NM2 - ___4_____

MONITORING REPORTS YEAR(S):

___2012 - 2013___

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division

April 8, 2014

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

RE: 1st and 2nd Quarter 2013 Monitoring Report Review
Benson-Montin-Greer Drilling Corporation
BMG Evap. Pond/Landfarm: Permit NM2-004
Location: Unit D of Section 20, Township 25 North, Range 1 East, NMPM
Rio Arriba County, New Mexico

Dear Mr. Diamond:

The Oil Conservation Division (OCD) has completed the review of Benson-Montin-Greer Drilling Corporation's (BMG) 1st and 2nd Quarter 2013 Monitoring Report, dated October 9, 2013. OCD has determined that the vadose zone results were not compared to the established background results or PQL (whichever is higher) in order to determine if a released had occurred and if the required follow-up actions are required to be completed. The five year vadose sampling event has not been implemented and demonstrated. Also, the incorrect test method for TPH was utilized and demonstrated in regards to vadose zone monitoring.

Pursuant to Paragraph (5) of 19.15.36.15.E NMAC, "If vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations, then the operator shall notify the division's environmental bureau of the exceedance, and shall immediately collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. The operator shall *submit the results of the re-sampling event and a response action plan for the division's approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm's operation to prevent further contamination and, if necessary, a plan for remediating existing contamination.*" The additional testing required of Paragraph (5) of 19.15.36.15.E NMAC demonstrated and confirmed the downward migration of TPH contamination three to four feet into the native soil (vadose zone) below the soil being remediated (treatment zone) on the ground surface. OCD did not receive the required response action plan to address the confirmed contamination. Please complete the requirements of Paragraph (5) of 19.15.36.15.E NMAC. Tables 3 and 4 of the written report identify and compare the results for BTEX, DRO, GRO, MRO, and chlorides to "NMOCD Rule 36 Threshold" values. The "NMOCD Rule 36 Threshold" values seem to coincide with the

additional lift limits for the treatment zone as identified within the permit conditions combined with the additional lift limits for the treatment zone of Part 36, specifically Subsection D of 19.15.36.15 NMAC and are not applicable for a vadose zone demonstration. The requirements of Subsection E of 19.15.36.15 NMAC are clear that the operator "shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." Please complete this task and submit with the required response action plan in accordance with Paragraph (5) of 19.15.36.15.E NMAC.

Pursuant to Paragraph (3) of 19.15.36.15.E NMAC, "The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone, using the methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC at least every five years and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." OCD has reviewed the administrative file and has been unable to locate the five year vadose sampling demonstration. Part 36 became effective February 14, 2007. The five year sampling event is due, please provide. Regarding the five year sampling event, please do not perform laboratory analysis for all the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. As underlined in the above reference of Paragraph (1) of 19.15.36.15.E NMAC, the "methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC" are those identified in Subsection F of 19.15.36.15 NMAC: such as "determined by *EPA SW-846 methods 6010B or 6020* or other EPA method approved by the division..." Please perform the five year monitoring program on all of the active landfarm cells and submit all future sampling results demonstrating compliance of Paragraph (3) of 19.15.36.15.E NMAC by EPA SW-846 methods 6010B or 6020.

In regards to utilizing the proper TPH test method for vadose zone monitoring, in accordance with Paragraph (2) of 19.15.36.15.E NMAC the operator shall analyze the samples from the vadose zone "using the methods specified below for TPH, BTEX and chlorides and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The "methods specified below for TPH, BTEX and chlorides" are those identified in Subsection F of 19.15.36.15 NMAC: such as "TPH, as determined by *EPA method 418.1* or other EPA method approved by the division..." Pursuant to the Transitional Provisions of Subsection A of 19.15.36.20.NMAC, "Existing surface waste management facilities shall comply with the operational, waste acceptance and closure requirements provided in 19.15.36 NMAC, except as otherwise specifically provided in the applicable permit or order, or in a specific waiver, exception or agreement that the division has granted in writing to the particular surface waste management facility." The most common vadose zone monitoring (commonly referred to, but incorrectly as "Treatment Zone Monitoring" within existing landfarm permits) condition in an existing landfarm permit is as follows: "The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually." The permit condition only identified the constituent and does not specify the test method. Part 36 specifies EPA Method 418.1 as the required vadose zone analyses for TPH. Please submit all future vadose zone sampling results demonstrating TPH by EPA Method 418.1.

Please note that the submittal of treatment zone monitoring results alone does not constitute a request for an successive/additional lift. The permit condition specifies "Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of remediated soils." OCD requires such request to be made under a separate cover from other reporting and include the supporting analytical results and an updated facility map that illustrates and identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained.

Please complete the required actions of 19.15.36.15.E NMAC and provide OCD with the additional sampling results compared to background or PQL and a response action plan within 45 days of receipt of this letter. Please preform the five year monitoring program on all of the active landfarm. Also, please submit future vadose zone sampling results demonstrating TPH by EPA Method 418.1 and compliance to Paragraph (3) of 19.15.36.15.E NMAC by EPA SW-846 methods 6010B or 6020. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec
Animas Environmental Services, Inc., Farmington, NM 87401

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

November 18, 2013

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

RE: Notice of Report Error and Pending Report Re-Submittal
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico
Permit # NM-02-0004.

Dear Mr. Jones:

Based on our recent telephone conversation on November 6, 2013, Animas Environmental Services, LLC (AES) respectfully requests that the report submitted by AES, dated October 9, 2013, and entitled *1st and 2nd Quarter 2013 Monitoring Report* for Benson Montin Greer's (BMGs) Centralized Surface Waste Management Facility be disregarded. AES is in the process of revising the report to address the concerns that were identified during our teleconference call. Additionally, AES has scheduled a background sampling event for this BMG facility to occur this week. We appreciate your assistance in identifying issues of concern for this project.

