	rganics (DRO)	ND	10	mg/Kg	1	10/20/2008
Motor Oil Range	e Organics (MRO)	ND	50	mg/Kg	1	10/20/2008
Surr: DNOP		106	61.7-135	%REC	1	10/20/2008
EPA METHOD	8015B: GASOLINE RA	NGE				Analyst: DAM
Gasoline Range	Organics (GRO)	ND ·	5.0	mg/Kg	1	10/18/2008 2:21:07 AM
Surr: BFB		88.8	58.8-123	%REC	1	10/18/2008 2:21:07 AM
EPA METHOD	300.0: ANIONS					Analyst: SLB
Chloride		• 1.4	0.30	mg/Kg	1	10/23/2008 5:18:53 AM

Date: 03-Nov-08

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Chloride	• 1.4	0.30	mg/Kg	1	10/23/2008 5:18:53 AM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	10/20/2008 7:16:28 PM
Toluene	ND	0.050	mg/Kg	1	10/20/2008 7:16:28 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/20/2008 7:16:28 PM
Xylęnes, Total	ND	0.10	mg/Kg	1	10/20/2008 7:16:28 PM
Surr: 1,2-Dichloroethane-d4	99 1	81.6-105	%REC	1	10/20/2008 7:16:28 PM
Surr: 4-Bromofluorobenzene	99.6	84.7-111	%REC	1	10/20/2008 7:16:28 PM
Surr: Dibromofluoromethane	99.6	77.4-105	%REC	1	10/20/2008 7:16:28 PM
Surr: Toluene-d8	94.8	88.2-113	%REC	1	10/20/2008 7:16:28 PM

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- Value exceeds Maximum Contaminant LevelE 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 1

QA/QC SUMMARY REPORT

Animas Environmental Services **Client:** BMG Landfarm Ducient

Project: BMG Landf	arm						Wor	k Order: 0810283
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RF	PDLimit Qual
Method: EPA Method 300.0: Ar Sample ID: 0810283-09AMSD	nions	MSD			Batch II	D: 17387	Analysis Date:	10/23/2008 5.53:42 AM
Chloride Sample ID: MB-17387	15.43	mg/Kg <i>MBLK</i>	0.30	93.3	70.7 Batch II	122 D: 17387	0.526 Analysis Date:	20 10/23/2008 12:05 [.] 28 AM
Chloride Sample ID: LCS-17387	ND	mg/Kg LCS	0.30		Batch II	D: 17387	Analysis Date:	10/23/2008 12:57 [.] 42 AM
Chloride Sample ID: 0810283-09AMS	14.45	mg/Kg MS	0 30	96.3	90 Batch II	110 D: 17387	Analysis Date:	10/23/2008 5:36:17 AM
Chloride	15.35	mg/Kg	0.30	92.8	70.7	122		
Method: EPA Method 300.0: An Sample ID: MB	nions	MBLK			Batch II	D: R30848	Analysis Date:	10/23/2008 7.23.51 AM
Chloride Sample ID: MB	ND	mg/L <i>MBLK</i>	0.10		Batch I	D: R30893	Analysis Date:	10/27/2008 4:33:22 PM
Chloride Sample ID: MB	ND	mg/L <i>MBLK</i>	0.10		Batch II	D: R30912	Analysis Date:	10/28/2008 9:05:39 AM
Chloride Sample ID: LCS	ND	mg/L LCS	0.10		Batch II	D: R30848	Analysis Date:	10/23/2008 7:41:16 AM
Chloride · Sample ID: LCS	4.956	mg/L LCS	0.10	99.1	90 Batch II	110 D. R30893	Analysis Date:	10/27/2008 9:52:53 AM
Chloride Sample ID: LCS	4 943	mg/L LCS	0.10	98.9	90 Batch II	110 D: R30912	Analysis Date:	10/28/2008 9:23 04 AM
Chloride	5.040	mg/L	0.10	101	90	110		
Method: EPA Method 8015B: D Sample ID: MB-17395	iesel Range	Organics MBLK			Batch I	D: 17395	Analysis Date:	10/20/2008
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Sample ID: LCS-17395	ND ND	mg/Kg mg/Kg LCS	10 50		Batch I). 17395	Analysis Date:	10/20/2008
Diesel Range Organics (DRO) Sample ID: LCSD-17395	53.89	mg/Kg LCSD	10	108	64.6 Batch IE	116 D: 17395	Analysis Date:	10/20/2008
Diesel Range Organics (DRO)	55.47	mg/Kg	10	111	64.6	116	2.89 1	7.4
Method: EPA Method 8015B: Di	iesel Range							
Sample ID: MB-17380		MBLK			Batch IC	D: 17380	Analysis Date:	10/16/2008
Diesel Range Organics (DRO) Motor OII Range Organics (MRO) Sample ID: I CS-17380	ND ND	mg/L mg/L / CS	1.0 5.0		Batch IE) 17380	Analvsis Date:	10/16/2008
Diesel Range Organics (DRO) Sample ID: LCSD-17380	6.587	mg/L LCSD	1.0	132	74 Batch ID	157 D: 17380	Analysis Date:	10/16/2008
Diesel Range Organics (DRO)	6.460	mg/L	1.0	129	74	157	1.95	23

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- Qualifiers:

Ε Estimated value

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Spike recovery outside accepted recovery limits S

QA/QC SUMMARY REPORT

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Client: Animas Env	ironmental	Services			•	
Project: BMG Landf	arm		•			Work Order: 0810283
Analyte	Result	Units	PQL	%Rec	LowLimit HighLimit	%RPD RPDLimit Qual
Method: EPA Method 8015B: G	Sasoline Rar	nge				
Sample ID: 0810283-08A MSD		MSD			Batch ID: R3074	3 Analysis Date: 10/17/2008 6:46:02 PM
Gasoline Range Organics (GRO)	26.19	mg/Kg	5.0	90.7	69.5 120	5.41 11.6
Sample ID: 5ML RB		MBLK			Batch ID: R3074:	3 Analysis Date: 10/17/2008 9:08:03 AM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0			
Sample ID: 2.5UG GRO LCS		LCS			Batch ID: R3074:	Analysis Date: 10/17/2008 7:16.32 PM
Gasoline Range Organics (GRO)	24.18	mg/Kg	5.0	96.7	69 5 120	
Sample ID: 0810283-08A MS		MS			Batch ID: R30743	Analysis Date. 10/17/2008 6:15:30 PM
Gasoline Range Organics (GRO)	24.81	mg/Kg	5.0	85.2	69 5 120	· · · · · · · · · · · · · · · · · · ·
Method: EPA Method 8015B: G	asoline Ran	ge				
Sample ID: 0810283-02A MSD		MSD		•	Batch ID: R30743	Analysis Date: 10/17/2008 5:45:28 PM
Gasoline Range Organics (GRO)	0.4756	mg/L	0.050	95.1	80 · 115	0.879 8.39
Sample ID: 5ML RB		MBLK			Batch ID: R30743	Analysis Date: 10/17/2008 9:08:03 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050			
Sample ID: 2.5UG GRO LCS		LCS			Batch ID: R30743	Analysis Date: 10/17/2008 7:16:32 PM
Gasoline Range Organics (GRO)	0.4836	mg/L	0 050	96 7	80 115	
Sample ID: 0810283-02A MS		MS			Batch ID: R30743	Analysis Date. 10/17/2008 5:15:07 PM
Gasoline Range Organics (GRO)	0.4798	mg/L	0.050	96 0	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

÷ 1

S Spike recovery outside accepted recovery limits

Page 3

. QA/QC SUMMARY REPORT

Client:	Animas Environmental Services
Project:	BMG Landfarm

Project: BMG Land	farm						١	Work Orde	0810283
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B:	Volatiles				-				
Sample ID: 0810283-02A MSD		MSD			Batch	ID R30743	Analysis [Date: 10/17	/2008 5:45:28 PM
Methyl tert-butyl ether (MTBE)	10.20	µg/L	2.5	124	51.2	138	6.03	28	
Benzene	6.060	µg/L	1.0	108	85.9	113	0.364	27	
Toluene	41 90	µg/L	1.0	105	86.4	113	0.450	19	
Ethylbenzene	8 230	µg/L	1.0	103	83.5	118	1.54	10	
Xylenes, Total	49 .15	µg/L	2.0	107	83.4	122	0.911	13	
1,2,4-Trimethylbenzene	16.98	µg/L	1.0	129	83.5	115	5.27	21	S
1,3,5-Trimethylbenzene	4.892	µg/L	1.0	122	85.2	113	3.46	10	S
Sample ID: 5ML RB		MBLK			Batch I	ID: R30743	Analysis D	ate: 10/17	/2008 9:08:03 AM
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
Sample ID: 100NG BTEX LCS		LCS			Batch I	D: R30743	Analysis D	ate: 10/17/	2008 7:46:49 PM
Methyl tert-butyl ether (MTBE)	27.91	µg/L	2.5	140	51.2	138			S
Benzene	20.88	µg/L	10	104	85. 9	113			
Toluene	21.53	µg/L	1.0	108	86.4	113			
Ethylbenzene	21.02	µg/L	1.0	105	83.5	118			
Xylenes, Total	63.62	µg/L	20	`106	83.4	122			
1,2,4-Trimethylbenzene	23.22	µg/L	1.0	116	83.5	115	1		S
1,3,5-Trimethylbenzene	21.95	µg/L	1.0	110	85.2	113			
Sample ID: 0810283-02A MS		MS			Batch ID: R30743		Analysis D	nalysis Date: 10/17/2008 5:15:0	
Methyl tert-butyl ether (MTBE)	10.84	µg/L	2.5	132	51.2	138			
Benzene	6.038	µg/L	1.0	108	85.9	113			
Toluene	41.71	µg/L	1.0	104	86.4	113			
Ethylbenzene	8.358	µg/L	1.0	104	83.5	118			
Xylenes, Total	49.60	µg/L	2.0	108	83.4	122			
1,2,4-Trimethylbenzene	17.90	µg/L	1.0	136	83.5	115			S
1,3,5-Trimethylbenzene	5.064	µg/L	1.0	127	85.2	113			S

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 4

QA/QC SUMMARY REPORT

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Client: Animas	Environmental	Services						
Project: BMG La	andfarm				,		Wo	ork Order: 0810283
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD I	RPDLimit Qual
Method: EPA Method 8260	B: Volatiles Sho	rt List						
Sample ID: 5ml rb		MBLK			Batch I	D: R30780	Analysis Date	e: 10/20/2008 8:49:11 AM
Benzene	ND	mg/Kg	0 050					
Toluene	ND	mg/Kg	0.050					
Ethylbenzene	ND	mg/Kg	0 050					
Xylenes, Total	ND	mg/Kg	0.10					
Sample ID: 100ng ics		LCS			Batch I	D: R30780	Analysis Date	3: 10/20/2008 9 48:42 AM
Benzene	0.9611	mg/Kg	0.050	96 1	78.2	123		
Toluene	1.007	mg/Kg	0.050	101	72.6	128		
Sample ID: 100ng lcsd		LCSD			Batch I	D: R30780	Analysis Date	2: 10/20/2008 9:44:43 PM
Benzene	1 024	ma/Ka	0 050	102	83.2	118	6.33	19
Toluene	1.066	mg/Kg	0.050	107	84.8	112	5.76	0
Method: EPA Method 8260	: Volatiles Short	List						
Sample ID: 5ml rb		MBLK			Batch I	D: R30780	Analysis Date	e: 10/20/2008 8 [.] 49:11 AM
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					
Sample ID: 100ng Ics		LCS			Batch II	D: R30780	Analysis Date	: 10/20/2008 9 48:42 AM
Benzene	19.22	ug/L	10	96 1	86.8	120		
Toluene	20.14	µg/L	1.0	101	64.1	127		
Sample ID: 100ng lcsd		LCSD			Batch II	D: R30780	Analysis Date	. 10/20/2008 9:44:43 PM
Benzene	20.48	μg/L	1.0	102	86.8	120	6.33	20
Method: SM 2540C: TDS								
Sample ID: MB-17358		MBLK			Batch II	D: 17358	Analysis Date	: 10/14/2008
Total Dissolved Solids	ND	ma/L	20					
Sample ID: MBLK-17368		MBLK			Batch II	D: 17368	Analysis Date	: 10/16/2008
Total Dissolved Solids	ND	ma/L	20				-	
Sample ID: LCS-17358		LCS	20		Batch II	D [.] 17358	Analysis Date	· 10/14/2008
Total Dissolved Solida	1010		20	101	00	120		
Sample ID: 1 CS1-17369	1010		20	101	OU Batch II	17269	Analysis Data	10/16/2009
	4000	200		40.5		. 17300	Andiysis Dale.	10/10/2000
I otal Dissolved Solids	1036	mg/L	20	104	80	120		

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

Client Name ANIMAS ENVIRONMENTAL				Date Received	d [.]	10/13/2008	
Work Order Number 0810283	Received by	: AT	1				
				Sample ID la	ibels checked by	/~	
Checklist completed by: Signature		<u> </u>		>103		Initials -	
Matrix:	Carrier name	Grey	/hound				
Shipping container/cooler in good condition?		Yes		Νο	Not Present		
Custody seals intact on shipping container/coo	ler?	Yes		No 🗌	Not Present	Not Shipped	
Custody seals intact on sample bottles?		Yes		No 🗌	N/A		
Chain of custody present?		Yes		No 🗌			
Chain of custody signed when relinquished and	I received?	Yes		No 🗌			,
Chain of custody agrees with sample labels?		Yes	✓ '	No 🗌			
Samples in proper container/bottle?		Yes		No 🗌			
Sample containers intact?		Yes		No 🗔			
Sufficient sample volume for indicated test?		Yes		No 🗌			
All samples received within holding time?		Yes		No 🗌			
Water - VOA vials have zero headspace?	No VOA vials subn	nitted		Yes 🗌	No 🗌		
Water - Preservation labels on bottle and cap n	natch?	Yes		No \Box	N/A 🗹		
Water - pH acceptable upon receipt?		Yes		No 🗌	N/A 🗹		
Container/Temp Blank temperature?			1°	<6° C Acceptabl	e		
COMMENTS:				If given sufficient	time to cool		
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Client contacted	Date contacted			Perso	on contacted		
Contacted by:	Regarding:			•			
Comments							
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Sample Receipt Checklist
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Date	Time	Matrix	Sample Request ID	Container	Preservative	ELE AL NO	₹ 1	∠ +	Meth	Met	Wet	A S	8 8 9		Pes	S	(Sei	\$/1.	25	۲ ۲	lddi
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<u> </u>	1420		MW-4	U-HOALGHIS	HET	5	 					_			·	\square		XÞ	$\overline{\langle X \rangle}$	<u>}</u>	
10-9-08	1515	HzO	Interstitial Well	1-40ril alass	None	<u> </u>												<u>X</u>])	ΧİХ	1	
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.



4900 College Boulevard F

<u>수해용 등단 23 단**미 2 53**</u> Farmington, NM 87402 Office: 505.325.8874

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Fax: 505.327.9207

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September 19, 2008

Mr. Brad Jones NM Oil Conservation Division 1220 S. St. Francis Frive Santa Fe, NM 87505

Dear Mr. Jones:

Enclosed is one copy of the results from July 2008 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling for BMG's Centralized Waste Management Facility, Rio Arriba County, New Mexico.

Sincerely,

Amore

Mike Dimond President

Cc: **Brandon Powell** NMOCD – Aztec, NM

Animas Environmental Services, LLC

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

2008 SEP 23 PM 2 53

September 17, 2008

Mike Dimond Benson-Montin-Greer Drilling Corporation 4900 College Blvd Farmington, New Mexico 87402

RE: Results of July 2008 Evaporation Pond Groundwater Sampling and Treatment Zone Soil Sampling at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Dimond:

On July 21, 2008, Animas Environmental Services, LLC (AES), completed quarterly groundwater and soil treatment zone monitoring and sampling at the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico.

1.0 BMG Evaporation Pond Groundwater Monitoring and Sampling

1.1 Site Information

2

On April 14, 2008, AES personnel confirmed the presence of liquid within the interstitial well (IW) at the BMG Evaporation Pond. Site investigation activities conducted in May 2008 confirmed that while the primary liner had failed, the integrity of the secondary liner was not compromised, and no release to the environment had occurred. As a precautionary measure, New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitoring wells (MW-1 through MW-4) be installed around the evaporation pond and monitored quarterly in conjunction with on-going landfarm sampling. The BMG Evaporation Pond is located at the BMG Centralized Surface Waste Management Facility to the northeast of the shop and office area. A site map is included as Figure 1.

1.2 Groundwater Monitoring Well Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitoring wells on July 21, 2008. Groundwater samples were collected from MW-1 through MW-4 and the interstitial well. All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with disposable bailers and transferred into appropriate sample containers, labeled accordingly, and documented on Water Sample Collection Forms. The Chain of Custody Record was then completed, and samples were transported to the analyzing laboratory in chilled and insulated coolers at less than 6°C.



All groundwater analytical samples were submitted to Hall for analysis of the following parameters:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) EPA Method 8021
- Total Petroleum Hydrocarbons (TPH) (C₆-C₃₆) EPA Method 8015 Modified
- Chlorides EPA Method 300.0

Т

- Total Dissolved Solids (TDS) SM 2540C
- Mercury EPA Method 7470
- Total Recoverable Metals (TRM) EPA 6010

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES collected a depth to water measurement and recorded temperature, pH, conductivity, and oxidation-reduction potential (ORP) measurements for each well. All data was recorded onto Water Sample Collection Forms. Groundwater temperature ranged from 11.72°C in MW-2 to 18.68°C in IW. Conductivity ranged from 1.567 mS in MW-3 to 362.7 mS in IW, and ORP was measured between - 26.1 mV in IW and 184.6 mV in MW-3. pH ranged from 6.51 in IW to 7.26 in MW-4. A summary of water quality data is included in Table 1, and Water Sample Collection Forms are presented in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the July 2008 sampling event show that none of the wells sampled exceeded the New Mexico Water Quality Control Commission (WQCC) standards for BTEX constituents. No WQCC standard currently exists for TPH; however, IW had TPH concentrations of 9.8 mg/L. Each of the other wells had TPH concentrations below laboratory detection limits. Chloride and TDS concentrations were above laboratory detection limits in each of the samples. The Interstitial Well had metals concentrations above laboratory detection limits, and barium, cadmium, and lead concentrations above applicable WQCC standards. The results have been summarized as follows:

- Chloride: IW (120,000 mg/L), MW-1 (64 mg/L), MW-2 (40 mg/L), MW-3 (38 mg/L), and MW-4 (57 mg/L).
- TDS: IW (210,000 mg/L), MW-1 (830 mg/L), MW-2 (640 mg/L), MW-3 (610 mg/L), and MW-4 (770 mg/L).
- Metals: IW (Barium 240 mg/L, Cadmium 0.88 mg/L, Lead 0.35 mg/L).

The analytical results for the groundwater samples collected during the July 2008 sampling event have been tabulated and are presented in Tables 2 and 3. Groundwater analytical laboratory reports are presented in Appendix B.

2.0 Landfarm Soil Sampling

As required by the NMOCD permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from a depth of approximately two feet from the three treatment cells sampled. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-

Mr. Mike Dimond September 17, 2008 Page 3 of 4

contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to the analytical laboratory, Hall in Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.1 Laboratory Analytical Methods

Soil samples collected were analyzed for the following:

- BTEX per EPA Method 8021B;
- TPH per EPA Method 8015B;
- pH per SM4500-H+B (annually);
- Specific conductance (annually);
- Chlorides, fluorides, and sulfates per EPA Method 300.0 (annually);
- Mercury per EPA Method 7471 (annually);
- Arsenic, barium, cadmium, chromium, lead, selenium, and silver per EPA Method 6010B (annually).

Samples collected for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

2.2 Treatment Zone Analytical Results

Based on AES's observations of the treatment cells at the time of sample collection, treatment cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Cell #4 is not in use. Results are summarized as follows:

- Chloride concentrations were below the applicable standard of 500 mg/kg in each of the cells;
- BTEX concentrations were below applicable laboratory detection limits in each cell;
- TPH concentrations ranged from 3,700 mg/kg (Cell #1) up to 9,500 mg/kg (Cell #3); Specific conductance ranged from 360 µmhos/cm (Cell #1) up to 1,200 µmhos/cm (Cell #3);
- Sulfate varied from 8.8 mg/kg (Cell #1) to 2,200 mg/kg (Cell #3);
- Fluoride ranged from below the laboratory detection limit of 1.5 mg/kg (Cells #1 and #3) up to 2.4 mg/kg (Cell #2);
- Barium concentrations ranged from 77 mg/kg (Cell #3) to 92 mg/kg (Cell #2);
- Chromium concentrations ranged from 7.2 mg/kg (Cell #3) to 9.2 mg/kg (Cell #2);
- Lead concentrations ranged from 5.2 mg/kg (Cell #1) to 11 mg/kg (Cell #3).

The locations of all samples, as well as analytical results, are presented on Figure 2. Laboratory analytical reports can be found in Appendix B and are summarized in Tables 4 through 7.

3.0 Conclusion and Recommendations

Based upon the results of the July 2008 sampling event associated with the BMG Centralized Surface Waste Management Facility, groundwater analytical results from monitoring wells located around the Evaporation Pond are below laboratory detection limits or WQCC standards for BTEX and TPH. Groundwater samples from MW-1 through MW-4 were also below applicable WQCC standards for arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. However, groundwater samples from the Interstitial Well had reported concentrations above WQCC standards for barium, cadmium, and lead.

Soil analytical results from treatment zone monitoring within the landfarm were below laboratory detection limits for BTEX constituents and were below applicable standards for chlorides. Concentrations of TPH, sulfate, fluoride, barium, chromium, and lead were above laboratory detection limits in each treatment cell.

AES has scheduled quarterly treatment zone monitoring and sampling of evaporation pond monitoring wells to occur in October 2008. If you have any questions regarding the sampling procedures or results, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

andrea R. Cupps

Lany Cupps Project Manager

Attachments:	Table 1. Summary of Water Quality Data
	Table 2. Groundwater Analytical Results
	Table 3. Groundwater Metals Analytical Results
	Table 4. Soil BTEX and TPH Concentrations
	Table 5. Soil Chloride Concentrations
	Table 6. Soil Major Cations/Anions Analytical Results
	Table 7. Soil Metals Analytical Results
	Figure 1. Location of BMG Evaporation Pond and Monitoring Wells
	Figure 2. Treatment Zone Monitoring Locations
	Appendix A. Water Sample Collection Forms
	Appendix B. Laboratory Analytical Reports

Files/2008/BMG/Landfarm Sampling/gcbmg 091708

TABLE 1Water Quality and Well DataBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

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2.

