NM2-4

July 2011 Evaporation pond GW Sampling, Vadose Zone Sampling,

Date 1/4/2012

AES Animas Environmental Services, LLC

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January 4, 2012

Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Results of the July 2011 Evaporation Pond Groundwater Sampling, Treatment Zone Soil Sampling, and Vadose Zone Soil Sampling and Request for Permit Modification for BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

On July 15 and 28, 2011, Animas Environmental Services, LLC (AES) completed 1) evaporation pond quarterly groundwater monitoring and sampling, 2) treatment zone sampling, and 3) vadose zone 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. The Centralized Surface Waste Management Facility is located off of Forest Rd 313 in the NW¼, NW¼ Section 20, T25N, R1E, Rio Arriba County, New Mexico.

1.0 Evaporation Pond Groundwater Monitoring and Sampling

1.0 Site History

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 although 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, the New Mexico Oil Conservation Division (NMOCD) requested that four groundwater monitor 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 in late September 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.

2.0 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed groundwater monitoring and sampling of the evaporation pond monitor wells on July 15 and 28, 2011. Groundwater samples were collected from monitor wells MW-1 through MW-4 and the interstitial well (IW). All samples were analyzed at Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico.

Groundwater samples were collected with new 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 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 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – EPA Method 8015B;
- Chlorides – EPA Method 300.0;
- Total Dissolved Solids (TDS) – Standard Method 2540C; and
- RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) – EPA 6010 and 7470.

2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 12.29 °C (MW-2) to 19.36 °C (IW). Conductivity readings were between 0.867 mS/cm (MW-3) to 184.3 mS/cm (IW). pH readings ranged from 7.08 to 7.44. Groundwater ORP ranged from -100.6 mV (IW) to 152.5 mV (MW-3). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected during the July 2011 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX and, therefore, below applicable New Mexico Water Quality Control Commission (WQCC) standards. All monitor wells also had TPH concentrations below laboratory detection limits, with the exception of the interstitial well, which had a reported concentration of 0.64 mg/L GRO and 13 mg/L DRO.

Concentrations of chloride and TDS were reported above laboratory detection limits in each of the wells sampled but have remained relatively stable. Analytical results for RCRA 8 metals showed that MW-1 through MW-4 were below laboratory detection limits or below applicable standards for each metal analyzed. The interstitial well (IW) had arsenic, barium, and cadmium concentrations above applicable WQCC standards. The results above laboratory detection limits have been summarized as follows:

- TPH-GRO: IW (0.64 mg/L);
- TPH-DRO: IW (13 mg/L);
- Chloride: IW (140,000 mg/L), MW-1 (12 mg/L), MW-2 (29 mg/L), MW-3 (32 mg/L), and MW-4 (15 mg/L);
- TDS: IW (193,000 mg/L), MW-1 (860 mg/L), MW-2 (615 mg/L), MW-3 (670 mg/L), and MW-4 (830 mg/L);
- Arsenic: IW (0.31 mg/L);
- Barium: IW (89 mg/L), MW-1 (0.19 mg/L), MW-2 (0.47 mg/L), MW-3 (0.074 mg/L), and MW-4 (0.093mg/L);
- Cadmium: IW(0.047 mg/L); and
- Chromium: MW-1 (0.014 mg/L), MW-2 (0.034 mg/L), and MW-4 (0.0097 mg/L);
- Lead: MW-1 (0.0090 mg/L) and MW-2 (0.0073 mg/L).

The analytical results for the groundwater samples collected during the July 2011 sampling event are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

3.0 Treatment Zone Monitoring

As required by the NMOCD permit for this facility and specified by NMOCD in correspondence dated June 3, 2011, one composite soil sample consisting of four discrete samples was collected from the treatment zone. The composite sample was composed of one sample from Cell # 1, two samples from Cell # 2, and one sample from Cell # 3. The composite sample was comprised of samples collected in zones which are being tilled on a frequent basis. Cell #4 was not included in the composite sample because it is currently not in use.

A stainless steel hand auger, which was decontaminated between each sampling point to prevent cross-contamination, was used to collect the samples. Once collected, the 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 Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

The composite sample from the treatment zone was analyzed for the following:

- BTEX per USEPA Method 8021B;
- TPH (GRO, MRO, and DRO) per USEPA Method 8015B; and
- Chlorides per USEPA Method 300.0.

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

3.2 Treatment Zone Analytical Results

Based on AES 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. Treatment Cell #4 is not in use and therefore was not sampled. Results are summarized as follows:

- BTEX concentrations were reported below the laboratory detection limit;
- TPH concentrations were reported at 3800 mg/kg DRO and 3,300 mg/kg MRO;
- The chloride concentration was reported at 8.8 mg/kg, which is below the applicable NMOCD threshold of 500 mg/kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented in Table 4 and on Figure 2. Laboratory reports are presented in Appendix A.

4.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility and specified in NMOCD correspondence dated June 3, 2011, one random sample was collected for laboratory analysis from each individual cell (Cells #1 through #4) at 3.5 feet below the native ground surface. 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. A Chain of Custody was completed at the time the samples were collected.

4.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- Volatile organic compounds (VOCs) USEPA Method 8260B;
- TPH (GRO, MRO, and DRO) per USEPA Method 8015B; and
- Major cations and anions (including chloride, fluoride, nitrate as nitrogen, and sulfate) per USEPA Method 300.0;
- Metals (including As, Ba, Cd, Cr, Pb, Hg, Se, Ag, U, Cu, Fe, Mn, Zn, Mg, Na, K, and Ca) per USEPA Methods 6010, 6020, and 7471;
- PCBs per USEPA Method 8082;
- Polynuclear aromatic hydrocarbons (PAHs) (including benzo-pyrene and phenols) per USEPA Method 8270C;
- Cyanide per USEPA Method 335.4;
- Radioactivity (Radium-226 and Radium-228) per USEPA Method 901.1m;
- pH; and
- Specific conductivity

The above sampling suite meets the five year monitoring program for constituents listed in Subsections A and B of New Mexico Administrative Code (NMAC) 20.6.2.3103. Samples for VOC analysis were field-preserved with methanol at the time of collection with materials and equipment supplied by the analytical laboratory.

4.2 Vadose Zone Analytical Results

Soil samples collected from the vadose zone within the four treatment cells are summarized as follows:

- VOCs - below laboratory detection limits in each cell;
- TPH - below the laboratory detection limits in Cell #3 and Cell #4. Cell #1 - 94 mg/kg (DRO and MRO), and Cell #2 - 21 mg/kg (DRO and MRO);
- Chloride - Cell #1 (15 mg/kg) and Cell #3 (6.3 mg/kg);
- Fluoride - Cell #1 (2.9 mg/kg), Cell #3 (3.1 mg/kg), and Cell #4 (5.3 mg/kg);
- Nitrate as N – Cell #1 (3.3 mg/kg) and Cell #3 (0.39 mg/kg);
- Sulfate – Cell #1 (7.9 mg/kg), Cell #2 (9.9 mg/kg), Cell #3 (350 mg/kg), and Cell #4 (10 mg/kg);
- Calcium - ranged from 5,600 mg/kg (Cell #1) to 8,900 mg/kg (Cell #2);
- Magnesium – ranged from 1,800 mg/kg (Cell #2) to 3,500 mg/kg (Cell #1);
- Potassium - ranged from 820 mg/kg (Cell #2) to 2,400 mg/kg (Cell #1);

- Sodium - below the laboratory detection limit of 250 mg/kg in each cell;
- Arsenic, cadmium, mercury, selenium, silver, and uranium - below the laboratory detection limits in each sample;
- Barium – ranged from 92 mg/kg (Cell #4) to 150 mg/kg (Cell #1);
- Chromium - Cell #1 (16 mg/kg), Cell #2 (7.6 mg/kg), Cell #3 (15 mg/kg), and Cell #4 (15 mg/kg);
- Copper - ranged from 6.4 mg/kg (Cell #2) and 12 mg/kg (Cell #1 and #4);
- Iron concentrations were reported in Cell #1 (19,000 mg/kg), Cell #2 (12,000 mg/kg), Cell #3 (19,000 mg/kg), and Cell #4 (18,000 mg/kg);
- Lead - ranged from 5.4 mg/kg (Cell #2) to 9.1 mg/kg (Cell #1);
- Manganese - ranged from 240 mg/kg (Cell #4) to 410 mg/kg (Cell #1);
- Zinc - Cell #1(55 mg/kg), Cell #2 (28 mg/kg), Cell #3 (48 mg/kg), and Cell #4 (41 mg/kg);
- PAHs including benzo-pyrene and phenols –below laboratory detection limits in all four cells; and
- Radioactivity (combined Radium-226 and Radium-228) - Cell #1 (2.352 Pci/g), Cell #2 (1.788 Pci/g), Cell #3 (2.290 Pci/g), and Cell #4 (2.590 Pci/g).

The locations of all samples, as well as analytical results (BTEX, TPH, and chlorides) are presented on Figure 3. Laboratory analytical results are summarized in Tables 5 through 9, and laboratory reports are presented in Appendix A.

5.0 Permit Modification Request

5.1 Treatment Zone

BMG proposes a modification request to update the original permit to include the following regarding treatment zone monitoring:

- *The operator shall spread contaminated soils on the surface in eight-inch or less lifts or approximately 1,000 cubic yards per acre per eight-inch lift.* (See 19.15.36.15.DNMAC);
- *TPH concentration of each lift, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed 2500 mg/kg.* (See 19.15.36.15.D NMAC).
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5.2 Vadose Zone

In addition, BMG proposes a modification request to update the original permit to include the following vadose zone monitoring:

- *The operator shall take vadose zone samples from soils between three and four feet below the cell's original ground surface.* (See 19.15.13.15.E(1) NMAC);
- *The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone at least semi-annually.* (See 19.15.36.15.E(2) NMAC).

6.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling, along with landfarm sampling, at the BMG Surface Waste Management Facility in July 2011. Based on the results of the July 2011 sampling event, groundwater analytical results from monitor wells MW-1 through MW-4 (located around the Evaporation Pond) were below laboratory detection limits for BTEX and TPH.

Groundwater samples from the interstitial well (IW) also had concentrations below laboratory detection limits for BTEX. The interstitial well (IW) had reported concentrations above laboratory detection limits for TPH-GRO (0.64 mg/L), TPH-DRO (13 mg/L), chloride (140,000 mg/L), and TDS (193,000 mg/L). Metals reported above applicable WQCC standards include arsenic (0.31 mg/L), barium (89 mg/L), and cadmium (0.047 mg/L).

The treatment zone composite sample showed that BTEX concentrations were reported below laboratory detection limits and the NMOCD Rule 36 Threshold for BTEX (50 mg/kg) and benzene (10 mg/kg). The total TPH concentration was reported at 7,100 mg/kg.

Results from vadose zone sampling included quarterly sampling for BTEX, TPH, and chlorides, annual sampling for major cations and anions, and five year monitoring per constituents listed in Subsections A and B of 20.6.2.3103 NMAC. BTEX concentrations were below laboratory detection limits in all cells sampled, and TPH results from all four cells remained below laboratory detection limits. Chloride concentrations above the laboratory detection limit were reported in Cell #1 (45 mg/kg) and Cell #3 (7.9 mg/kg). All cells remained below the NMOCD threshold of 500 mg/kg for chloride. Results from the annual and five year monitoring event will be used to determine whether a release has occurred at the site in the future.

AES has scheduled the next semi-annual sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils to occur in January 2012.

If you have any questions regarding the site conditions, sampling results, or the request for permit modifications, please do not hesitate to contact Elizabeth McNally or Ross Kennemer at (505) 564-2281.

Sincerely,

Deborah Watson
Project Manager

Elizabeth McNally, PE

Attachments:

Tables

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Figure 2. Treatment Zone Monitoring Locations and Contaminant Concentrations, July 2011
Figure 3. Vadose Zone Monitoring Locations and Contaminant Concentrations, July 2011

Appendices

Appendix A. Water Sample Collection Forms
Laboratory Analytical Reports

cc: Mike Dimond
Benson-Montin-Greer Drilling Corp.
4900 College Blvd
Farmington NM 87402

Brandon Powell
NM Oil Conservation Division
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Aztec, NM 87410

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TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (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	19.01	183.7	0.98	6.11	-35.7
Interstitial Well	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
Interstitial Well	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
Interstitial Well	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
Interstitial Well	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
Interstitial Well	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
Interstitial Well	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
Interstitial Well	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
Interstitial Well	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
Interstitial Well	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
Interstitial Well	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
Interstitial Well	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
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	12.33	0.978	NM	6.65	45.2
MW-1	30-Dec-08	TBS	38.46	11.80	1.287	NM	6.08	43.6
MW-1	25-Mar-09	TBS	38.60	11.55	1.161	4.36	6.91	20.6
MW-1	15-Jun-09	TBS	38.71	13.09	0.820	3.08	6.99	106.8
MW-1	16-Sep-09	TBS	38.91	11.88	1.669	3.08	7.06	47.1
MW-1	11-Jan-10	TBS	39.06	11.57	0.769	3.46	7.19	48.1
MW-1	16-Apr-10	TBS	39.16	11.95	1.036	4.47	7.52	NM
MW-1	8-Jul-10	TBS	39.22	15.25	0.642	4.16	7.23	205.8
MW-1	12-Oct-10	TBS	39.32	12.16	0.892	3.66	7.33	142.8
MW-1	19-Jan-11	TBS	39.42	11.22	0.924	3.51	7.81	110.4
MW-1	28-Apr-11	TBS	39.51	12.80	0.901	4.07	NM	NM
MW-1	15-Jul-11	TBS	39.59	12.80	0.945	NM	7.08	175.8
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-2	30-Dec-08	TBS	39.52	11.11	0.995	NM	5.66	51.7
MW-2	25-Mar-09	TBS	39.64	10.94	1.129	4.11	7.50	29.6
MW-2	15-Jun-09	TBS	39.77	12.77	1.057	4.51	7.39	16.8