If you have any questions regarding the site or re-submittal of the recent report, please do not hesitate to contact me at (505) 564-2281.

Sincerely,

Deborah Watson, P.G.
Project Manager

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

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October 9, 2013

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

RE: 1st and 2nd Quarter 2013 Monitoring Report
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Dear Mr. Jones:

As part of 1st and 2nd Quarter 2013 landfarm sampling, 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 first quarter sampling event was conducted on March 29, 2013, and the second quarter sampling event was conducted on July 1, 2013. 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

1.1 Evaporation Pond Sampling 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.

1.2 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed 1st and 2nd Quarter 2013 groundwater monitoring and sampling of the evaporation pond monitor wells on March 29 and July 1, 2013, respectively. 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.

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 onto Water Sample Collection Forms. 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) – USEPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – USEPA Method 8015B;
- Chlorides – USEPA Method 300.0; and
- Total Dissolved Solids (TDS) – Standard Method 2540C.

1.2.1 Groundwater Measurement Data, March 2013

Groundwater temperature ranged from 8.84°C (IW) to 12.33°C (MW-3). Conductivity readings were between 0.707 mS/cm (MW-1) and 261.3 mS/cm (IW). Field pH readings ranged from 6.56 to 7.45. Groundwater ORP ranged from 9.7 mV (IW) to 20.6 mV (MW-4).

1.2.2 Groundwater Analytical Results, March 2013

Analytical results from groundwater samples collected for the 1st Quarter 2013 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 3.8 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. The results above laboratory detection limits have been summarized as follows:

- Chlorides: IW (98,000 mg/L), MW-1 (9.6 mg/L), MW-2 (28 mg/L), MW-3 (20 mg/L), and MW-4 (12 mg/L).
- TDS: IW (154,000 mg/L), MW-1 (810 mg/L), MW-2 (590 mg/L), MW-3 (680 mg/L), and MW-4 (750 mg/L).

1.2.3 Groundwater Measurement Data, July 2013

Groundwater temperature ranged from 13.05°C (MW-1) to 18.31°C (IW). Conductivity readings were between 0.427 mS/cm (MW-3) and 86.8 mS/cm (IW). Field pH readings ranged from 6.38 to 7.46. Groundwater ORP ranged from 9.6 mV (IW) to 225.5 mV (IW).

1.2.4 Groundwater Analytical Results, July 2013

Analytical results from groundwater samples collected for the 2nd Quarter 2013 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX. All monitor wells also had TPH concentrations below laboratory detection limits, with the exception of the interstitial well, which had a reported concentration of 4.6 mg/L DRO.

A summary of water quality data is included in Table 1, and the analytical results for the groundwater samples are presented in Table 2. Dissolved phase concentrations are also included on Figures 1a and 1b. Groundwater laboratory analytical reports are included in the Appendix.

2.0 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 at a depth of 0.5 feet below ground surface (bgs) during the 1st and 2nd quarters. 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.

During each sampling event, 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 containers were 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.

2.1 Laboratory Analytical Methods

The composite samples from the treatment zone were 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.

2.2 Treatment Zone Analytical Results

2.2.1 1st Quarter 2013 Treatment Zone Results

Laboratory analytical results for the treatment zone in March 2013 are summarized as follows:

- BTEX and TPH-GRO concentrations were reported below laboratory detection limits;
- TPH concentrations were reported at 180 mg/kg DRO and 420 mg/kg MRO;
- The chloride concentration was reported at 22 mg/kg.

2.2.2 2nd Quarter 2013 Treatment Zone Results

Laboratory analytical results for July 2013 are summarized as follows:

- BTEX and TPH-GRO concentrations were reported below laboratory detection limits;
- TPH concentrations were reported at 880 mg/kg DRO and 1,500 mg/kg MRO;
- The chloride concentration was reported at 22 mg/kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented on Table 3 and on Figures 2 and 3. Laboratory reports are presented in the Appendix.

3.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility, one random sample was collected for laboratory analysis from each individual cell (Cells #1 through #4) during the 1st and 2nd quarters. Additionally, because Cells #1 and #3 exceeded the NMOCD threshold for TPH in the vadose zone in the 4th Quarter of 2012, a total of four random samples were collected for laboratory analysis from each of those cells per NMAC 19.15.36.15E(5.)

During each sampling event, 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 Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

Soil samples from the vadose zone in March and July 2013 were analyzed for the following:

- BTEX per USEPA Method 8021B or 8260B;
- TPH (GRO, MRO, and DRO) per USEPA Method 8015B;
- Chlorides and cations/anions per USEPA Method 300.0;
- Metals per USEPA Method 6010B; and
- Mercury per USEPA Method 7471; and
- Cyanide per USEPA Method 335.4.

Additionally, the samples collected from Cells #1 and #3 during March 2013 were also analyzed for the following:

- Benzo(a)pyrene and phenol per USEPA Method 8270C;
- Volatile organic compounds per USEPA Method 8260B;
- Radioactivity per USEPA Method 901.1m;
- PCBs per USEPA Method 8082; and
- pH and conductivity.