		Top of						
Well ID	Date Measured	Casing Elevation	Depth to Water	Temp.	Specific Conduct	Dissolved Oxvaen	БН	ORP
	A BURGER	(ft amsl)	(ft)	(°C)	🏷 (mS) 🧼	(mg/L)		(mV)
Evaporation Pond Water	10-May-08	TBS	NM	12.66	116	NM	6.79	-3.6
Interstitial Well	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
Interstitial Well	21-Jul-08	TBS	9.61	318.68	362.7	0.20	<u>.</u> 6.51	<i>~~-</i> 26.1
MW-1 ·	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	<u>12.18</u>	2:236	4.85	6.57	173:2
MW-2	10-May-08	TBS	39.16	11.64	0.99	NM	7.78	97.7
MW-2	21-Jul-08	TBS	39.21	11.72	1.632	3.23	6.69	158.4
MW-3	10-May-08	TBS	38.38	12.80	0.96	NM	7.73	103.2
MW-3	21-Jul-08	TBS	38.49	. 12.44		3.69	6.82	184.6
MW-4	10-May-08	TBS	38.80	12.69	1.09	NM	7.92	78.5
MW-4	21-Jul-08	TBS	≺ <u>38</u> .91≷ ∖	·), 12.38	× 1.975	8.59	7.26	163.3

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NM - Not Measured

TBS - To Be Surveyed

Summary of Groundwater Analytical Results BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

Comple LD	Date	Dontono	Teluere	Ethyl-	Total			MPO	Chloridae	TDE
Sample I.D.	Sampleu		Toluene	Denzene	Ayleffes	GRO			(mall)	
Analytical	athad	(µg/L)	(<i>µy/L</i>)	9021P	(<i>µy/L)</i>	(III <u>y</u> /L)	0015D	<u>(IIIY/L)</u>	2000	SM 2540C
Analytical W	elliou	0UZ 1D		0U21D		0013D	00156	00156	300.0	31VI 2540C
New Mexico	WQCC	<u>,,,,,,,10,,,,,</u> ,	<u> </u>	2 1 /30 / 14	620	<u> * 2 NE (</u> \$	<u> AANE (</u>	<u>NE</u>	<u> </u>	<u>NE</u>
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
Interstitial Well	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
Interstitial Well	21-Jul-08	<5.0	<u></u> 12	<5.0	<10	1.0		<15∽`	120,000	210,000
								_		
MW-1	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	72	740
MW-1	21-Jul-08	<1.0	<1.0	<1.0	<u></u>	<0,050 }	<1.0	,<5.0	64	830,
MW-2	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	49	600
MW-2	21-Jul-08	 <1.0	<1.0	~1.0	~ 2.0	<0.050	<u></u> <1.0	<5.0	40	640
	40.14									
MW-3	10-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	44	680
MW-3	21÷Jul-08	<u></u> <1:0	<u>, ≷,≷1:0),</u>	<1.0	<2.0	<0.050	<u> </u>	<5.0	38	610
	10 Mov 09	<10	<10	<10		<0.050	<10	<5.0 :	52	720
MW-4	21- Iúl-08		1.0	<1.0 <1.0 <51	<	<0.050 <0.050		<u></u> >5.0	57 57	720
<u>IVIVV-4</u>	<u>21-Jui-08</u>	<u> </u>	<u> </u>	<u>, s s i.u</u>	<u> </u>	<u> `<<0;050~</u>	<u></u>		<u>\$17.257,</u> §) `	<u>, <!--/</u-->0. /</u>

NOTE: NE = Not Established

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Netter a state of a state of the state

TABLE 3Summary of Groundwater Metals Analytical ResultsBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

Sample ID	Sample Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Analyt	ical Method	6010	6010	6010	6010	6010	7470	6010	6010
NM WQCC	STANDARD	0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.05
Interstitial Well	21-Jul-08	<1.0	240	. 0.88	<0.30	0.35	<0.00080	<2.5	<0.25
					•				
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW-2	21-Jul-08	<0.020	0.18	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<0.00020	<0.050	<0.0050
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050

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Notes:

Analyte not detected above listed method limit

: < μg/L mg/L

Micrograms per liter (ppb) Milligrams per liter (ppm)

Quarterly Sampling Report September 17, 2008

Soil BTEX and TPH Concentrations BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

Landfarm	Samplá	Sample Location	Sample	Sample	Bourdan	Toluoro	Ethyl	N. Jone	TPH GRO (C6-	TPH DRO (C10-	
ID	ID		Date	(ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		Laborat	ory Analytyic	al Method		802	1.			8015M	er al
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	18	
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #1	#1	N 36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #1	#1	N 36° 23.375' W 106° 52.056'	21-Jul-08	2	<0.050	<0:050	<0.050	<0.10	5.4	2,000	, 1,700
		NI 26° 22 2001									
Cell #2	#1	W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #2	#1	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	ੇ<0.025	<0.10	<10 .	52	
Cell #2	#1	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	<10	<10	
Cell #2	#1	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #2	#1	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5	<0.025	<0.025	0.028	<0.10	<10	<10	
Cell #2	#1	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	

TABLE 4Soil BTEX and TPH ConcentrationsBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

Landfarm	Sampla	Sample Location	Samala	Sample	Bonzoo	TAU	Ethyl	Yulono	TPH GRO (C6-	TPH DRO (C10-	TPH MRO
Lanuarm ID	ID ID	and the second	Date	; ; : : (ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	14 X 10	Laborat	ory Analytyic	al Method			1.4. (38) %			8015M	
Cell #2	#1	N 36° 23.391' W 106° 51.984'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,000	540
Cell #2	#1	N 36° 23.408' W 106° 52.011'	21-Jul-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	3,000	1,700
Cell #3	#1	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #3	#1	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	, "~
Cell #3	#1	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	*
Cell #3	#1	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #3	#1	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	÷ <0.025	0.078	0.049	0.18	<10	<10	1. 1. 1.
Cell #3	#1	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	- 1
Cell #3	#1	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #3	#1	N 36° 23.380' W 106° 51.956'	21-Jul-08	2	<0.050	<0.050	<0.050	<1.0	88	7,100	2,400
Cell #4	#1	N 36' 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	

Note** 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.

Soil BTEX and TPH Concentrations BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

		Sample	S	Sample		Ethyl	ТРН GRO (C6	TPH DRO (C10- TPH MRO
Landfarm ID	Sample . ID	Location	Sample Date	Depth Benz (ft) (mg/	ene. Toluene kg) (mg/kg)	benzene (mg/kg)	Xylene C10) (mg/kg) (mg/kg)	C22) (C22-C32) (mg/kg) (mg/kg)
		Laborat	tory Analytyical	Method	802	21		8015M

Note** 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.

Note** Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.

Soil Chloride Concentrations BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

	Samplo	Samplo	Sample	Chlorido
ID	ID	Date	(ft)	(ma/ka)
	Laborat	ory Analytic	al Method	300.0
		NMOCD Soil	Standard	500
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	. 45
Cell #1	#1	14-Apr-08	2	110
Cell #1	#1	21-Jul-08	<u>૾ૢ૽૽ૼૼૼ</u>	8.0
Cell #2	#1	7-Jun-06	2.5	20.4*
Cell #2	#1	22 - May-07	3	17.4
Cell #2	#1	16-Aug-07	2.5	5.34
Cell #2	#1	6-Nov-07	2.5	3.3
Cell #2	#1	14-Apr-08	2	2.2
Cell #2	8. #1	21-Jul-08	2	14
Cell #3	#1	7-Jun-06	2.5	26.3*
Cell #3	#1	22-May-07	3 .	57.6
Cell #3	#1	16-Aug-07	2.5	2.86
Cell #3	#1	6-Nov-07	2	7.8
Cell #3	#1	14-Apr-08	2	26
Cell #3	#1	21-Jul-08	2	<u>*</u> 5.5****

Note: * = Concentrations reported are in mg/L NA = Not Analyzed

Animas Environmental Services, LLC 041408 Sampling Event

1 of 1

Summary of Major Cations/Anions

Annual Treatment Zone Monitoring

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm	Sample	Sample	Sample Depth	рН	Spec. Cond.	Sulfate	Flouride	Calcium	Magnesium	Sodium	Potassium
<u> </u>	ID	Date	(ft)		(umhos/cm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Cell #1	#1	6/7/2006	2.5	7.7	42.8	13.2	NA	2,780	1,340	<50	NA
Cell #1	#1	5/22/2007	3	7.37	NA	20.3*	4.26*	8,000	2,820	64	2460
Cell #1	#1	7/21/2008	2	7.67	<u>ૺૡ</u> ૺૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢ	8.8*	ે .≲1.5*ં્	NÀ	NA	NA	ŇA
Cell #2	#1	6/7/2006	2.5	7.7	64.1	9.31	NA	1,950	979	<50	NA
Cell #2	#1	5/22/2007	3	7.59	NA	19.9*	4.94*	6,690	2,230	64	1650
Cell #2	#1	7/21/2008	2	7.97	650	130*	2.4*	NA	NA	NA	S NA ·
Cell #3	#1	6/7/2006	2.5	9.1	54.2	23.5	2.92	2,140	1,110	<50	NA
Cell #3	#1	5/22/2007	3	7.30	NA	45.2*	5.01*	5,570	2,660	70	2620
Cell #3	#1	7/21/2008	<u>2 2</u>	7.53	1,200	2,200*	5*	NA	NA	NA NA	NA NA

Note: * = Concentrations reported are in mg/kg

NA = Not Analyzed

Summary of Metals Annual Treatment Zone Monitoring BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

•					1987 - 1988 - 1988 - 1988 1989 - 1988 - 1988 - 1988 1989 - 1988 - 1988 - 1988						
Landfàrm	Sample	Sample	Sample	Silver	Arsenic	Barium	Cadmium	Chromium	Mercury	Lead	Selenium
ID	ID ···	Date	Depth (ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Cell #1	#1	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #1	#1	5/22/2007	3	<0.50	5.4	169	0.26	33.9	< 0.033	11.90	<4.0
Cell #1	#1	7/21/2008	2	<1.2	્રે <12 🔬	81	<0.50	S. 7.4 ×	<0.033	5:2	<12
Cell #2	#1	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #2	#1	5/22/2007	3	<0.50	5.3	171	0.34	54.5	< 0.033	10.60	<4.0
Cell #2	. #1 、	7/21/2008	2	<1.2	i∕_≶12⊘	. 92	<0.50	9.2	≦<0.033 [™]	7.3	
Cell #3	#1	6/7/2006	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Cell #3	#1	5/22/2007	3	<0.50	4.9	181	0.37	36.9	< 0.033	13.90	<4.0
Cell #3	#1	7/21/2008	2	<1.2	,	`_% .77	/?⇒<0:50(.),	£ 77.2	0.033	<u></u>	<u>∼∛∛<,12</u>

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Note: * = Concentrations reported are in mg/kg

NA = Not Analyzed

Animas Environmental Services, LLC 072108 Sampling Quarterly Sampling Report September 17, 2008



S. \ANIMAS 2000\2008 PROJECTS\BMG\LLAVES EVAPORATION POND\MAPS AND DRAWINGS\FIGURE 3 EVAPORATION POND



water or	ampling	Record			Anim	nas Environme	ntal Services
Monitor W	ell No:	MW-1	-		624 E.	Comanche, Farminato	on NM 87401
					Tel. (50	5) 564-2281 Fax (505) 324-2022
Project:	BMG Land	Farm Sampling	9		Projec	ct No.:	······································
Site:	Evaporatio	n Pond		<u> </u>		Date: 7-21-08	
Location:	Llaves, NN	1			18/-	Time: 1252	
Sampier:	Method:	Ma Purge		 	vve Temper	ather: <u>Partly Llo</u> ature: ASPC	udy
Depth of W	Vell (ft):	LIS 55	<u> </u>	- W	ell Diam	. (in.): 2	
Depth to V	Vater (ft):	38,11		Site	Elevatio	on (ft):	
	Temp	Conductivity	DO	•	ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	pН	(mV)	(gallons)	Notes/Observations
1256	13.16	2.287	5.91	6.61	173,2	0.25	
1259	12.65	2.2.67	5.78	6.61	171.8	· .	
130Z	12.18	2.2.36	4.85	6.57	173.2		
1308			· · · · · · · · · · · · · · · · · · ·				Sandes Coller
							,
				<u> </u>			
ł							
				-		•	
. '							
						-	
Analytical	Parameters	s Sampled For BTEX/GRO/DF Total Metais by	(include Me C by 8021/8 6010 (1) 500	e thod #): 6015 (4) 4 0mL poly	0mL VO	As with HCI and (1) 40 O3)mL VOA unpreserved
		Chlorides and 1		nL polv u	noreserv	ed	
Disposal of	f Purged W	Chlorides and 1	TDS (1) 500n	nL poly u On asph	npreserv alt or co	ed ncrete pavement	
Disposal of Chain of Cu	f Purged W Jstody Red	Chlorides and T /ater: :ord Complete	TDS (1) 500n	nL poly u On asph Yes	npreserv alt or co	ed ncrete pavement	
Disposal of Chain of Cu Analytical I	f Purged W ustody Rec _aboratory	Chlorides and T Vater: cord Complete	rDS (1) 500n ? (Y/N)	nL poly ur On asph Yes Hall Env	npreserv alt or col	ed ncrete pavement tal Analysis Lab. Albud	uerque, NM
Disposal of Chain of Cu Analytical I	f Purged W ustody Rec _aboratory Used Duri	Chlorides and T Vater: cord Complete	TDS (1) 500n ? (Y/N)	nL poly ur On asph Yes Hall Env Keck W≉	npreserv alt or con ironment	ed ncrete pavement tal Analysis Lab, Albud	uerque, NM Aeter:
Disposal of Chain of Cu Analytical I Equipment	f Purged W ustody Red _aboratory Used Duri	Chlorides and T Vater: cord Complete :: ing Sampling:	rDS (1) 500n ? (Y/N)	nL poly u On asph Yes Hall Env Keck Wa	npreserv alt or con ironment ater Leve	ed ncrete pavement tal Analysis Lab, Albud I; YSI Water Qualtity I	uerque, NM //eter;
Disposal of Chain of Cu Analytical I Equipment Other Note	f Purged W ustody Red Laboratory Used Duri s/Commen	Chlorides and T Vater: cord Complete r: ing Sampling: its	rDS (1) 500n ? (Y/N)	nL poly un On asph Yes Hall Env Keck Wa	npreserv alt or con ironment ater Leve	ed ncrete pavement tal Analysis Lab, Albud	uerque, NM Λeter;
Disposal of Chain of Cu Analytical I Equipment Other Note	f Purged W ustody Red Laboratory Used Duri s/Commen	Chlorides and T Vater: cord Complete r: ing Sampling: its	rDS (1) 500n ? (Y/N)	nL poly u On asph Yes Hall Env Keck Wa	npreserv alt or co ironment ater Leve	ed ncrete pavement tal Analysis Lab, Albud	uerque, NM Aeter;
Disposal of Chain of Cu Analytical I Equipment Other Note	f Purged W ustody Rec Laboratory Used Duri s/Commen	Chlorides and T Vater: cord Complete r: ing Sampling: its	rDS (1) 500n ? (Y/N)	nL poly un On asph Yes Hall Env Keck Wa	npreserv alt or col ironment ater Leve	ed ncrete pavement tal Analysis Lab, Albud	juerque, NM Aeter;
Disposal of Chain of Cu Analytical I Equipment Other Notes	f Purged W ustody Rec Laboratory Used Duri s/Commen	Chlorides and T Vater: cord Complete r: ing Sampling: its	rDS (1) 500n ? (Y/N)	nL poly un On asph Yes Hall Env Keck Wa	npreserv alt or co ironment ater Leve	ed ncrete pavement tal Analysis Lab, Albud	juerque, NM Aeter;
Disposal of Chain of Cu Analytical I Equipment Other Note	f Purged M ustody Red Laboratory Used Duri s/Commen	Chlorides and T Vater: cord Complete r: ing Sampling: hts	rDS (1) 500n ? (Y/N)	nL poly un On asph Yes Hall Env Keck Wa	npreserv alt or col ironment ater Leve	ed ncrete pavement tal Analysis Lab, Albud	uerque, NM Aeter;

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Water Sa	ampling	Record			Anim	as Environme	ntal Services
Monitor W	/ell No:	MW-2		`	624 E.	Comanche. Farmingto	n NM 87401
					Tel. (50	5) 564-2281 Fax (505) 324-2022
Project:	BMG Land	Farm Sampling	3	· · · · · ·	Projec	xt No.:	/
Site:	Evaporatio	n Pond		_	•	Date: 7-21-08	
Location:	Llaves, NN	1				Time: 1314	
Sampler:	NW				We	ather: Partly Cla	idy
Sampling	Method:	Purse.		– Air	Temper	ature: 85°F	
Depth of V	Vell (ft):	45,54		- w	ell Diam	. (in.): 2	
Depth to V	Vater (ft):	39.ZI		_ Site	Elevatio	on (ft):	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations
1319	12.23	1.664	2,84	6.72,	155.7	0.25	
1322	12.23	1.636	3.13	6.69	156.7	1	
1325	11.77	1632	3.23	6.69	1584	1	
1320		····					K. N. all 1
1000	,						Hanples collect
				· .			
	·		,				
·							
				· ·			
	•						,
Analytical	Parameter	s Sampled For	(include Me	ethod #):	0ml \/0	As with HCl and (1) A	
;		Total Matala bi	C Dy 002 170	$\frac{10}{10}$			JIL VOA unpreserved
T		Chlorides and	TDS (1) 500r			<u>ed</u>	
)icnool -	f Duracal V	Votori			alt or oo	norete novement	
hain of C	ustody Po	cord Complete	2 (Y/N)	Vee			·
nalution	Laborato-		• (1/14)		ironmon	tal Analysis Lob. Albur	
		/. 					
quipment	usea Dur	ing sampling:	<u> </u>	NECK Wa	HEF LEVE	er, 151 vvater Qualtity I	
N4L NI - 4	-10						
viner Note	s/commer	115		<u>.</u>			
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Water S	ampling	Record			Anim	nas Environme	ntal Services
Monitor V	Vell No:	MW-3	,	۰	624 E.	Comanche, Farmingto	on NM 87401
		-			Tel. (50)5) 564-2281 Fax (505	5) 324-2022
Project:	BMG Land	Farm Sampling	9	_	Projec	t No.:	
Site:	Evaporatio	n Pond		-		Date: 7-21-08	
Location:	Llaves, NM	1		_		Time: 1336	
Sampler:	NW				We	ather: (100)	
Sampling				- Air	lemper	ature: <u>78°1°</u>	
Depth of	Well (II): Water (ft):		59	 	eli Diam Elevatio	. (III.): on (ff):	
	Temp	Conductivity	DO		ORP	PURGED VOLUME	
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations
1340	12.86	1.589	3.22	7.28	175.9	0.25	
1343	\$8 12.56	1.568	3.10	7.04	180.Z	J	
1346	12.44	1.5.67	3.69	6.8Z	184.6	1	
135Z				<u> </u>			Samples Collec
			······				
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	-					·	
					,		
Analytical	Parameter	s Sampled For	(include Me	thod #):		<u> </u>	
		BTEX/GRO/DR	O by 8021/8	015 (4) 4	0mL VO	As with HCI and (1) 40	mL VOA unpreserved
	,	Total Metals by	6010 (1) 500)mL poly	with HN	03	
		Chlorides and 1	DS (1) 500m			ed	
Disposal	f Durand M	lator:			alt or oo	coroto novoment	
Chain of C	ustody Por	ard Complete	2 (V/N)	Voc			
	Laboratory		· (////)	Hall Envi	ironment	al Analysis Lab. Albuc	
Equipmen	t Used Duri	ng Sampling:		Keck Wa	ter Leve	S YSI Water Qualitity	Veter
	Bull			and Nor		able Bailer	
	- 10	4-		and new	Disposa		
Uther Note	s/commen	115			•		
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Water S	ampling l	Record			Anim	nas Environme	ntal Services
Monitor W	/ell No:	MW-4			624 E.	Comanche, Farmingto	n NM 87401
					Tel. (50	5) 564-2281 Fax (505) 324-2022
Project:	BMG Land	Farm Sampling	9	_	Projec	ct No.:	
Site:	Evaporatio			-		Date: $7 - 21 - 0B$	
Sampler:	NW	· · · · · · · · · · · · · · · · · · ·		-	We	ather: 0. the ch	nta
Sampling	Method:	Purac		Air	Temper	ature: 85 ⁴ F	<u> </u>
Depth of V	Vell (ft):	45,60	·	W	ell Diam	. (in.): <u>2</u>	
Depth to V	Vater (ft):	38.91		Site	Elevatio	on (ft):	I
1	Temp	Conductivity	DO		ORP		
Time	(deg C)	(µS) (mS)	(mg/L)	рН	(mV)	(gallons)	Notes/Observations
1229	15.30	9.199	8.25	7.86	123.g	<u></u>	
1232	12.78	2.082	9.23	7.7.6	139.7		
1235	12.38	1.975	8.59	7.26	163.3		
1240							Samples Collecte
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	_						
Analytical	Parameter	s Sampled For	(include Me	thod #):	i		
		BTEX/GRO/DF	RO by 8021/8	015 (4) 4	0mL VO	As with HCI and (1) 40	mL VOA unpreserved
		Total Metals by	6010 (1) 500	mL poly	with HN	03	
		Chlorides and T	FDS (1) 500m	nL poly u	npreserv	red	
Disposal c	of Purged W	/ater:		On asph	alt or co	ncrete pavement	
Chain of C	ustody Red	cord Complete	? (Y/N)	Yes		· · · · · · · · · · · · · · · · · · ·	
Analytical	Laboratory	/:		Hall Env	ironmen	tal Analysis Lab, Albuc	uerque, NM
Equipmen	t Used Duri	ing Sampling:		Keck Wa	ater Leve	el; YSI Water Qualtity N	Meter;
				and New	/ Dispos	able Bailer	
Other Note	es/Commen	nts				1	
1							
		······································	······································	<u> </u>			
	<u></u>				·		
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Monitor Well No: Interstitial Well 624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022 Project: BMG Land Farm Sampling Project No.: Site: Evaporation Pond Date: 7 - 21-06 Sampler: NW Weather: (Jady) Sampler: NW Weather: (Jady) Depth of Well (ft): 9.61 Site Elevation (ft): 7.71-06 Time (deg C) (µS) (mg/L) pH (mV) (gallons) Notes/Obs J15.6 J9.07 35.1.4 0.63 (a32.2 21.0 0.2.5 1 J15.8 J9.07 36.3.8 0.3.5 G.444 213.3 1 1 J2.01 18.6.8 3.62.7 0.2.0 6.51 -24.1 1 1 J2.02 18.6.8 3.62.7 0.2.0 6.51 -24.1 1 1 J2.04 18.6.8 3.62.7 0.2.0 6.51 -24.1 1 1 J2.06 18.6.8 3.62.7 0.2.0 5.6.9 -24.1 1 1	
Tel. (505) 564-2281 Fax (505) 324-2022Project:EWG Land Farm SamplingProject No::Tel. (505) 564-2281 Fax (505) 324-2022Site:Evaporation PondDate: $\neg - 2I - OB$ Sampler:NWWeather: $UargetSampler:NWWeather:UargetSampler:NWWeil Diam. (in.):\cancel{B} - B^{*}Depth of Well (ft):12.10^{\circ}Weil Diam. (in.):\cancel{B} - B^{*}Depth of Well (ft):12.10^{\circ}Weil Diam. (in.):\cancel{B} - B^{*}Time(deg C)(µS) (mS)(mg/L)pH(mV)(gallons)Notes/Obs SS g, qS 2, qS 2, gS $	
Project: BMC Land Farm Sampling Project No.: Site: Evaporation Pond Date: 7 - 21-02 Sampler: NW Weather: Cloady Sampler: NW Weather: Cloady Depth of Well (ft): 12.10° Well Diam. (in.): 3.6° Depth of Well (ft): 12.10° Well Diam. (in.): 3.6° Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Obs JLSS J9,07 351,4 0.63 (d.32, Ziz).0 0.25 1 1 12.01 18.4.8 3.62.7 0.7.0 6.51 -24.1 1 1 12.01 18.4.8 3.62.7 0.7.0 6.51 -24.1 1 1 12.02 18.4.8 3.62.7 0.7.0 6.51 -24.1 1 1 12.04 18.4.8 3.62.7 0.7.0 6.51 -24.1 1 1 12.06 18.4.8 3.62.7 0.7.0 5.6.51 -24.1 1 1 12.06 18.0.8	
Analytical Parameters Sampled For (include Method #): Analytical Parameters Sampled For (include Method #): Batterial Samples (M) Total Method: Depth of Well (ft): 12.10' Weather: 12.00' Weather: 12.00' Weather: 12.00' 12.00' 12.00' 13.82 % 362.73' 0.72 0 0.72 0 12.00' 12.00' 12.00' 12.00' 12.00' 13.00' 14.00' 15.00' 15.00' 15.00'	
Sampler: NV Weather: G_{add} Sampling Method: $P_{af_{adc}}$ Air Temperature: g_{add} Depth of Well (ft): $-1(Z_1O')$ Weil Diam. (in.); g_{add} Depth to Water (ft): $-1(Z_1O')$ Site Elevation (ft): g_{add} Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Obs ISS Jg_{add} $3S_1/4$ $0, 63$ 6_32Z_2 210° 0.25° 0.25° ISS Jg_{add} $3G^2$ 0.25°	· · · · · ·
Sampling Method: Parta Air remperature: 8/2 /r Depth of Well (ft):	
Depth of Water (ft): 1.2.0 Site Elevation (ft): Temp Conductivity DO ORP PURGED VOLUME Time (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Obs JLS5 Jq.O7 35 [.4 Ô.63 G.32. Z1.0 Ô.2.5 1/5.8 Ig.9.5 363.8 O.3.5 G.44 2/3.3 1 12.01 18.68 3.62.7 O.2.0 6.51 -24.1 1 12.02 IS.68 3.62.7 O.2.0 6.51 -24.1 1 12.06 IS.68 3.62.7 O.2.0 5.1 -24.1 1 12.06 IS.68 3.62.7 O.2.0 IS.65 -24.1	
Temp Conductivity DO ORP PURGED VOLUME Imme (deg C) (µS) (mS) (mg/L) pH (mV) (gallons) Notes/Obs IISS Ig.Q7 351.4 Ô.63 (A32.2) 21.0 Ô.2.5 I ISS Ig.Q7 362.8 O.3.5 G.444 Z13.3 I I I2O1 18.6.8 3.62.7 O.7.0 6.51 -26.1 I I I2O1 18.6.8 3.62.7 O.7.0 6.51 -26.1 I I I2O6 Image: Ima	
Time (deg C) (µS) (mg/L) pH (mV) (gallons) Notes/Obs .55 9,07 351,4 0.63 6.32 23.0 0.25 1 1158 18.48 362.7 0.20 6.51 -26.1 1 1 1201 18.48 362.7 0.20 6.51 -26.1 1 1 1206	
IIS5 19,07 351,4 0,63 6,32 22.0 0,25 IIS8 18,85 363.8 0.35 6.44 213.3 1 I201 18,68 3,62.7 0.20 6.51 -24.1 1 I206	ervations
115 8 18	-
12.01 18.6.8 3.62.7 0.2.0 6.51 -26.1 1 12.06	
1Z.06 Samples Analytical Parameters Sampled For (include Method #): Image: Sampled For (include Method #): BTEX/GR0/DR0 by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA un Total Metals by 6010 (1) 500mL poly with HNO3 Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	
Analytical Parameters Sampled For (include Method #): BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA un Total Metals by 6010 (1) 500mL poly with HNO3 Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	Collar
Analytical Parameters Sampled For (include Method #): BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA un Total Metals by 6010 (1) 500mL poly with HNO3 Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	
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Analytical Parameters Sampled For (include Method #): BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA un Total Metals by 6010 (1) 500mL poly with HNO3 Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	
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Analytical Parameters Sampled For (include Method #): BTEX/GRO/DRO by 8021/8015 (4) 40mL VOAs with HCl and (1) 40mL VOA un Total Metals by 6010 (1) 500mL poly with HNO3 Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	
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Total Metals by 6010 (1) 500mL poly with HNO3 Chlorides and TDS (1) 500mL poly unpreserved Disposal of Purged Water: On asphalt or concrete pavement Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	
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Chain of Custody Record Complete? (Y/N) Yes Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	
Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	
Analytical Laboratory: Hall Environmental Analysis Lab, Albuquerque, NM	<u></u>
	, <u>_</u> _
Equipment Used During Sampling: Keck Water Level; YSI Water Qualitity Meter;	
Nther Notes/Comments	
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Ch	ain-of-	Custody Record	Turn-Around	Time:				20 A		A 1			a a <i>e</i> 1		~ R				A . R	
Client:	rimas	Environmental Suc	X Standard	🗆 Rush					n A	al Na	₋∎₋∶ ∆₿₹	er Vc	IV. Ts		or Ar	s pi	rei 7a	TO	al R'	V
			Project Name);				1674.07 9-40			b oli					~				
Address:	624 E	Comanche	BM4	Landfa	x M		49(01 H	awki	www ns N	.nan E -	Albi	ronn	eraue	a.co	/1 87 [.]	109			
Far	MINA	ton 1m 87401	Project #:			1	Те	1. 50	5-34	5-39	75	F	ax 5	505-3	345-4	4107	,			
Phone #:	505-	564-2281		-			5 S S	580			A	naly	sisÌ	Requ	iest					
email or F	ax#: 50	5-324-2022	Project Mana	ger:			<u>}</u>						A							
QA/QC Pa	ckage:			^		021	s or	Die		[ľ	٦ پ	ы В С						
XStanda	ırd	Level 4 (Full Validation)	lanc	1 Upp	<u>ろ</u>	(8) م	ଥି	as/				ļ	<u></u>	2				0	इने,	-
□ Other _			Sampler: N	athan	Willis] ₽	E	B	Ŧ	Ŧ	6	,	°N N	808			ρĮ	S.	57	₹ş
🗆 EDD (1	Гуре)		On Ice	DerYes Arg	in No.		E	015	418	504	826	PA	0°	/ Se		S		7	57	퀴키
		r	Sampleyliem	oerature;;;;;;;;; I			18	b	po	<u>B</u>	P	Jo	6	icide	R)-ic	je s	-15	R.	The second
Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + M	BTEX + M	TPH Meth	TPH (Meth	EDB (Meth	EDC (Meth	8310 (PN/	Anions	8081 Pest	8260B (VC	8270 (Sen	(hlorid	Total N	OH (D	Air Bubble
7/2/08	1056	(ell #1@2)	802	<6°C		X		X					X					<u>'</u>	X	X
	1114	(ell # 2@ 21	403	26°C		X		×		-1			$\overline{\mathbf{x}}$					$\overline{\mathbf{x}}$	x	$\overline{\lambda}$
	1123	Cell #3@2'	2	2		X		×					X					$\overline{\chi}^{\dagger}$	えい	ZT
	1308	MID-1	1x500ml	HNUS		X		\mathbf{x}					~~				X	X		
	1330	m_{12} -2	4×40mL	HCI	·····	V		$\overline{\mathbf{x}}$						-			X	X	-†	+
	1257	mu)-3	TX4DML	200		$\overline{\mathbf{V}}$		X			1						$\overline{\mathbf{x}}$	$\frac{1}{\sqrt{1}}$	+	+1
Fluilos	1202	MAN-18)	>		$\overline{\mathbf{x}}$		$\overline{\mathbf{X}}$									$\overline{\mathbf{x}}$	$\frac{1}{\sqrt{2}}$	-+-	-+-1
)	1290	Tatorstika [10]		L	······································	$\frac{1}{\sqrt{2}}$											\Diamond			-+
7/12/08	1000	Tic Black	2× UDml.	405		$\frac{1}{\sqrt{2}}$		<u> </u>									\rightarrow	\rightarrow	-+-	
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Date:	Time:	Relinquished by:	<u></u>	Received by:	1	Rer	l nark	<u>i</u>	· .	L			L		L] 1	I			
7/21/08	1630	Mathan Willis 10	18 -	L. Luca	$n\Lambda$	15	shi	PP	ed	Vic	a f	Y'e	248	nou	ind	l.				
Date:	Time:	Relinquished by:	<u> </u>	Received by:	y			4 1					5							
7/20108	1030	Frandrea R. Cupp	<u>\</u>	<u> </u>		=	(a)		wl	94	est	io	ns	<u> </u>						