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Measured	Top of Casing Elevation (ft amsl)	Depth to Water (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	16-Sep-09	TBS	39.97	11.26	1.494	3.62	7.32	31.3
MW-2	11-Jan-10	TBS	40.13	10.90	0.684	3.32	7.32	30.5
MW-2	16-Apr-10	TBS	40.22	11.70	0.869	4.51	7.50	NM
MW-2	8-Jul-10	TBS	40.28	11.95	0.729	4.73	7.38	152.0
MW-2	12-Oct-10	TBS	40.38	12.81	0.928	4.13	7.87	68.7
MW-2	19-Jan-11	TBS	40.49	10.51	0.888	3.22	7.96	122.7
MW-2	28-Apr-11	TBS	40.57	12.49	0.902	NM	NM	NM
MW-2	29-Jul-11	TBS	40.68	12.29	0.908	NM	7.44	90.7
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	TBS	38.61	12.60	0.837	NM	6.60	55.2
MW-3	30-Dec-08	TBS	38.77	11.38	0.975	NM	6.76	19.9
MW-3	25-Mar-09	TBS	38.87	11.54	1.046	6.32	7.46	29.2
MW-3	15-Jun-09	TBS	39.01	12.87	0.909	3.28	7.24	60.9
MW-3	16-Sep-09	TBS	39.21	12.26	1.421	4.87	7.34	35.8
MW-3	11-Jan-10	TBS	39.37	11.61	0.669	4.78	7.40	45.9
MW-3	16-Apr-10	TBS	39.44	12.65	0.845	4.86	7.19	NM
MW-3	8-Jul-10	TBS	39.51	12.48	0.695	7.18	7.41	168.5
MW-3	12-Oct-10	TBS	39.61	12.85	0.834	3.86	7.59	130.8
MW-3	19-Jan-11	TBS	39.71	10.94	0.870	5.11	7.78	132.8
MW-3	28-Apr-11	TBS	39.80	14.60	0.874	NM	NM	NM
MW-3	15-Jul-11	TBS	39.89	12.62	0.867	NM	7.22	152.5
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
MW-4	9-Oct-08	TBS	39.10	12.25	0.904	NM	6.58	53.8
MW-4	30-Dec-08	TBS	39.25	11.18	1.097	NM	6.73	25.9
MW-4	25-Mar-09	TBS	39.38	11.55	1.068	5.53	6.72	29.8
MW-4	15-Jun-09	TBS	39.51	12.53	0.809	3.84	7.10	97.0
MW-4	16-Sep-09	TBS	39.72	12.31	1.731	4.65	7.22	51.3
MW-4	11-Jan-10	TBS	39.86	11.89	0.856	6.47	7.38	43.5
MW-4	16-Apr-10	TBS	39.94	12.59	0.952	5.27	7.48	NM
MW-4	8-Jul-10	TBS	40.01	12.77	0.807	7.53	7.17	149.1
MW-4	12-Oct-10	TBS	40.12	12.84	0.963	5.04	7.28	162.5
MW-4	19-Jan-11	TBS	40.23	11.66	0.997	6.95	7.65	53.4
MW-4	28-Apr-11	TBS	40.30	12.37	0.966	4.63	NM	NM
MW-4	15-Jul-11	TBS	40.41	13.65	0.992	NM	7.20	126.7

NM - Not Measured

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	*Date Measured*	*Top of Casing Elevation (ft amsl)*	*Depth to Water (ft)*	*Temp. (˚C)*	*Specific Conduct. (mS)*	*Dissolved Oxygen (mg/L)*	*pH*	*ORP (mV)*

TBS - To Be Surveyed

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	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 Well	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
Interstitial Well	30-Dec-08	NOT SAMPLED - LOW YIELD								
Interstitial Well	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
Interstitial Well	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
Interstitial Well	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
Interstitial Well	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
Interstitial Well	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
Interstitial Well	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
Interstitial Well	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
Interstitial Well	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
Interstitial Well	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
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
MW-1	09-Oct-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	42	660
MW-1	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	51	730
MW-1	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	660
MW-1	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	780
MW-1	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	650
MW-1	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	710

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-1	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	17	656
MW-1	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	615
MW-1	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	15	643
MW-1	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	13	665
MW-1	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	13	705
MW-1	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	860
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	<1.0	<2.0	<0.050	<1.0	<5.0	35	550
MW-2	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	590
MW-2	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	540
MW-2	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	750
MW-2	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	590
MW-2	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	598
MW-2	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	616
MW-2	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	595
MW-2	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	615
MW-2	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	750
MW-2	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	40	790
MW-2	28-Jul-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	29	615
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	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	36	800

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-3	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	37	560
MW-3	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	490
MW-3	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	32	650
MW-3	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	33	580
MW-3	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	615
MW-3	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	31	552
MW-3	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	28	567
MW-3	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	567
MW-3	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	27	630
MW-3	28-Apr-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	31	660
MW-3	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	670
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	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	34	760
MW-4	30-Dec-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	650
MW-4	25-Mar-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	650
MW-4	15-Jun-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	1,000
MW-4	16-Sep-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	720
MW-4	11-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	664
MW-4	16-Apr-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	18	674
MW-4	08-Jul-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	700
MW-4	12-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	22	865
MW-4	19-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	690
MW-4	28-Apr-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	19	684

TABLE 2
Summary of Groundwater Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	GRO (mg/L)	DRO (mg/L)	MRO (mg/L)	Chlorides (mg/L)	TDS (mg/L)
Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	NE	NE
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830

NOTE: NE = Not Established

Note* December 30, 2008, samples were analyzed past the holding times for 8015B Diesel and TDS.
**** March 25, 2009 Interstitial Well sample was reanalyzed past the holding time for TDS.**

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio 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)
Analytical 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
Interstitial Well	16-Sep-09	0.094	**74**	<0.0050	<0.010	**0.37**	<0.00020	<0.10	<0.010
Interstitial Well	11-Jan-10	NA	NA	NA	<0.060	<0.050	NA	NA	NA
Interstitial Well	16-Apr-10	NA	NA	NA	<0.12	<0.10	NA	NA	NA
Interstitial Well	8-Jul-10	<0.50	**110**	**0.075**	<0.15	<0.13	<0.00020	<1.3	<0.13
Interstitial Well	12-Oct-10	NA	NA	NA	<0.30	<0.25	NA	NA	NA
Interstitial Well	15-Jul-11	**0.31**	**89**	**0.047**	<0.060	<0.050	<0.00020	<0.50	<0.050
MW- 1	21-Jul-08	<0.020	0.17	<0.0020	<0.0060	0.0079	<0.00020	<0.050	<0.0050
MW- 1	16-Sep-09	0.020	0.93	<0.0050	**0.067**	0.0450	<0.00020	<0.020	<0.010
MW- 1	11-Jan-10	NA	NA	NA	0.019	<0.0050	NA	NA	NA
MW- 1	16-Apr-10	NA	NA	NA	0.012	0.0070	NA	NA	NA
MW- 1	8-Jul-10	<0.020	0.13	<0.0020	0.0084	<0.0050	<0.00020	<0.050	<0.0050
MW- 1	12-Oct-10	NA	NA	NA	<0.0060	0.0055	NA	NA	NA
MW- 1	15-Jul-11	<0.020	0.19	<0.0020	0.014	<0.0050	<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-2	16-Sep-09	<0.020	0.48	<0.0050	0.048	0.026	<0.00020	<0.020	<0.010
MW-2	11-Jan-10	NA	NA	NA	0.039	0.0066	NA	NA	NA
MW-2	16-Apr-10	NA	NA	NA	<0.0060	<0.0050	NA	NA	NA
MW-2	8-Jul-10	<0.020	0.28	<0.0020	0.025	<0.0050	<0.00020	<0.050	<0.0050
MW-2	12-Oct-10	NA	NA	NA	<0.0060	0.0078	NA	NA	NA
MW-2	28-Jul-11	<0.020	0.47	<0.0020	0.034	0.0090	<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-3	16-Sep-09	<0.020	0.40	<0.0050	0.045	0.026	<0.00020	<0.020	<0.010
MW-3	11-Jan-10	NA	NA	NA	0.025	<0.0050	NA	NA	NA
MW-3	16-Apr-10	NA	NA	NA	0.010	<0.0050	NA	NA	NA
MW-3	8-Jul-10	<0.020	0.28	<0.0020	0.028	0.0065	<0.00020	<0.050	<0.0050
MW-3	12-Oct-10	NA	NA	NA	<0.0060	0.0073	NA	NA	NA
MW-3	15-Jul-11	<0.020	0.074	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050

TABLE 3
Summary of Groundwater Metals Analytical Results
BMG Centralized Surface Waste Management Facility
Rio 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)
Analytical 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*
MW-4	21-Jul-08	<0.020	0.34	<0.0020	<0.0060	0.0078	<0.00020	<0.050	<0.0050
MW-4	16-Sep-09	0.024	0.68	<0.0050	**0.10**	**0.052**	<0.00020	<0.020	<0.010
MW-4	11-Jan-10	NA	NA	NA	0.0089	<0.0050	NA	NA	NA
MW-4	16-Apr-10	NA	NA	NA	0.0079	<0.0050	NA	NA	NA
MW-4	8-Jul-10	<0.020	0.16	<0.0020	0.019	<0.0050	<0.00020	<0.050	<0.0050
MW-4	12-Oct-10	NA	NA	NA	<0.0060	0.0079	NA	NA	NA
MW-4	15-Jul-11	<0.020	0.093	<0.0020	0.0097	<0.0050	<0.00020	<0.050	<0.0050

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)

TABLE 4
Treatment Zone Soil BTEX, TPH, and Chloride Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Composite Sample Locations	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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021B				8015			300
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100/2500			500
Treatment Zone	#1	1)N 36° 23.383' W 106° 52.054' 2)N 36° 23.376' W 106° 51.943' 3)N 36° 23.341' W 106° 51.881' 4)N 36° 23.403' W 106° 52.002'	28-Jul-11	0.5	<1.0	<1.0	<1.0	<2.0	<100	**3,800**	**3,300**	8.8

*** = Samples were analyzed by per EPA Method 8260B**

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	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)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100		
Cell #1	#1	N 36° 23.376' W 106° 52.059'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	69
Cell #1	#1	N 36° 23.331' W 106° 51.948'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	36	74
Cell #1	#1	N 36° 23.380' W 106° 52.067'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	160	300
Cell #1	#1	N 36° 23.356' W 106° 51.999'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	91	140
Cell #1	#1	N 36° 23.329' W 106° 51.937'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.379' W 106° 52.064'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1	#1	N 36° 23.353' W 106° 51.999'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	6.7	<10	<50
Cell #1	#1	N 36° 23.372' W 106° 52.051'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	22	50
Cell #1	#1	N 36° 23.336' W 106° 51.954'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #1 Vadose Zone	VZ-1	N 36° 23.357' W 106° 52.007'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	34	60
Cell #2	#2	N 36° 23.372' W 106° 51.952'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	120	160

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	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)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #2	#2	N 36° 23.426' W 106° 52.013'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.404' W 106° 52.004'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.422' W 106° 52.003'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.397' W 106° 51.975'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	110	310
Cell #2	#2	N 36° 23.404' W 106° 52.012'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.403' W 106° 51.943'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	28	63
Cell #2	#2	N 36° 23.405' W 106° 52.011'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2	#2	N 36° 23.384' W 106° 51.933'	28-Apr-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #2 Vadose Zone	VZ-2	N 36° 23.413' W 106° 51.982'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	21	<51
Cell #3	#3	N 36° 23.330' W 106° 51.868'	25-Mar-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.367' W 106° 51.843'	15-Jun-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.355' W 106° 51.869'	11-Sep-09	2	<0.050	<0.050	<0.050	<0.10	<5.0	14	51

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	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)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		
Cell #3	#3	N 36° 23.353' W 106° 51.911'	11-Jan-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.349' W 106° 51.873'	16-Apr-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.354' W 106° 51.908'	8-Jul-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.353' W 106° 51.855'	12-Oct-10	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.352' W 106° 51.911'	19-Jan-11	2	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #3	#3	N 36° 23.351' W 106° 51.866'	28-Apr-11	2	<0.25	<0.25	<0.25	<0.50	<25	3,400	5,300
Cell #3 Vadose Zone	VZ-3	N 36° 23.358' W 106° 51.860'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50
Cell #4	#4	N 36° 23.363' W 106° 51.784'	21-Jun-04	2	<0.025	<0.025	<0.025	<0.050	<20	NA	-
Cell #4 Vadose Zone	VZ-4	N 36° 23.358' W 106° 51.787'	28-Jul-11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49

*** = 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.**

TABLE 5
Vadose Zone Soil BTEX and TPH Analytical Results
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm ID	Sample ID	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)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B		

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 6
Vadose Zone Soil Summary of Major Cations/Anions
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Land Farm ID	Sample ID	Sample Date	Sample Depth (ft)	pH	Spec. Cond. (umhos/cm)	Fluoride (mg/kg)	Chloride (mg/kg)	Nitrate as N (mg/kg)	Sulfate as SO_4 (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Potassium (mg/kg)	Sodium (mg/kg)
Cell #1	#1	7-Jun-06	2.5	7.7	42.8	NA	33.7*	NA	13.2	2,780	1,340	NA	<50
Cell #1	#1	22-May-07	3	7.37	NA	4.26*	23.5	NA	20.3*	8,000	2,820	2,460	64
Cell #1	#1	21-Jul-08	2	7.67	360	<1.5*	8	NA	8.8*	NA	NA	NA	NA
Cell #1	#1	11-Sep-09	2	7.65	370	<1.5	10	NA	23	3,000	1,300	860	<25
Cell #1	#1	8-Jul-10	2	8.43	380	<3.0	<15	NA	<15	2,500	1,900	1,300	<130
Cell #1 Vadose	VZ-1	28-Jul-11	3.5	8.32	983	2.9	15	3.3	7.9	5,600	3,500	2,400	<250
Cell #2	#2	7-Jun-06	2.5	7.7	64.1	NA	20.4*	NA	9.31	1,950	979	NA	<50
Cell #2	#2	22-May-07	3	7.59	NA	4.94*	17.4	NA	19.9*	6,690	2,230	1,650	64
Cell #2	#2	21-Jul-08	2	7.97	650	2.4*	14	NA	130*	NA	NA	NA	NA
Cell #2	#2	11-Sep-09	2	7.67	150	<1.5	8.9	NA	26	940	710	470	<25
Cell #2	#2	8-Jul-10	2	8.37	330	<3.0	<15	NA	73	2,200	1,300	820	<130
Cell #2 Vadose	VZ-2	28-Jul-11	3.5	8.63	831	<1.5	<7.5	<1.5	9.9	8,900	1,800	820	<250
Cell #3	#3	7-Jun-06	2.5	9.1	54.2	2.92	26.3*	NA	23.5	2,140	1,110	NA	<50
Cell #3	#3	22-May-07	3	7.30	NA	5.01*	57.6	NA	45.2*	5,570	2,660	2,620	70
Cell #3	#3	21-Jul-08	2	7.53	1,200	<1.5*	2.86	NA	2,200*	NA	NA	NA	NA
Cell #3	#3	11-Sep-09	2	7.32	870	<1.5	28	NA	140	3,000	2,400	2400	76
Cell #3	#3	8-Jul-10	2	8.29	330	<3.0	<15	NA	<15	2,000	1,400	1,000	<130
Cell #3 Vadose	VZ-3	28-Jul-11	3.5	8.04	2,730	3.1	6.3	0.39	350	8,000	3,100	2,100	<250
Cell #4 Vadose	VZ-4	28-Jul-11	3.5	8.39	972	5.3	<7.5	<1.5	10	7,000	2,300	1,500	<250