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

3.2 Vadose Zone Analytical Results

3.2.1 1st Quarter 2013 Vadose Zone Results

Soil samples collected from the vadose zone within the four treatment cells during March 2013 are summarized as follows:

- Benzene and BTEX - below laboratory detection limits in each cell.
- TPH - below laboratory detection limits in each cell, except Cell #1 sample VZ-1C (104 mg/kg) and Cell #3 sample VZ-3B (101 mg/kg).
- Chloride - below laboratory detection limits in each cell, except Cell #1 sample VZ-1D (34 mg/kg).
- Metals – Arsenic, cadmium, selenium, and silver were below laboratory detection limits in each sample. Barium concentrations ranged from 56 mg/kg in Cell #1 to 190 mg/kg in Cell #3. The highest chromium concentrations (20

mg/kg) were recorded in Cells #1, #3, and #4. The highest lead concentrations (8.0 mg/kg) were reported in Cells #1 and #3.

- Mercury – below laboratory detection limits in each cell, except Cell #2 (0.071 mg/kg).
- Cyanide – below laboratory detection limits in each cell.
- Benzo(a)pyrene and phenol – below laboratory detection limits in each sample.
- VOCs – below laboratory detection limits in each sample.
- Radioactivity - (combined Radium-226 and Radium-228) – Values ranged from 2.155 Pci/g up to 4.023 Pci/g.
- PCBs – below laboratory detection limits in each sample.
- pH ranged from 7.70 to 8.50, and specific conductance ranged from 130 µmhos/cm in Cell #1 to 1,200 µmhos/cm in Cell #3.

The locations of all samples, as well as analytical results (BTEX, TPH, and chlorides), are presented on Figure 4. Laboratory analytical results are summarized in Tables 4 through 8.

3.2.2 2nd Quarter 2013 Vadose Zone Results

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

- Benzene and BTEX - below laboratory detection limits in each cell;
- TPH - below laboratory detection limits in each cell, except Cell #3 which had a reported DRO concentration of 16 mg/kg; and
- Chloride - below laboratory detection limit in each cell, except Cell #3 with 8.6 mg/kg.

The locations of all samples, as well as analytical results are presented on Figure 5 and Table 4. Laboratory reports are presented in the Appendix.

4.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling along with landfarm sampling at the BMG Surface Waste Management Facility for the 1st Quarter 2013 in March 2013 and the 2nd Quarter in July 2013. Based on the results of the March and July 2013 sampling events, 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. However, the interstitial well (IW) had reported concentrations above laboratory detection limits for TPH-DRO, chloride, and TDS during both the March and July 2013 sampling events.

The treatment zone composite samples showed that benzene and total BTEX concentrations were reported below laboratory detection limits and the NMOCD Rule 36 Threshold for benzene (10 mg/kg) and total BTEX (50 mg/kg). The March 2013 TPH concentration was reported below laboratory detection limits for GRO, 180 mg/kg DRO, and 420 mg/kg MRO. During July 2013, the TPH concentration was also reported below laboratory detection limits for GRO, 880 mg/kg DRO, and 1.500 mg/kg MRO. The chloride concentration was reported at 22 mg/kg in both March and July 2013.

For the vadose zone, sampling results from March 2013 showed that total BTEX and TPH concentrations were reported below laboratory detection limits in all vadose zone cells sampled, except Cell #1 sample VZ-1C (104 mg/kg TPH) and Cell #3 sample VZ-3B (101 mg/kg TPH). Chloride concentrations were reported below the NMOCD threshold of 500 mg/kg for chloride in each cell. Vadose zone sampling results from July 2013 showed that BTEX and TPH concentrations were reported below laboratory detection limits in all cells sampled, except Cell #3 (TPH-DRO at 16 mg/kg). Chloride concentrations were also reported below the NMOCD threshold of 500 mg/kg for chloride.

On February 4, 2013, AES submitted a notification to NMOCD documenting the vadose zone exceedance within Cells #1 and #3 in December 2012 (4th Quarter 2012). An expanded sampling event of the vadose zone was conducted in March 2013. Based on the laboratory results from March 2013, TPH values have decreased significantly since the exceedance in December 2012. Per Brad Jones direction, even though the TPH values continue to decrease, an action plan is currently in progress to determine cause and mitigation of exceedance within the vadose zone.

The third quarter 2013 sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils is being conducted in early October 2013. The third quarter monitoring report will be prepared and submitted upon receipt of laboratory analytical results.

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

Sincerely,

Landrea R. Cupps

Landrea Cupps
Environmental Scientist

Deborah Watson, P.G.
Project Manager

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Treatment Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 4. Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 5. Vadose Zone Soil Summary of Metals Analytical Results
Table 6. Vadose Zone Soil Summary of Major Cations/Anions Analytical Results
Table 7. Vadose Zone Soil Volatile Organic Compound Analytical Results
Table 8. Vadose Zone Soil 8270, PCBs, and Radioactivity Analytical Results

Figures

Figure 1a, 1b. Location of BMG Evaporation Pond and Monitor Well Locations and Concentrations, 1st and 2nd Quarters 2013
Figure 2. Treatment Zone Monitoring Locations and Results, 1st Quarter 2013
Figure 3. Treatment Zone Monitoring Locations and Results, 2nd Quarter 2013
Figure 4. Vadose Zone Monitoring Locations and Results, 1st Quarter 2013
Figure 5. Vadose Zone Monitoring Locations and Results, 2nd Quarter 2013

Appendix

Water Sample Collection Forms (March and July 2013)
Hall Analytical Reports (1304059 and 1307182)