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

ANALYSIS

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COVER LETTER

Wednesday, August 06, 2008

Lany Cupps Animas Environmental Services 624 East Comanche Farmington, NM 87401

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

RE: BMG Landfarm

Dear Lany Cupps:

Order No.: 0807301

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 7/22/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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



4901 Hawkins NE ■ Suite D ■ Albuquergue, NM 87109 505.345.3975 ■ Fax 505.345.4107 www.hallenvironmental.com

Date: 06-Aug-08

CLIENT:Animas Environmental ServicesProject:BMG LandfarmLab Order:0807301

CASE NARRATIVE

The pH of the VOAs for MW-2 was 7.0.

CLIENT:	Animas Environm	ental Services		Client Sa	mple ID:	Cell #	¥1 @ 2'
Lab Order:	0807301.			Tag	Number:		
Project:	BMG Landfarm			Collect	ion Date:	7/21/2	2008 10:56:00 AM
Lab ID:	0807301-01A	Date Received:	7/22/200)8	Matrix:	MEO	H (SOIL)
Analyses		Result	PQL	Qual Units	<u>+</u>	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RAN	GE ORGANICS					Analyst: SCC
Diesel Range O	Irganics (DRO)	2000	100	mg/Kg		10	7/25/2008 9:52:20 AM
Motor Oil Range	e Organics (MRO)	1700	500	. mg/Kg		10	7/25/2008 9:52:20 AM
Surr: DNOP		76.2	61.7-135	%REC		10	7/25/2008 9 [.] 52:20 AM
EPA METHOD	8015B: GASOLINE R	ANGE					Analyst: NSE
Gasoline Range	e Organics (GRO)	5.4	5.0	mg/Kg		1	7/24/2008 1:08:53 AM
Surr: BFB		93.3	84-138	%REC		1	7/24/2008 1.08:53 AM
EPA METHOD	8021B: VOLATILES						Analyst: NSE
Benzene		ND	0.050	mg/Kg		1	7/24/2008 1.08:53 AM
Toluene		ND	0.050	mg/Kg		1	7/24/2008 1:08:53 AM
Ethylbenzene		ND	0.050	mg/Kg		1	7/24/2008 1:08:53 AM
Xylenes, Total		ND	0.10	mg/Kg		1	7/24/2008 1:08:53 AM
Súrr: 4-Bromo	ofluorobenzene	101	81.4-117	%REC		1	7/24/2008 1.08 53 AM

Date: 06-Aug-08

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 1 of 22

CLIENT: Lab Order:	Animas Environme 0807301	ental Services		(Client Samp Tag Nu	ole ID: mber:	Cell #	1 @ 2'
Project:	BMG Landfarm				Collection	Date:	7/21/2	2008 10:56:00 AM
Lab ID:	0807301-01B	Date Received:	7/22/200	8	M	atrix:	SOIL	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD	300.0: ANIONS				ى بېرىكى يېرىپېيى يېرى			Analyst: IC
Fluoride		ND	1.5		mg/Kg		5	7/30/2008 1:46:06 AM
Chloride		8.0	1 <i>.</i> 5 ·		mg/Kg		5	7/30/2008 1:46:06 AM
Sulfate		8.8	7.5		mg/Kg		5	7/30/2008 1:46:06 AM
EPA METHOD	7471: MERCURY							Analyst: SNV
Mercury		ND	0.033		mg/Kg		1	7/31/2008 3:58·12 PM
EPA METHOD	6010B: SOIL METALS	S						Analyst: NMO
Arsenic		ND	12		mg/Kg		5	7/30/2008 8:46:47 AM
Barium		81	0.50		mg/Kg		5	7/30/2008 8:46·47 AM
Cadmium		ND	0.50		mg/Kg		5	7/30/2008 8:46:47 AM
Chromium		7.4	1.5		mg/Kg		5	7/30/2008 8:46:47 AM
Lead		5 2	1.2		mg/Kg		5	7/30/2008 8:46 47 AM
Selenium		ND	12		mg/Kg		5	7/30/2008 8 [.] 46:47 AM
Silver		ND	1.2		mg/Kg		5	7/30/2008 8:46:47 AM
SPECIFIC CON	DUCTANCE							Analyst: TAF
Specific Conduc	ctance	360	1.0		µmhos/cm		1	8/5/2008
SM4500-H+B: F	νH							Analyst: KMS
рН	,	7.67	0.1		pH Units		1	7/25/2008

Date: 06-Aug-08

Qualifiers:

*

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 2 of 22

	······				· ···· ·		
CLIENT:	Animas Environm	ental Services		Client S	ample ID:	Cell #	¥2 @ 2'
Lab Order:	0807301			Tag	Number:		
Project:	BMG Landfarm			Collec	tion Date:	7/21/	2008 11:14:00 AM
Lab ID:	0807301-02A	Date Received:	7/22/20	08	Matrix:	MEO	H (SOIL)
Analyses		Result	PQL	Qual Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RAN	GE ORGANICS				, ,	Analyst: SCC
Diesel Range C	Drganics (DRO)	3000	100	mg/Kg		10	7/25/2008 10:26:26 AM
Motor Oil Rang	e Organics (MRO)	1700	500	mg/Kg		10	7/25/2008 10:26:26 AM
Surr: DNOP		70.1	61.7-135	%REC		10	7/25/2008 10:26:26 AM
EPA METHOD	8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range	e Organics (GRO)	ND ·	50	mg/Kg	,	1	7/24/2008 3:09:19 AM
Surr: BFB		89.4	84-138	%REC		1	7/24/2008 3:09:19 AM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Benzene		ND	0.050	mg/Kg		1	7/24/2008 3:09:19 AM
Toluene		ND	0.050	mg/Kg	•	1	7/24/2008 3:09:19 AM
Ethylbenzene		ND	0.050	mg/Kg		1	7/24/2008 3:09:19 AM
Xylenes, Total		ND	0 10	mg/Kg		1	7/24/2008 3:09:19 AM
Surr: 4-Brom	ofluorobenzene	96.4	81.4-117	%REC		1	7/24/2008 3:09:19 AM

Hall Environmental Analysis Laboratory, Inc.

23

Date: 06-Aug-08

Qualifiers:

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Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 3 of 22

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CLIENT:	Animas Environm	ental Services		C	Client Sample	ID:	Cell #	2@2'
Lab Order:	0807301				Tag Num	ber:		
Project:	BMG Landfarm	,			Collection D	ate:	7/21/2	2008 11:14:00 AM
Lab ID:	0807301-02B	Date Received:	7/22/200)8	Mat	rix:	SOIL	
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD	300.0: ANIONS		المجالة في منه المتقالة					Analyst: IC
Fluoride		24	1.5		mg/Kg		5	7/30/2008 2:38:20 AM
Chloride		14	1.5		mg/Kg		5	7/30/2008 2:38:20 AM
Sulfate		130	7.5		mg/Kg		5	7/30/2008 2:38:20 AM
EPA METHOD 7	471: MERCURY							Analyst: SNV
Mercury		ND	0.033		mg/Kg		1	7/31/2008 4:03:02 PM
EPA METHOD 6	010B: SOIL METAL	S						Analyst: NMO
Arsenic		ND	12		mg/Kg		5	7/30/2008 8:49:15 AM
Barium		92	0.50		mg/Kg		5	7/30/2008 8:49:15 AM
Cadmium		ND	0.50		mg/Kg		5	7/30/2008 8:49:15 AM
Chromium		9.2	1.5		mg/Kg		5	7/30/2008 8:49:15 AM
Lead		7.3	1.2		mg/Kg		5	7/30/2008 8 49:15 AM
Selenium		ND	12		mg/Kg		5	7/30/2008 8:49:15 AM
Silver		ND	1.2		mg/Kg		5	7/30/2008 8:49:15 AM
SPECIFIC CONI	DUCTANCE							Analyst: TAF
Specific Conduct	tance	650	1.0		µmhos/cm		1	8/5/2008
SM4500-H+B: P	н							Analyst: KMS
рH		7.97	0.1		pH Units		1	7/25/2008

Hall	Environmental	l Analvsis	Laboratory.	Inc.
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Qualifiers:

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Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

Spike recovery outside accepted recovery limits

Value above quantitation range

Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

Date: 06-Aug-08

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 4 of 22

CLIENT:	Animas Environme 0807301	ental Services		Clier	it Sample II Fag Number): Cell # r:	#3 @ 2'
Project:	BMG Landfarm			Co	lection Date	e: 7/21/2	2008 11:33:00 AM
Lab ID:	0807301-03A	Date Received:	7/22/20	08	Matrix	K: MEO	H (SOIL)
Analyses		Result	PQL	Qual Ur	its	DF	Date Analyzed
EPA METHOD 801	5B: DIESEL RAN	GE ORGANICS					Analyst: SCC
Diesel Range Organ	nics (DRO)	7100	100	mg	/Kg	10	7/25/2008 11:00:49 AM
Motor Oil Range Or	ganics (MRO)	2400	500	mg	/Kg	10	7/25/2008 11:00:49 AM
Surr: DNOP		128	61.7-135	%F	EC	10	7/25/2008 11.00:49 AM
EPA METHOD 801	5B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Org	ganics (GRO)	88	50	mg	/Kg	10	7/24/2008 3:39:24 AM
Surr: BFB	-	115	84-138	%F	EC	10	7/24/2008 3 [.] 39:24 AM
EPA METHOD 802	1B: VOLATILES						Analyst: NSB
Benzene		• ND	0.50	mg	′Kg	10	7/24/2008 3·39:24 AM
Toluene		ND	0.50	mg	/Kg	10	7/24/2008 3:39:24 AM
Ethylbenzene		ND	0.50	mg	′Kg	10	7/24/2008 3·39:24 AM
Xylenes, Total		ND .	1.0	mg	′Kg	10	7/24/2008 3.39:24 AM
Surr: 4-Bromofluc	robenzene	100	81.4-117	%R	EC	10	7/24/2008 3:39:24 AM

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Hall Environmental Analysis Laboratory, Inc.

Date: 06-Aug-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 5 of 22

CLIENT:	Animas Environme	Animas Environmental Services					Cell #3 @ 2'		
Lab Order:	0807301				Tag Number:	;			
Project:	BMG Landfarm				Collection Date:	7/21/2	2008 11:33:00 AM		
Lab ID:	0807301-03B	Date Received:	7/22/200	8	Matrix	SOIL			
Analyses	•	Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	300.0: ANIONS						Analyst: IC		
Fluoride		ND	1.5		mg/Kg	5	7/30/2008 3:30 [.] 34 AM		
Chloride		55	15		mg/Kg	5	7/30/2008 3:30:34 AM		
Sulfate		2200	75		mg/Kg	50	7/30/2008 1:14:58 PM		
EPA METHOD	7471: MERCURY						Analyst: SNV		
Mercury		0.033	0.033		. mg/Kg	1	7/31/2008 4:04:38 PM .		
EPA METHOD	6010B: SOIL METAL	S					Analyst: NMO		
Arsenic		ND	12		mg/Kg	5	7/30/2008 8:51:42 AM		
Barium		77	0.50		mg/Kg	5	7/30/2008 8:51:42 AM		
Cadmium		ND	0.50		mg/Kg	5	7/30/2008 8:51:42 AM		
Chromium		7.2	1.5		mg/Kg	5	7/30/2008 8:51:42 AM		
Lead		11	1.2		mg/Kg	5	7/30/2008 8:51:42 AM		
Selenium		• ND	12		mg/Kg	5	7/30/2008 8:51:42 AM		
Silver		ND	1.2		mg/Kg	5	7/30/2008 8:51:42 AM		
SPECIFIC CON	DUCTANCE						Analyst: TAF		
Specific Conduc	stance	1200	1.0		µmhos/cm 🚿	1	8/5/2008		
SM4500-H+B: F	νн						Analyst: KMS		
pH 、		7.53	0 1		pH Units	1	7/25/2008		

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Date: 06-Aug-08

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Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		Page 6 of 22

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CLIENT: Lab Order:	Animas Environmo 0807301	ental Services		Client S Ta	Sample ID: g Number:	MW-	1		
Project:	BMG Landfarm			Colle	ction Date:	7/21/2	2008 1:08:00 PM		
Lab ID:	0807301-04A	Date Received:	7/22/200	8	Matrix:		AQUEOUS		
Analyses		Result	PQL	Qual Units	6	DF	Date Analyzed		
EPA METHOD	8015B: DIESEL RAN	GE					Analyst: SCC		
Diesel Range C	Drganics (DRO)	ND	1.0	mg/L		1	7/29/2008 3:24 52 PM		
Motor Oil Rang	e Organics (MRO)	ND	5.0	mg/L		1	7/29/2008 3:24·52 PM		
Surr: DNOP	•	105	58-140	%REC	;	1	7/29/2008 3.24 [.] 52 PM		
EPA METHOD	8015B: GASOLINE R	ANGE					Analyst: NSB		
Gasoline Range	e Organics (GRO)	ND	0.050	mg/L		1	7/28/2008 12:12:43 PM		
Surr: BFB		. 91.1	79.2-121	%REC	;	1	7/28/2008 12:12:43 PM		
EPA METHOD	8021B: VOLATILES						Analyst: NSB		
Benzene		ND	1.0	µg/L		1	7/28/2008 12:12:43 PM		
Toluene		ND	1.0	μg/L		1	7/28/2008 12:12:43 PM		
Ethylbenzene		ND	10	µg/L		1	7/28/2008 12:12:43 PM		
Xylenes, Total	i	ND	<i>,</i> 2.0	µg/L		1	7/28/2008 12:12:43 PM		
1,2,4-Trimethylt	oenzene	ND	1.0	µg/L →		1	7/28/2008 12:12:43 PM		
1,3,5-Trimethyll	oenzene	ND	1.0	µg/L		1	7/28/2008 12:12:43 PM		
Surr: 4-Brom	ofluorobenzene	97.1	68.9-122	%REC	;	1	7/28/2008 12.12:43 PM		

Date: 06-Aug-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 7 of 22

8.