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

TABLE 7

Vadose Zone Soil Summary of Metals

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Land Farm ID	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Cyanide (mg/kg)	Iron (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Uranium (mg/kg)	Zinc (mg/kg)
Cell #1	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #1	22-May-07	5.4	169	0.26	33.9	NA	NA	NA	<0.033	11.90	NA	<4.0	<0.50	NA	NA
Cell #1	21-Jul-08	<12	81	<0.50	7.4	NA	NA	NA	<0.033	5.2	NA	<12	<1.2	NA	NA
Cell #1	11-Sep-09	2.0	50	0.27	5.9	NA	NA	NA	<0.020	3.5	NA	<1.0	<0.50	NA	NA
Cell #1	8-Jul-10	<13	77	<0.50	7.3	NA	NA	NA	<0.033	3.9	NA	<13	<1.3	NA	NA
Cell #1 Vadose Zone	28-Jul-11	<25	150	<1.0	16	12	<0.3	19,000	<0.033	9.1	410	<25	<2.5	<50	55
Cell #2	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #2	22-May-07	5.3	171	0.34	54.5	NA	NA	NA	<0.033	10.60	NA	<4.0	<0.50	NA	NA
Cell #2	21-Jul-08	<12	92	<0.50	9.2	NA	NA	NA	<0.033	7.3	NA	<12	<1.2	NA	NA
Cell #2	11-Sep-09	1.9	48	<0.25	3.8	NA	NA	NA	<0.020	2.8	NA	<1.0	<0.50	NA	NA
Cell #2	8-Jul-10	<13	95	<0.50	5.6	NA	NA	NA	<0.033	3.5	NA	<13	<1.3	NA	NA
Cell #2 Vadose Zone	28-Jul-11	<13	110	<0.50	7.6	6.4	<0.3	12,000	<0.033	5.4	280	<13	<1.3	<25	28
Cell #3	7-Jun-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cell #3	22-May-07	4.9	181	0.37	36.9	NA	NA	NA	<0.033	13.90	NA	<4.0	<0.50	NA	NA
Cell #3	21-Jul-08	<12	77	<0.50	7.2	NA	NA	NA	0.033	11	NA	<12	<1.2	NA	NA
Cell #3	11-Sep-09	2.6	120	0.48	14	NA	NA	NA	<0.020	6.9	NA	<1.0	<0.50	NA	NA
Cell #3	8-Jul-10	<13	91	<0.50	6.2	NA	NA	NA	<0.033	3.7	NA	<13	<1.3	NA	NA
Cell #3 Vadose Zone	28-Jul-11	<13	97	<0.50	15	11	<0.3	19,000	<0.033	6.4	340	<13	<1.3	<25	48

TABLE 7
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Land Farm ID	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Cyanide (mg/kg)	Iron (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Manganese (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Uranium (mg/kg)	Zinc (mg/kg)
Cell #4 Vadose Zone	28-Jul-11	<13	92	<0.50	15	12	<0.3	18,000	<0.033	6.0	240	<13	<1.3	<25	41

TABLE 8

Vadose Zone Soil Volatile Organic Compound Analytical Results

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	Sample Date	EDC (mg/kg)	EDB (mg/kg)	Total Naphthalenes (mg/kg)	Carbon Tetrachloride (mg/kg)	Chloroform (mg/kg)	1,1-dichloroethane (mg/kg)	1,1-DCE (mg/kg)	Methylene Chloride (mg/kg)	1,1,2,2-tetrachloroethane (mg/kg)	PCE (mg/kg)	1,1,1-trichloroethane (mg/kg)	1,1,2-trichloroethane (mg/kg)	TCE (mg/kg)	Vinyl Chloride (mg/kg)
Cell #1 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10
Cell #2 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #3 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #4 Vadose Zone	28-Jul-11	<0.050	<0.050	<0.50	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

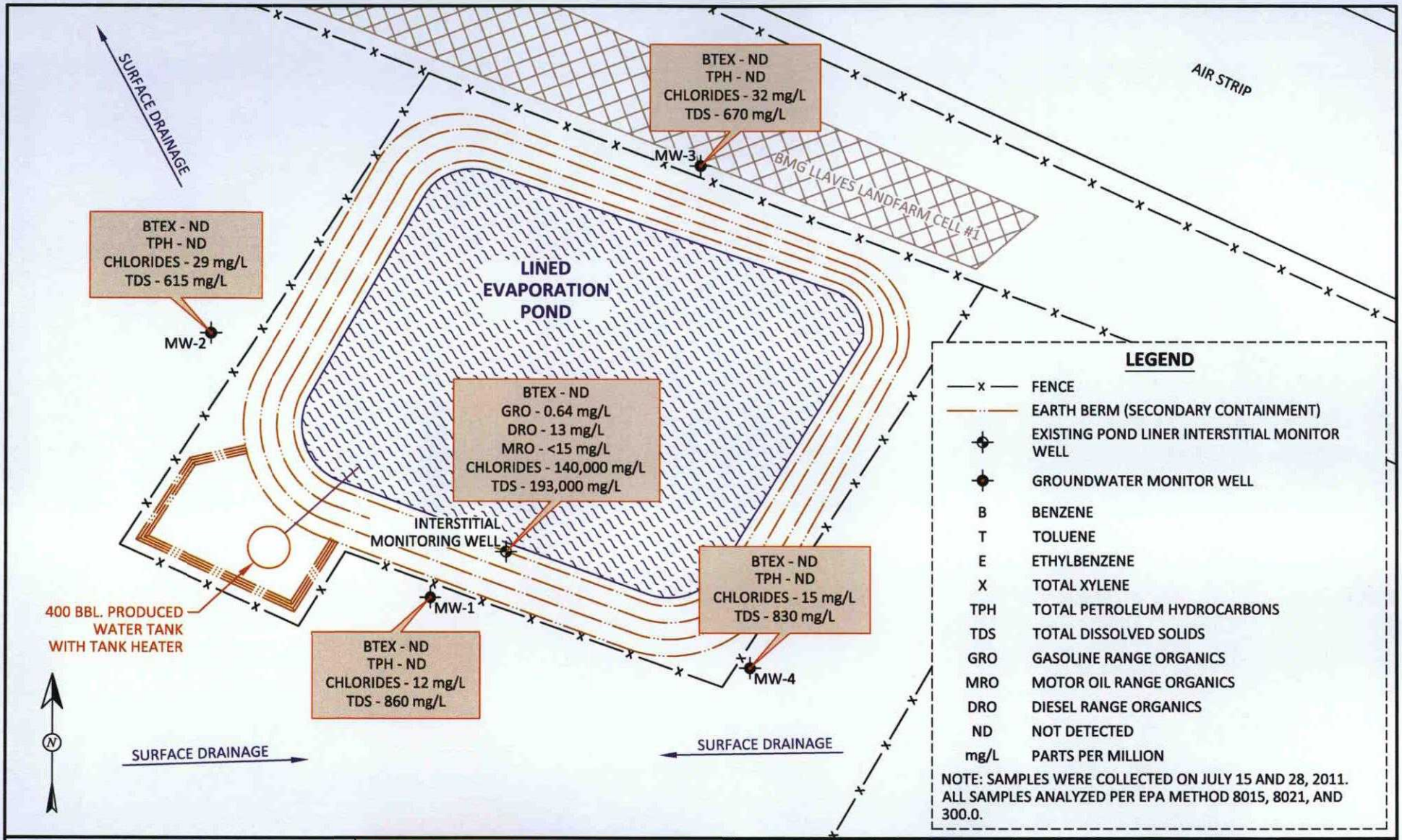
TABLE 9

Vadose Zone Soil 8270, PCBs, and Radioactivity Analytical Results

BMG Centralized Surface Waste Management Facility

Rio Arriba County, New Mexico

Landfarm ID	Sample ID	Sample Date	Sample Depth (ft)	Benzo(a) pyrene (mg/kg)	Phenol (mg/kg)	PCBs (mg/kg)	Radioactivity	
							Radium-226 (Pci/g)	Radium-228 (Pci/g)
				8270C	8270C	8082	901.1m	
Cell #1 Vadose Zone	VZ-1	28-Jul-11	3.5	<0.20	<0.20	<0.14	0.962	1.39
Cell #2 Vadose Zone	VZ-2	28-Jul-11	3.5	<0.050	<0.050	<0.50	0.728	1.06
Cell #3 Vadose Zone	VZ-3	28-Jul-11	3.5	<0.050	<0.050	<0.50	1.06	1.23
Cell #4 Vadose Zone	VZ-4	28-Jul-11	3.5	<0.050	<0.050	<0.50	1.26	1.33



SCALE
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10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** January 4, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** January 5, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** January 5, 2012

FIGURE 1

BENSON-MONTIN-GREER
LOCATION OF BMG EVAPORATION POND AND MONITORING WELLS AND CONTAMINANT CONCENTRATIONS, JULY 2011
NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

SUMMARY OF SEMI-ANNUAL TREATMENT ZONE MONITORING JULY 2011

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
07/28/11	<1.0	<1.0	<1.0	<2.0	<100	3,800	3,300	8.8

TREATMENT ZONE MONITORING LOCATIONS JULY 2011

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft.)
TZ-1	N 36°23.383' W 106°52.054'	0.5
TZ-2	N 36°23.376' W 106°51.943'	0.5
TZ-3	N 36°23.341' W 106°51.881'	0.5
TZ-4	N 36°23.403' W 106°52.002'	0.5

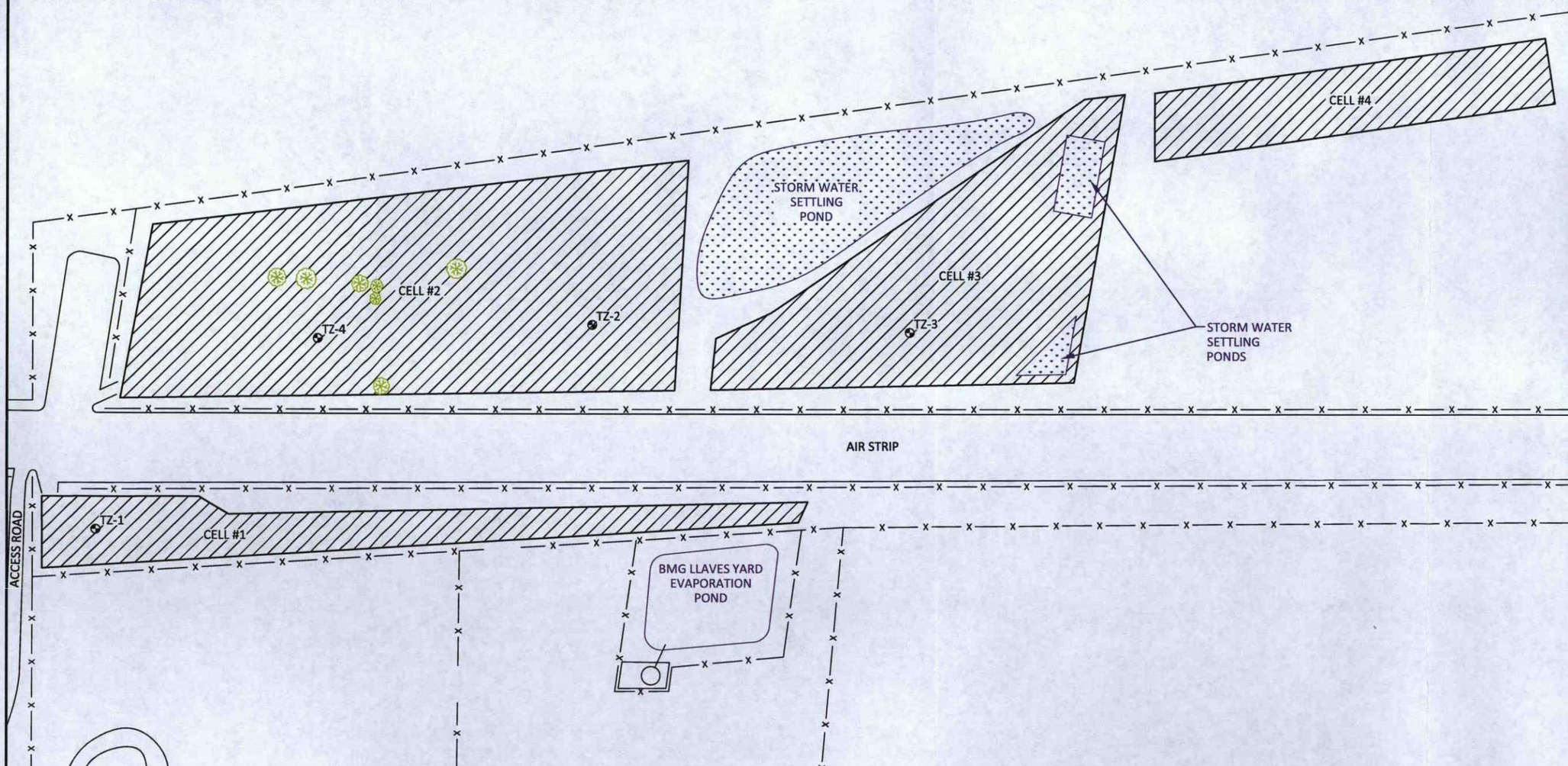

FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, JULY 2011
NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	April 11, 2011
REVISIONS BY:	**DATE REVISED:**
C. Lameman	January 4, 2012
CHECKED BY:	**DATE CHECKED:**
D. Watson	January 4, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	January 4, 2012

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

SUMMARY OF SEMI-ANNUAL VADOSE ZONE MONITORING JULY 2011

LANDFARM ID	SAMPLE ID	SAMPLE LOCATION	SAMPLE DATE	SAMPLE DEPTH (ft.)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH (GRO, DRO, AND MRO)			Chloride (mg/kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	VZ-1	N 36°23.357' W 106°52.007'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	34	60	15
CELL #2	VZ-2	N 36°23.413' W 106°51.982'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	21	<51	<7.5
CELL #3	VZ-3	N 36°23.358' W 106°51.860'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	6.3
CELL #4	VZ-4	N 36°23.358' W 106°51.787'	07/28/11	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49	<7.5

VADOSE ZONE SAMPLES WERE COLLECTED BETWEEN 3ft. TO 4ft. BELOW NATIVE SOIL SURFACE.