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

Brandon Powell
NM Oil Conservation Division
1000 Rio Brazos Road
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
IW	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
IW	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
IW	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
IW	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
IW	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
IW	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
IW	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
IW	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
IW	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
IW	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
IW	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
IW	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
IW	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
IW	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
IW	3-Jan-12	TBS	9.70	8.33	187.0	0.31	5.89	308.1
IW	22-Mar-12	TBS	9.60	12.74	190.7	0.29	6.19	-42.1
IW	26-Jun-12	TBS	9.61	18.18	185.2	0.81	6.44	-82.7
IW	18-Sep-12	TBS	9.68	17.63	173.6	0.89	6.62	23.6
IW	6-Dec-12	TBS	9.88	9.47	172.2	0.89	6.53	51.2
IW	29-Mar-13	TBS	9.77	8.84	261.3	0.84	6.56	9.7
IW	1-Jul-13	TBS	9.70	18.31	86.8	3.79	7.14	9.6
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

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-1	3-Jan-12	TBS	38.95	11.48	0.918	4.25	7.11	383.8
MW-1	22-Mar-12	TBS	39.95	15.05	0.950	3.62	7.25	60.9
MW-1	26-Jun-12	TBS	40.09	13.03	0.940	8.04	5.78	280.4
MW-1	18-Sep-12	TBS	40.19	13.00	0.902	3.77	7.46	53.6
MW-1	6-Dec-12	TBS	40.33	11.82	0.846	4.90	7.52	92.6
MW-1	29-Mar-13	TBS	40.52	12.09	0.707	6.60	7.36	20.5
MW-1	1-Jul-13	TBS	40.66	13.05	0.868	5.06	7.23	225.5
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
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-2	3-Jan-12	TBS	40.91	10.67	0.997	3.21	8.54	262.2
MW-2	22-Mar-12	TBS	40.99	13.35	0.929	3.33	7.32	52.5
MW-2	26-Jun-12	TBS	41.13	13.01	0.921	5.72	6.19	200.9
MW-2	18-Sep-12	TBS	41.24	14.36	0.481	8.21	7.74	29.5
MW-2	6-Dec-12	TBS	41.38	11.02	0.899	4.21	7.59	93.0
MW-2	29-Mar-13	TBS	41.54	11.84	1.268	3.74	7.42	20.4
MW-2	1-Jul-13	TBS	41.7	16.20	0.855	4.83	7.46	175.5
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

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-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-3	3-Jan-12	TBS	40.13	11.53	0.874	3.52	7.50	303.1
MW-3	22-Mar-12	TBS	40.23	13.06	0.902	4.38	7.22	60.5
MW-3	26-Jun-12	TBS	40.38	14.81	0.887	7.67	6.42	174.6
MW-3	18-Sep-12	TBS	40.46	14.45	0.461	7.90	7.60	30.4
MW-3	6-Dec-12	TBS	40.6	11.86	0.772	4.92	7.45	99.9
MW-3	29-Mar-13	TBS	40.77	12.33	1.298	3.82	7.45	16.0
MW-3	1-Jul-13	TBS	40.92	14.02	0.427	6.21	7.32	131.5
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
MW-4	3-Jan-12	TBS	40.71	11.95	0.959	5.55	7.54	364.5
MW-4	22-Mar-12	TBS	40.74	14.18	0.985	5.55	7.29	54.8
MW-4	26-Jun-12	TBS	40.89	14.98	0.965	9.16	5.74	276.9
MW-4	18-Sep-12	TBS	41.00	13.26	0.880	5.68	7.44	61.5
MW-4	6-Dec-12	TBS	41.14	12.22	0.909	4.33	7.38	75.3
MW-4	29-Mar-13	TBS	41.32	11.25	1.388	7.14	7.32	20.6
MW-4	1-Jul-13	TBS	41.47	13.81	0.890	6.27	6.38	197.7

TABLE 2
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	250*	1,000*
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
IW	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
IW	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
IW	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
IW	30-Dec-08	NOT SAMPLED - LOW YIELD								
IW	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
IW	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
IW	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
IW	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
IW	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
IW	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
IW	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
IW	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
IW	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
IW	03-Jan-12	<2.0	<2.0	<2.0	<4.0	0.19	5.4	<5.0	140,000	172,000
IW	22-Mar-12	<5.0	<5.0	<5.0	<10	0.37	5.4	<5.0	150,000	170,000
IW	26-Jun-12	<5.0	<5.0	<5.0	<10	<0.25	10	<5.0	130,000	177,000
IW	18-Sep-12	<5.0	<5.0	<5.0	<10	<0.25	<3.0	<15	120,000	170,000
IW	06-Dec-12	<10	<10	<10	<20	<0.50	6.9	<5.0	110,000	159,000
IW	29-Mar-13	<10	<10	<10	<20	<0.50	3.8	<5.0	98,000	154,000
IW	01-Jul-13	<10	<10	<10	<20	<0.50	4.6	<5.0	80,000	145,000

TABLE 2
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**	**250***	**1,000***
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
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-1	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	820
MW-1	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	800
MW-1	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	11	790
MW-1	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	654
MW-1	06-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	10	610
MW-1	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	9.6	810
MW-1	01-Jul-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	9.2	640
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

TABLE 2
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	250*	1,000*
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-2	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	760
MW-2	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	690
MW-2	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	610
MW-2	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	30	615
MW-2	06-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	500
MW-2	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	28	590
MW-2	01-Jul-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	26	580
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
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

TABLE 2
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**	**250***	**1,000***
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-3	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	23	720
MW-3	22-Mar-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	670
MW-3	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	555
MW-3	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	690
MW-3	06-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	600
MW-3	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	20	680
MW-3	01-Jul-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	20	630
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

TABLE 2
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**	**250***	**1,000***
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
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830
MW-4	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	19	**1,100**
MW-4	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	660
MW-4	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	**1,010**
MW-4	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	660
MW-4	06-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	760
MW-4	29-Mar-13	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	750
MW-4	01-Jul-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	10	608

NOTE: NE = Not Established

* Protective of domestic water supplies (NMAC 20.6.2.3103(b))