CLIENT: Animas Environment		ental Services		Client Sample ID	: MW-	MW-1		
Lab Order:	0807301			Tag Number	:			
Project:	BMG Landfarm			Collection Date	: 7/21/2	2008 1:08:00 PM		
Lab ID:	0807301-04B	Date Received:	7/22/2008	Matrix	: AQU	EOUS		
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed		
EPA METHOD	300.0: ANIONS		ويهيد اشتقاعات فكمنا ويهيدها			Analyst: SLB		
Chloride		64	10	mg/L	10	7/28/2008 10 59 34 AM		
SM 2540C TOT	AL DISSOLVED SOL	IDS				Analyst: KMS		
Total Dissolved	Solids	830	20	mg/L	1	7/24/2008		

Date: 06-Aug-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 8 of 22

CLIENT:	Animas Environm	ental Services	ental Services			MW-1		
Lab Order:	0807301			Tag	Number:			
Project:	BMG Landfarm			Collect	ion Date:	7/21/2	2008 1:08:00 PM	
Lab ID:	0807301-04C	Date Received:	7/22/2008		Matrix:	AQUI	EOUS	
Analyses		Result	PQL (Qual Units		DF	Date Analyzed	
EPA METHOD	7470: MERCURY				1		Analyst: SNV	
Mercury		ND	0.00020	mg/L		1	7/29/2008 5:03:16 PM	
EPA 6010B: TC	TAL RECOVERABL	E METALS					Analyst: TES	
Arsenic		ND	0.020	mg/L		1	7/28/2008 4:52:48 PM	
Barium		0.17	0.020	mg/L		1	7/28/2008 4:52:48 PM	
Cadmium		ND	0.0020	` mg/L		1	7/28/2008 4:52:48 PM	
Chromium		ND	0.0060	mg/L		1	7/28/2008 4:52:48 PM	
Lead		0.0079	0.0050	mg/L		1	7/28/2008 4:52:48 PM	
Selenium		ND	0.050	mg/L		1	7/28/2008 4:52:48 PM	
Silver		ND	0.0050	mg/L		1	7/28/2008 4:52:48 PM	

Date: 06-Aug-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 9 of 22

CLIENT: Animas Environmental Services			(Client Sample ID: MW-2				
Project:	BMG Landfarm				Collect	ion Date:	7/21/2	2008 1:30:00 PM
Lab ID:	0807301-05A	Date Received:	7/22/20	08	Matrix:		AQUEOUS	
Analyses	,	Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RAN	GE			ويستعمل والمتعالم المتعالم			Analyst: SCC
Diesel Range C	Organics (DRO)	ND	1.0		mg/L		1	7/29/2008 4:00:07 PM
Motor Oil Range	e Organics (MRO)	ND	5 0.		mg/L		1	7/29/2008 4:00.07 PM
Surr: DNOP		104	58-140		%REC		1	7/29/2008 4:00:07 PM
EPA METHOD	8015B: GASOLINE R	ANGE						Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	0.050		mg/L		1	7/28/2008 12:42:51 PM
Surr BFB		89.9	79.2-121		%REC		1	7/28/2008 12:42:51 PM
EPA METHOD	8021B: VOLATILES							Analyst: NSB
Benzene		ND	1.0		µg/L		1	7/28/2008 12:42:51 PM
Toluene		ND	1.0		µg/L		1	7/28/2008 12:42 [.] 51 PM
Ethylbenzene		ND	1.0		µg/L		1	7/28/2008 12:42:51 PM
Xylenes, Total		· ND	2.0		µg/L		1	7/28/2008 12 [.] 42.51 PM
1,2,4-Trimethylt	oenzene	ND	1.0		µg/L		1	7/28/2008 12:42:51 PM
1,3,5-Trimethylt	oenzene	ND	1.0		µ́g/L		1	7/28/2008 12:42:51 PM
Surr: 4-Brom	ofluorobenzene	94.9	68. 9 -122		%REC		1	7/28/2008 12:42:51 PM

Date: 06-Aug-08

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
:	Ε	Value above quantitation range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		Page 10
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10 of 22

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CLIENT: Animas Environment		tal Services	Client Sample			ple ID:	ID: MW-2 er:		
Lab Order:	0807301		Tag Number:						
Project: BMG Landfarm					Collection Date:		7/21/2008 1:30:00 PM		
Lab ID:	0807301-05B	Date Received:	7/22/200	08	N	Aatrix:	AQUI	EOUS	
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed	
EPA METHOD	300.0: ANIONS							Analyst: SLB	
Chloride		40	1.0	•	mg/L		10	7/28/2008 11:16:59 AM	
SM 2540C TOT	AL DISSOLVED SOLID	S						Analyst: KM	
Total Dissolved	Solids	640	40		mg/L		1	7/24/2008	

в Analyte detected in the associated Method Blank

Date: 06-Aug-08

- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level .
 - RL Reporting Limit

Page 11 of 22

Qualifiers:

- Value exceeds Maximum Contaminant Level * Ε Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits S
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|---------------|------------------|----------------|---------|------|------------------|-------|-----------------------------------|
| CLIENT: | Animas Environm | ental Services | | C | lient Sample ID: | MW- | 2 |
| Lab Order: | 0807301 | | | | Tag Number: | | |
| Project: | BMG Landfarm | | | (| Collection Date: | 7/21/ | 2008 1:30:00 PM |
| Lab ID: | 0807301-05C | Date Received: | 7/22/20 | 08 | Matrix: | AQU | EOUS . |
| Analyses | | Result | PQL | Qual | Units | DF | Date Analyzed |
| EPA METHOD | 7470: MERCURY | | | | | | Analyst: SNV |
| Mercury | | ND | 0.00020 | | mg/L | 1 | 7/29/2008 4:39 [.] 46 PM |
| EPA 6010B: TC | OTAL RECOVERABLE | E METALS | | | | | Analyst: TES |
| Arsenic | | ND | 0.020 | | mg/L | 1 | 7/28/2008 4 55:43 PM |
| Barium | | 0.18 | 0.020 | | mg/L | 1 | 7/28/2008 4:55 [.] 43 PM |
| Cadmium | | ND | 0.0020 | | mg/L | 1 | 7/28/2008 4:55.43 PM |
| Chromium | | ND | 0.0060 | | mg/L | 1 | 7/28/2008 4:55:43 PM |
| Lead | | 0.010 | 0.0050 | • | mg/L | 1 | 7/28/2008 4:55.43 PM |
| Selenium | | ND | 0 050 | | mg/L | 1 | 7/28/2008 4:55 [.] 43 PM |
| Silver | | ND | 0.0050 | | mg/L | 1 | 7/28/2008 4:55:43 PM |
| | | | | | | | |

Date: 06-Aug-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 12 of 22

CLIENT: Lab Order:	Animas Environme	ental Services		Client Sar Tag N	nple ID:	MW-	3
Project:	BMG Landform				m Doto	7/01/	000 1.50.00 DM
Froject:	BING Lanularin			Conectio	on Date:	//21/2	2008 1:52:00 PM
Lab ID:	0807301-06A	Date Received:	7/22/2008	\$	Matrix:	AQUI	EOUS
Analyses		Result	PQL	Qual Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RAN	GE		<u> </u>			Analyst: SCC
Diesel Range C	Organics (DRO)	ND	1.0	mg/L		1	7/29/2008 4·35:22 PM
Motor Oil Range	e Organics (MRO)	ND	5.0	mg/L		1	7/29/2008 4:35:22 PM
Surr: DNOP		106	58-140	%REC		1	7/29/2008 4:35:22 PM
EPA METHOD	8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	0.050	mg/L		1	7/28/2008 1:12.53 PM
Surr: BFB		90.3	79.2-121	%REC		1	7/28/2008 1:12:53 PM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Benzene		ND	- 1.0	µg/L		1	7/28/2008 1:12 53 PM
Toluene		ND	1.0	μg/L		1	7/28/2008 1:12:53 PM
Ethylbenzene		ND	1.0	µg/L		1	7/28/2008 1:12:53 PM
Xylenes, Total		ND	2.0	µg/L		1	7/28/2008 1:12.53 PM
1,2,4-Trimethylt	enzene	ND	1.0	µg/L		1	7/28/2008 1:12:53 PM
1,3,5-Trimethylt	benzene	ND	1.0	μg/L		1	7/28/2008 1:12:53 PM
Surr: 4-Brome	ofluorobenzene	95.0	68.9-122	%REC		1	7/28/2008 1:12:53 PM

* Value exceeds Maximum Contaminant Level

Value above quantitation range Е

Analyte detected below quantitation limits J

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits В Analyte detected in the associated Method Blank

Date: 06-Aug-08

Η Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level RL

Reporting Limit

Page 13 of 22

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CLIENT: Animas Environmen		ntal Services	Client Sample ID:			MW-3		
Lab Order:	0807301			Tag	Number:			
Project:	BMG Landfarm			Collec	tion Date:	7/21/	2008 1:52:00 PM	
Lab ID:	0807301-06B	Date Received:	7/22/200)8	Matrix:	AQU	EOUS	
Analyses		Result	PQL	Qual Units		DF	Date Analyzed	
EPA METHOD	300.0; ANIONS				البيري بمتنفقة التربي		Analyst: SLB	
Chloride		38	1.0	mg/L		10	7/28/2008 11:34:23 AM	
SM 2540C TOT	AL DISSOLVED SOLI	DS					Analyst: KMS	
Total Dissolved	Solids	610	40	ma/L		1	7/24/2008	

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Qualifiers:

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Value exceeds Maximum Contaminant Level

Spike recovery outside accepted recovery limits

Analyte detected below quantitation limits

Value above quantitation range

Not Detected at the Reporting Limit

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Date: 06-Aug-08

MCL Maximum Contaminant Level

RL Reporting Limit

В

Page 14 of 22

CLIENT:	Animas Environm	ental Services		Client Sa	mple ID:	MW-	MW-3		
Lab Order:	0807301		Та						
Project:	BMG Landfarm			Collect	ion Date:	7/21/2	2008 1:52:00 PM		
Lab ID:	0807301-06C	Date Received:	7/22/200	8	Matrix:	AQU	EOUS		
Analyses		Result	PQL	Qual Units		DF	Date Analyzed		
EPA METHOD	7470: MERCURY						Analyst: SNV		
Mercury		ND	0.00020	mg/L		1	7/29/2008 4:43.23 PM		
EPA 6010B: TC	OTAL RECOVERABL	E METALS					Analyst: TES		
Arsenic		ND	0.020	mg/L		1	7/28/2008 4:58:36 PM		
Barium		0.22	0.020	mg/L		1	7/28/2008 4:58:36 PM		
Cadmium		ND	0.0020	mg/L		1	7/28/2008 4:58:36 PM		
Chromium		ND	0.0060	, mg/L		1	7/28/2008 4:58:36 PM		
Lead		0.010	0.0050	mg/L		1	7/28/2008 4:58:36 PM		
Selenium		ND	0.050	mg/L		1	7/28/2008 4:58:36 PM		
Silver		ND	0.0050	mg/L		1	7/28/2008 4:58:36 PM		

Date: 06-Aug-08

Qualifiers:

*

Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 15 of 22

CLIENT:	Animas Environm	ental Services		C	Client Sa	mple ID:	MW-	4
Lab Order:	· 0807301				Tag	Number:		
Project:	BMG Landfarm				Collect	ion Date:	7/21/2	2008 12:40:00 PM
Lab ID:	0807301-07A	Date Received:	7/22/200	08		Matrix:	AQU	EOUS
Analyses	·	Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD	8015B: DIESEL RAN	GE						Analyst: SCC
Diesel Range C	Organics (DRO)	ND	1.0		mg/L		1	7/29/2008 5:10:20 PM
Motor Oil Rang	e Organics (MRO)	ND	5.0		mg/L		1	7/29/2008 5:10:20 PM
Surr: DNOP		108	58-140		%REC		1	7/29/2008 5:10:20 PM
1						•		
EPA METHOD	8015B: GASOLINE R	ANGE						Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	0.050		mg/L		1	7/28/2008 1:43:07 PM
Surr. BFB		90.2 ,	79.2-121		%REC		1	7/28/2008 1:43:07 PM
EPA METHOD	8021B: VOLATILES						`	Analyst: NSB
Benzene		ND	1.0		µg/L		1	7/28/2008 1:43:07 PM
Toluene		ND	1.0		µg/L		1	7/28/2008 1:43 [.] 07 PM
Ethylbenzene		ND	1.0		µg/L		1	7/28/2008 1:43:07 PM
Xylenes, Total		ND	2.0		µg/L		1	7/28/2008 1:43:07 PM
1,2,4-Trimethyll	benzene	ND	1.0		µg/L		1	7/28/2008 1.43:07 PM
1,3,5-Trimethyli	benzene	ND	1.0		µg/L	,	1	7/28/2008 1:43:07 PM
Surr: 4-Brom	ofluorobenzene	95.9	68.9-122		%REC	,	1	7/28/2008 1·43.07 PM
1						3		
e a								
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l I								
1								
1								

Date: 06-Aug-08

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

1

*

Ε

J

ND

S

Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
Value above quantitation range	Н	Holding times for preparation or analysis exceeded
Analyte detected below quantitation limits	MCL	Maximum Contaminant Level

RL Reporting Limit

Page 16 of 22

CLIENT:Animas EnvironmentLab Order:0807301Project:BMG LandfarmLab ID:0807301-07B		ental Services	Client Sample ID:				MW-4		
					Tag Number	:			
					Collection Date	: 7/21/2	7/21/2008 12:40:00 PM		
		Date Received:	7/22/2008 Matrix:			: AQU	AQUEOUS		
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	300.0: ANIONS	<u></u>					Analyst: SLE		
Chloride		57	1.0		mg/L	10	7/28/2008 11:51:47 AN		
SM 2540C TOT	AL DISSOLVED SOL	IDS					Analyst: KM		
Total Dissolved	Solids	770 -	100		mg/L	1	7/24/2008		

•

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

Date: 06-Aug-08

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 17 of 22

18 ·

CLIENT: Lab Order:	Animas Environm	ental Services	tal Services Client Sample ID:				4		
Project:	BMG Landfarm			Col	Collection Date:		7/21/2008 12:40:00 PM		
Lab ID:	0807301-07C	Date Received:	7/22/20)8	Matrix:	AQU	AQUEOUS		
Analyses		Result	PQL	Qual Un	its	DF	Date Analyzed		
EPA METHOD	7470: MERCURY			مەجيەتلەت ك_ىرى بەت لەت			Analyst: SNV		
Mercury		ND	0.00020	mg/	Ľ	1	7/29/2008 4:48:55 PM		
EPA 6010B: TC	TAL RECOVERABL	E METALS					Analyst: TES		
Arsenic		ND	0.020	mg/	L	1	7/28/2008 5:01:31 PM		
Barium		0 34	0.020	mg/	L	1	7/28/2008 5:01:31 PM		
Cadmium		ND	0.0020	mg/	L	1	7/28/2008 5:01:31 PM		
Chromium		ND	0.0060	mg/	L	1	7/28/2008 5:01:31 PM		
Lead		0.0078	0.0050	mg/	L	1	7/28/2008 5:01:31 PM		
Selenium		ND	0.050	mg/	L	1	7/28/2008 5:01:31 PM		
Silver		ND	0.0050	mg/	L	1	7/28/2008 5:01:31 PM		

Date: 06-Aug-08

Hall Environmental Analysis Laboratory, Inc.

Qualif	lers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
		Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
1		J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
:		ND	Not Detected at the Reporting Limit	RL	Reporting Limit
		S	Spike recovery outside accepted recovery limits		Page 18 of 22

CLIENT: Lab Order:	Animas Environme	ental Services		Clie	nt Sample ID: Tag Number:	Inters	titial Well	
Project:	BMG Landfarm			Co	lection Date:	7/21/2	2008 12:06:00 PM	
Lab ID:	0807301-08A	Date Received:	7/22/200)8	Matrix:		AQUEOUS	
Analyses		Result	PQL	Qual U	nits	DF	Date Analyzed	
EPA METHOD	8015B: DIESEL RANG	GE		- -			Analyst: SCC	
Diesel Range C	Drganics (DRO)	8.8	3.0	m	g/L	1	7/29/2008 5:45:14 PM	
Motor Oil Rang	e Organics (MRO)	ND	15	m	g/L	1	7/29/2008 5:45:14 PM	
Surr: DNOP		105	58-140	%	REC	1	7/29/2008 5:45:14 PM	
EPA METHOD	8015B: GASOLINE R	ANGE					Analyst: NSB	
Gasoline Range	e Organics (GRO)	1.0	0.25	m	g/L	5	- 7/28/2008 11 12:43 AM	
Surr: BFB		96.7	79.2-121	%	REC	5	7/28/2008 11:12:43 AM	
EPA METHOD	8021B: VOLATILES		۰ _۱ ۰				Analyst: NSB	
Benzene		ND	5.0	μg	/L	5	7/28/2008 11.12 43 AM	
Toluene		12	5.0	μg	/L ·	5	7/28/2008 11:12:43 AM	
Ethylbenzene		ND	5.0	μg	/L	5	7/28/2008 11:12:43 AM	
Xylenes, Total		ND	10	μg	/L	5	7/28/2008 11:12:43 AM	
1,2,4-Trimethylt	penzene	7.4	5.0	μg	/L	5	7/28/2008 11 12 43 AM	
1,3,5-Trimethylt	penzene	ND	5.0	μg	/L	5	7/28/2008 11:12:43 AM	
Surr: 4-Brom	ofluorobenzene	100	68.9-122	· %I	REC	5	7/28/2008 11:12:43 AM	

Date: 06-Aug-08

Qualifiers:

- Value exceeds Maximum Contaminant Level
 E Value above quantitation range
- E Value above quantitation rangeJ 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 19 of 22

CLIENT:	Animas Environm	nental Services		Client Sample	(D: Interst	titial Well
Lab Order:	0807301			Tag Numb	er:	
Project:	BMG Landfarm			Collection Da	te: 7/21/2	008 12:06:00 PM
Lab ID:	0807301-08B	Date Received:	7/22/2008	8 Matr	ix: AQUE	EOUS
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	300.0: ANIONS					Analyst: SLB
Chloride		120000	500	mg/L	5000	7/28/2008 1:18:50 PM
SM 2540C TOT	AL DISSOLVED SO	LIDS				Analyst: KMS
Total Dissolved	l Solids	210000	40	mg/L	1	7/24/2008

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- 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

Date: 06-Aug-08

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 20 of 22

CLIENT:	Animas Environm	ental Services		Client S	ample ID:	Interstitial Well						
Lab Order:	0807301			Tag	Number:							
Project:	BMG Landfarm			Collec	tion Date:	7/21/2	2008 12:06:00 PM					
Lab ID: 0807301-08C		Date Received: 7/22/2008		8	Matrix:		EOUS					
Analyses	······································	Result	PQL	Qual Units		DF	Date Analyzed					
EPA METHOD	7470: MERCURY						Analyst: SN					
Mercury		ND	0.00080	mg/L		1	7/29/2008 4:50:45 PM					
EPA 6010B: TC	OTAL RECOVERABL	E METALS					Analyst: TES					
Arsenic	,	, ND	1.0	mg/L		50	7/28/2008 5:34:54 PM					
Barium		240	10	mg/L		500	7/29/2008 11:51:50 AM					
Cadmium		0.88	0.10	mg/L		50	7/28/2008 5:34:54 PM					
Chromium		ND	0 30	mg/L		50	7/28/2008 5:34·54 PM					
Lead		0.35	0.25	mg/L		50	7/28/2008 5:34:54 PM					
Selenium		ND	2.5	mg/L		50	7/28/2008 5:34:54 PM					
Silver		· ND	0.25	mg/L		50	7/28/2008 5:34:54 PM					

Date: 06-Aug-08

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 21 of 22

Hall Envi	ronmental Ana	Date:	06-A	ug-08				
CLIENT:	Animas Environm	ental Services		(Client Sa	ample ID:	Trip	Blank
Lab Order:	0807301				Tag	Number:	•	
Project:	BMG Landfarm				Collect	tion Date:		
Lab ID:	0807301-09A	Date Received:	7/22/200	08		Matrix:	TRIP	BLANK
Analyses		Result	PQL	Qual	Units		DF	Date Analyzed
EPA METHOD	8015B: GASOLINE R	ANGE						Analyst: NSB
Gasoline Range	e Organics (GRO)	ND	0.050		mg/L		1	7/28/2008 2:13:09 PM
Surr: BFB		91.6	79.2-121		%REC		3	7/28/2008 £.19.88 FM
EPA METHOD	BORTB: VOLATILES							Analyst: NSB
Benzene		NŌ	1.0		19/L		1	7/28/2008 2 13 99 PM
Toluene		ND	1.0	,	µg/L		1	7/28/2008 2:13:09 PM
Ethylbenzene		ND	1.0		µg/L		1	7/28/2008 2 13:09 PM
Xylenes, Total		ND	2.0		µg/L		1	7/28/2008 2:13 [.] 09 PM
1,2,4-Trimethylt	penzene	ND	1.0		µg/L		1	7/28/2008 2:13:09 PM
1,3,5-Trimethylt	penzene	ND	1.0		μg/L		1	7/28/2008 2:13:09 PM
Surr: 4-Brom	ofluorobenzene	97.4	68.9-122		%REC		1	7/28/2008 2.13:09 PM

Zumuneran	÷ E	Yaur chech Matimum Emilaminant Level Yaur abuve quantination range		II H	Analytic detected in the managinest interings group Holding times for preparation or analysis exceeded
	1	Analyte detected below quantitation limits		MCL	Maximum Contaminant Level
£	ND	Not Detected at the Reporting Limit	•	RL	Reporting Limit
I	S	Spike recovery outside accepted recovery limits		·	rage 22 of 22

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: BMG Landfarm

Project: BMG Land	ârm						Wo	rk Order: 0807301
Analýte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD F	RPDLimit Qual
Method: EPA Method 300.0: A	nions							
Sample ID: 0807301-01BMSD		MSD			Batch	ID. 16611	Analysis Date	: 7/30/2008 2:20.56 AM
Fluoride	1.695	mg/Kg	1.5	49.0	80	120	14.2	20 S
Chloride	21.24	mg/Kg	1.5	88.6	70.7	122	1.33	20
Suitate	36.40	mg/Kg	7.5	92.1	70	130	0 786	20
Sample ID: MB-16611		MBLK			Batch	ID: 16611	Analysis Date	7/29/2008 5:03:49 PM
Fluoride	ND	mg/Kg	0.30					
Chloride	ND	mg/Kg	0.30					
Sulfate	ND	mg/Kg	1.5					
Sample ID: LCS-16611		LCS			Batch	D: 16611	Analysis Date:	7/29/2008 5.21:14 PM
Fluoride	1 515	mg/Kg	0.30	101	90	110		
Chloride	14.11	mg/Kg	0.30	94.0	90	110		
Sulfate	29.20	mg/Kg	1.5	97.3	90	110		
Sample ID: 0807301-01BMS	,	MS			Batch	D: 16611	Analysis Date:	7/30/2008 2.03.31 AM
Fluoride	ND	mg/Kg	1.5	34.0	80	120		S
Chloride	21.52	mg/Kg	1.5	90.5	70.7	122		
Sulfate	36.12	mg/Kg	7.5	91.2	70	130		·
Method: EPA Method 300.0: Ar	nions							
Sample ID: ,MB		MBLK			Batch I	D: R29511	Analysis Date:	7/25/2008 10 36:39 AM
Chloride	ND	mg/L	0.10					
Sample ID: MB		MBLK			Batch I	D: R29535	Analysis Date:	7/28/2008 9.49:56 AM
Chloride	ND	ma/L	0 10					
Sample ID: LCS		LCS			Batch I	D: R29511	Analysis Date:	7/25/2008 10:54:03 AM
Chloride	4.970	ma/L	0.10	99.4	90	110		
Sample ID: LCS		LCS			Batch I	D: R29535	Analvsis Date:	7/28/2008 10:07·21 AM
Chloride	4.603	mg/L	0.10	92 1	90	110		
Mothod: EPA Mothod 9015B: D	iocol Pango	Organice	· · · · · ·			<u></u>	<u> </u>	
Sample ID: MR-16562	iesei nange	MBLK			Batch I	D [.] 16562	Analysis Date:	7/24/2008 11:25:41 AM
	ND		10		Baton		, analysis bate.	//L //L000 / / .L0. / / /
Meter Oil Basics Organics (MDO)		mg/Kg	10					
	ND		50		Datah li		Analysia Data	, 104/0000 40.00.02 DM
Sample ID: LCS-16562		LUS			Datch a	D. 10002	Analysis Date.	772472006 TZ.00 03 PW
Diesel Range Organics (DRO)	39.81	mg/Kg	10	79.6	64.6	116		
Sample ID: LCSD-16562		LCSD			Batch I	D: 16562	Analysis Date:	7/24/2008 12:34:27 PM
Diesel Range Organics (DRO)	41.94	mg/Kg	10	83 9	64.6	116	5.22	17.4

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client:Animas Environmental ServicesProject:BMG Landfarm