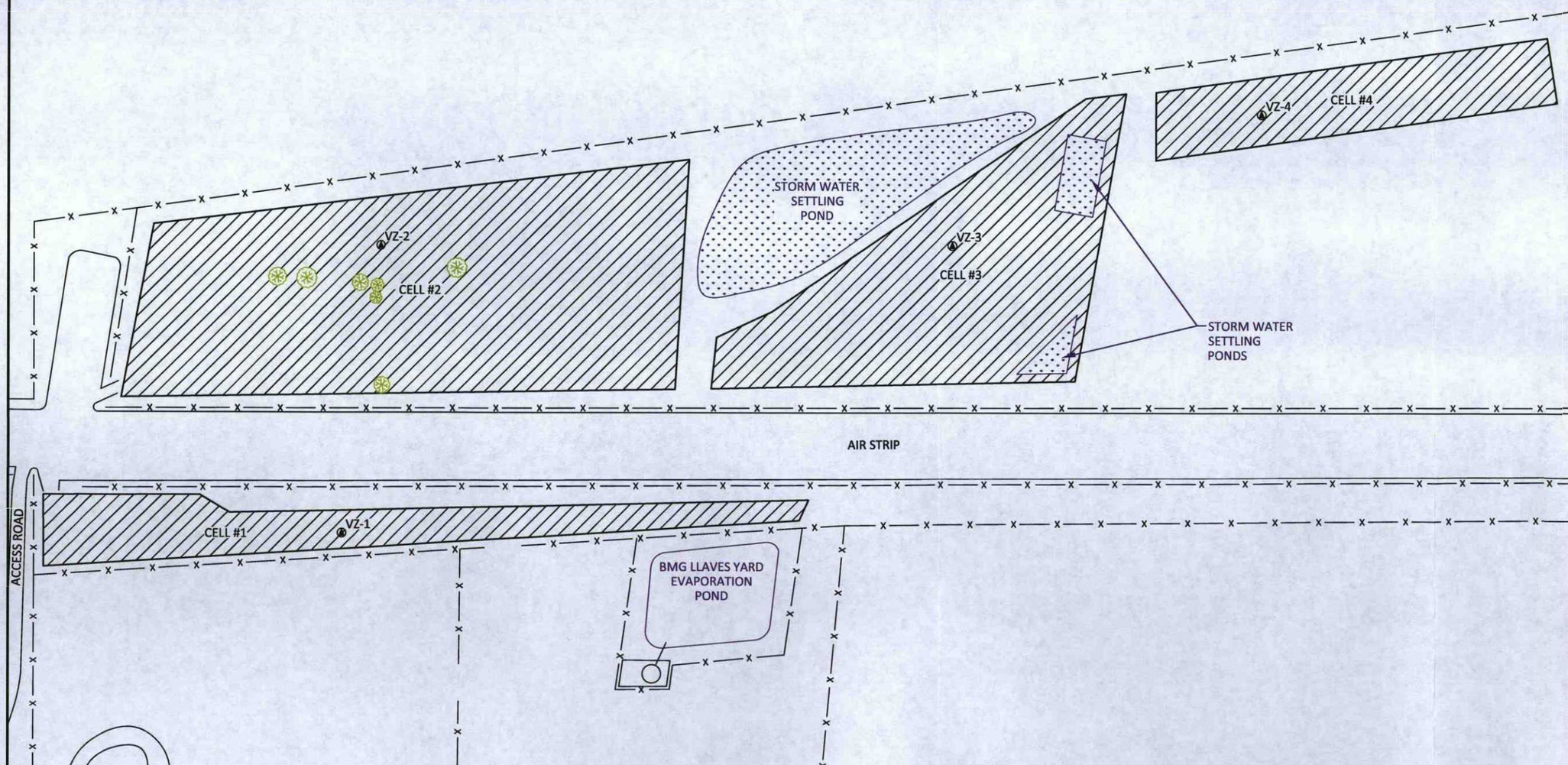

FIGURE 3

BENSON-MONTIN-GREER VADOSE ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, JULY 2011

NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** April 11, 2011
REVISIONS BY: C. Lameman	**DATE REVISED:** January 4, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** January 4, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** January 4, 2012

SCALE
150 90 0 150
30
(1 INCH = 150 FEET)

DEPTH TO GROUNDWATER MEASUREMENT FORM

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

Project: Groundwater Monitoring
Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Tech: N. Willis

Project No.: AES 040605
Date: 7-15-11
Time: 1245
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1350		39.59		
MW-2					UNABLE TO ACCESS WELL AT THIS TIME
MW-3	1430		39.89		
MW-4	1322		40.41		
Interstitial	1252		9.67		

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-1

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): ____ **Time:** ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.59 **Time:** 1350 *(taken prior to purging well)*
Final D.T.W. (ft): ____ **Time:** ____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** ____ **D.T.W.:** ____ **Thickness:** ____ **Time:** ____

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 1347
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1353	13.88	0.992	11.29	7.39	143.6	0.25	
1356	12.78	0.941	11.58	7.18	159.9	0.5	
1358	12.80	0.945	11.50	7.08	175.8	0.5	
							VERY LOW
							YIELD
1402							SAMPLES
							COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: ____

Collected Samples Stored on Ice in Cooler: ____

Chain of Custody Record Complete: ____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

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

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.68 **Time:** 1040 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-28-11
Arrival Time: 1030
Air Temp: 81°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1043	13.04	0.954	8.74	7.67	64.3	0.25	
1046	12.48	0.914	6.40	7.46	81.3	0.5	
1049	12.29	0.908	7.41	7.44	90.7	0.5	
							VERY LOW
							YIELD
1055							SAMPLES
							COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-2

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 1452
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

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

SEE NOTES BELOW

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: Due to heavy corosion I was unable to get into the well. Lock was frozen. Tried two different ways to get into well but did not work.

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-3

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): ____ **Time:** ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 39.87 **Time:** 1430 *(taken prior to purging well)*
Final D.T.W. (ft): ____ **Time:** ____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** ____ **D.T.W.:** ____ **Thickness:** ____ **Time:** ____

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 1423
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1432	14.99	0.988	12.40	7.82	82.9	0.25	
1435	13.65	0.877	11.12	7.43	117.8	0.5	
1438	12.62	0.867	11.11	7.22	152.5	0.5	
							LOW YIELD
1441							SAMPLES COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: ____
Collected Samples Stored on Ice in Cooler: ____
Chain of Custody Record Complete: ____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-4

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.41 **Time:** 1322 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 13.19
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1324	16.45	2.491	12.64	7.61	53.8	0.25	
1327	14.25	1.039	13.20	7.34	94.4	0.5	
1330	13.65	0.992	13.04	7.20	126.7	0.5	VERY
						.	LOW
						.	YIELD
						.	
1333	———	———	———	———	———	———	SAMPLES
							COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: Interstitial Well

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

Site: BMG Llaves Yard Evaporation Pond
Location: Llaves, Rio Arriba County, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: N. Willis
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): ____ **Time:** ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.67 **Time:** 1252 *(taken prior to purging well)*
Final D.T.W. (ft): ____ **Time:** ____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** ____ **D.T.W.:** ____ **Thickness:** ____ **Time:** ____

Project No.: AES 040605
Date: 7-15-11
Arrival Time: 1243
Air Temp: 88°F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1254	19.36	184.3	1.30	7.31	-100.6	8.25	
1300							SAMPLES COLLECTED

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

BTEX and TPH per EPA Method 8021/8015 (6 - 40mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
Chlorides and TDS (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: ____
Collected Samples Stored on Ice in Cooler: ____
Chain of Custody Record Complete: ____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, July 27, 2011

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

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

RE: BMG Landfarm/Pond Sampling

Order No.: 1107740

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 7/19/2011 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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-1
Lab Order:	1107740	**Collection Date:**	7/15/2011 2:02:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/21/2011 6:01:20 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/21/2011 6:01:20 PM
Surr: DNOP	97.9	97.7-132		%REC	1	7/21/2011 6:01:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/20/2011 3:34:42 PM
Surr: BFB	83.8	65.4-141		%REC	2	7/20/2011 3:34:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 3:34:42 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 3:34:42 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 3:34:42 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 3:34:42 PM
Surr: 4-Bromofluorobenzene	89.1	89.6-125	S	%REC	2	7/20/2011 3:34:42 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	12	2.5		mg/L	5	7/21/2011 9:15:46 AM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:50:22 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	7/21/2011 8:13:33 AM
Barium	0.19	0.020		mg/L	1	7/21/2011 8:13:33 AM
Cadmium	ND	0.0020		mg/L	1	7/21/2011 8:13:33 AM
Chromium	0.014	0.0060		mg/L	1	7/21/2011 8:13:33 AM
Lead	ND	0.0050		mg/L	1	7/21/2011 8:13:33 AM
Selenium	ND	0.050		mg/L	1	7/21/2011 8:13:33 AM
Silver	ND	0.0050		mg/L	1	7/21/2011 8:13:33 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	860	200		mg/L	1	7/22/2011 5:08:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-3
Lab Order:	1107740	**Collection Date:**	7/15/2011 2:41:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/21/2011 6:35:59 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/21/2011 6:35:59 PM
Surr: DNOP	96.4	97.7-132	S	%REC	1	7/21/2011 6:35:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/20/2011 5:04:32 PM
Surr: BFB	84.7	65.4-141		%REC	2	7/20/2011 5:04:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 5:04:32 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 5:04:32 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 5:04:32 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 5:04:32 PM
Surr: 4-Bromofluorobenzene	92.0	89.6-125		%REC	2	7/20/2011 5:04:32 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	32	2.5		mg/L	5	7/21/2011 9:38:12 AM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:52:09 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	7/21/2011 8:23:47 AM
Barium	0.074	0.020		mg/L	1	7/22/2011 1:39:23 PM
Cadmium	ND	0.0020		mg/L	1	7/21/2011 8:23:47 AM
Chromium	ND	0.0060		mg/L	1	7/21/2011 8:23:47 AM
Lead	ND	0.0050		mg/L	1	7/21/2011 8:23:47 AM
Selenium	ND	0.050		mg/L	1	7/21/2011 8:23:47 AM
Silver	ND	0.0050		mg/L	1	7/21/2011 8:23:47 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	670	200		mg/L	1	7/22/2011 5:08:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-4
Lab Order:	1107740	**Collection Date:**	7/15/2011 1:33:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/21/2011 7:10:42 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/21/2011 7:10:42 PM
Surr: DNOP	119	97.7-132		%REC	1	7/21/2011 7:10:42 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/20/2011 6:37:54 PM
Surr: BFB	76.2	65.4-141		%REC	2	7/20/2011 6:37:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 6:37:54 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 6:37:54 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 6:37:54 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 6:37:54 PM
Surr: 4-Bromofluorobenzene	83.6	89.6-125	S	%REC	2	7/20/2011 6:37:54 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	15	2.5		mg/L	5	7/21/2011 10:00:33 AM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:54:02 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	7/21/2011 8:27:49 AM
Barium	0.093	0.020		mg/L	1	7/22/2011 1:41:24 PM
Cadmium	ND	0.0020		mg/L	1	7/21/2011 8:27:49 AM
Chromium	0.0097	0.0060		mg/L	1	7/21/2011 8:27:49 AM
Lead	ND	0.0050		mg/L	1	7/21/2011 8:27:49 AM
Selenium	ND	0.050		mg/L	1	7/21/2011 8:27:49 AM
Silver	ND	0.0050		mg/L	1	7/21/2011 8:27:49 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	830	200		mg/L	1	7/22/2011 5:08:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Interstitial Well
Lab Order:	1107740	**Collection Date:**	7/15/2011 1:00:00 PM
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	13	3.0		mg/L	1	7/21/2011 7:45:27 PM
Motor Oil Range Organics (MRO)	ND	15		mg/L	1	7/21/2011 7:45:27 PM
Surr: DNOP	98.6	97.7-132		%REC	1	7/21/2011 7:45:27 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.64	0.10		mg/L	2	7/20/2011 7:08:00 PM
Surr: BFB	87.1	65.4-141		%REC	2	7/20/2011 7:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	2.0		µg/L	2	7/20/2011 7:08:00 PM
Toluene	ND	2.0		µg/L	2	7/20/2011 7:08:00 PM
Ethylbenzene	ND	2.0		µg/L	2	7/20/2011 7:08:00 PM
Xylenes, Total	ND	4.0		µg/L	2	7/20/2011 7:08:00 PM
Surr: 4-Bromofluorobenzene	83.6	89.6-125	S	%REC	2	7/20/2011 7:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	140000	5000		mg/L	10000	7/22/2011 1:16:58 PM
EPA METHOD 7470: MERCURY						Analyst: **MBR**
Mercury	ND	0.00020		mg/L	1	7/21/2011 2:59:32 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	0.31	0.20		mg/L	10	7/21/2011 8:56:07 AM
Barium	89	2.0		mg/L	100	7/22/2011 1:43:27 PM
Cadmium	0.047	0.020		mg/L	10	7/21/2011 8:56:07 AM
Chromium	ND	0.060		mg/L	10	7/21/2011 8:56:07 AM
Lead	ND	0.050		mg/L	10	7/21/2011 8:56:07 AM
Selenium	ND	0.50		mg/L	10	7/21/2011 8:56:07 AM
Silver	ND	0.050		mg/L	10	7/21/2011 8:56:07 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	193000	1000		mg/L	1	7/22/2011 5:08:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Jul-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Trip Blank
Lab Order:	1107740	**Collection Date:**	
Project:	BMG Landfarm/Pond Sampling	**Date Received:**	7/19/2011
Lab ID:	1107740-05	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/20/2011 7:38:07 PM
Surr: BFB	79.2	65.4-141		%REC	1	7/20/2011 7:38:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	7/20/2011 7:38:07 PM
Toluene	ND	1.0		µg/L	1	7/20/2011 7:38:07 PM
Ethylbenzene	ND	1.0		µg/L	1	7/20/2011 7:38:07 PM
Xylenes, Total	ND	2.0		µg/L	1	7/20/2011 7:38:07 PM
Surr: 4-Bromofluorobenzene	83.8	89.6-125	S	%REC	1	7/20/2011 7:38:07 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Pond Sampling **Work Order:** 1107740