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
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100/2,500*			*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
Treatment Zone	#1	1)N 36° 23.358' W 106° 52.011' 2)N 36° 23.395' W 106° 51.925' 3)N 36° 23.362' W 106° 50.840' 4)N 36° 23.327' W 106° 51.932	3-Jan-12	1.5	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21.0

TABLE 3
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B***				***8015***			***300***
		NMOCD Rule 36 Threshold			***50 BTEX (Benzene <10 ppm)***				***100/2,500***			***500***
Treatment Zone	#1	1)N 36.389600° W 106.867612° 2)N 36.389565° W 106.865722° 3)N 36.389158° W 106.865205° 4)N 36.389087° W 106.864053°	22-Mar-12	0.5	<0.25	<0.25	<0.25	<0.50	<25	**310**	**340**	<15
Treatment Zone	#1	1)N 36.38936° W 106.86703° 2)N 36.39032° W 106.86684° 3)N 36.38916° W 106.86445° 4)N 36.38981° W 106.86572°	26-Jun-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**140**	**400**	<15

TABLE 3
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100/2,500*			*500*
Treatment Zone	#1	1)N 36.38947° W 106.86750° 2)N 36.39030° W 106.86658° 3)N 36.38888° W 106.86435° 4)N 36.38928° W 106.86491°	18-Sep-12	0.5	<0.50	<0.50	<0.50	<1.0	<50	**2,800**	**4,200**	21
Treatment Zone	#1	1)N 36.38915° W 106.86651° 2)N 36.38985° W 106.86630° 3)N 36.38914° W 106.86491° 4)N 36.38950° W 106.86748°	6-Dec-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**960**	**3,000**	31

TABLE 3
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100/2,500*			*500*
Treatment Zone	#1	1)N 36.38961° W 106.86761° 2)N 36.38996° W 106.86636° 3)N 36.39014° W 106.86674° 4)N 36.38918° W 106.86471°	29-Mar-13	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**180**	**420**	22
Treatment Zone	#1	1)N 36.38954° W 106.86742° 2)N 36.38919° W 106.86414° 3)N 36.38915° W 106.86490° 4)N 36.38973° W 106.86568°	1-Jul-13	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**880**	**1,500**	8.8

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100			500
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	6
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	48
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	10
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	22
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	18
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	<15
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	<30
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	54
Cell #1	#1	N 36° 23.372' W 106° 52.051'	9-Jan-00	8.84	261.3	0.84	6.56	9.7	<5.0	22	50	54
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	45
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	15

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
Cell #1 Vadose Zone	VZ-1	N 36° 23.378' W 106° 52.055'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	3.4
Cell #1 Vadose Zone	VZ-1	N 36.388735° W 106.865537°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	9.9
Cell #1 Vadose Zone	VZ-1	N 36.38923° W 106.86654°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	34
Cell #1 Vadose Zone	VZ-1	N 36.38961° W 106.86775°	18-Sep-12	7.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #1 Vadose Zone	VZ-1	N 36.38918° W 106.86676°	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	**240**	**830**	66
Cell #1 Vadose Zone	VZ-1A	N 36.38958° W 106.86756°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<7.5
Cell #1 Vadose Zone	VZ-1B	N 36.38930° W 106.86706°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	12	51	<7.5
Cell #1 Vadose Zone	VZ-1C	N 36.38920° W 106.86654°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	**24**	**80**	<7.5
Cell #1 Vadose Zone	VZ-1D	N 36.38888° W 106.86587°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	19	56	34
Cell #1 Vadose Zone	VZ-1	N 36.38966° W 106.86784°	1-Jul-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
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	8.3

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
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	16
Cell #2	#2	N 36° 23.426' W 106° 52.013'	9-Feb-00	12.09	0.707	6.6	7.36	20.5	<5.0	<10	<50	16
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	8.9
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	16
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	6.0
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	<15
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	<30
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	<15
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	<7.5
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	<7.5
Cell #2 Vadose Zone	VZ-2	N 36° 23.406' W 106° 52.019'	3-Jan-12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<1.5
Cell #2 Vadose Zone	VZ-2	N 36.390158° W 106.866210°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
Cell #2 Vadose Zone	VZ-2	N 36.38990° W 106.86647°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.39001° W 106.86586°	18-Sep-12	7	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	<15
Cell #2 Vadose Zone	VZ-2	N 36.38971° W 106.86604°	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.38987° W 106.86647°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.39000° W 106.86568°	1-Jul-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
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	5.1
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	22
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	28
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	17
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	20
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	<15

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
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	43
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	<15
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	7.9
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	6.3
Cell #3 Vadose Zone	VZ-3	N 36° 23.334' W 106° 51.864'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	2.2
Cell #3 Vadose Zone	VZ-3	N 36.389367° W 106.864533°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #3 Vadose Zone	VZ-3	N 36.38935° W 106.86406°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
Cell #3 Vadose Zone	VZ-3	N 36.38919° W 106.86446°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #3 Vadose Zone	VZ-3	N 36.38894° W 106.86417°	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	**71**	**150**	<7.5
Cell #3 Vadose Zone	VZ-3A	N 36.38945° W 106.86411°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49	<7.5
Cell #3 Vadose Zone	VZ-3B	N 36.38903° W 106.86443°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	**41**	**60**	<7.5
Cell #3 Vadose Zone	VZ-3C	N 36.38905° W 106.86485°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5