Project: BMG Landfa	arm					Work	Order: 0807301
Analyte	Result	Units	PQL	%Rec	LowLimit HighLimit	%RPD RPI	DLimit Qual
Method: EPA Method 8015B: D	iesel Range)					<u> </u>
Sample ID: MB-16591		MBLK			Batch ID: 1659	Analysis Date:	7/29/2008 1:40.15 PM
Diesel Range Organics (DRO)	ND	mg/L	1.0				
Motor Oil Range Organics (MRO)	ND	mg/L	5.0				
Sample ID: LCS-16591		LCS			Batch ID: 1659	1 Analysis Date	7/29/2008 2:14·53 PM
Diesel Range Organics (DRO)	6.401	mg/L	1.0	128	74 157		
Sample ID: LCSD-16591		LCSD			Batch ID: 1659	1 Analysis Date:	7/29/2008 2:49.53 PM
Diesel Range Organics (DRO)	6.595	mg/L	10	132	74 157	2.98 23	3
Method: EPA Method 8015B: G	asoline Rar	ige					
Sample ID: MB-16511		MBLK			Batch ID: 1651	1 Analysis Date:	7/23/2008 8:08:31 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0				
Sample ID: 5ML RB		MBLK			Batch ID: R2950	8 Analysis Date:	7/28/2008 8:39:23 AM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0				
Sample ID: LCS-16511		LCS		•	Batch ID. 1651	1 Analysis Date:	7/23/2008 7.08:21 PM
Gasoline Range Organics (GRO)	26 44	mg/Kg	5.0	94.7	69.5 120		
Sample ID: 2.5UG GRO LCS		LCS			Batch ID: R2950	8 Analysis Date:	7/28/2008 9:14:52 PM
Gasoline Range Organics (GRO)	28.75	mg/Kg	50	115	69.5 120		
Method: ÉPA Method 8015B: G	asoline Ran	ge					
Sample ID: 0807301-05A MSD		MSD			Batch ID: R2950	8 Analysis Date:	7/28/2008 8·44:48 PM
Gasoline Range Organics (GRO)	0.4806	mg/L	0.050	96 1	80 115	3 03 8.3	9
Sample ID: 5ML RB		MBLK		i.	Batch ID: R2950	8 Analysis Date	7/28/2008 8·39:23 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050				
Sample ID: 2.5UG GRO LCS		LCS			Batch ID. R2950	8 Analysis Date:	7/28/2008 9:14:52 PM
Gasoline Range Organics (GRO)	0 5750	mg/L	0.050	115	80 115		
Sample ID: 0807301-05A MS		MS			Batch ID. R2950	8 Analysis Date.	7/28/2008 8:14:27 PM
Gasoline Range Organics (GRO)	0.4954	mg/L	0.050	99.1	80 115		

Qualifiers:

E Value above quantitation range

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

QA/QC SUMMARY REPORT

Client: A	nimas Environmental	Services						
Project: Bl	MG Landfarm		-				Work	Order: 0807301
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RP	DLimit Qual
Method: EPA Metho	od 8021B: Volatiles							
Sample ID: MB-16534	ļ	MBLK			Batch II	D. 16534	Analysis Date:	7/24/2008 2:39:05 AM
Benzene	ND	mg/Kg	0.050					
Toluene	ND	mg/Kg	0.050					
Ethylbenzene	ND	mg/Kg	0.050					
Xylenes, Total	ND	mg/Kg	0 10					
Sample ID: 5ML RB		MBLK			Batch IC	D. R29508	Analysis Date:	7/28/2008 8:39:23 AM
Benzene	ND	mg/Kg	0.050					
Toluene	ND	mg/Kg	0.050					
Ethylbenzene	ND	mg/Kg	0.050					
Xylenes, Total	ND	mg/Kg	0.10				,	
Sample ID: LCS-1653	4	LCS			Batch ID) [.] 16534	Analysis Date:	7/24/2008 5:39:12 AM
Benzene	0.2698	mg/Kg	0.050	96.4	78.8	132		
Toluene	1.893	mg/Kg	0.050	94.6	78.9	112		
Ethylbenzene	0.3822	mg/Kg	0.050	95.6	693.	125		
Xylenes, Total	2.259	mg/Kg	0.10	98.2	73	128		
Sample ID: 100NG BT	EXLCS	LCS			Batch ID	: R29508	Analysis Date:	7/28/2008 7:14:14 PM
Benzene	1.054	mg/Kg	0.050	105	78.8	132		
Toluene	1.064	mg/Kg	0.050	106	78 9	112		
Ethylbenzene	1.075	mg/Kg	0.050	107	69.3	125		
Xylenes, Total	3.197	mg/Kg	0.10	107	73	128		

Qualifiers:

E Value above quantitation range

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 4

Work Order:

QA/QC SUMMARY REPORT

Client:	Animas Environmenta	Services
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BMG Landfarm

Project:

Project: BMG Land	dfarm							Work O	rder:	0807301
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLi	mit Q	ual
Method: EPA Method 8021B:	Volatiles				Deteb		A		2/00/000	0.0.44.07.01
Sample ID: 0807301-04A MSD		MSD			Batch	ID: R29508	Analysis t	Jate. /	/28/200	8 6:44 07 PN
Benzene	20 92	µg/L	1.0	105	85.9	113	0 211	27		
Toluene	21.07	µg/L	1.0	105	86.4	113	0.399	19		
Ethylbenzene	21.30	µg/L	1.0	107	83.5	118	0.537	10		
Xylenes, Total	62.57	µg/L	2.0	104	83.4	122	1 20	13		
1,2,4-Trimethylbenzene	19.94	µg/L	1.0	99.7	83.5	115	1.72	21		
1,3,5-Trimethylbenzene	20.05	µg/L	1.0	100	85.2	113	0.140	10		
Sample ID: 5ML RB		MBLK			Batch	ID: R29508	Analysis I	Date: 7	/28/200	8 8:39:23 AN
Benzene	ND	µg/L	1.0							
Toluene	ND	µg/L	1.0							
Ethylbenzene	NĎ	µg/L	1.0							
Xylenes, Total	ND	µg/L	2.0							
1,2,4-Trimethylbenzene	ND	µg/L	1.0							
1,3,5-Trimethylbenzene	ND	µg/L	1.0							
Sample ID: 100NG BTEX LCS		LCS			Batch	ID: R29508	Analysis E)ate [.] 7	/28/200	8 7:14:14 PN
Benzene	21.08	µg/L	1.0	105	85.9	113				
Toluene	21.28	µg/L	1.0	106	86.4	113				
Ethylbenzene	21.50	µg/L	1.0	107	83.5	118				
Xylenes, Total	63.94	µg/L	2 0	107	83.4	122				
1,2,4-Trimethylbenzene	21.32	µg/L _	1.0	107	83.5	115				
1,3,5-Trimethylbenzene	20.22	µg/L	1.0	101	85.2	113				
Sample ID: 0807301-04A MS		MS			Batch I	D: R29508	Analysis E)ate: 7	/28/2008	8 6:14:03 PM
Benzene	20.87	µg/L	1.0	104	85 9	113				
Toluene	20.99	µg/L	1.0	105	86 4	113				
Ethylbenzene	21.19	µg/L	1.0	106	83.5	118				
Xylenes, Total	63.33	µg/L	2.0	106	83.4	122				
1,2,4-Trimethylbenzene	20.28	µg/Ľ	1.0	101	83.5	115				
1,3,5-Trimethylbenzene	20.08	µg/L	1.0	100	85.2	113				
Method: EPA Method 7471: M	lercury									
Sample ID: MBLK-16638		MBLK			Batch I	D: 16638	Analysis D	ate: 7	/31/2008	3:50:11 PM
Mercury	ND	mg/Kg	0.033							
Sample ID: LCS1-16638		LCS			Batch I	D: 16638	Analysis D	ate: 7.	/31/2008	3:51:44 PM
Mercury	0.1677	mg/Kg	0.033	101	80	. 120				
Mothod: EDA Mothod 7470: M	orcup									
Sample ID: MBLK-16607		MBLK			Batch I	D: 16607	Analysis D	ate: 7	/29/2008	4:10:35 PM
Mercupy	ND	mall	0 00020							
Sample ID: MBI K-16607	ne -	MBI K	0.00020		Batch I	D 16607	Analysis D	ate 7	/29/2008	4-10 35 PM
Sample ID. INDERCIOUV			0.00000		Daton		7 maryolo D	u.c. //	20/2000	
Mercury	UИ	mg/L	0.00020			D. 4444	A		100 1000	4 40 05 51-
Sample ID: LCS1-16607		LCS			Batch li	D: 16607	Analysis D	ate: 7/	/29/2008	4:12:25 PM
Mercury	0.004630	mg/L	0.00020	92.6	80	120				
Sample ID: LCS1-16607		LCS			Batch II	D: 16607	Analysis D	ate: 7/	/29/2008	4:12:25 PM
Mercury	0.004630	mg/L	0.00020	92.6	80	120				
			<u></u>							

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits ;

QA/QC SUMMARY REPORT

Client:	Animas Environmenta	l Services					,	
Project:	BING Landiarm						Wor	k Order: 0807301
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD R	PDLimit Qual
Method: EPA Met	thod 6010B: Soil Metals							
Sample ID: MB-166	500	MBLK			Batch I	D: 1660	0 Analysis Date:	7/30/2008 7:28:25 AM
Arsenic	ND	mg/Kg	2.5					
Barium	ND	mg/Kg	0.10					
Cadmium	· ND	mg/Kg	0.10			,		
Chromium	ND	mg/Kg	0.30					
Lead	ND	mg/Kg	0.25					
Selenium	ND	mg/Kg	2.5					
Silver	ND	mg/Kg	0 25					
Sample ID: LCS-16	600	LCS			Batch I	D: 1660	0 Analysis Date:	7/30/2008 7:32:33 AM
Arsenic	25.66	ma/Ka	2.5	103	80	120		
Barium	25.22	mg/Kg	0.10	101	80	120		
Cadmium	25.54	mg/Kg	0.10	102	80	120		
Chromium	25.80	mg/Kg	0.30	103	80	120		
Lead	25.72	mg/Kg	0.25	103	80	120		
Selenium	25.86	mg/Kg	2.5	103	80	120		
Silver	25.07	mg/Kg	0.25	100	80	120		
Blethad EDA 604	0R: Total Bacoverable M	lotalo				4		
Sample ID: MR 165	UB: I DIAI RECOVERADIE W	MRIK			Batch II	D· 16581	Analysis Date	7/28/2008 3·47·42 PM
Sample ID. MID-100		WIDER "			Daton n	D. 1000	Ninarysis Date.	1720/2000 0.47 .42 T M
Arsenic	· ND	mg/L	0.020					
Barium	ND	mg/L	0.010					
Cadmium	ND	mg/L	0 0020					
Chromium	ND	mg/L	0.0060					
Lead	ND	mg/L	0.0050					
Selenium	ND	mg/L	0.050					
Silver	NU	mg/L	0.0050		Detab II		Analysia Data	7/20/2000 2.50.45 DM
Sample ID: LCS-16	581	LCS			Batch II	D: 16581	Analysis Date.	//20/2006 3.50.45 PW
Arsenic	0.5096	mg/L	0.020	102	80	120		
Barium	0.4878	mg/L	0.010	97.6	80	120		
Cadmium	0.5035	mg/L	0.0020	101	80	120		
Chromium	0 5021	mg/L	0.0060	100	80	120	、	
Lead	0.4886	mg/L	0.0050	97.7	80	120		
Selenium	0.4864	mg/L	0.050	97.3	80	120		
Silver	0.5096	mg/L	0.0050	101	80	120		
Method: SM 2540	C Total Dissolved Solids	;				_		
Sample ID: MB-165	67	MBLK			Batch II	D: 16567	' Analysis Date:	7/24/2008
Total Dissolved Solid	s ND	mg/L	20					
Sample ID: LCS-16	567	LCS			Batch II	D: 16567	Analysis Date:	7/24/2008
Total Dissolved Solids	s 1025	mg/L	20	102	80	120		

Qualifiers:

E Value above quantitation range

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 5

	Sample	Rec	eipt Ch	necklist				
Client Name ANIMAS ENVIRONMENTAL	•			Date Received	ł:		7/22/2008	
Work Order Number 0807301	\bigcap			Received by	AT		(N O	
Checklist completed by:	The		7/ Date	Sample ID la	bels checked l	by:	Initials	
Matrix:	Carrier name	<u>Grey</u>	/hound					
Shipping container/cooler in good condition?		Yes		No 🗌	Not Present			
Custody seals intact on shipping container/cool	ler?	Yes		No 🗌	Not Present		Not Shipped	
Custody seals intact on sample bottles?		Yes		No 🗌	N/A	✓		
Chain of custody present?		Yes		No 🗌				
Chain of custody signed when relinquished and	I received?	Yes		No 🗌				
Chain of custody agrees with sample labels?		Yes		No 🗀				
Samples in proper container/bottle?		Yes		No 🗌				
Sample containers intact?		Yes		No 🗔				
Sufficient sample volume for indicated test?		Yes		No 🗌				
All samples received within holding time?		Yes		No 🗌				
Water - VOA vials have zero headspace?	No VOA vials subm	nitted		Yes 🗹	No 🗌			
Water - Preservation labels on bottle and cap n	natch?	Yes		No 🗌	N/A 🗌			
Water - pH acceptable upon receipt?		Yes	\checkmark	No 🗔	N/A 🗌			
Container/Temp Blank temperature?		;	5°	<6° C Acceptable	9			
COMMENTS:				If given sufficient i	time to cool.			
Client contacted	Date contacted:			Perso	n contacted			
Contacted by:	Regarding:				······	١		
Comments								
					,			
Corrective Action						• • • •		
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Chain-of-Custody Record			Turn-Around Time:									= Ni	VI	r D		чм	a es a		A 1	
Client:	vimas	Environmental SUC	Standard	🗆 Rush_					A	NA	NL 1	/S]	(S			O	RA	TO	R	ſ
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Lar	MINA	ton nm 8741	Project #:					1 50	5-34	5-39	75	Fa	x 5	05-3	345-4	4107	,			
Phone #:	505-	51-4-2-281	1					Analysis Request												
email or Fax#: $505 \cdot 324 \cdot 202 \rightarrow$ Project Manager:					<u></u>					G	A	T			2					
QA/QC Pa	ckage:			0		021	s on	Dies	ļ			R		B'S			1	\Box		
Standa	urd	Level 4 (Full Validation)	Lane	1 Cupp	25	<u>ع</u> (8	(Ga	as/		·			2	2 2		•	A.		र्यो	-
Other_			Sampler: N	athan	Willis	₽	H	B	⊊	,	୍ଚ	ç	2 N	3082		1	β		57	H =
🗆 EDD (1	Гуре)		On Ice. 🔌	🕱 Yes 🗠	El Not		+	015	418.	504	826	₹ S	ő	3/S	Ì	(A)		¥-	57	키리
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			Container	Preservative		¥ ∔	¥	leth	Meth	Meth	Meth	Ž	Ð	est	ž	Sen	12			pple
Date	Time	Sample Request ID	Type and #	Туре	HEAL NO.	Ц	Щ	Ξ	Ĕ	B	ö	°	ğ	81	60B	70 (14	fa-	Ŧ	Bu
				1.97	0807301	В	Ш	Ë	<u><u> </u></u>	븨	쁴	8	<u>۲</u>	<u>@</u>	8	8	늬	月.	ġ.	<u>7</u>
7/21/08	1056	(ell #1@2'	axiomL_	ment	-1	Х		Σ)	$\langle $			\square	`	<u>XI)</u>	<u> </u>	X
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	1133	(el #3@2'	1	2	- 3	X		\times					X		_		Ţ	\overline{X}	へ下	\mathcal{A}
	1308	MW-1	1×500ml 1×500ml	HN03 <6°C	-4	\times		X									X	X		
	1330	mw-2	4×40mL	HCI	-2	X		$\boldsymbol{\lambda}$			Ţ					T	X	X	Т	
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

~ . •



Animas Environmental Services, LLC

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

Prepared for: Brad Jones New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Brandon Powell New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

> SITE INVESTIGATION REPORT Homestead Ranch #2 Well Location

Benson Montin Greer SW¹/4 SW¹/4 of Section 34, T25N, R2W Rio Arriba County, New Mexico

July 11, 2008

Prepared on behalf of: Benson-Montin-Greer Drilling Corporation 4900 College Blvd. Farmington, New Mexico 87402

Prepared by: Animas Environmental Services, LLC 624 E. Comanche Farmington, New Mexico 87401



1.0	Int	troduction	1
2.0	Sit	te Information	1
2. 2.	.1 .2	Site Location Spill History	1 1
3.0	Ge	eology and Hydrogeology	1
3. 3.	.1 .2	Geology Hydrogeology	1 2
4.0	Sit	te Investigation – April 2008	2
4. 4.	.1 .2	Utilities Notification	2 2
4. 4.	.3 .4	Health and Safety Plan Installation and Sampling of Soil Borings	2 3
	4.4.1 4.4.2	Drilling Methods	3 3
	4.4.3 4.4.4	Field Screening Laboratory Analyses - Soil	3 3
5.0	Re	esults	4
5.	.1 5.1.1 5.1.2 5.1.3	Soil Lithology Field Results Analytical Results	1 4 4 4
6.0	Co	onclusion and Recommendations	5
7.0	Ce	ertification	6
8.0	Re	ferences	7

Contents

Tables

Table 1. Soil Analytical Data, April 2008

Figures

Figure 1. Topographic Site Location Map

- Site Plan with Soil Sample Locations and Analytical Results Geological Cross Sections and Soil Field Screening Results Figure 2.
- Figure 3.

Appendices

Appendix A.	Soil Boring Logs
Appendix B.	Analytical Reports

1.0 Introduction

Animas Environmental Services, LLC (AES), on behalf of Benson Montin Greer Drilling Corporation (BMG), has prepared this Site Investigation Report for BMG's Homestead Ranch #2 well location located within the SW¼, SW¼ of Section 34, T25N, R2W, Rio Arriba County, New Mexico. A topographic location map is included as Figure 1. On January 8, 2008, BMG personnel discovered that a valve failure on a 400 barrel (bbl) condensate tank, identified as Tank #2 on the site plan included as Figure 2, had leaked approximately 40 bbls into the earthen secondary containment area. The spill was reported to Mr. Brandon Powell of the New Mexico Oil Conservation Division (NMOCD) on February 25, 2008.

2.0 Site Information

2.1 Site Location

The BMG Homestead Ranch #2 well location is located in the SW¼, SW¼ of Section 34, T25N, R2W, Rio Arriba County, New Mexico, and is part of the Gavilan gathering area. A topographical location map is included as Figure 1, and a site plan including the spill investigation area is presented as Figure 2.

2.2 Spill History

On January 8, 2008, BMG personnel discovered that a valve failure on a 400 barrel (bbl) condensate tank, identified as Tank #2 on the site plan included as Figure 2, had leaked approximately 40 bbls into the earthen secondary containment area. The spill was reported to Mr. Brandon Powell, NMOCD, on February 25, 2008. BMG's Killer B Roust-a-Bout crew excavated approximately three cubic yards of contaminated soil and transferred it to the BMG Centralized Surface Waste Management Facility for disposal. No free liquids were recovered from the secondary containment area.

3.0 Geology and Hydrogeology

3.1 Geology

Rio Arriba County, New Mexico, is located along the southeastern margin of the San Juan Basin portion of the Colorado Plateau physiographic province. The San Juan Basin is a large structural depression encompassing approximately 22,000 square miles and contains deep Tertiary fill resting on rocks of Late Cretaceous age. The lithography consists primarily of the Mesa Verde Formation, composed primarily of sandstones. The topography is broad and mostly flat, surrounded by mountains and deep canyons. Major rivers carved deep canyons and mesas, and physical erosion from wind and water chipped and polished the exposed rocks in the canyons.

The regional geology is predominately Late Cretaceous coastal plains and shoreline and marine units that were deposited along the western margin of the interior seaway. The shallow inland sea transgressed and regressed over a period of 250 million years, depositing the Dakota Sandstone and Mancos Shale units. The Dakota Sandstone records the

Benson Montin Greer Drilling Corporation Homestead Ranch #2 Well Location Site Investigation Report July 11, 2008 Page 1 alternating rise (shale) and fall (sandstones) of sea level as the shoreline moved back and forth across the area about 98 to 100 million years ago. The long-term rise in sea level deposited rocks of the Mancos Group, which from oldest to youngest, include the Graneros Shale, Greenhorn Limestone, and Carlile Shale. Gradually the sea level dropped again, and the shoreline retreated to the northeast, as deposition of the Mesaverde Group began. The Mesaverde Group consists of alternating sandstones, siltstones, and coal deposited by rivers flowing into the shallow sea.

3.2 Hydrogeology

Locally, shallow groundwater is encountered within the valleys and canyons at depths less than 100 feet and is typically associated with arroyos, which can be incised as much as 20 feet below the valley floor. Depth to groundwater is estimated to range between 60 feet and 80 feet below the ground surface (bgs) in the area where the spill occurred.

4.0 Site Investigation – April 2008

On April 24, 2008, site investigation activities were performed in order to delineate the full extent of petroleum hydrocarbon impact on surface and subsurface soils resulting from the spill. The investigation procedures included the installation of five soil borings in and around the spill area from which soil samples were collected. Work was completed in accordance with U.S. Environmental Protection Agency (USEPA) Environmental Response Team's Standard Operating Procedures (SOPs) and applicable American Society of Testing and Materials (ASTM) standards

4.1 Utilities Notification

AES utilized the New Mexico One-Call system to identify and mark all underground utilities at the site before initiating drilling activities.

4.2 Notification

AES notified Mike Dimond of BMG and Brandon Powell of NMOCD via letter before starting field activities.

4.3 Health and Safety Plan

Prior to the start of the site investigation activities, AES prepared and implemented a comprehensive site-specific Health and Safety Plan (HASP) addressing the site investigation activities and associated soil and groundwater sampling. All employees and subcontractors were required to read and sign the HASP to acknowledge their understanding of the information contained within the HASP. The HASP was implemented and enforced on site by the assigned Site Safety and Health Officer. Daily tailgate meetings were held and documented during field activities and addressed site-specific health and safety concerns or issues.

4.4 Installation and Sampling of Soil Borings

On April 24, 2008, AES installed five soil borings in and around the area of the spill in order to define the lateral and vertical extent of near surface and subsurface soil contamination. All soil borings (TH-1 through TH-5) were installed with a direct push rig. Borings ranged in depth from 44 feet below ground surface (bgs) to 48 feet bgs. None of the soil borings were completed as monitoring wells because groundwater was not encountered. The locations of soil borings are presented on Figure 2.

4.4.1 Drilling Methods

Soil borings TH-1 through TH-5, were advanced with a DT 6620 track-mounted direct push rig, manufactured by Geoprobe®, and equipped with a 2-inch outer diameter (OD) core barrel. Earth Worx, Los Lunas, New Mexico, completed the direct push drilling.

4.4.2 Soil Sample Collection

Soil samples were collected with a 4-foot disposable sleeve and each boring was logged for lithology and sampled continuously for field screening of volatile organic compounds (VOCs) with a photo-ionization detector (PID) organic vapor meter (OVM). Additionally, soil samples were collected from the borings for laboratory analysis.

For each soil boring, a Soil Boring Log was completed. These logs recorded sample depth and method of collection, as well as observations of soil moisture, color, density, grain size, plasticity, contaminant presence, and overall stratigraphy.

Soil sample collection was completed in strict accordance with USEPA Environmental Response Team's SOPs. Field soil boring logs are included in Appendix A.