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID: **R46673**		Analysis Date:	7/20/2011 12:29:40 PM		
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46673**		Analysis Date:	7/21/2011 2:54:17 AM		
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46705**		Analysis Date:	7/21/2011 1:05:10 PM		
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46705**		Analysis Date:	7/22/2011 12:33:35 AM		
Chloride	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R46705**		Analysis Date:	7/22/2011 10:51:02 AM		
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID: **R46673**		Analysis Date:	7/20/2011 12:40:54 PM		
Chloride	4.950	mg/L	0.50	5	0	99.0	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46673**		Analysis Date:	7/21/2011 3:05:30 AM		
Chloride	5.003	mg/L	0.50	5	0	100	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46705**		Analysis Date:	7/21/2011 1:16:22 PM		
Chloride	4.648	mg/L	0.50	5	0	93.0	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46705**		Analysis Date:	7/22/2011 12:44:48 AM		
Chloride	5.031	mg/L	0.50	5	0	101	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R46705**		Analysis Date:	7/22/2011 11:02:15 AM		
Chloride	4.679	mg/L	0.50	5	0	93.6	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-27693		*MBLK*				Batch ID: **27693**		Analysis Date:	7/21/2011 4:16:36 PM		
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-27693		*LCS*				Batch ID: **27693**		Analysis Date:	7/21/2011 4:51:46 PM		
Diesel Range Organics (DRO)	6.487	mg/L	1.0	5	0	130	74	157			
Sample ID: LCSD-27693		*LCSD*				Batch ID: **27693**		Analysis Date:	7/21/2011 5:26:42 PM		
Diesel Range Organics (DRO)	6.564	mg/L	1.0	5	0	131	74	157	1.18	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1107740-02A MSD		*MSD*				Batch ID: **R46659**		Analysis Date:	7/20/2011 6:07:47 PM		
Gasoline Range Organics (GRO)	1.042	mg/L	0.10	1	0	104	75.4	121	2.09	10.5	
Sample ID: 5ML-RB		*MBLK*				Batch ID: **R46659**		Analysis Date:	7/20/2011 9:45:07 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R46659**		Analysis Date:	7/20/2011 11:45:31 AM		
Gasoline Range Organics (GRO)	0.5376	mg/L	0.050	0.5	0	108	81.8	120			
Sample ID: 1107740-02A MS		*MS*				Batch ID: **R46659**		Analysis Date:	7/20/2011 5:34:47 PM		
Gasoline Range Organics (GRO)	1.021	mg/L	0.10	1	0	102	75.4	121			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Pond Sampling **Work Order:** 1107740

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1107740-01A MSD		*MSD*				Batch ID:	**R46659**	Analysis Date:		7/20/2011 4:34:36 PM	
Benzene	40.00	µg/L	2.0	40	0	100	92.7	114	0.0800	14	
Toluene	40.12	µg/L	2.0	40	0	100	94.6	116	1.49	16.2	
Ethylbenzene	38.06	µg/L	2.0	40	0	95.2	94.3	114	1.35	12.6	
Xylenes, Total	116.7	µg/L	4.0	120	0	97.3	95.7	116	0.584	11.9	
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R46659**	Analysis Date:		7/20/2011 9:45:07 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 BTEX LCS		*LCS*				Batch ID:	**R46659**	Analysis Date:		7/20/2011 12:15:41 PM	
Benzene	20.89	µg/L	1.0	20	0	104	80	120			
Toluene	21.20	µg/L	1.0	20	0	106	80	120			
Ethylbenzene	19.66	µg/L	1.0	20	0	98.3	80	120			
Xylenes, Total	60.91	µg/L	2.0	60	0	102	80	120			
Sample ID: 1107740-01A MS		*MS*				Batch ID:	**R46659**	Analysis Date:		7/20/2011 4:04:41 PM	
Benzene	40.03	µg/L	2.0	40	0	100	92.7	114			
Toluene	39.53	µg/L	2.0	40	0	98.8	94.6	116			
Ethylbenzene	37.55	µg/L	2.0	40	0	93.9	94.3	114			S
Xylenes, Total	116.1	µg/L	4.0	120	0	96.7	95.7	116			
Method: EPA Method 7470: Mercury											
Sample ID: MB-27699		*MBLK*				Batch ID:	**27699**	Analysis Date:		7/21/2011 2:38:03 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-27699		*LCS*				Batch ID:	**27699**	Analysis Date:		7/21/2011 2:39:48 PM	
Mercury	0.004873	mg/L	0.00020	0.005	0	97.5	80	120			
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-27683		*MBLK*				Batch ID:	**27683**	Analysis Date:		7/21/2011 7:24:04 AM	
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
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	ND	mg/L	0.0050								
Sample ID: LCS-27683		*LCS*				Batch ID:	**27683**	Analysis Date:		7/21/2011 7:26:11 AM	
Arsenic	0.5225	mg/L	0.020	0.5	0	104	80	120			
Barium	0.4948	mg/L	0.020	0.5	0	99.0	80	120			
Cadmium	0.4885	mg/L	0.0020	0.5	0	97.7	80	120			
Chromium	0.5178	mg/L	0.0060	0.5	0	104	80	120			
Lead	0.4830	mg/L	0.0050	0.5	0	96.6	80	120			
Selenium	0.5014	mg/L	0.050	0.5	0	100	80	120			
Silver	0.1015	mg/L	0.0050	0.1	0	102	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm/Pond Sampling

Work Order: 1107740

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-27692		*MBLK*					Batch ID: **27692**		Analysis Date:	7/22/2011 5:08:00 PM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-27692		*LCS*					Batch ID: **27692**		Analysis Date:	7/22/2011 5:08:00 PM	
Total Dissolved Solids	1023	mg/L	20.0	1000	6	102	80	120			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL Date Received: 7/19/2011

Work Order Number 1107740 Received by: MMG

Checklist completed by: _____ 07/19/11 Sample ID labels checked by: MG
Signature Date Initials

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑		
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:	
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 ☐	*<2 >12 unless noted below.*	
Container/Temp Blank temperature?	**1.0°**	*<6° C Acceptable* If given sufficient time to cool.			

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: ANIMAS ENVIRONMENTAL SERVICES

Address: 624 E. COMANCHE FARMINGTON, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: BMG LANDFARM/POND SAMPLING

Project #: AES 040605

Project Manager: R. KENNEMER

Sampler: N. WILLIS

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + ~~MTBE~~ + PMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) C6-C36	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDES 300.0	TDS 2450 C	RCRA 8 Metals 6010/7471		Air Bubbles (Y or N)
				1-HNO3	1107740																
7-15-11	1402	MW-1	2-500mL PL. 6-40mL GL.	2-NON 5-HCl	-1	X		X									X	X	X		
	1441	MW-3			-2	X		X									X	X	X		
	1333	MW-4			-3	X		X									X	X	X		
	1300	INTERSTITIAL WELL			-4	X		X									X	X	X		
		TRIP BLANK	2-40mL GL.	HCl	-5	X		X									X	X			

Date:	Time:	Relinquished by:	Received by:
7-18-11	0830	Nate Willis	Debrah Watson
7-18-11	1630	Debrah Watson	Michelle Gp. 7/19/11 9:30

Remarks: H_2O

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, August 12, 2011

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm And Pond

Order No.: 1108037

Dear Debbie Watson:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 8/1/2011 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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

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

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Aug-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-2
Lab Order:	1108037	**Collection Date:**	7/28/2011 10:55:00 AM
Project:	BMG Landfarm And Pond	**Date Received:**	8/1/2011
Lab ID:	1108037-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/4/2011 5:24:07 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/4/2011 5:24:07 AM
Surr: DNOP	94.1	81.1-147		%REC	1	8/4/2011 5:24:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/5/2011 3:18:46 AM
Surr: BFB	93.0	65.4-141		%REC	1	8/5/2011 3:18:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	8/5/2011 3:18:46 AM
Toluene	ND	1.0		µg/L	1	8/5/2011 3:18:46 AM
Ethylbenzene	ND	1.0		µg/L	1	8/5/2011 3:18:46 AM
Xylenes, Total	ND	2.0		µg/L	1	8/5/2011 3:18:46 AM
Surr: 4-Bromofluorobenzene	87.3	89.6-125	S	%REC	1	8/5/2011 3:18:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	29	10		mg/L	20	8/2/2011 6:22:13 PM
EPA METHOD 7470: MERCURY						Analyst: **ELS**
Mercury	ND	0.00020		mg/L	1	8/3/2011 1:21:57 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Arsenic	ND	0.020		mg/L	1	8/5/2011 3:49:17 PM
Barium	0.47	0.020		mg/L	1	8/5/2011 3:49:17 PM
Cadmium	ND	0.0020		mg/L	1	8/5/2011 3:49:17 PM
Chromium	0.034	0.0060		mg/L	1	8/5/2011 3:49:17 PM
Lead	0.0090	0.0050		mg/L	1	8/5/2011 3:49:17 PM
Selenium	ND	0.050		mg/L	1	8/5/2011 3:49:17 PM
Silver	ND	0.0050		mg/L	1	8/5/2011 3:49:17 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	615	100		mg/L	1	8/4/2011 3:17:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Aug-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Trip Blank
Lab Order:	1108037	**Collection Date:**	
Project:	BMG Landfarm And Pond	**Date Received:**	8/1/2011
Lab ID:	1108037-02	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	8/4/2011 9:18:30 PM
Toluene	ND	1.0		µg/L	1	8/4/2011 9:18:30 PM
Ethylbenzene	ND	1.0		µg/L	1	8/4/2011 9:18:30 PM
Xylenes, Total	ND	2.0		µg/L	1	8/4/2011 9:18:30 PM
Surr: 4-Bromofluorobenzene	88.4	89.6-125	S	%REC	1	8/4/2011 9:18:30 PM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm And Pond **Work Order:** 1108037

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R46925**	Analysis Date:		8/2/2011 12:52:18 PM	
Chloride	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R46925**	Analysis Date:		8/2/2011 1:09:42 PM	
Chloride	4.767	mg/L	0.50	5	0	95.3	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-27883		*MBLK*				Batch ID:	**27883**	Analysis Date:		8/4/2011 2:32:22 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-27883		*LCS*				Batch ID:	**27883**	Analysis Date:		8/4/2011 3:06:44 AM	
Diesel Range Organics (DRO)	4.709	mg/L	1.0	5	0	94.2	74	157			
Sample ID: LCSD-27883		*LCSD*				Batch ID:	**27883**	Analysis Date:		8/4/2011 3:41:06 AM	
Diesel Range Organics (DRO)	4.828	mg/L	1.0	5	0	96.6	74	157	2.50	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R47026**	Analysis Date:		8/4/2011 9:34:25 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R47026**	Analysis Date:		8/4/2011 11:34:52 AM	
Gasoline Range Organics (GRO)	0.5554	mg/L	0.050	0.5	0	111	92.1	117			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R47026**	Analysis Date:		8/4/2011 9:34:25 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 BTEX LCS		*LCS*				Batch ID:	**R47026**	Analysis Date:		8/4/2011 12:04:57 PM	
Benzene	20.01	µg/L	1.0	20	0	100	80	120			
Toluene	20.09	µg/L	1.0	20	0	100	80	120			
Ethylbenzene	19.92	µg/L	1.0	20	0	99.6	80	120			
Xylenes, Total	59.89	µg/L	2.0	60	0	99.8	80	120			
Method: EPA Method 7470: Mercury											
Sample ID: MB-27870		*MBLK*				Batch ID:	**27870**	Analysis Date:		8/3/2011 11:40:11 AM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-27870		*LCS*				Batch ID:	**27870**	Analysis Date:		8/3/2011 11:41:58 AM	
Mercury	0.004967	mg/L	0.00020	0.005	3E-05	98.8	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm And Pond **Work Order:** 1108037

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-27894		*MBLK*				Batch ID:	**27894**	Analysis Date:		8/5/2011 3:44:21 PM	
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
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	ND	mg/L	0.0050								
Sample ID: LCS-27894		*LCS*				Batch ID:	**27894**	Analysis Date:		8/5/2011 3:46:57 PM	
Arsenic	0.5019	mg/L	0.020	0.5	0	100	80	120			
Barium	0.4833	mg/L	0.020	0.5	0	96.7	80	120			
Cadmium	0.4885	mg/L	0.0020	0.5	0	97.7	80	120			
Chromium	0.4856	mg/L	0.0060	0.5	0	97.1	80	120			
Lead	0.4724	mg/L	0.0050	0.5	0	94.5	80	120			
Selenium	0.4633	mg/L	0.050	0.5	0	92.7	80	120			
Silver	0.1009	mg/L	0.0050	0.1	0	101	80	120			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-27875		*MBLK*				Batch ID:	**27875**	Analysis Date:		8/4/2011 3:17:00 PM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-27875		*LCS*				Batch ID:	**27875**	Analysis Date:		8/4/2011 3:17:00 PM	
Total Dissolved Solids	1035	mg/L	20.0	1000	11	102	80	120			