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Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results
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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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			**300.0**
Cell #3 Vadose Zone	VZ-3D	N 36.38931° W 106.86483°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #3 Vadose Zone	VZ-3	N 36.38917° W 106.86423°	1-Jul-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	16	<50	8.6
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	<7.5
Cell #4 Vadose Zone	VZ-4	N 36° 23.341' W 106° 51.736'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<1.5
Cell #4 Vadose Zone	VZ-4	N 36.389355° W 106.863260°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86303°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86248°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38930° W 106.86311°	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<49	<7.5
Cell #4 Vadose Zone	VZ-4	N 36.38928° W 106.86292°	29-Mar-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<11	<53	<7.5
Cell #4 Vadose Zone	VZ-4	N 36.38924° W 106.86276°	1-Jul-13	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	<7.5

TABLE 5
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm 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 #1 Vadose Zone	18-Sep-12	<12	150	<0.50	15	NA	<0.3	NA	<0.033	5.2	NA	<12	<1.2	NA	NA
Cell #1A Vadose Zone	29-Mar-13	<12	86	<0.50	10	NA	<0.288	NA	<0.06	4.4	NA	<12	<1.2	NA	NA
Cell #1B Vadose Zone	29-Mar-13	<12	62	<0.50	13	NA	<0.259	NA	<0.06	4.4	NA	<12	<1.2	NA	NA
Cell #1C Vadose Zone	29-Mar-13	<25	150	<1.0	20	NA	<0.27	NA	<0.033	8.0	NA	<25	<2.5	NA	NA
Cell #1D Vadose Zone	29-Mar-13	<12	56	<0.50	8.6	NA	<0.266	NA	<0.06	4.1	NA	<12	<1.2	NA	NA
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

TABLE 5
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm 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 #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 #2 Vadose Zone	18-Sep-12	<12	90	<0.50	5.2	NA	<0.3	NA	<0.033	2.8	NA	<12	<1.2	NA	NA
Cell #2 Vadose Zone	29-Mar-13	<13	160	<0.50	10	NA	<0.299	NA	0.071	5.9	NA	<13	<1.2	NA	NA
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
Cell #3 Vadose Zone	18-Sep-12	<12	99	<0.50	11	NA	<0.3	NA	<0.033	3.9	NA	<12	<1.2	NA	NA
Cell #3A Vadose Zone	29-Mar-13	<12	190	<0.50	20	NA	<0.278	NA	<0.033	6.9	NA	<12	<1.2	NA	NA
Cell #3B Vadose Zone	29-Mar-13	<25	160	<1.0	20	NA	<0.302	NA	<0.033	8.0	NA	<25	<2.5	NA	NA

TABLE 5
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm 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 #3C Vadose Zone	29-Mar-13	<25	140	<1.0	16	NA	<0.304	NA	<0.033	7.9	NA	<25	<2.5	NA	NA
Cell #3D Vadose Zone	29-Mar-13	<12	150	<0.50	17	NA	<0.302	NA	<0.033	6.8	NA	<12	<1.2	NA	NA
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
Cell #4 Vadose Zone	18-Sep-12	<12	130	<0.50	23	NA	<0.3	NA	<0.033	7.3	NA	<12	<1.2	NA	NA
Cell #4 Vadose Zone	29-Mar-13	<13	130	<0.50	20	NA	<0.27	NA	<0.033	6.1	NA	<13	<1.2	NA	NA

Note: NA = Not Analyzed

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

Landfarm 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 Zone	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 #1 Vadose Zone	VZ-1A	29-Mar-13	4	8.03	350	<1.5	<7.5	8.0	110	4,700	2,000	1,600	<120
Cell #1 Vadose Zone	VZ-1B	29-Mar-13	3	8.02	130	2.8	<7.5	<1.5	11	5,600	2,000	1,800	<120
Cell #1 Vadose Zone	VZ-1C	29-Mar-13	3	8.50	540	3.5	<7.5	3.3	9.5	17,000	4,100	3,700	<250
Cell #1 Vadose Zone	VZ-1D	29-Mar-13	3	7.70	410	2.1	34	<1.5	<7.5	2,300	1,300	1,300	<120
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 Zone	VZ-2	28-Jul-11	3.5	8.63	831	<1.5	<7.5	<1.5	9.9	8,900	1,800	820	<250

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

Landfarm 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 #2 Vadose Zone	VZ-2	29-Mar-13	3.5	NA	NA	<1.5	<7.5	3.3	28	7,400	2,300	1,000	<120
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 Zone	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 #3 Vadose Zone	VZ-3A	29-Mar-13	3	7.82	920	3.8	<7.5	<1.5	30	7,700	3,700	2,500	<120
Cell #3 Vadose Zone	VZ-3B	29-Mar-13	4	8.42	1,200	3.9	<7.5	1.6	39	8,100	5,000	3,200	<250
Cell #3 Vadose Zone	VZ-3C	29-Mar-13	4	8.26	1,100	3.4	<7.5	6.5	29	9,400	4,000	2,300	<250
Cell #3 Vadose Zone	VZ-3D	29-Mar-13	3.5	8.26	1,000	3.7	<7.5	2.6	43	12,000	4,700	2,700	130
Cell #4 Vadose Zone	VZ-4	28-Jul-11	3.5	8.39	972	5.3	<7.5	<1.5	10	7,000	2,300	1,500	<250

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

Landfarm 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 #4 Vadose Zone	VZ-4	29-Mar-13	4	NA	NA	2.1	<7.5	<1.5	<7.5	4,000	2,600	2,600	<120

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

TABLE 7

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 Napthal-enes (mg/kg)*	*Carbon Tetra-chloride (mg/kg)*	*Chloro-form (mg/kg)*	*1,1-dichloro ethane (mg/kg)*	*1,1-DCE (mg/kg)*	*Methylene Chloride (mg/kg)*	*1,1,2,2-tetrachloro-ethane (mg/kg)*	*PCE (mg/kg)*	*1,1,1-trichloro-ethane (mg/kg)*	*1,1,2-trichloro-ethane (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 #1A Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #1B Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #1C Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #1D Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
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 #3A Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