4.4.3 Field Screening

Samples were collected at intervals of approximately four feet from each boring. These samples were field screened for volatile organic vapors utilizing a PID-OVM calibrated with isobutylene gas.

Once collected, the soil samples to be field screened were immediately placed in a clean one-gallon Ziploc bag and allowed to warm up to approximately 80°F. Approximately ten minutes was allowed for the soil to be heated and for any VOCs in the soil to accumulate in the headspace of the Ziploc bag. During the initial stages of headspace development, the sample was gently shaken for one minute to promote vapor development and disaggregate the sample. Volatile gases were then measured by carefully opening the Ziploc bag and inserting the sample probe of the PID-OVM. The highest (peak) measurements were recorded onto the Soil Boring Logs. All field screening was completed in strict accordance with USEPA Environmental Response Team's SOPs.

4.4.4 Laboratory Analyses - Soil

Soil samples collected from borings were submitted to an EPA-approved laboratory, Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico, for laboratory analysis of the following parameters:

Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) – EPA Method 8021

 Total Petroleum Hydrocarbons (TPH) (C₆-C₃₆) Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015 Modified

Once collected, sample containers were packed with ice in insulated coolers and shipped via Greyhound bus at less than 6°C to the analyzing laboratory. For all laboratory samples, quality assurance and quality control (QA/QC) procedures, sample preservation, apparatus required, and analyses performed were in accordance with USEPA Document EPA-600, "Methods for Chemical Analysis for Water and Wastes" dated July 1982; and USEPA document SW-846, 3rd Edition, "Test Methods for Evaluating Solid Waste: Physical Chemical Methods", dated November 1986.

5.0 Results

5.1 Soil

5.1.1 Lithology

Soil lithology was observed to consist of interbedded layers of pale brown and red-brown sands and brown sandy clays throughout the site. Soil boring logs are included in Appendix A and geologic cross sections are shown on Figure 3.

5.1.2 Field Results

Soil samples collected from the soil borings were field-screened for VOCs with a PID-OVM. OVM readings were at or near background levels for all samples collected from TH-2 and TH-5. Background OVM readings ranged from 0.0 parts per million (ppm) to 0.1 ppm. Details of PID-OVM readings above background levels are as follows:

- **TH-1** OVM readings ranged from 0.0 ppm at 48 feet bgs (terminal depth) to 2,080 ppm at 12 feet bgs.
- **TH-3** OVM readings above background levels were noted at 32 feet bgs (31.6 ppm) and 36 feet bgs (50.4 ppm).
- TH-4 OVM readings above background levels were noted at 39 feet bgs (48.1 ppm).

PID readings were recorded on the soil boring logs, which are included in Appendix A and are also presented on Figure 3.

5.1.3 Analytical Results

Soil samples were collected for laboratory analysis from the terminal depths of the borings and from intervals determined to be representative by the site supervisor. Remediation action levels promulgated by NMOCD for oil spills and releases (August 13, 1993) were utilized as action levels for soil characterization. The NMOCD remediation action levels for total BTEX are 50 mg/kg and 100 mg/kg for TPH.

Soil analytical results showed that soil samples collected from TH-1 at 1 foot bgs and 20 feet bgs and TH-2 at 12 feet bgs had BTEX concentrations above NMOCD Action Levels with 71.2 mg/kg total BTEX, 118.2 mg/kg total BTEX, and 611 mg/kg total BTEX, respectively.

Total BTEX concentrations from remaining soil samples were either below laboratory detection limits or well below the applicable action level of 50 mg/kg total BTEX.

The NMOCD Action Levels for TPH (100 mg/kg) were also exceeded in three samples, TH-1 at 1 foot bgs (14,860 mg/kg) and 20 feet bgs (1,479 mg/kg) and TH-2 at 12 feet bgs (832 mg/kg). TPH concentrations in remaining soil samples were below laboratory detection limits and well below the applicable action level of 100 mg/kg total TPH.

The analytical results for the soil samples collected have been tabulated and are presented in Table 1 and on Figure 2. Soil analytical laboratory reports are presented in Appendix B.

6.0 Conclusion and Recommendations

5

A total of five soil borings were installed by AES on April 24, 2008. Soils were found to consist of interbedded layers of pale brown and red-brown sands and brown sandy clays throughout the site, and groundwater was not encountered. Soil petroleum hydrocarbon contamination is evident in TH-1 (below the area of the spill) and in TH-2 (along the eastern berm). Soil contaminant concentrations exceeded NMOCD action levels for total BTEX and TPH in TH-1 and TH-2. The highest total BTEX concentration was reported at 611 mg/kg in TH-2 at 12 feet bgs and the highest TPH concentration was reported at 14,860 mg/kg in TH-1 at 1 foot bgs.

Based upon the results of the April 2008 site investigation associated with the BMG Homestead Ranch #2 well location, it appears that significant petroleum hydrocarbon contaminated soil from the surface to approximately 30 feet bgs within the area around the storage tanks will require remediation. Because of the known vertical extent of contaminant impact AES believes that the residual soil contaminates would most appropriately and cost effectively be removed by mechanical soil vapor extraction, rather than excavation and offsite disposal, which would require temporarily relocating the storage tanks and then excavating a large area in order to safely reach 30 feet bgs.

Therefore, within 30 days, AES will submit a corrective action plan (CAP) outlining proposed remedial efforts at the site to NMOCD for review.

Benson Montin Greer Drilling Corporation Homestead Ranch #2 Well Location Site Investigation Report July 11, 2008 Page 5

7.0 Certification

I, the undersigned, am personally familiar with the information submitted in this Site Investigation report, prepared on behalf of Benson-Montin-Greer for the April 2008 site activities associated with the Homestead Ranch #2 Well Location spill in Rio Arriba County, New Mexico. I attest that it is true and complete to the best of my knowledge.

andrea R. Cuppe

Lany Cupps Project Manager

Ross Kennemer

Environmental Scientist

Benson Montin Greer Drilling Corporation Homestead Ranch #2 Well Location Site Investigation Report July 11, 2008 Page 6

8.0 References

- U.S. Environmental Protection Agency (USEPA). 1982. *Methods for Chemical Analysis for Water and Wastes.* Document EPA-600, July, 1982.
- USEPA. 1992. SW-846, 3rd Edition, *Test Methods for Evaluating Solid Waste: Physical Chemical Methods*, dated November, 1986, and as amended by Update One, July, 1992.
- USEPA. 1991. Site Characterization for Subsurface Remediation, EPA 625/4-91-026, November, 1991.
- USEPA. 1997. *Expedited Site Assessment Tools for Underground Storage Tank Sites.* OSWER 5403G and EPA 510B-97-001, March, 1997.
- USEPA. 2001. Contract Laboratory Program (CLP) Guidance for Field Samplers. OSWER 9240.0-35, EPA 540-R-00-003. June, 2001.

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TABLE 1SUMMARY OF SOIL ANALYTICAL RESULTSBMG Homestead Ranch Well #2 LocationRio Arriba County, New Mexico

the second se	Date	ີ່ ອີ້ນີ້ 1 ເອນ	، ر. کارور بر		Ethyl-	Total			
Sample I.D.	Sampled	🗇 Depth	Benzene	Toluene	benzene	Xylènes	DRO	GRO	MRO
gar a garden		(feet)	(mg/Kg)	(mĝ/Kg)	े(mg/Kg) [,]	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
N 87.	Ana	lytical Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
USEP/	A Region 6 Scr	eening Levels	1.6	520	230 🔎	210	NE 🔬	NE;	
	NMOCL	CAction Level	5-4		50	, max, ", , , , , , , , , , , , , , , , , , ,		100	
TH-1	24-Apr-08	1	1.1	12	6.1	52	9,200	860	4,800
TH-1	24-Apr-08	20	4.2	32	11	71	79	1,400	<50
TH-1	24-Apr-08	40	<0.050	<0.050	<0.050	0.18	<10	<5.0	<50
TH-1	24-Apr-08	48	0.072	0.45	0.18	3.0	<10	12	<50
						_			
TH-2	24-Apr-08	12	15	140	56	400	230	550	52
TH-2	24-Apr-08	20	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-2	24-Apr-08	44	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
				4					
TH-3	24-Apr-08	20	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-3	24-Apr-08	32	<0.050	<0.050	<0.050	0.11	<10	<5.0	<50
TH-3	24-Apr-08	44	<0.050	0.27	<0.050	0.50	<10	<5.0	<50
TH-4	24-Apr-08	20	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-4	24-Apr-08	44	<0.050	<0.050	<0.050	0.40	<10	<5.0	<50
TH-5	24-Apr-08	24	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-5	24-Apr-08	34	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-5	24-Apr-08	44	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50

NOTE: NE = Not Established

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STORAGE TANKS

- #1 12 ft. x 20 ft., 400 BBL., STEEL, CONTAINS OIL
- #2 12 ft. x 20 ft., 400 BBL., STEEL, CONTAINS OIL
- #3 12 ft. x 20 ft., 400 BBL., STEEL, CONTAINS OIL
- #4 7 ft. x 10 ft., 88 BBL. FIBERGLASS WITH STEEL TOP, CONTAINS OIL AND WATER

SUMMARY OF SOIL ANALYTICAL RESULTS BMG HOMESTEAD RANCH WELL #2 LOCATION RIO ARRIBA COUNTRY, NEW MEXICO

Sample I.D.	Date Sampled	Depth	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DRO	GRO	MRO
		(feet)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
	Ana	lytical Method	8021B	8021B	8021B	8021B	8015B	8015B	8015B
USE	PA Region 6 Scr	eening Levels	1.6	520	230	210	NE	NE	NE
	NMOCI	D Action Level	1.11	1	50			100	
TH-1	24-Apr-08	1	1.1	12	6.1	52	9,200	860	4,800
TH-1	24-Apr-08	20	4.2	32	11	71	79	1,400	<50
TH-1	24-Apr-08	40	<0.050	<0.050	<0.050	0.18	<10	<5.0	<50
TH-1	24-Apr-08	48	0.072	0.45	0.18	3.0	<10	12	<50
TH-2	24-Apr-08	12	15	140	56	400	230	550	52
TH-2	24-Apr-08	20	<0.050	< 0.050	<0.050	<0.10	<10	<5.0	<50
TH-2	24-Apr-08	44	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-3	24-Apr-08	20	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-3	24-Apr-08	32	<0.050	< 0.050	< 0.050	0.11	<10	<5.0	<50
TH-3	24-Apr-08	44	<0.050	0.27	<0.050	0.50	<10	<5.0	<50
TH-4	24-Apr-08	20	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-4	24-Apr-08	44	<0.050	<0.050	<0.050	0.40	<10	<5.0	<50
TH-5	24-Apr-08	24	<0.050	<0.050	< 0.050	<0.10	<10	<5.0	<50
TH-5	24-Apr-08	34	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50
TH-5	24-Apr-08	44	<0.050	<0.050	<0.050	<0.10	<10	<5.0	<50

NOTE: NE = Not Established



DATE DRAWN: June 4, 2008 DATE REVISED: July 11, 2008 DATE CHECKED: July 11, 2008 July 11, 2008

FIGURE 2 SITE PLAN AND SOIL SAMPLING RESULTS **BENSON-MONTIN-GREER** LLAVES PIPELINE HOMESTEAD RANCH WELL #2 SW 1/4, SW 1/4, SEC. 34, T25N, R2W **RIO ARRIBA COUNTY, NEW MEXICO** N 36° 20.989', W 107° 02.399'

S:\ANIMAS 2000\2008 PROJECTS\BMG\HOMESTEAD RANCH\DRAWINGS\FIGURE 2 GENERAL SITE PLAN



							,		·	
	А	ES		The second se			LOG OF:	TH-1		
Anim	ias Env	vironm	ental Serv	vices, LLC		•			(Page 1 of 1)	
⊢ S' Line	Be lomestea W1/4, S dreth, Ri	enson-Mo ad Ranch W1/4, Se o Arriba (ontin-Greer n Well #2 Lo ec. 34, T25N County, New	cation , R2W / Mexico	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	04/24/08 04/24/08 : 2 in. : Geoprobe : 4' Core		Latitude Longitude Survey By Logged By	AES Ross Kennemer	
Depth in Feet	Surf. Elev. 0	nscs	GRAPHIC			DESC	CRIPTION			PID (ppm)
-0	- 0	SP	<u></u>	SAND, pale	e brown, very fine gi	ained, loose, dr	y, hydrocarbon s	ained, some h	ydrocarbon	
		SP		SAND, pale	e brown, very fine gr	ained, loose, m	oist, strong hydro	carbon odor		1,306
4-	4	<u> </u>		SANDY CL	AY, brown, stiff, mo	ist, strong hydro	carbon odor	on odor		
		SP			,	.,, .	and any anotains			
8-	8	SC	7777	SANDY CL	AY, brown, stiff, mo	ist, strong hydro	carbon odor			2,040
-				SAND, pale	e brown, fine graine	d, loose, moist, s	strong hydrocarb	on odor		
12-	12	SP					ı			2,080
16	-16									1,598
	10	<u>SP</u>	7777	SAND, We	Il Sorted, red-brown	, loose, moist, s ist. strong bydro	trong hydrocarbo	n odor		
		SC		0, 10, 10, 02		iot, otrong nyare				2.012
20-	20	SP		SAND, pale	brown, fine grained	d, loose, moist, s	strong hydrocarb	on odor		2,013
24-	24	SP		SAND, We	Il Sorted, red-brown	, loose, moist, s	trong hydrocarbo	n odor		1,915
		SP		SAND, pale	e brown, fine grained	l, loose, moist, s	strong hydrocarb	on odor		
28-	28	SC		SANDY CL	AY, brown, stiff, mo	ist, strong hydro	ocarbon odor			1,799
-				SAND, pale	brown, fine grained	d, loose, moist, s	strong hydrocarb	on odor		
32-	32	SP								1,822
-	,		:							
										210
36-	36	SP		SAND, We SAND, pale	I Sorted, red-brown	, loose, moist, le d. loose, drv. no	ess hydrocarbon	odor than abov	'e	215
-		SP			,	.,,, ,				
40-	40		7777		AY brown stiff day	no hydrocarbo	n odor			102 ,
		SC			, er, orower, sun, dry	, no nyurocarbo				
44-	44		////							19
-		SP		SAND, We	Il Sorted, red-brown	, loose, dry, no l	nydrocarbon odo			
48-			<u> </u>	l						0.0

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	A	ĒS		3 M		LC	G OF: TH-2		
Anim	as Env	/ironm	ental Serv	ices, LLC				(Page 1 of 1)	
H SV Linc	Be lomestea W1/4, SV dreth, Rid	enson-Mo ad Ranch W1/4, Se o Arriba	ontin-Greer o Well #2 Loec. 34, T25N County, New	cation , R2W / Mexico	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 04/24/08 : 04/24/08 : 2 in. Geoprobe · 4' Core	Latitude Longitude Survey By Logged By	: AES : Ross Kenneme	r
Depth	Surf.	S	PHIC						PID
Feet	0	nsc	GRA						(ppm)
0-	- 0	SP		SAND, pal	e brown, very fine gr	ained, loose, dry (top	of containment berm - 2 f	eet high)	
		SP		SAND, pal	e brown, very fine gr	ained, loose, moist	χ		00
	4			SAND, We	II Sorted, red-brown,	loose, moist			
8-	8	SP							0.0
12-	12	SC	7.7.7.3	SANDY CL	AY, brown, stiff, mo	st			. öo
		SP		SAND, par	e brown, inte grainec	i, ioose, moist	`		
16	- -16	sc		SAND, We	II Sorted, red-brown,	loose, moist,			00
20-	20	SC		SANDY CL	AY, brown, stiff, mo	st			
		SP		SAND, pal	e brown, fine grained	l, loose, moist			
24-	24	SP		SAND, We	Il Sorted, red-brown,	loose, moist			01
				SAND, pal	e brown, fine grained	, loose, moist			
28-	28	SP							0.0
									00
32-	32	SC		SANDY CL	AY, brown, stiff, mo	st	1		
		SP		SAND, pai	e brown, fine grained	l, loose, moist			0.0
36-	3D	<u> </u>		SAND, We SAND, pal	e brown, fine grained	loose, moist I, loose, dry			
40-	40	SP		SAND. We	Il Sorted, red-brown	loose, dry			0.0
		SP			· · · · · · · · · · · · · · · · · · ·	, ~. ,			
44-			I						0.0

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AES 🦻							LOG OF:	TH-3		
Anim	ias Env	/ironm	ental Serv	/ICes, LLC					(Page 1 of 1)	
H SN Linc	Be lomestea W1/4, S ¹ dreth, Ri	enson-Mo ad Ranch W1/4, Se o Arriba (ontin-Greer n Well #2 Lo ec. 34, T25N County, New	cation , R2W Mexico	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	· 04/24/08 04/24/08 . 2 in. Geoprobe : 4' Core		Latitude Longitude Survey By Logged By	: AES Ross Kennemer	
Depth in Feet	Surf Elev 0	scs	RAPHIC			DESC	RIPTION			PID (ppm)
	- 0	n	<u> </u>						•	
-	Ŭ	SP		SAND, pal	e brown, very fine gra	ined, loose, dry	1			
		SP		SAND, par	e brown, fine grained,	loose, moist				
4-	4	SC		SANDY CL	AY, brown, stiff, mois	st] ँ
		SP		SAND, pal	e brown, fine grained,	loose, moist				
8-	8	SC	////	SANDY CL	AY, brown, stiff, mois	st				0.0
12-	12	ر SP		SAND, pal	e brown, fine grained,	loose, moist				0.0
-	- 16	SP		SAND, We	ll Sorted, red-brown,	loose, moist			·	0.0
-		sc		SANDY CL	AY, brown, stiff, mois	st				
20-	20									0.0
		SP		SAND, pal	e brown, fine grained,	loose, moist	_			
24-	24	SP		SAND, We	Il Sorted, red-brown,	loose, moist				0.0
				SAND, pai	e brown, tine grained,	loose, dry				
- 28	28	SP				·				00
-				SAND, We	Il Sorted, red-brown,	loose, dry				
32	32									31 6
36-	36	SP								50 4
40-	40									0.0
		SP	777	SAND, pal	e brown, fine grained,	loose, moist				
		SC		SANDY CL	.AY, brown, stiff, mois	ST				.
44-										0.0

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	A	ES		P		L.	LOG OF:	TH-4		
Anim	ias Env	/ironm	ental Serv	ACCS, LLC					(Page 1 of 1)	
H S ¹ Linc	Be lomestea W1/4, S' dreth, Ri	enson-Mo ad Ranch W1/4, Se o Arriba	ontin-Greer n Well #2 Loo ec. 34, T25N County, New	cation , R2W / Mexico	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 04/24/08 : 04/24/08 : 2 in. Geoprobe : 4' Core		Latitude Longitude Survey By Logged By	: : : AES : Ross Kennemer	r
Depth in	Surf Elev	CS	APHIC		,	DES	CRIPTION			PID (ppm)
Feel	0	n	GF							
0-	0	SP_	-	SAND, pal	e brown, very fine gr	ained, loose, d	ry			
-	•	SP		SAND, pal	e brown, fine grained	l, loose, moist				
		sc	777	SANDY CL	AY, brown, stiff, mo	ist				00
4-	4		<u>/./././</u>	SAND, We	I Sorted, red-brown,	loose, moist				
-		SP								0.0
8-	8			SANDY CL	AY, brown, stiff, mo	ist			,	
					-					
12	-12	SE	7.7.7.7	SAND, pal	e brown, fine grained	l, loose, moist				0.0
		SP		SANDY CL	AY, brown, stiff, mo	ist				1
-		5		SAND, WE	in Sortea, rea-brown,	loose, moist				
16-	-16	SP		SAND, pal	e brown, fine grained	I, loose, moist				0.0
		<u> </u>		SAND, We	ell Sorted, red-brown,	loose, moist				
		SP		· · · · · · · ·	g	.,,				0.0
20-	20		///	SANDY CL	AY, brown, stiff, mo	ist				1
-		SC		· ·						
										00
24-	24			SAND, We	II Sorted, red-brown,	loose, moist				1
		•								
- 29	-28									00
20-	20	SP					,			
32-	32									00
				SAND, We	Il Sorted, red-brown,	loose, dry				
		SP								
36-	36									00
]				SAND nat	e brown, fine grained	Lloose moist				
		SP		5		.,	<u> </u>			481
40-	40	SC SP		SANDY CL	AY, brown, stiff, mo	ist				1
-		SC	$\langle / / \rangle$	SAND, WE	AY, brown, stiff. mo	ioose, ary ist			/	1
-		SP	. /	SAND. We	I Sorted, red-brown.	loose, moist				0.1
44-	1			-, ····		,*				ن ـــــــــ

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	A	ES		2	···		LOG OF:	TH-5			
Anim	as Env	vironm	ental Serv	/ices. LLC					(Page 1 of 1)		
H S' Lind	Be lomestea W1/4, S ¹ dreth, Ri	enson-Mc ad Ranch W1/4, Se o Arriba (ontin-Greer n Well #2 Loo ec. 34, T25N County, New	cation , R2W / Mexico	Date Started Date Completed Hole Diameter Drilling Method Sampling Method	: 04/24/08 : 04/24/08 : 2 in. : Geoprobe 4' Core		Latitude Longitude Survey By Logged By	AES : Ross Kennemer		
Depth	Surf.		우								
in Feet	Elev 0	nscs	GRAPI			DESC				PID (ppm)	
0-	- 0	SP	1	SAND, pale	e brown, very fine gr	ained, loose, dr	y, dark staining				
	4	SP		SAND, pale	e brown, fine grained	l, loose, moist,	no staining			0.0	
· ·		SC	////	SANDY CL	AY, brown, stiff, mo	ist			<u>-</u>		
-		SP		SAND, We	II Sorted, red-brown,	loose, moist				0.0	
8-	8	sc	777	SANDY CL	SANDY CLAY, brown, stiff, moist						
		SP		SAND, pale	e brown, fine grained	l, loose, moist			<u> </u>	1	
12-	12	SC		SANDY CL	SANDY CLAY, brown, stiff, moist 0						
16-	16	SP		SAND, We	SAND, Well Sorted, red-brown, loose, moist						
	- 20	'SC		SANDY CL	AY, brown, stiff, mo	ist				0.0	
20-	20	SP		SAND, pale	e brown, fine grained	l, loose, moist				0.0	
24	24	SP		SAND, We	ll Sorted, red-brown,	loose, moist					
28-	28	SC		SANDY CL	AY, brown, stiff, mo	ist				00	
- - 	32	SP		SAND, pale	e brown, fine grainec	l, loose, dry		-		00	
-		SP		SAND, We	Il Sorted, red-brown,	loose, dry				0.0	
36-	36	SP		SAND, pale	e brown, fine grained	l, loose, moist			· · · · · · · · · · · · · · · · · · ·	0.0	
40-	40	00			Control and base	10000 47				0.0	
		SC	777	SAND, We	AY, brown, stiff mo	ist			5		
		<u></u>	f	SAND, We	Il Sorted, red-brown,	loose, moist				0.0	
44-			ļ								

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COVER LETTER

Monday, May 05, 2008

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

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

RE: BMG Homestead Ranch Well #2 Location

Dear Ross Kennemer:

Order No.: 0804338

Hall Environmental Analysis Laboratory, Inc. received 15 sample(s) on 4/29/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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 Fileeman, Business Manager Nancy McDuffie, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001



4901 Hawkins NE Suite D Albuquerque, NM 87109 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com

CLIENT:Animas Environmental ServicesProject:BMG Homestead Ranch Well #2 LocationLab Order:0804338

CASE NARRATIVE

Date: 05-May-08

Surrogates not recoverable in samples 0804338-01 and 0804338-02 due to dilution factor and high concentration of TPH present in the samples.