Qualifiers:

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

Chain-of-Custody Record

Client: Animas Environmental Services LLC

Mailing Address: 624 E. Comanche Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: BMG Landfarm & Pond

Project #: AES 040605

Project Manager: D. Watson

Sampler: N. Willis

On Ice: ☑ Yes ☐ No

Sample Temperature: 4.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1108037	BTEX + ~~MTBE~~ + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (C6-C36)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	TDS 2450 C	Chlorides 300.0	Metals 6010/6471		Air Bubbles (Y or N)
7-28-11	1055	H_2O	MW-2	6-40mL glass 2-500mL plastic	5-HCl 2-NaOH 1-HNO_3	-1	X		X									X	X	X		
			Trip Blank	2-40mL	HCl	-2	X															

Date	Time	Relinquished by:	Received by:	Date	Time
7-29-11	1505			7/30/11	11:32
		Relinquished by:	Received by:		

Remarks: Metals: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, September 01, 2011

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

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

RE: BMG Landfarm & Pond

Order No.: 1108122

Dear Debbie Watson:

Hall Environmental Analysis Laboratory, Inc. received 6 sample(s) on 8/1/2011 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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Treatment Zone Composite
Lab Order:	1108122	**Collection Date:**	7/28/2011 2:01:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	3800	200		mg/Kg	20	8/8/2011 10:39:39 PM
Motor Oil Range Organics (MRO)	3300	1000		mg/Kg	20	8/8/2011 10:39:39 PM
Surr: DNOP	0	73.4-123	S	%REC	20	8/8/2011 10:39:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	8/3/2011 12:13:25 PM
Surr: BFB	98.2	75.2-136		%REC	20	8/3/2011 12:13:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		mg/Kg	20	8/3/2011 12:13:25 PM
Toluene	ND	1.0		mg/Kg	20	8/3/2011 12:13:25 PM
Ethylbenzene	ND	1.0		mg/Kg	20	8/3/2011 12:13:25 PM
Xylenes, Total	ND	2.0		mg/Kg	20	8/3/2011 12:13:25 PM
Surr: 4-Bromofluorobenzene	98.0	90.3-115		%REC	20	8/3/2011 12:13:25 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	8.8	7.5		mg/Kg	5	8/8/2011 5:32:12 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 2:37:45 PM
Surr: Decachlorobiphenyl	80.0	20.2-86.8		%REC	1	8/9/2011 2:37:45 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	34	9.7		mg/Kg	1	8/5/2011 1:32:15 AM
Motor Oil Range Organics (MRO)	60	48		mg/Kg	1	8/5/2011 1:32:15 AM
Surr: DNOP	82.1	73.4-123		%REC	1	8/5/2011 1:32:15 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 1:11:07 PM
Surr: BFB	95.3	75.2-136		%REC	1	8/3/2011 1:11:07 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	2.9	1.5		mg/Kg	5	8/8/2011 6:07:01 PM
Chloride	15	7.5		mg/Kg	5	8/8/2011 6:07:01 PM
Nitrogen, Nitrate (As N)	3.3	1.5		mg/Kg	5	8/8/2011 6:07:01 PM
Sulfate	7.9	7.5		mg/Kg	5	8/8/2011 6:07:01 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:17:26 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	25		mg/Kg	10	8/10/2011 9:08:19 AM
Barium	150	1.0		mg/Kg	10	8/11/2011 12:06:00 PM
Cadmium	ND	1.0		mg/Kg	10	8/10/2011 9:08:19 AM
Calcium	5600	250		mg/Kg	10	8/10/2011 9:08:19 AM
Chromium	16	3.0		mg/Kg	10	8/10/2011 9:08:19 AM
Copper	12	3.0		mg/Kg	10	8/10/2011 9:08:19 AM
Iron	19000	500		mg/Kg	500	8/8/2011 8:35:13 AM
Lead	9.1	2.5		mg/Kg	10	8/10/2011 9:08:19 AM
Magnesium	3500	250		mg/Kg	10	8/10/2011 9:08:19 AM
Manganese	410	1.0		mg/Kg	10	8/11/2011 12:06:00 PM
Potassium	2400	500		mg/Kg	10	8/10/2011 9:08:19 AM
Selenium	ND	25		mg/Kg	10	8/10/2011 9:08:19 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	2.5		mg/Kg	10	8/10/2011 9:08:19 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:08:19 AM
Uranium	ND	50		mg/Kg	10	8/10/2011 9:08:19 AM
Zinc	55	25		mg/Kg	10	8/26/2011 7:12:26 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 5:40:56 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 5:40:56 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 5:40:56 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 5:40:56 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 5:40:56 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 5:40:56 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 5:40:56 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 5:40:56 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 5:40:56 PM
Surr: 2,4,6-Tribromophenol	89.0	29.4-125		%REC	1	8/9/2011 5:40:56 PM
Surr: 2-Fluorobiphenyl	90.6	21-131		%REC	1	8/9/2011 5:40:56 PM
Surr: 2-Fluorophenol	80.5	25.7-110		%REC	1	8/9/2011 5:40:56 PM
Surr: 4-Terphenyl-d14	91.2	36.2-172		%REC	1	8/9/2011 5:40:56 PM

Qualifiers:

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J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	93.8	23.2-122		%REC	1	8/9/2011 5:40:56 PM
Surr: Phenol-d5	80.7	25.2-114		%REC	1	8/9/2011 5:40:56 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 2:46:21 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 2:46:21 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 2:46:21 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 2:46:21 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 2:46:21 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #1 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 1:08:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 2:46:21 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 2:46:21 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 2:46:21 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 2:46:21 AM
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%REC	1	8/9/2011 2:46:21 AM
Surr: 4-Bromofluorobenzene	90.1	70-130		%REC	1	8/9/2011 2:46:21 AM
Surr: Dibromofluoromethane	87.4	63.1-128		%REC	1	8/9/2011 2:46:21 AM
Surr: Toluene-d8	92.8	70-130		%REC	1	8/9/2011 2:46:21 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.32	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 4:54:06 PM
Surr: Decachlorobiphenyl	52.0	20.2-86.8		%REC	1	8/9/2011 4:54:06 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	21	10		mg/Kg	1	8/5/2011 2:06:33 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	8/5/2011 2:06:33 AM
Surr: DNOP	87.7	73.4-123		%REC	1	8/5/2011 2:06:33 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 1:40:04 PM
Surr: BFB	95.5	75.2-136		%REC	1	8/3/2011 1:40:04 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	1.5		mg/Kg	5	8/8/2011 6:41:51 PM
Chloride	ND	7.5		mg/Kg	5	8/8/2011 6:41:51 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	8/8/2011 6:41:51 PM
Sulfate	9.9	7.5		mg/Kg	5	8/8/2011 6:41:51 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:19:13 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	8/8/2011 8:39:53 AM
Barium	110	0.50		mg/Kg	5	8/8/2011 8:39:53 AM
Cadmium	ND	0.50		mg/Kg	5	8/8/2011 8:39:53 AM
Calcium	8900	250		mg/Kg	10	8/10/2011 9:10:24 AM
Chromium	7.6	1.5		mg/Kg	5	8/8/2011 8:39:53 AM
Copper	6.4	1.5		mg/Kg	5	8/8/2011 8:39:53 AM
Iron	12000	500		mg/Kg	500	8/8/2011 8:41:57 AM
Lead	5.4	1.3		mg/Kg	5	8/8/2011 8:39:53 AM
Magnesium	1800	250		mg/Kg	10	8/10/2011 9:10:24 AM
Manganese	280	50		mg/Kg	500	8/8/2011 8:41:57 AM
Potassium	820	500		mg/Kg	10	8/10/2011 9:10:24 AM
Selenium	ND	13		mg/Kg	5	8/8/2011 8:39:53 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	1.3		mg/Kg	5	8/8/2011 8:39:53 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:10:24 AM
Uranium	ND	25		mg/Kg	5	8/8/2011 8:39:53 AM
Zinc	28	13		mg/Kg	5	8/8/2011 8:39:53 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:10:19 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:10:19 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 7:10:19 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:10:19 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 7:10:19 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:10:19 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 7:10:19 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:10:19 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:10:19 PM
Surr: 2,4,6-Tribromophenol	94.0	29.4-125		%REC	1	8/9/2011 7:10:19 PM
Surr: 2-Fluorobiphenyl	100	21-131		%REC	1	8/9/2011 7:10:19 PM
Surr: 2-Fluorophenol	89.8	25.7-110		%REC	1	8/9/2011 7:10:19 PM
Surr: 4-Terphenyl-d14	93.3	36.2-172		%REC	1	8/9/2011 7:10:19 PM

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	101	23.2-122		%REC	1	8/9/2011 7:10:19 PM
Surr: Phenol-d5	89.4	25.2-114		%REC	1	8/9/2011 7:10:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:14:29 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:14:29 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 3:14:29 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 3:14:29 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 3:14:29 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #2 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:38:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 3:14:29 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 3:14:29 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 3:14:29 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 3:14:29 AM
Surr: 1,2-Dichloroethane-d4	85.6	70-130		%REC	1	8/9/2011 3:14:29 AM
Surr: 4-Bromofluorobenzene	91.3	70-130		%REC	1	8/9/2011 3:14:29 AM
Surr: Dibromofluoromethane	87.8	63.1-128		%REC	1	8/9/2011 3:14:29 AM
Surr: Toluene-d8	92.4	70-130		%REC	1	8/9/2011 3:14:29 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.63	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

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E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 6:24:32 PM
Surr: Decachlorobiphenyl	70.0	20.2-86.8		%REC	1	8/9/2011 6:24:32 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/5/2011 2:40:38 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/5/2011 2:40:38 AM
Surr: DNOP	80.1	73.4-123		%REC	1	8/5/2011 2:40:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 2:09:00 PM
Surr: BFB	95.8	75.2-136		%REC	1	8/3/2011 2:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	3.1	0.30		mg/Kg	1	8/8/2011 7:16:41 PM
Chloride	6.3	1.5		mg/Kg	1	8/8/2011 7:16:41 PM
Nitrogen, Nitrate (As N)	0.39	0.30		mg/Kg	1	8/8/2011 7:16:41 PM
Sulfate	350	30		mg/Kg	20	8/8/2011 7:34:05 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:21:01 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	8/8/2011 8:44:17 AM
Barium	97	0.50		mg/Kg	5	8/8/2011 8:44:17 AM
Cadmium	ND	0.50		mg/Kg	5	8/8/2011 8:44:17 AM
Calcium	8000	250		mg/Kg	10	8/10/2011 9:12:27 AM
Chromium	15	1.5		mg/Kg	5	8/8/2011 8:44:17 AM
Copper	11	1.5		mg/Kg	5	8/8/2011 8:44:17 AM
Iron	19000	500		mg/Kg	500	8/8/2011 8:57:26 AM
Lead	6.4	1.3		mg/Kg	5	8/8/2011 8:44:17 AM
Magnesium	3100	250		mg/Kg	10	8/10/2011 9:12:27 AM
Manganese	340	50		mg/Kg	500	8/8/2011 8:57:26 AM
Potassium	2100	500		mg/Kg	10	8/10/2011 9:12:27 AM
Selenium	ND	13		mg/Kg	5	8/8/2011 8:44:17 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	1.3		mg/Kg	5	8/8/2011 8:44:17 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:12:27 AM
Uranium	ND	25		mg/Kg	5	8/8/2011 8:44:17 AM
Zinc	48	13		mg/Kg	5	8/8/2011 8:44:17 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:40:00 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:40:00 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 7:40:00 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:40:00 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 7:40:00 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 7:40:00 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 7:40:00 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 7:40:00 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 7:40:00 PM
Surr: 2,4,6-Tribromophenol	37.6	29.4-125		%REC	1	8/9/2011 7:40:00 PM
Surr: 2-Fluorobiphenyl	37.9	21-131		%REC	1	8/9/2011 7:40:00 PM
Surr: 2-Fluorophenol	35.1	25.7-110		%REC	1	8/9/2011 7:40:00 PM
Surr: 4-Terphenyl-d14	39.6	36.2-172		%REC	1	8/9/2011 7:40:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	37.0	23.2-122		%REC	1	8/9/2011 7:40:00 PM
Surr: Phenol-d5	31.6	25.2-114		%REC	1	8/9/2011 7:40:00 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:42:35 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 3:42:35 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 3:42:35 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 3:42:35 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 3:42:35 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #3 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 12:12:00 PM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 3:42:35 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 3:42:35 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 3:42:35 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 3:42:35 AM
Surr: 1,2-Dichloroethane-d4	86.7	70-130		%REC	1	8/9/2011 3:42:35 AM
Surr: 4-Bromofluorobenzene	91.5	70-130		%REC	1	8/9/2011 3:42:35 AM
Surr: Dibromofluoromethane	85.8	63.1-128		%REC	1	8/9/2011 3:42:35 AM
Surr: Toluene-d8	89.7	70-130		%REC	1	8/9/2011 3:42:35 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.04	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1221	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1232	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1242	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1248	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1254	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Aroclor 1260	ND	0.020		mg/Kg	1	8/9/2011 7:09:55 PM
Surr: Decachlorobiphenyl	62.8	20.2-86.8		%REC	1	8/9/2011 7:09:55 PM
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/5/2011 3:14:44 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/5/2011 3:14:44 AM
Surr: DNOP	80.0	73.4-123		%REC	1	8/5/2011 3:14:44 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 2:37:56 PM
Surr: BFB	95.8	75.2-136		%REC	1	8/3/2011 2:37:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	5.3	1.5		mg/Kg	5	8/8/2011 8:26:19 PM
Chloride	ND	7.5		mg/Kg	5	8/8/2011 8:26:19 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	8/8/2011 8:26:19 PM
Sulfate	10	7.5		mg/Kg	5	8/8/2011 8:26:19 PM
EPA METHOD 7471: MERCURY						Analyst: **ELS**
Mercury	ND	0.033		mg/Kg	1	8/9/2011 11:22:49 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	8/8/2011 8:59:49 AM
Barium	92	0.50		mg/Kg	5	8/8/2011 8:59:49 AM
Cadmium	ND	0.50		mg/Kg	5	8/8/2011 8:59:49 AM
Calcium	7000	250		mg/Kg	10	8/10/2011 9:14:33 AM
Chromium	15	1.5		mg/Kg	5	8/8/2011 8:59:49 AM
Copper	12	1.5		mg/Kg	5	8/8/2011 8:59:49 AM
Iron	18000	500		mg/Kg	500	8/8/2011 9:01:55 AM
Lead	6.0	1.3		mg/Kg	5	8/8/2011 8:59:49 AM
Magnesium	2300	250		mg/Kg	10	8/10/2011 9:14:33 AM
Manganese	240	0.50		mg/Kg	5	8/8/2011 8:59:49 AM
Potassium	1500	500		mg/Kg	10	8/10/2011 9:14:33 AM
Selenium	ND	13		mg/Kg	5	8/8/2011 8:59:49 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Silver	ND	1.3		mg/Kg	5	8/8/2011 8:59:49 AM
Sodium	ND	250		mg/Kg	10	8/10/2011 9:14:33 AM
Uranium	ND	25		mg/Kg	5	8/8/2011 8:59:49 AM
Zinc	41	13		mg/Kg	5	8/8/2011 8:59:49 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Acenaphthylene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Anthracene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 8:09:41 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Chrysene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	8/9/2011 8:09:41 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	8/9/2011 8:09:41 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/9/2011 8:09:41 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	8/9/2011 8:09:41 PM
Fluoranthene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Fluorene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2-Methylphenol	ND	0.50		mg/Kg	1	8/9/2011 8:09:41 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Naphthalene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	8/9/2011 8:09:41 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	8/9/2011 8:09:41 PM
Phenanthrene	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Phenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/9/2011 8:09:41 PM
Surr: 2,4,6-Tribromophenol	63.1	29.4-125		%REC	1	8/9/2011 8:09:41 PM
Surr: 2-Fluorobiphenyl	59.8	21-131		%REC	1	8/9/2011 8:09:41 PM
Surr: 2-Fluorophenol	50.1	25.7-110		%REC	1	8/9/2011 8:09:41 PM
Surr: 4-Terphenyl-d14	67.9	36.2-172		%REC	1	8/9/2011 8:09:41 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Surr: Nitrobenzene-d5	53.5	23.2-122		%REC	1	8/9/2011 8:09:41 PM
Surr: Phenol-d5	50.8	25.2-114		%REC	1	8/9/2011 8:09:41 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:10:44 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:10:44 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 4:10:44 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 4:10:44 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 4:10:44 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Cell #4 Vadose Zone
Lab Order:	1108122	**Collection Date:**	7/28/2011 11:35:00 AM
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 4:10:44 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 4:10:44 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 4:10:44 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 4:10:44 AM
Surr: 1,2-Dichloroethane-d4	82.8	70-130		%REC	1	8/9/2011 4:10:44 AM
Surr: 4-Bromofluorobenzene	89.1	70-130		%REC	1	8/9/2011 4:10:44 AM
Surr: Dibromofluoromethane	83.5	63.1-128		%REC	1	8/9/2011 4:10:44 AM
Surr: Toluene-d8	91.8	70-130		%REC	1	8/9/2011 4:10:44 AM
SM4500-H+B: PH						Analyst: **KS**
pH	8.39	0.100		pH Units	1	8/4/2011 1:52:00 PM