TABLE 7
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 Napthal-enes (mg/kg)*	*Carbon Tetra-chloride (mg/kg)*	*Chloro-form (mg/kg)*	*1,1-dichloro ethane (mg/kg)*	*1,1-DCE (mg/kg)*	*Methylene Chloride (mg/kg)*	*1,1,2,2-tetrachloro-ethane (mg/kg)*	*PCE (mg/kg)*	*1,1,1-trichloro-ethane (mg/kg)*	*1,1,2-trichloro-ethane (mg/kg)*	*TCE (mg/kg)*	*Vinyl Chloride (mg/kg)*
Cell #3B Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #3C Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<0.10	<0.050	<0.10	<0.050	<0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cell #3D Vadose Zone	29-Mar-13	<0.050	<0.050	<0.10	<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 8

Vadose Zone Soil 8270, PCBs, and Radioactivity Analytical Results

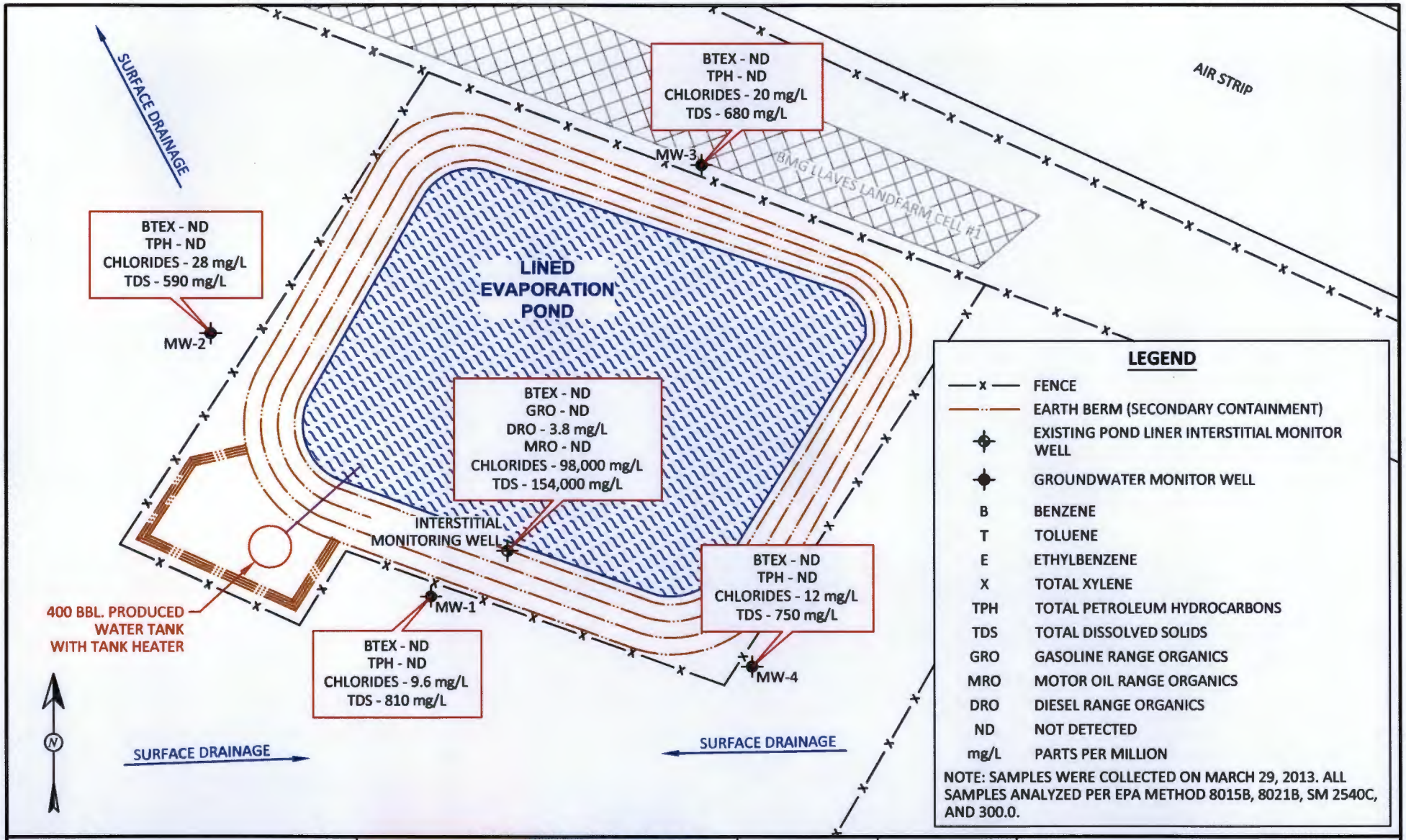
BMG Centralized Surface Waste Management Facility

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 #1 Vadose Zone	VZ-1A	29-Mar-13	4	<0.20	<0.20	<0.14	1.374	0.899
Cell #1 Vadose Zone	VZ-1B	29-Mar-13	3	<0.20	<0.20	<0.14	1.524	0.996
Cell #1 Vadose Zone	VZ-1C	29-Mar-13	3	<0.20	<0.20	<0.14	1.362	1.631
Cell #1 Vadose Zone	VZ-1D	29-Mar-13	3	<0.20	<0.20	<0.14	1.525	0.63
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 #3 Vadose Zone	VZ-3A	29-Mar-13	3	<0.20	<0.20	<0.14	1.732	2.291