Date: 05-May-08

CLIENT:	Animas Environmental Services
Lab Order:	0804338
Project:	BMG Homestead Ranch Well #2 Location
Lab ID:	0804338-01

Client Sample ID: TH-1 @ 1'BGS Collection Date: 4/24/2008 9:52:00 AM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE O	RGANICS					Analyst: SCC
Diesel Range Organics (DRO)	9200	200		mg/Kg	20	5/1/2008 1:26:47 AM
Motor Oil Range Organics (MRO)	4800	1000		mg/Kg	20	5/1/2008 1:26:47 AM
Surr: DNOP	0	61.7-135	S	%REC	20	5/1/2008 1:26:47 AM
EPA METHOD 8015B: GASOLINE RANGE	E		,			Analyst: NSB
Gașoline Range Organics (GRO)	860	100		mg/Kg	20	5/2/2008 12:08:12 PM
Surr: BFB	367	84-138	S	%REC	20	5/2/2008 12:08:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	1.1	1.0		mg/Kg	20	5/2/2008 12:08.12 PM
Toluene	12	1.0		mg/Kg	20	5/2/2008 12:08:12 PM
Ethylbenzene	6.1	1.0		mg/Kg	20	5/2/2008 12:08:12 PM
Xylenes, Total	52	2.0		mg/Kg	20	5/2/2008 12:08:12 PM
Surr: 4-Bromofluorobenzene	113	81.4-117		%REC	20	5/2/2008 12:08:12 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 05-May-08

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 Location

0804338-02

Lab ID:

Client Sample ID: TH-1 @ 20' BGS Collection Date: 4/24/2008 10:18:00 AM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS			<u>مر معمد میں معمد محمد معمد معمد معمد معمد معمد معمد</u>		Analyst: SCC
Diesel Range Organics (DRO)	79	10		mg/Kg	1	4/30/2008 3:37:50 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/30/2008 3:37:50 PM
Surr: DNOP	90.3	61.7-135		%REC	1	4/30/2008 3:37:50 PM
EPA METHOD 8015B: GASOLINE RA					Analysť: NSB	
Gasoline Range Organics (GRO)	1400	250		mg/Kg`	50	5/2/2008 1:08:32 PM
Surr: BFB	148	84-138	S	%REC	50	5/2/2008 1:08:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	4.2	2.5		mg/Kg	50	5/2/2008 1:08:32 PM
Toluene	32	2.5		mg/Kg	50	5/2/2008 1:08:32 PM
Ethylbenzene	11	2.5		mg/Kg	50	5/2/2008 1:08:32 PM
Xylenes, Total	71	5.0		mg/Kg	50	5/2/2008 1:08:32 PM
Surr: 4-Bromofluorobenzene	88.8	81.4-117		%REC	50	5/2/2008 1:08:32 PM

Qualifiers:

*

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 LocationLab ID:0804338-03

Date: 05-May-08

Client Sample ID: TH-1 @ 40' BGS Collection Date: 4/24/2008 10:47:00 AM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE		Analyst: SCC			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 4:47:36 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 4:47:36 PM
Surr: DNOP	89.2	61.7-135	%REC	1	4/30/2008 4:47:36 PM
EPA METHOD 8015B: GASOLINE RAN	GE	,			Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2008 2:08:44 PM
Surr: BFB	111	84-138	%REC	1	5/2/2008 2:08:44 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	, ND	0.050	mg/Kg	1	5/2/2008 2:08:44 PM
Toluene	, ND	0.050	mg/Kg	1	5/2/2008 2:08:44 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 2.08:44 PM
Xylenes, Total	0 18	0.10	mg/Kg	1	5/2/2008 2:08:44 PM
Surr: 4-Bromofluorobenzene	93.7	81.4-117	%REC	· 1	5/2/2008 2:08:44 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 Location

0804338-04

Lab ID:

Date: 05-May-08

Client Sample ID: TH-1 @ 48' BGS Collection Date: 4/24/2008 11:00:00 AM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 5:22:35 PM
Motor Oil Range Organics (MRO)	· ND	50	mg/Kg	1	4/30/2008 5:22:35 PM
Surr DNOP	89.8	61.7-135	%REC	1	4/30/2008 5:22:35 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	12	50	mg/Kg	1	5/2/2008 2:38:46 PM
Surr: BFB	101	84-138	%REC	1	5/2/2008 2:38.46 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	0.072	0.050	mg/Kg	1	5/2/2008 2:38:46 PM
Toluene	0.45	0.050	mg/Kg	1	5/2/2008 2:38:46 PM
Ethylbenzene	0.18	0.050	mg/Kg	1	5/2/2008 2:38:46 PM
Xylenes, Total	3.0	0.10	mg/Kg	1	5/2/2008 2:38:46 PM
Surr: 4-Bromofluorobenzene	88.0	81.4-117	%REC	1	5/2/2008 2:38:46 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 05-May-08

CLIENT:	Animas Environmental Services
Lab Order:	0804338
Project:	BMG Homestead Ranch Well #2 Location
Lab ID:	0804338-05

Client Sample ID: TH-2 @ 12'BGS Collection Date: 4/24/2008 11:20:00 AM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS					Analyst: SCC
Diesel Range Organics (DRO)	230	10	mg/Kg	1	4/30/2008 5:57:35 PM
Motor Oil Range Organics (MRO)	52	50	mg/Kg	1	4/30/2008 5:57:35 PM
Surr: DNOP	95.5	61.7-135	%REC	1	4/30/2008 5:57:35 PM
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: NSB
Gasoline Range Organics (GRO)	550	100	ma/Ka	20	5/3/2008 6:51:12 PM
Surr: BFB	131	84-138	%REC	20	5/3/2008 6:51:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	15	10	mg/Kg	200	5/3/2008 6:51:12 PM
Toluene	140	10	mg/Kg	200	5/3/2008 6:51:12 PM
Ethylbenzene	56	10	mg/Kg	200	5/3/2008 6:51:12 PM
Xylenes, Total	400	20	mg/Kg	200	5/3/2008 6:51:12 PM
Surr: 4-Bromofluorobenzene	93.7	81.4-117	%REC	200	5/3/2008 6:51:12 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- 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 5 of 15

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Date: 05-May-08

CLIENT:	Animas Environmental Services
Lab Order:	0804338
Project:	BMG Homestead Ranch Well #2 Location

0804338-06

Lab ID:

Collection Date: 4/24/2008 11:35:00 AM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Client Sample ID: TH-2 @ 20' BGS

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS		والمتركبين والمتهامين والمتهامين والمتهامين والمتهامين		Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 6:32·35 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 6.32:35 PM
Surr: DNOP	82.3	61.7-135	%REC	1	4/30/2008 6:32:35 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	·1	5/2/2008 4:39:35 PM
Surr: BFB	99.3	84-138	%REC	1	5/2/2008 4:39:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 4:39:35 PM
Toluene	ND	0.050	mg/Kg	1	5/2/2008 4:39:35 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 4:39:35 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2008 4:39:35 PM
Surr: 4-Bromofluorobenzene	86.2	81.4-117	%REC	1	5/2/2008 4:39:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 LocationLab ID:0804338-07

Date: 05-May-08

Client Sample ID: TH-2 @ 44' BGS Collection Date: 4/24/2008 12:00:00 PM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS					Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 7:07:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 7:07:37 PM
Surr: DNOP	83.9	61.7-135	%REC	1	4/30/2008 7:07·37 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	· mg/Kg	1	5/2/2008 5:09:38 PM
Surr: BFB	106	84-138	%REC	1	5/2/2008 5:09:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 5:09:38 PM
Toluene	ND	0.050	mg/Kg	1	5/2/2008 5:09:38 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 5:09:38 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2008 5:09:38 PM
Surr: 4-Bromofluorobenzene	92.8	81.4-117	%REC	1	5/2/2008 5:09:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338

Project:BMG Homestead Ranch Well #2 LocationLab ID:0804338-08

Date: 05-May-08

 Client Sample ID:
 TH-3 @ 20' BGS

 Collection Date:
 4/24/2008 12:30:00 PM

 Date Received:
 4/29/2008

 Matrix:
 MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 7:42:30 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 7:42:30 PM
Surr: DNOP	85.2	61.7-135	%REC	1	4/30/2008 7:42:30 PM
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2008 5:41:55 PM
Surr: BFB	103	84-138	%REC	1	5/2/2008 5:41:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 5:41:55 PM
Toluene	ND	0.050	mg/Kg	1	5/2/2008 5:41:55 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 5:41.55 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2008 5:41:55 PM
Surr: 4-Bromofluorobenzene	89.7	81.4-117	%REC	1	5/2/2008 5:41:55 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 05-May-08

CLIENT:	Animas Environmental Services
Lab Order:	0804338
Project:	BMG Homestead Ranch Well #2 Location
Lab ID:	0804338-09

Client Sample ID: TH-3 @ 32' BGS Collection Date: 4/24/2008 12:38:00 PM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	ult PQL Qual Un		DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS			· · · · · · · · · · · · · · · · · · ·	Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 8:17:11 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 8:17:11 PM
Surr: DNOP	83.9	61.7-135	%REC	1	4/30/2008 8:17:11 PM
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2008 7:12:02 PM
Surr: BFB	101	84-138	%REC	1	5/2/2008 7:12:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 7:12:02 PM
Toluene	ND	0.050	mg/Kg	1	5/2/2008 7:12:02 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 7:12:02 PM
Xylenes, Total	0.11	0.10	mg/Kg	1	5/2/2008 7:12:02 PM
Surr: 4-Bromofluorobenzene	86.8	81.4-117	%REC	1	5/2/2008 7:12:02 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 LocationLab ID:0804338-10

Date: 05-May-08

Client Sample ID: TH-3 @ 44' BGS Collection Date: 4/24/2008 12:53:00 PM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		<u></u>		Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 8:51:50 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 8:51:50 PM
Surr: DNOP	84.8	61.7-135	%REC	- 1	4/30/2008 8:51:50 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2008 7:42:19 PM
Surr: BFB	101	84-138	%REC	1	5/2/2008 7:42:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 7:42:19 PM
Toluene	0.27	0.050	mg/Kg	1	5/2/2008 7:42:19 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 7:42:19 PM
Xylenes, Total	0.50	0.10	mg/Kg	1	5/2/2008 7:42:19 PM
Surr: 4-Bromofluorobenzene	88.5	81.4-117	%REC	1	5/2/2008 7:42:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 LocationLab ID:0804338-11

Date: 05-May-08

Client Sample ID: TH-4 @ 20' BGS Collection Date: 4/24/2008 1:20:00 PM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE O	RGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 9:26:16 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 9:26:16 PM
Surr: DNOP	84.3	61.7-135	%REC	1	4/30/2008 9:26:16 PM
EPA METHOD 8015B: GASOLINE RANGE	Ξ				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2008 8 [.] 12:29 PM
Surr: BFB	109	84-138	%REC	1	5/2/2008 8:12:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 8:12:29 PM
Toluene	ND	0.050	mg/Kg	1	5/2/2008 8:12:29 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 8:12:29 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2008 8·12:29 PM
Surr: 4-Bromofluorobenzene	96.2	81.4-117	%REC	1	5/2/2008 8:12:29 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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: 05-May-08

CLIENT:	Animas Environmental Services
Lab Order:	0804338
Project:	BMG Homestead Ranch Well #2 Location

0804338-12

Lab ID:

Client Sample ID: TH-4 @ 44' BGS Collection Date: 4/24/2008 1:45:00 PM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result PQL Qual Units		nits	. DF	Date Analyzed					
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: SCC				
Diesel Range Organics (DRO)	ND 10		m	g/Kg	1	4/30/2008 10:00:43 PM				
Motor Oil Range Organics (MRO)) ND 50 mg/Kg		g/Kg	1	4/30/2008 10:00:43 PM					
Surr: DNOP	. 85.2	61.7-135	%	REC	1	4/30/2008 10:00:43 PM				
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: NSB				
Gasoline Range Organics (GRO)	ND	50	m	g/Kg	1	5/2/2008 8:42:32 PM				
Surr: BFB	104	84-138	%	REC	[·] 1	5/2/2008 8:42:32 PM				
EPA METHOD 8021B: VOLATILES						Analyst: NSB				
Benzene	ND	0.050	m	g/Kg	1	5/2/2008 8:42:32 PM				
Toluene	ND	0.050	m	g/Kg	1	5/2/2008 8:42:32 PM				
Ethylbenzene	ND	0.050	m	g/Kg	1	5/2/2008 8:42:32 PM				
Xylenes, Total	0.40	0.10	m	g/Kg	1	5/2/2008 8:42:32 PM				
Surr: 4-Bromofluorobenzene	88.6	81.4-117	%	REC	1	5/2/2008 8:42:32 PM				

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 LocationLab ID:0804338-13

Date: 05-May-08

Client Sample ID: TH-5 @ 24' BGS Collection Date: 4/24/2008 2:15:00 PM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	Result PQL Qual U		DF	Date Analyzed				
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: SCC				
Diesel Range Organics (DRO)	ND	[·] 10	mg/Kg	1	4/30/2008 11:09:28 PM				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 11:09:28.PM				
Surr: DNOP	85.2	61.7-135	%REC	1	4/30/2008 11:09:28 PM				
EPA METHOD 8015B: GASOLINE RAN	IGE				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	50	mg/Kg	1	5/2/2008 9:15:18 PM				
Surr: BFB	101	84-138	%REC	1	5/2/2008 9:15:18 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.050	mg/Kg	1	5/2/2008 9:15:18 PM				
Toluene	ND	0.050	mg/Kg	1	5/2/2008 9:15:18 PM				
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 9:15:18 PM				
Xylenes, Total	ND	[′] 0.10	mg/Kg	1	5/2/2008 9 15:18 PM				
Surr: 4-Bromofluorobenzene	86.6	81.4-117	%REC	1	5/2/2008 9·15:18 PM				

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 Location

0804338-14

Lab ID:

Date: 05-May-08

 Client Sample ID:
 TH-5 @ 34' BGS

 Collection Date:
 4/24/2008 2:25:00 PM

 Date Received:
 4/29/2008

 Matrix:
 MEOH (SOIL)

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS		المعالي في المانية في المانية من المعالي المعالي المعالي المعالي المعالي المعالي المعالي المعالي الم		Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/30/2008 11:43:34 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/30/2008 11:43:34 PM
Surr: DNOP	85.0	61.7-135	%REC	1	4/30/2008 11:43:34 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/2/2008 9:45:22 PM
Surr: BFB	98.1	84-138	%REC	1	5/2/2008 9:45:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 9:45:22 PM
Toluene	ND	0.050	mg/Kg	1	5/2/2008 9:45:22 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 9:45:22 PM
Xylenes, Total	ND 0.10		mg/Kg	1	5/2/2008 9:45:22 PM
Surr: 4-Bromofluorobenzene	bbenzene 84.2 81.4-117		%REC	1	5/2/2008 9:45:22 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 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

CLIENT:Animas Environmental ServicesLab Order:0804338Project:BMG Homestead Ranch Well #2 LocationLab ID:0804338-15

Date: 05-May-08

Client Sample ID: TH-5 @ 44' BGS Collection Date: 4/24/2008 2:42:00 PM Date Received: 4/29/2008 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: SCC
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2008 12:17:41 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/1/2008 12:17:41 AM
Surr: DNOP	82.5	61.7-135	%REC	1	5/1/2008 12:17:41 AM
EPA METHOD 8015B: GASOLINE RANG	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0 mg/Kg 1		1	5/2/2008 10:15:32 PM
Surr: BFB	103	84-138	%REC	1	5/2/2008 10:15:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/2/2008 10:15:32 PM
Toluene	ND	0.050	mg/Kg	1	5/2/2008 10:15:32 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/2/2008 10:15:32 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/2/2008 10:15:32 PM
Surr: 4-Bromofluorobenzene	89.3	81.4-117	%REC	1	5/2/2008 10:15:32 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 15 of 15

QA/QC SUMMARY REPORT

Client:Animas EnvProject:BMG Home	stead Ranc	Services h Well #2 Lo	ocation				v	Vork Oi	rder:	0804338
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLi	mit G	lual
Method: EPA Method 8015B: D	iesel Range	Organics								
Sample ID: MB-15784		MBLK			Batch	ID: 15784	Analysis D	ate. 4/	29/2008	3 11:24:12 AM
Diesel Range Organics (DRO)	ND	mg/Kg	10							
Motor Oil Range Organics (MRO)	ND	mg/Kg	50							
Sample ID: LCS-15784		LCS			Batch	D: 15784	Analysis Da	ate: 4/	29/2008	3 11:58:18 AM
Diesel Range Organics (DRO)	47.64	mg/Kg	10	95.3	64.6	116				
Sample ID: LCSD-15784		LCSD			Batch	D: 15784	Analysis Da	ate: 4	1/29/200	08 1:06:47 PM
Diesel Range Organics (DRO)	48.94	mg/Kg	10	97.9	64.6	116	2.69	17.4		
Method: EPA Method 8015B: G	asoline Ran	ge								
Sample ID: 0804338-14A MSD		MSD			Batch	D. R28373	Analysis Da	ate: 5	5/3/2008	3 12:45:47 AM
Gasoline Range Organics (GRO)	24.91	mg/Kg	5.0	99.6	69.5	120	2.77	11.6		
Sample ID: b 19		MBLK			Batch I	D: R28373	Analysis Da	ate.	5/2/200	8 6:11:51 PM
Gasoline Range Organics (GRO)	ND	ma/Ka	50				•			
Sample ID: 2.5UG GRO LCS	ND	LCS	0.0		Batch I	D: R28373	Analysis Da	ate: 5	5/2/2008	10.45:36 PM
Gasoline Range Organics (GRO)	25 71	ma/Ka	50	94 1	69.5	120	-			
Sample ID: 0804338-14A MS	20.7	MS		•	Batch I	D [.] R28373	Analysis Da	ate: 5	5/3/2008	12:15:43 AM
Gasoline Range Organics (GRO)	25.61	mg/Kg	5.0	102	69.5	120	· · · · · · · · · · · · · · · · · · ·			
Sample ID: 0804338-144 MSD	oratries	MSD			Batch I	D' 228373	Analysis Da	ato 5	3/2008	12.45.47 AM
	0.0000		0.050	405	70.0	400	100		10/2000	12.40.47740
Benzene	0.2939	mg/Kg	0.050	105	78.8	132	10.4	27		
Toluene	2.090	mg/Kg mg/Kg	0.050	104	78.9	112	3.00 5.00	19		
	0.4307	mg/Kg	0.050	112	72	120	5.20 2.64	10		
Sample ID: h 19	2.597	MBLK	0.10	115	75 Ratch I	120 D. D29272	Analysis Da	io.	5/2/200	8 6-11-51 DM
			0.050		Daton		Analysis De		0/2/200	0.0.11.011.01
Benzene		mg/Kg	0.050							
Toluene		mg/Kg	0.050							
Ethylpenzene		mg/Kg	0.050							
Aylenes, Total	NU		0.10		Botob I	. 099979	Analysis Da		aucici	11-45-33 DM
		203		100	Datoni	D. R20373	Analysis Da		1212000	11.40.00 FIM
Benzene	1.021	mg/Kg	0.050	102	78.8	132				
loluene	1.059	mg/Kg	0.050	105	78.9	112				
Etnylbenzene	1.024	mg/Kg	0.050	102	69.3	125				
	3.089	mg/Kg	0.10	103	73 Deteb II	120 D: D20272	Analysis Da		1212000	10.15.42 AM
Sample ID. 0004330-144 MS		1410				J. R20313	Analysis Da	ie. 0/	0/2000	12.10.40 /\11
Benzene	0.3262	mg/Kg	0.050	117	/8.8	132				
Ioluene	2.174	mg/Kg	0.050	108	78.9	112				
Ethylbenzene	0.4624	mg/Kg	0 050	116	69.3	125				
Xylenes, Total	2.694	mg/Kg	0.10	117	73	128				

Qualifiers:

E Value above quantitation range

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

Client Name ANIMAS ENVIRONMENTAL Work Order Number 0804338 Checklist completed by Agnature Matrix: Carrier name Grey Shipping container/cooler in good condition? Yes Custody seals intact on shipping container/cooler? Yes Custody seals intact on sample bottles? Yes Chain of custody present? Yes	2) Date	Date Received Received by: Sample ID Ia OO No No No No No No No No No	I: TLS bels checked Not Present Not Present N/A	by:	4/29/2008	-		
Work Order Number 0804338 Checklist completed by Janue Signature Matrix: Carrier name Grey Shipping container/cooler in good condition? Yes Custody seals intact on shipping container/cooler? Yes Custody seals intact on sample bottles? Yes Chain of custody present? Yes	1)29 Date	Received by: Sample ID Ia No No No No No No No No	TLS bels checked Not Present Not Present N/A	by:	Not Shipped			
Checklist completed by January Shorin Matrix: Carrier name Grey Shipping container/cooler in good condition? Yes Custody seals intact on shipping container/cooler? Yes Custody seals intact on sample bottles? Yes Chain of custody present? Yes	1)29 Date	Sample ID la No No	bels checked Not Present Not Present N/A		Not Shipped			
Matrix: Carrier name Grey Shipping container/cooler in good condition? Yes Custody seals intact on shipping container/cooler? Yes Custody seals intact on sample bottles? Yes Chain of custody present? Yes	vhound V V V V V V V	No	Not Present Not Present N/A		Not Shipped			
Shipping container/cooler in good condition?YesCustody seals intact on shipping container/cooler?YesCustody seals intact on sample bottles?YesChain of custody present?Yes		No	Not Present Not Present N/A		Not Shipped			
Custody seals intact on shipping container/cooler?YesCustody seals intact on sample bottles?YesChain of custody present?Yes		No	Not Present N/A		Not Shipped			
Custody seals intact on sample bottles? Yes Chain of custody present? Yes		No	N/A					
Chain of custody present? Yes		No						
		No 🗌 No 🗍						
Chain of custody signed when relinquished and received? Yes								
Chain of custody agrees with sample labels? Yes		No				*		
Samples in proper container/bottle? Yes	L .							
Sample containers intact? Yes	\checkmark	No 🗌						
Sufficient sample volume for indicated test? Yes		No 🗔						
All samples received within holding time? Yes		No 🗌						
Water - VOA vials have zero headspace? No VOA vials submitted		Yes 🗌	No 🗌					
Water - Preservation labels on bottle and cap match? Yes		No 🗌	N/A 🗹					
Water - pH acceptable upon receipt? Yes		No 🗌	N/A 🗹					
Container/Temp Blank temperature?	3° -	<6° C Acceptable)					
COMMENTS:	If given sufficient time to cool.							
			· 					
Client contacted Date contacted:		Perso	n contacted					
Contacted by: Regarding:				-				
Comments:			. –					
		<u> </u>						
Corrective Action			<u></u>					