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Methanol Blank
Lab Order:	1108122	**Collection Date:**	
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-06	**Matrix:**	MEOH

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/3/2011 3:06:52 PM
Surr: BFB	96.1	75.2-136		%REC	1	8/3/2011 3:06:52 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Toluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Naphthalene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:38:51 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/9/2011 4:38:51 AM
Acetone	ND	0.75		mg/Kg	1	8/9/2011 4:38:51 AM
Bromobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Bromoform	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Bromomethane	ND	0.15		mg/Kg	1	8/9/2011 4:38:51 AM
2-Butanone	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Carbon disulfide	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Chlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Chloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Chloroform	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Chloromethane	ND	0.25		mg/Kg	1	8/9/2011 4:38:51 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Dibromomethane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *01-Sep-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	Methanol Blank
Lab Order:	1108122	**Collection Date:**	
Project:	BMG Landfarm & Pond	**Date Received:**	8/1/2011
Lab ID:	1108122-06	**Matrix:**	MEOH

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
2-Hexanone	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/9/2011 4:38:51 AM
Methylene chloride	ND	0.15		mg/Kg	1	8/9/2011 4:38:51 AM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Styrene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Vinyl chloride	ND	0.050		mg/Kg	1	8/9/2011 4:38:51 AM
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2011 4:38:51 AM
Surr: 1,2-Dichloroethane-d4	86.5	70-130		%REC	1	8/9/2011 4:38:51 AM
Surr: 4-Bromofluorobenzene	90.0	70-130		%REC	1	8/9/2011 4:38:51 AM
Surr: Dibromofluoromethane	84.5	63.1-128		%REC	1	8/9/2011 4:38:51 AM
Surr: Toluene-d8	93.3	70-130		%REC	1	8/9/2011 4:38:51 AM

Qualifiers:

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

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	110804062
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1108122
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	110804062-001	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-02C / CELL #1 VADOSE ZONE			**Sampling Time**	1:08 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	98.3	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	16.8	Percent		8/11/2011	CRW	%moisture	

Sample Number	110804062-002	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-03C / CELL #2 VADOSE ZONE			**Sampling Time**	12:38 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	83.1	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	21.2	Percent		8/11/2011	CRW	%moisture	

Sample Number	110804062-003	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-04C / CELL #3 VADOSE ZONE			**Sampling Time**	12:12 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	273	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	16.4	Percent		8/11/2011	CRW	%moisture	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Wednesday, August 17, 2011

Anatek Labs, Inc.

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	110804062
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1108122
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	110804062-004	**Sampling Date**	7/28/2011	**Date/Time Received**	8/4/2011 1:40 PM
Client Sample ID	1108122-05C / CELL #4 VADOSE ZONE			**Sampling Time**	11:35 AM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Conductivity	97.2	mS/M		8/16/2011	CRW	ASTM G57A	
Cyanide	ND	mg/Kg	0.3	8/11/2011	CRW	EPA 335.4	
%moisture	7.5	Percent		8/11/2011	CRW	%moisture	

Authorized Signature

John Coddington, Lab Manager

MCL	EPA's Maximum Contaminant Level
ND	Not Detected
PQL	Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Wednesday, August 17, 2011

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1108122
Pace Project No.: 3051428

Sample: 1108122-02D Cell #1 Vadose Zon **Lab ID: 3051428001** Collected: 07/28/11 13:08 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.962 ± 0.192 (0.169)**	pCi/g	08/30/11 14:19	13982-63-3	
Radium-228	EPA 901.1m	**1.39 ± 0.326 (0.256)**	pCi/g	08/30/11 14:19	15262-20-1	

Sample: 1108122-03D Cell #2 Vadose Zon **Lab ID: 3051428002** Collected: 07/28/11 12:38 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**0.728 ± 0.139 (0.160)**	pCi/g	08/30/11 15:21	13982-63-3	
Radium-228	EPA 901.1m	**1.06 ± 0.243 (0.197)**	pCi/g	08/30/11 15:21	15262-20-1	

Sample: 1108122-04D Cell #3 Vadose Zon **Lab ID: 3051428003** Collected: 07/28/11 12:12 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.06 ± 0.200 (0.148)**	pCi/g	08/30/11 16:23	13982-63-3	
Radium-228	EPA 901.1m	**1.23 ± 0.255 (0.264)**	pCi/g	08/30/11 16:23	15262-20-1	

Sample: 1108122-05D Cell #4 Vadose Zon **Lab ID: 3051428004** Collected: 07/28/11 11:35 Received: 08/04/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	**1.26 ± 0.225 (0.193)**	pCi/g	08/31/11 08:13	13982-63-3	
Radium-228	EPA 901.1m	**1.33 ± 0.275 (0.203)**	pCi/g	08/31/11 08:13	15262-20-1	

Date: 09/01/2011 02:21 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1108122
Pace Project No.: 3051428

QC Batch: RADC/9145 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec
Associated Lab Samples: 3051428001, 3051428002, 3051428003, 3051428004

METHOD BLANK: 328770 Matrix: Solid
Associated Lab Samples: 3051428001, 3051428002, 3051428003, 3051428004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.103 (0.164)	pCi/g	08/31/11 09:15	
Radium-228	0.0150 ± 0.0230 (0.265)	pCi/g	08/31/11 09:15	

Date: 09/01/2011 02:21 PM

REPORT OF LABORATORY ANALYSIS

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-27943		*MBLK*				Batch ID:	**27943**	Analysis Date:		8/8/2011 4:57:21 PM	
Fluoride	ND	mg/Kg	0.30								
Chloride	ND	mg/Kg	1.5								
Nitrogen, Nitrate (As N)	ND	mg/Kg	0.30								
Sulfate	ND	mg/Kg	1.5								
Sample ID: LCS-27943		*LCS*				Batch ID:	**27943**	Analysis Date:		8/8/2011 5:14:46 PM	
Fluoride	1.603	mg/Kg	0.30	1.5	0	107	90	110			
Chloride	14.69	mg/Kg	1.5	15	0	97.9	90	110			
Nitrogen, Nitrate (As N)	7.669	mg/Kg	0.30	7.5	0	102	90	110			
Sulfate	30.27	mg/Kg	1.5	30	0	101	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-27881		*MBLK*				Batch ID:	**27881**	Analysis Date:		8/4/2011 11:50:00 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-27881		*LCS*				Batch ID:	**27881**	Analysis Date:		8/5/2011 12:24:05 AM	
Diesel Range Organics (DRO)	43.72	mg/Kg	10	50	0	87.4	66.7	119			
Sample ID: LCSD-27881		*LCSD*				Batch ID:	**27881**	Analysis Date:		8/5/2011 12:58:09 AM	
Diesel Range Organics (DRO)	43.16	mg/Kg	10	50	0	86.3	66.7	119	1.28	18.9	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1108122-02A MSD		*MSD*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 9:50:40 PM	
Gasoline Range Organics (GRO)	29.88	mg/Kg	5.0	27.14	0	110	57.7	165	2.65	15.5	
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 8:51:02 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: MB-27886		*MBLK*				Batch ID:	**27886**	Analysis Date:		8/5/2011 10:09:14 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 10:46:44 AM	
Gasoline Range Organics (GRO)	28.32	mg/Kg	5.0	25	0	113	88.8	124			
Sample ID: LCS-27886		*LCS*				Batch ID:	**27886**	Analysis Date:		8/5/2011 12:03:29 PM	
Gasoline Range Organics (GRO)	30.64	mg/Kg	5.0	25	0	123	86.4	132			
Sample ID: 1108122-02A MS		*MS*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 9:21:54 PM	
Gasoline Range Organics (GRO)	30.69	mg/Kg	5.0	27.14	0	113	57.7	165			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 8:51:02 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: MB-27886		*MBLK*				Batch ID:	**27886**	Analysis Date:		8/5/2011 10:09:14 AM	
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10								
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 BTEX LCS		*LCS*				Batch ID:	**R46966**	Analysis Date:		8/3/2011 11:15:37 AM	
Benzene	0.9808	mg/Kg	0.050	1	0	98.1	83.3	107			
Toluene	1.009	mg/Kg	0.050	1	0	101	74.3	115			
Ethylbenzene	0.9976	mg/Kg	0.050	1	0	99.8	80.9	122			
Xylenes, Total	3.048	mg/Kg	0.10	3	0	102	85.2	123			
Sample ID: LCS-27886		*LCS*				Batch ID:	**27886**	Analysis Date:		8/5/2011 12:32:12 PM	
Methyl tert-butyl ether (MTBE)	0.7885	mg/Kg	0.10	1	0	78.8	65.5	229			
Benzene	0.9503	mg/Kg	0.050	1	0	95.0	83.3	107			
Toluene	0.9900	mg/Kg	0.050	1	0	99.0	74.3	115			
Ethylbenzene	1.011	mg/Kg	0.050	1	0	101	80.9	122			
Xylenes, Total	3.050	mg/Kg	0.10	3	0	102	85.2	123			
Method: EPA Method 8082: PCB's											
Sample ID: 1108122-02AMSD		*MSD*				Batch ID:	**27919**	Analysis Date:		8/9/2011 4:08:42 PM	
Aroclor 1260	0.08788	mg/Kg	0.020	0.125	0	70.5	45	117	6.87	20	
Sample ID: MB-27919		*MBLK*				Batch ID:	**27919**	Analysis Date:		8/9/2011 1:06:26 PM	
Aroclor 1016	ND	mg/Kg	0.020								
Aroclor 1221	ND	mg/Kg	0.020								
Aroclor 1232	ND	mg/Kg	0.020								
Aroclor 1242	ND	mg/Kg	0.020								
Aroclor 1248	ND	mg/Kg	0.020								
Aroclor 1254	ND	mg/Kg	0.020								
Aroclor 1260	ND	mg/Kg	0.020								
Sample ID: LCS-27919		*LCS*				Batch ID:	**27919**	Analysis Date:		8/9/2011 1:52:32 PM	
Aroclor 1260	0.09690	mg/Kg	0.020	0.125	0	77.5	21.4	118			
Sample ID: 1108122-02AMS		*MS*				Batch ID:	**27919**	Analysis Date:		8/9/2011 3:23:02 PM	
Aroclor 1260	0.09414	mg/Kg	0.020	0.124	0	75.8	45	117			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: mb-27886		*MBLK*				Batch ID:	**27886**	Analysis Date:	8/8/2011 6:17:38 PM		
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050								
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050								
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050								
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050								
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050								
Naphthalene	ND	mg/Kg	0.10								
1-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
Acetone	ND	mg/Kg	0.75								
Bromobenzene	ND	mg/Kg	0.050								
Bromodichloromethane	ND	mg/Kg	0.050								
Bromoform	ND	mg/Kg	0.050								
Bromomethane	ND	mg/Kg	0.15								
2-Butanone	ND	mg/Kg	0.50								
Carbon disulfide	ND	mg/Kg	0.50								
Carbon tetrachloride	ND	mg/Kg	0.10								
Chlorobenzene	ND	mg/Kg	0.050								
Chloroethane	ND	mg/Kg	0.10								
Chloroform	ND	mg/Kg	0.050								
Chloromethane	ND	mg/Kg	0.25								
2-Chlorotoluene	ND	mg/Kg	0.050								
4-Chlorotoluene	ND	mg/Kg	0.050								
cis-1,2-DCE	ND	mg/Kg	0.050								
cis-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10								
Dibromochloromethane	ND	mg/Kg	0.050								
Dibromomethane	ND	mg/Kg	0.10								
1,2-Dichlorobenzene	ND	mg/Kg	0.050								
1,3-Dichlorobenzene	ND	mg/Kg	0.050								
1,4-Dichlorobenzene	ND	mg/Kg	0.050								
Dichlorodifluoromethane	ND	mg/Kg	0.050								
1,1-Dichloroethane	ND	mg/Kg	0.10								
1,1-Dichloroethene	ND	mg/Kg	0.050								
1,2-Dichloropropane	ND	mg/Kg	0.050								
1,3-Dichloropropane	ND	mg/Kg	0.050								
2,2-Dichloropropane	ND	mg/Kg	0.10								
1,1-Dichloropropene	ND	mg/Kg	0.10								
Hexachlorobutadiene	ND	mg/Kg	0.10								
2-Hexanone	ND	mg/Kg	0.50								
Isopropylbenzene	ND	mg/Kg	0.050								
4-Isopropyltoluene	ND	mg/Kg	0.050								