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Ch	ain-of-	Custody Record	Turn-Around	Time:										ŤD		NI N			N E	
Client: A	mimas	Environmental Services	Standard	🗆 Rush			A	 	A	N/	.∟ \L'	YS	IS		AB	101	RA'	TO	NL RY	
	624 E	EComorehe	Project Name	BMG	1 1 1 1 the				,		.hali	envi	ironn	nenta	al.co	om		_		
Address:	- Jam	intro Alm 87401	Homest	read Runc	h Well to	4901 Hawkins NE - Albuquerque, NM 87109														
	1041	anguar incartan	Project #:	· · · · · · · · · · · · · · · · · · ·	round loy C	Tel. 505-345-3975 Fax 505-345-4107														
Phone #:	East	564-2281	1							0.00	A	naly	sis	Requ	uest					
email or Fax#: (505) 324-20 22		Project Mana	ger:			(Yr	sel)					D4)					3			
QA/QC Package: A Standard		Ross Kennemer			B's (8021	H (Gas ol	(Gas/Die					₂ , PO ₄ , S(32 PCB's				8013			
			Sampler:	loss Ker	nemer	μ	đ	5B	. 1	[-	60	Ŧ	Z	/80			'A'	36		Î
	туре)		Sample Tem		3 -	н Ш	н Ш	801	d 41	d 50	d 82	r P	0 Z	des		V 0	8			⊼ ∑
Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTE	BTEX + MTE	TPH Method	TPH (Method	EDB (Metho	EDC (Metho	8310 (PNA c	Anions (F,CI	8081 Pestici	3260B (VOA	8270 (Semi-'	BTEN (10H (C		Air Bubbles (
4-24-08	0952	TH-10 1' B65	3	neth	-1			-									/			
4-24-08	1018	TH-12 20' B65	2	mith	-2												1	1		
4-24-08	1047	TH-1040' BLS	3	meth	-3												./			
4-24-08	1100	TH-1@48' B65	3	neth	-4												1	1		
4-24-08	117.0	TH-2 Q 12' BLS	3	home	-5							_				·	\mathbf{V}	7		
4-24-08	1125	TH-2@20' RIG	3	Medh	-10		-+										/	$\overline{\mathcal{T}}$		
4-24-08	12.00	TH-2 Q 44' BLS	2	moth	- 1			+		-1										
4-24-08	1230	TH-2 @ 20' RIS	3	medh	.8												1	1	1	<u> </u>
4-24-08	12.38	TH-3 Q 32' B/15	3	meth	-9												7	1	1	
4-24-08	1253	TH-3 244' B65	3	meth	-10												7	7		Γ
4-24-08	1320	TH-4@20' B65	2	moth	-11												7	7		<u> </u>
4-24-08	1345	TH-4044 B65	3	math	, 12												V	$\overline{\Lambda}$		Γ
Date:	Time: OYZO Time:	Relinquished by: Relinquished by:	18/	Received by:	4/29/08 SC 905	Rem	narks				·					4	<u></u>			
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report

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Ch	Chain-of-Custody Record		Turn-Around	Time:	Turn-Around Time:			A -1					тр		NI 154	EN	TAI	1	
Client:	trime	s Environ mental Services	X Standard	🗆 Rush			20	 	AN		YS	IS		AB	OF	ŁN	OR	- Y	
6)1 Addross:	<u>† E.</u>	Comorche	Project Name	BMG	ch, Well # 2	. A.			ww	w.hai	lenvi	ironn	nenta	al.co	m				
	Form	istor, NM 87411	Droie at #	·ho	cution	4901 Hawkins NE - Albuquerque, NM 87109													
			Project #:			Tel. 505-345-3975 Fax 505-345-4107													
Phone #	505	564-2181																	
email or F	ax#: (50)	5] 324- 422	Project Manager:			51)	only	ese				SO4	ŝ				71		ľ
QA/QC Pace Standa	Standard Devel 4 (Full Validation)			Russ Kinnemer			(Gas	Gas/Di				PO4,	2 PCB		<i>.</i>				
D Other	□ Other			Sampler: Riss Kennemer			H) 100 100 100 100 100 100) Q	Î	0 Z	808			e	K	12	Ē
· 🗆 EDD (1	Гуре)		On Ice	Ves	No	, н	н	8015	504	826	PAI	Š	es /		(MO		۱ ۱	5	Ī
Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MTBI	BTEX + MTBI	TPH Method (EDB (Method	EDC (Method	8310 (PNA or	Anions (F,CI,h	8081 Pesticid	8260B (VOA)	8270 (Semi-V	BTEV (Viv Duhhlas /	
4-24-08	1415	TH-5024' B65	3	neth	13										I	11		÷.	
4-24-08	1425	TH-5 \$ 34' B65	3	meth	14							•					1	f-1	4.
4-24-08	1442	TH-5 @ 44' B65	3	moth	15									_		Δ2	\square		
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

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

June 9, 2008

Mike Dimond Benson-Montin-Greer Drilling Corporation 4900 College Blvd Farmington, New Mexico 87402

RE: Results of April 2008 Treatment Zone Monitoring at BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Dimond:

On April 14, 2008, Animas Environmental Services, LLC (AES), completed the quarterly treatment zone monitoring and sampling of the Benson-Montin-Greer Drilling Corporation (BMG) Centralized Surface Waste Management Facility, located near the Canada Ojitos Unit (COU) Gas Plant in Rio Arriba County, New Mexico.

1.0 Sampling Procedures

As required by the New Mexico Oil Conservation Division (NMOCD) permit for this facility, one random soil sample was collected from each of the active treatment cells. Samples were collected from a depth of approximately two feet from the three treatment cells sampled. A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, each sample container was labeled with the date, sample location, sample type, and sampler's initials. The containers were placed in a chilled, insulated cooler at less than 6°C until delivered to the analytical laboratory, Hall Environmental Analysis Laboratory, Albuquerque, New Mexico. A Chain of Custody was completed at the time the samples were collected.

2.0 Laboratory Analytical Methods

Each soil sample was analyzed for chloride per EPA method 9056A, total petroleum hydrocarbons (TPH) per EPA Method 8015B, and benzene, toluene, ethylbenzene, and xylene (BTEX) per EPA Method 8021B. Samples collected for BTEX analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

3.0 Treatment Zone Monitoring Results

Based on AES's observations of the treatment cells at the time of sample collection, treatment cells #1, #2, and #3 are in use and are being tilled on a frequent basis. Cell #4 is not in use. Chloride concentrations were below the applicable standard of 500 mg/kg in each of the cells. Remaining parameters were below applicable laboratory



detection limits with the exception of TPH ($C_{10} - C_{32}$) in each cell. TPH concentrations ranged from 1,540 mg/Kg (Cell #2) up to 7,100 mg/Kg (Cell #1). AES believes that unusually high concentrations of TPH may be associated with increased contaminant leaching due to an extremely wet winter season. The locations of all samples, as well as analytical results, are presented on Figure 1. Laboratory analytical reports are also attached.

The next monitoring and sampling event is scheduled to be completed during July 2008. If you have any questions regarding the sampling procedures or results, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Chad Dawson Field Geologist

Attachments: Figure 1. Treatment Zone Monitoring Locations Table 1. Soil BTEX and TPH Concentrations Table 2. Soil Chloride Concentrations Hall Environmental Analysis Laboratory Analytical Reports

Files/2008/BMG/Landfarm Sampling/gcbmg 060908





TABLE 1Soil BTEX and TPH ConcentrationsBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

Landfarm	Sample	Sample Location	Sample . Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (ma/ka)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
Cell #1	#1	N 36° 23.371' W 106° 52.031'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #1	#1	N 36° 23.371' W 106° 52.031'	7-Mar-06	,2	<0.025	<0.025	<0.025	<0.10	<10	18	
Cell #1	#1	N 36° 23.355' W 106° 51.998'	16-Feb-07	2.5	<0.025	<0.025	<0.025	<0.10	<10	<10	
Cell #1	#1	N 36° 23.372' W 106° 52.046'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	752	
Cell #1	#1	N 36° 23.365' W 106° 52.030'	16-Aug-07	2.5	<0.025	0.031	<0.025	<0.10	<10	660	·
Cell #1	#1	N 36° 23.367' W 106° 52.021'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #1	#1	N'36° 23.358' W 106° 52.004'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	4,900	2,200
Cell #2	#1	N 36° 23.386' W 106° 52.932'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	
Cell #2	#1	N 36° 23.386' W 106° 52.932'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	52	
Cell #2	#1	N 36° 23.393' W 106° 51.996'	16-Feb-07	2.5	<0.025	<0.025	0.03	<0.10	- <10	<10	
. Cell #2	#1	N 36° 23.416' W 106° 52.003'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #2	#1	N 36° 23.397' W 106° 51.996'	16-Aug-07	2.5 ·	<0.025	<0.025	0.028	<0.10	<10	<10	
Cell #2	#1	N 36° 23.404' W 106° 51.942'	6-Nov-07	2.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #2	#1	N 36° 23,391' W 106° 51.984'	14-Apr-08	2	~~ ~ 0:050	<0:050	<0.050	× <0.10	1,000	540
Cell #3	#1	N 36° 23.351' W 106° 51.882'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	

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TABLE 1Soil BTEX and TPH ConcentrationsBMG Centralized Surface Waste Management FacilityRio Arriba County, New Mexico

Landfarm	Sample I.D.	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)
Cell #3	#1	N 36° 23.351' W 106° 51.882'	7-Mar-06	2	<0.025	<0.025	<0.025	<0.10	<10	NA	
Cell #3	#1	N 36° 23.386' W 106° 51.974'	16-Feb-07	2.5	<0.025	0.034	0.041	<0.10	<10	12	
Cell #3	#1	N 36° 23.359' W 106° 51.865'	22-May-07	3	<0.025	<0.025	<0.025	<0.10	<10	<20	
Cell #3	#1	N 36° 23.340' W 106° 51.574'	16-Aug-07	2.5	<0.025	0.078	0.049	0.18	<10	<10	
Cell #3	#1	N 36° 23.355' W 106° 51.906'	6-Nov-07	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	
Cell #3	* #1 ^{``}	N 36° 23.365' W 106° 51.854'	14-Apr-08	2	<0.050	<0.050	<0.050	<0.10	<5.0	1,200	680
Cell #4	#1	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	

Note** 3/13/06 TPH for Cell #3 was analyzed past the 14 day hold time. Insufficient sample available for extraction with 8015B QC. Blank and sample from BTEX extraction used.

Note** 11/28/07 EPA method 8021B was added to sample Cell #2 after the GRO analysis was completed. The BTEX Analysis for this sample does not have a closing QC standard.

Note** Prior to the April 14, 2008, sampling event TPH-DRO was reported as C10-C36.

TABLE 2

Soil Chloride Concentrations BMG Centralized Surface Waste Management Facility Rio Arriba County, New Mexico

andfarm	Sample	Sample	Sample Denth	Chloride
i.D.	I.D.	Date	(ft)	(mg/kg)
Cell #1	#1	7-Jun-06	2.5	33.7*
Cell #1	#1	22-May-07	3	23.5
Cell #1	#1	16-Aug-07	2.5	47.7
Cell #1	#1	6-Nov-07	2.5	45
: Cell #1		14-Apr-08	2	110
Cell #2	#1	7-Jun-06	2.5	20.4*
Cell #2	#1	22-May-07	3.	17.4
Cell #2	#1	16-Aug-07	2.5	5.34
Cell #2	#1	6-Nov-07	2.5	3.3
Cell #2	Ĩ <u>₩</u> 1,	14-Apr-08	2	2.2
Cell #3	#1	7-Jun-06	2.5	26.3*
Cell #3	#1	22-May-07	3	57.6
Cell #3	#1	16-Aug-07	2.5	2.86
Cell #3	#1	6-Nov-07	2	7.8
Čell #3	<u>`</u> #1:	14-Apr-08	2	26

Note: * = Concentrations reported are in mg/L NA = Not Analyzed

Animas Environmental Services, LLC 041408 Sampling Event

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COVER LETTER

Thursday, April 24, 2008

Lany Cupps Animas Environmental Services 624 East Comanche Farmington, NM 87401

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

RE: BMG Landfarm Sampling

Dear Lany Cupps:

Order No.: 0804216

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 4/17/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109 505.345.3975 ■ Fax 505.345.4107 www.hallenvironmental.com

CLIENT:	Animas Environment	al Services		Clie	nt Sample I	(D: Cell #1	•
Lab Order:	0804216			Co	llection Da	te: 4/14/2008	11:45:00 AM
Project:	BMG Landfarm Sam	pling		D	ate Receive	ed: 4/17/2008	}
Lab ID:	0804216-01				Matr	ix: MEOH (S	OIL)
Analyses		Result	PQL	Qual	Units	DF	. Date Analyzed
EPA METHOD 8	015B: DIESEL RANGE	ORGANICS					Analyst: SCC
Diesel Range Or	ganics (DRO)	4900	100		mg/Kg	10	4/24/2008 6:32:29 AM
Motor Oil Range	Organics (MRO)	2200	500		mg/Kg	10	4/24/2008 6:32:29 AM
Surr: DNOP		302	61.7 -1 35	S	%REC	10	4/24/2008 6:32:29 AM
EPA METHOD 8	015B: GASOLINE RAN	IGE					Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	4/24/2008 2:37:44 AM
Surr: BFB		108	84-138		%REC	1	4/24/2008 2:37:44 AM
EPA METHOD 8	021B: VOLATILES						Analyst: NSB
Benzene		ND	0.050		mg/Kg	1	4/24/2008 2:37:44 AM
Toluene		ND	0.050		mg/Kg	1	4/24/2008 2:37:44 AM
Ethylbenzene		ND	0.050		mg/Kg	1	4/24/2008 2:37:44 AM
Xylenes, Total		ND	0.10		mg/Kg	1	4/24/2008 2:37:44 AM
Surr: 4-Bromot	luorobenzene	93.0	81.4-117		%REC	1	4/24/2008 2:37:44 AM
EPA METHOD 9	056A: ANIONS						Analyst: SLB
Chloride		110	1.5		mg/Kg	5	4/24/2008 10:18:10 AM

Date: 24-Apr-08

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	
	Ε	Value above quantitation range	н	Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits		MCL	Maximum Contaminant Level	
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit	
	S Spike recovery outside accepted recovery limits		_	Page 1 of	3

CLIENT:	Animas Environment	al Services		Client Sample I	D: Cell #2	
Lab Order:	0804216			Collection Dat	te: 4/14/200	8 12:05:00 PM
Project:	BMG Landfarm Sam	oling		Date Receive	d: 4/17/200	8
Lab ID:	0804216-02			Matri	ix: MEOH (SOIL)
Analyses	-	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	3015B: DIESEL RANGE	ORGANICS		<u></u>		Analyst: SCC
Diesel Range O	rganics (DRO)	1000	100	mg/Kg	10	4/24/2008 7:03:55 AM
Motor Oil Range	Organics (MRO)	540	500	mg/Kg	10	4/24/2008 7:03:55 AM
Surr: DNOP	, ,	98.5	61.7-135	%REC	10	4/24/2008 7:03:55 AM
EPA METHOD 8	015B: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0	mg/Kg	1	4/24/2008 3:07:46 AM
Sur: BFB		103	84-138	%REC	1	4/24/2008 3:07:46 AM
EPA METHOD 8	021B: VOLATILES					Analyst: NSB
Benzene		ND	0.050	mg/Kg	1	4/24/2008 3:07:46 AM
Toluene		ND	0.050	mg/Kg	1	4/24/2008 3:07:46 AM
Ethylbenzene		ND	0.050	mg/Kg	1	4/24/2008 3:07:46 AM
Xylenes, Total		ND	0.10	mg/Kg	1	4/24/2008 3:07:46 AM
Surr: 4-Bromo	fluorobenzene	82.3	81.4-117	%REC	1	4/24/2008 3:07:46 AM
EPA METHOD 9	056A: ANIONS					Analyst: SLB
Chloride		2.2	1.5	mg/Kg	5	4/24/2008 10:35:34 AM

Date: 24-Apr-08

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	E	Value above quantitation range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		Page

Page 2 of 3

CLIENT:	Animas Environmen	tal Services		Clie	nt Sample i	ID: Cell #3	
Lab Order:	0804216			Co	llection Da	te: 4/14/2008	12:15:00 PM
Project:	BMG Landfarm San	pling		D	ate Receiv	ed: 4/17/2008	1
Lab ID:	0804216-03	nental Services Client Sample ID: Ceil #3 Sampling Date Received: 4/14/2008 12:15:00 PM Sampling Date Received: 4/17/2008 Matrix: MEOH (SOIL) Metrix: Sampling Result PQL Qual Units DF Date Analyzed NGE ORGANICS Analyst: SCC Analyst: SCC 1200 100 mg/Kg 10 4/24/2008 7:34:30 AM 680 500 mg/Kg 10 4/24/2008 7:34:30 AM 113 61.7-135 %REC 10 4/24/2008 7:34:30 AM RANGE Analyst: NSB ND 5.0 mg/Kg 1 4/24/2008 3:37:57 AM 96.3 84-138 %REC 1 4/24/2008 3:37:57 AM Analyst: NSB ND 0.050 mg/Kg 1 4/24/2008 3:37:57 AM Analyst: NSB ND 0.050 mg/Kg 1 4/24/2008 3:37:57 AM Analyst: NSB ND 0.050 mg/Kg 1 4/24/2008 3:37:57 AM <td< th=""></td<>					
Analyses	·	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS	<u></u>		بەر بەر		Analyst: SCC
Diesel Range O	rganics (DRO)	1200	100		mg/Kg	10	4/24/2008 7:34:30 AM
Motor Oil Range	e Organics (MRO)	680	500		mg/Kg	10	4/24/2008 7:34:30 AM
Surr: DNOP		113	61.7-135		%REC	10	4/24/2008 7:34:30 AM
EPA METHOD	8015B: GASOLINE RAI	4GE					Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	4/24/2008 3:37:57 AM
Surr: BFB		96.3	84-138		%REC	1	4/24/2008 3:37:57 AM
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Benzene		ND	0.050		mg/Kg	1	4/24/2008 3:37:57 AM
Toluene		ND	0.050		mg/Kg	1	4/24/2008 3:37:57 AM
Ethylbenzene		ND	0.050		mg/Kg	. 1	4/24/2008 3:37:57 AM
Xylenes, Total		ND	0.10		mg/Kg	1	4/24/2008 3:37:57 AM
Surr: 4-Bromo	ofluorobenzene	81.3	81.4-117	S	%REC	1	4/24/2008 3:37:57 AM
EPA METHOD 9	056A: ANIONS						Analyst: SLB
Chloride		26	1.5		mg/Kg	5	4/24/2008 10:52:58 AM

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Date: 24-Apr-08

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank	
	Е	Value above quantitation range	н	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level	
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit	• •
	S Spike recovery outside accepted recovery limits			Page 3 o	f 3

QA/QC SUMMARY REPORT

Client: Animas Env	ironmental	Services					Wee	h Oudana 0004016
Froject. Divid Land							wor	KOrder: 0804216
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD R	PDLimit Qual
Method: EPA Method 9056A:	Anions							
Sample ID: MB-15740		MBLK			Batch	D: 15740	Analysis Date:	4/23/2008 9:32:02 PM
Chioride Sample ID: LCS-15740	ND	mg/Kg LCS	0.30		Batch I	D: 15740	Analysis Date:	4/23/2008 9:49:27 PN
Chloride	15.00	mg/Kg	0.30	100	90	110		
Method: EPA Method 8015B: D Sample ID: MB-15702)iesel Range	Organics MBLK			Batch I	D: 15702	Analysis Date:	4/22/2008 3:24:11 PM
Diesel Range Organics (DRO) Motor Oll Range Organics (MRO) Sample ID: LCS-15702	ND ND	mg/Kg mg/Kg LCS	10 50	-	Batch I	D: 15702	Analysis Date:	4/22/2008 3:59:05 PM
Diesel Range Organics (DRO) Sample ID: LCSD-15702	51.14	mg/Kg LCSD	10	102	64.6 Batch II	116 D: 15702	Analysis Date:	4/22/2008 4:34:06 PM
Diesel Range Organics (DRO)	44.94	mg/Kg	10	89.9	64.6	116	12.9 1	7.4
Method: EPA Method 8015B: G	asoline Ran	gə						
Sample ID: 5ML RB		MBLK			Batch II	D: R28224	Analysis Date:	4/23/2008 9:02:53 AM
Gasoline Range Organics (GRO) Sample ID: ,2.5UG GRO LCS	ND	mg/Kg LCS	5.0		Batch II): R28224	Analysis Date:	4/23/2008 11:03:21 AM
Gasoline Range Organics (GRO)	25.98	mg/Kg	5.0	104	69.5	120		
Method: EPA Method 8021B: V Sample ID: 5ML RB	olatiles	MBLK		•	Batch II): R28224	Analysis Date:	4/23/2008 9:02:53 AM
Benzene	ND	mg/Kg	0.050					
Toluene	ND	、mg/Kg	0.050					
Ethylbenzene	ND	mg/Kg	0.050			•		
Xylenes, Total Sample ID: 2.5UG GRO LCS	ND	mg/Kg LCS	0.10		Batch ID	: R28224	Analysis Date:	4/23/2008 11:03:21 AM
Benzene	0.3128	mg/Kg	0.050	112	78.8	132		
Toluene	2.148	mg/Kg	0.050	107	78.9	112		
Ethylbenzene	0.4437	mg/Kg	0.050	111	69.3	125		
Xylenes, Total	2.592	mg/Kg	0.10	113	73	128		

Qualifiers:

- E Value above quantitation range
- 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

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	Sampl	e Receipt Cl	hecklist				
Client Name ANIMAS ENVIRONMENTAL			Date Receive	d:		4/17/2008	
Work Order Number 0804216			Received by	: AMF		/ X	
Charling completed by Aller 1 10 St	inoma in	1	Sample ID la	bels checked	by:		
Signature	NOMIN	Date	0.			0 94618	
Matrix:	Carrier name	Client drop-c	<u>off</u>				
Shipping container/cooler in good condition?		Yes 🗹	No 🗖	Not Present		-	
Custody seals intact on shipping container/coo	ler?	Yes	No 🗖	Not Present		Not Shipped	
Custody seals intact on sample bottles?		Yes 🗹	No 🗌	N/A	D		
Chain of custody present?		Yes 🗹	No 🗍				
Chain of custody signed when relinquished and	f received?	Yes 🗹	No 🗌				
Chain of custody agrees with sample labels?		Yes 🗹					
Samples in proper container/bottle?		Yes 🗹	No 🗔				
Sample containers intact?		Yes 🗹	- No 🗖				
Sufficient sample volume for indicated test?		Yes 🗹	No 🗔				
All samples received within holding time?		Yes 🗹	No 🗔				
Water - VOA vials have zero headspace?	No VOA viais subr	nitted 🗹	Yes 🗌	No 🗌			
Water - Preservation labels on bottle and cap m	natch?	Yes 🗌	No 🗆	N/A 🗹			
Water - pH acceptable upon receipt?		Yes 🗌	No 🗖	N/A 🗹			
Container/Temp Blank temperature?	·	6°	<6° C Acceptable)			
COMMENTS:			If given sufficient t	time to cool.			
					==		
Client contacted	Date contacted:		Perso	n contacted			
Contacted by:	Regarding:						
Comments:							
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Corrective Action			-				
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Address: 124 F. Comanche			BMG- Landfarm Samolina				4901 Hawkins NE - Albuquerque, NM 87109														
Formington DM 87401			Project #:				Tel. 505-345-3975 Fax 505-345-4107														
Phone #: 505-564-2-28			040605				Analysis Request														
email or Fax#: 1000000000000000000000000000000000000			Project Manager:				nly)	Sel)					04)							\square	
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Date	Time	Sample Request ID	Container	Preservative		4	2 +	Vet	Met	Met	(Met	Nd)	s (F	Pes	Š	(Ser	J.			ppl	
Dale			Type and #	Туре	TILALINO.	ЦЩ Ц	ТЕ Х	H	H	B	Ř	5	nion	81	200	22	R			E E	
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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