Qualifiers:

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QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: mb-27886		*MBLK*				Batch ID:	**27886**	Analysis Date:		8/8/2011 6:17:38 PM	
4-Methyl-2-pentanone	ND	mg/Kg	0.50								
Methylene chloride	ND	mg/Kg	0.15								
n-Butylbenzene	ND	mg/Kg	0.050								
n-Propylbenzene	ND	mg/Kg	0.050								
sec-Butylbenzene	ND	mg/Kg	0.050								
Styrene	ND	mg/Kg	0.050								
tert-Butylbenzene	ND	mg/Kg	0.050								
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050								
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050								
Tetrachloroethene (PCE)	ND	mg/Kg	0.050								
trans-1,2-DCE	ND	mg/Kg	0.050								
trans-1,3-Dichloropropene	ND	mg/Kg	0.050								
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10								
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050								
1,1,1-Trichloroethane	ND	mg/Kg	0.050								
1,1,2-Trichloroethane	ND	mg/Kg	0.050								
Trichloroethene (TCE)	ND	mg/Kg	0.050								
Trichlorofluoromethane	ND	mg/Kg	0.050								
1,2,3-Trichloropropane	ND	mg/Kg	0.10								
Vinyl chloride	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: lcs-27886		*LCS*				Batch ID:	**27886**	Analysis Date:		8/8/2011 6:46:06 PM	
Benzene	0.8777	mg/Kg	0.050	1	0	87.8	70.7	123			
Toluene	0.9248	mg/Kg	0.050	1	0	92.5	80	120			
Chlorobenzene	0.9290	mg/Kg	0.050	1	0	92.9	70	130			
1,1-Dichloroethene	0.8232	mg/Kg	0.050	1	0	82.3	63.1	148			
Trichloroethene (TCE)	0.8422	mg/Kg	0.050	1	0	84.2	63.2	114			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: 1108122-02Amsd		*MSD*				Batch ID:	**27900**	Analysis Date:		8/9/2011 6:40:26 PM	
Acenaphthene	1.413	mg/Kg	0.20	1.671	0	84.6	34.9	118	1.83	30	
4-Chloro-3-methylphenol	2.434	mg/Kg	0.50	3.332	0	73.1	28.8	126	2.49	30	
2-Chlorophenol	2.309	mg/Kg	0.20	3.332	0	69.3	26.7	115	2.66	30	
4-Nitrophenol	3.278	mg/Kg	0.25	3.332	0	98.4	16	171	22.7	30	
Pentachlorophenol	2.468	mg/Kg	0.40	3.332	0.0668	72.0	26.8	134	3.04	30	
Phenol	2.233	mg/Kg	0.20	3.332	0	67.0	29.6	115	3.52	30	
Sample ID: mb-27900		*MBLK*				Batch ID:	**27900**	Analysis Date:		8/9/2011 4:41:43 PM	
Acenaphthene	ND	mg/Kg	0.20								
Acenaphthylene	ND	mg/Kg	0.20								
Anthracene	ND	mg/Kg	0.20								
Benz(a)anthracene	ND	mg/Kg	0.20								
Benzo(a)pyrene	ND	mg/Kg	0.20								
Benzo(b)fluoranthene	ND	mg/Kg	0.20								
Benzo(g,h,i)perylene	ND	mg/Kg	0.20								
Benzo(k)fluoranthene	ND	mg/Kg	0.20								
4-Chloro-3-methylphenol	ND	mg/Kg	0.50								
2-Chlorophenol	ND	mg/Kg	0.20								
Chrysene	ND	mg/Kg	0.20								
Dibenz(a,h)anthracene	ND	mg/Kg	0.20								
2,4-Dichlorophenol	ND	mg/Kg	0.40								
2,4-Dimethylphenol	ND	mg/Kg	0.30								
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50								
2,4-Dinitrophenol	ND	mg/Kg	0.40								
Fluoranthene	ND	mg/Kg	0.20								
Fluorene	ND	mg/Kg	0.20								
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.20								
2-Methylnaphthalene	ND	mg/Kg	0.20								
2-Methylphenol	ND	mg/Kg	0.50								
3+4-Methylphenol	ND	mg/Kg	0.20								
Naphthalene	ND	mg/Kg	0.20								
2-Nitrophenol	ND	mg/Kg	0.20								
4-Nitrophenol	ND	mg/Kg	0.25								
Pentachlorophenol	ND	mg/Kg	0.40								
Phenanthrene	ND	mg/Kg	0.20								
Phenol	ND	mg/Kg	0.20								
2,4,5-Trichlorophenol	ND	mg/Kg	0.20								
2,4,6-Trichlorophenol	ND	mg/Kg	0.20								
Sample ID: lcs-27900		*LCS*				Batch ID:	**27900**	Analysis Date:		8/9/2011 5:11:20 PM	
Acenaphthene	1.356	mg/Kg	0.20	1.67	0	81.2	31.3	107			
4-Chloro-3-methylphenol	2.326	mg/Kg	0.50	3.33	0	69.8	33.1	110			
2-Chlorophenol	2.441	mg/Kg	0.20	3.33	0	73.3	31.6	99.2			
4-Nitrophenol	2.841	mg/Kg	0.25	3.33	0	85.3	18.3	117			
Pentachlorophenol	1.873	mg/Kg	0.40	3.33	0	56.2	16.5	111			
Phenol	2.267	mg/Kg	0.20	3.33	0	68.1	31.6	98.9			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: 1108122-02Ams		*MS*				Batch ID: **27900**		Analysis Date:	8/9/2011 6:10:40 PM		
Acenaphthene	1.439	mg/Kg	0.20	1.666	0	86.4	34.9	118			
4-Chloro-3-methylphenol	2.374	mg/Kg	0.50	3.322	0	71.5	28.8	126			
2-Chlorophenol	2.371	mg/Kg	0.20	3.322	0	71.4	26.7	115			
4-Nitrophenol	4.118	mg/Kg	0.25	3.322	0	124	16	171			E
Pentachlorophenol	2.544	mg/Kg	0.40	3.322	0.0668	74.6	26.8	134			
Phenol	2.156	mg/Kg	0.20	3.322	0	64.9	29.6	115			
Method: EPA Method 7471: Mercury											
Sample ID: MB-27939		*MBLK*				Batch ID: **27939**		Analysis Date:	8/9/2011 11:08:40 AM		
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-27939		*LCS*				Batch ID: **27939**		Analysis Date:	8/9/2011 11:10:23 AM		
Mercury	0.1642	mg/Kg	0.033	0.167	0.0012	97.8	80	120			

Qualifiers:

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QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-27895		*MBLK*				**Batch ID: 27895**		**Analysis Date:**		**8/5/2011 9:55:28 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								
Copper	ND	mg/Kg	0.30								
Iron	ND	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Manganese	ND	mg/Kg	0.10								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								
Sample ID: MB-27929		*MBLK*				**Batch ID: 27929**		**Analysis Date:**		**8/8/2011 7:53:11 AM**	
Arsenic	ND	mg/Kg	2.5								
Barium	ND	mg/Kg	0.10								
Cadmium	ND	mg/Kg	0.10								
Calcium	ND	mg/Kg	25								
Chromium	ND	mg/Kg	0.30								
Copper	ND	mg/Kg	0.30								
Iron	ND	mg/Kg	1.0								
Lead	ND	mg/Kg	0.25								
Magnesium	ND	mg/Kg	25								
Manganese	ND	mg/Kg	0.10								
Potassium	ND	mg/Kg	50								
Selenium	ND	mg/Kg	2.5								
Silver	ND	mg/Kg	0.25								
Sodium	ND	mg/Kg	25								
Uranium	ND	mg/Kg	5.0								
Zinc	ND	mg/Kg	2.5								
Sample ID: LCS-27895		*LCS*				**Batch ID: 27895**		**Analysis Date:**		**8/5/2011 9:58:08 AM**	
Arsenic	28.16	mg/Kg	2.5	25	0	113	80	120			
Barium	26.67	mg/Kg	0.10	25	0.0306	107	80	120			
Cadmium	26.59	mg/Kg	0.10	25	0	106	80	120			
Chromium	26.67	mg/Kg	0.30	25	0	107	80	120			
Copper	24.77	mg/Kg	0.30	25	0	99.1	80	120			
Iron	26.66	mg/Kg	1.0	25	0	107	80	120			
Lead	26.79	mg/Kg	0.25	25	0	107	80	120			
Manganese	26.43	mg/Kg	0.10	25	0.0254	106	80	120			
Selenium	28.74	mg/Kg	2.5	25	0	115	80	120			
Silver	5.190	mg/Kg	0.25	5	0	104	80	120			
Uranium	25.66	mg/Kg	5.0	25	0	103	80	120			
Zinc	30.31	mg/Kg	2.5	25	0.8961	118	80	120			
Sample ID: LCS-27929		*LCS*				**Batch ID: 27929**		**Analysis Date:**		**8/8/2011 7:55:49 AM**	
Arsenic	24.99	mg/Kg	2.5	25	0	99.9	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: BMG Landfarm & Pond **Work Order:** 1108122

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Soil Metals											
Sample ID: LCS-27929		*LCS*				**Batch ID: 27929**		**Analysis Date: 8/8/2011 7:55:49 AM**			
Barium	25.06	mg/Kg	0.10	25	0	100	80	120			
Cadmium	25.31	mg/Kg	0.10	25	0	101	80	120			
Calcium	2545	mg/Kg	25	2500	0	102	80	120			
Chromium	25.70	mg/Kg	0.30	25	0	103	80	120			
Copper	26.55	mg/Kg	0.30	25	0	106	80	120			
Iron	25.65	mg/Kg	1.0	25	0	103	80	120			
Lead	24.90	mg/Kg	0.25	25	0	99.6	80	120			
Magnesium	2570	mg/Kg	25	2500	0	103	80	120			
Manganese	24.42	mg/Kg	0.10	25	0	97.7	80	120			
Potassium	2485	mg/Kg	50	2500	0	99.4	80	120			
Selenium	24.83	mg/Kg	2.5	25	0	99.3	80	120			
Silver	5.113	mg/Kg	0.25	5	0	102	80	120			
Sodium	2543	mg/Kg	25	2500	0	102	80	120			
Uranium	26.10	mg/Kg	5.0	25	0	104	80	120			
Zinc	25.49	mg/Kg	2.5	25	0	102	80	120			

Qualifiers:

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J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL Date Received: 8/1/2011

Work Order Number 1108122 Received by: LNM

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ 08/01/11
Signature Date

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**2.9°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: BMG Landfarm & Pond

Project #: AES 040605

Project Manager: D. Watson

Sampler: N. Willis

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1108122	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) C6-C36	~~TPH (Method 418.1)~~ Cyanide	EDB (Method 504.1)	8310 (PNA or PAH) Benzo-a-pyrene 6020/6010/7471 Phenols	RCRA Metals see below	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOCs including naphthalene	8270 (Semi-VOA)	300.0 Chlorides	Radioactivity Radium-226 Radium-228	PCBs	pH, Spec Cond (Cations/Anions)	Air Bubbles (Y or N) see below
7-28-11	1401	soil	Treatment Zone Composite	1-MeOH kit 3-4ozglass	MeOH	-1	X		X									X				
7-28-11	1308		Cell #1 Vadose Zone			-2			X	X		X	X			X		X	X	X	X	
7-28-11	1238		Cell #2 Vadose Zone			-3			X	X		X	X			X		X	X	X	X	
7-28-11	1212		Cell #3 Vadose Zone			-4			X	X		X	X			X		X	X	X	X	
7-28-11	1135		Cell #4 Vadose Zone			-5			X	X		X	X			X		X	X	X	X	
			MeOH trip blank	1-MeOH kit	MeOH	-6										X						

Date	Time	Relinquished by:	Received by:	Date	Time
8-1-11	0815	Nathan Willis	Deborah Watson	8-1-11	0815
8-1-11	1411	Deborah Watson	Christine Walters	8/1/11	1411
8/1/11	1710	Christine Walters	[signature]	8/2/11	800

Remarks:
Metals (6020/6010/7471): As, Ba, Cd, Cr, Pb, total Hg, Se, Ag, U, Cu, Fe, Mn, Zn, Mg, Na, K
cations/anions: F, NO_3 as N, SO_4, Ca
PAHs: benzo-a-pyrene, phenols
Please call w/ questions.

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.