TABLE 8
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 #3 Vadose Zone	VZ-3B	29-Mar-13	4	<0.20	<0.20	<0.14	1.819	1.902
Cell #3 Vadose Zone	VZ-3C	29-Mar-13	4	<0.20	<0.20	<0.14	1.925	1.208
Cell #3 Vadose Zone	VZ-3D	29-Mar-13	3.5	<0.20	<0.20	<0.14	2.249	1.28
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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(1 INCH = 50 FEET)

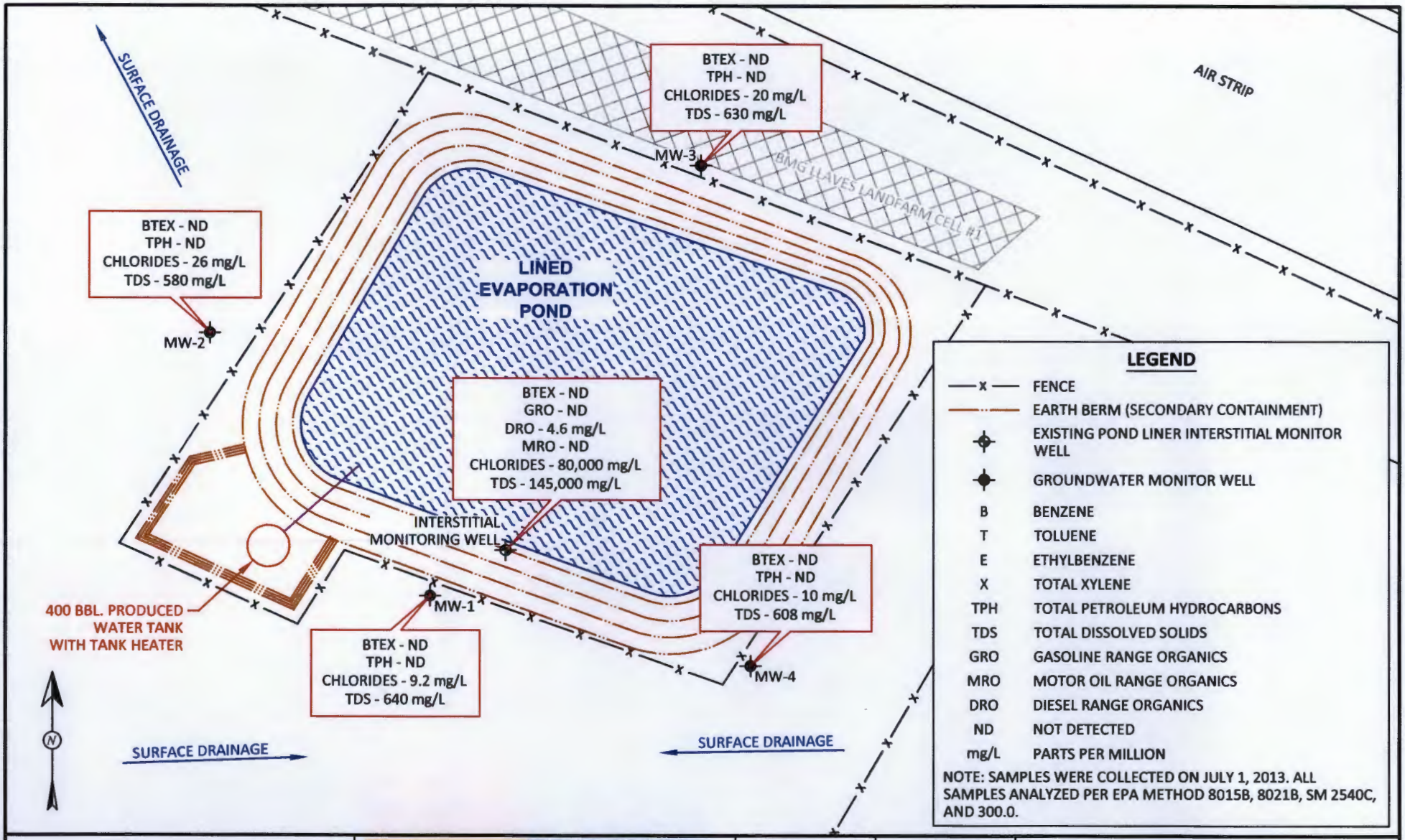
Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 15, 2013
CHECKED BY: D. Watson	DATE CHECKED: May 15, 2013
APPROVED BY: E. McNally	DATE APPROVED: May 15, 2013

FIGURE 1a

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 1st QUARTER 2013

NW¼ NW¼, SECTION 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO



SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: January 11, 2013	**FIGURE 1b**
REVISIONS BY: C. Lameman	DATE REVISED: September 27, 2013	**BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 2nd QUARTER 2013**
CHECKED BY: D. Watson	DATE CHECKED: September 27, 2013	NW¼ NW¼, SECTION 20, T25N, R1E LLAVES, RIO ARRIBA COUNTY, NEW MEXICO
APPROVED BY: E. McNally	DATE APPROVED: September 27, 2013	

SUMMARY OF 1ST QUARTER 2013 TREATMENT ZONE MONITORING MARCH 2013

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH			CHLORIDE (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
29-Mar-13	<0.050	<0.050	<0.050	<0.10	<5.0	180	420	22

TREATMENT ZONE MONITORING LOCATIONS MARCH 2013

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)
TZ-1	N 36.38961 W 106.86761	0.5
TZ-2A	N 36.38996 W 106.86636	0.5
TZ-2B	N 36.39014 W 106.86674	0.5
TZ-3	N 36.38918 W 106.86471	0.7

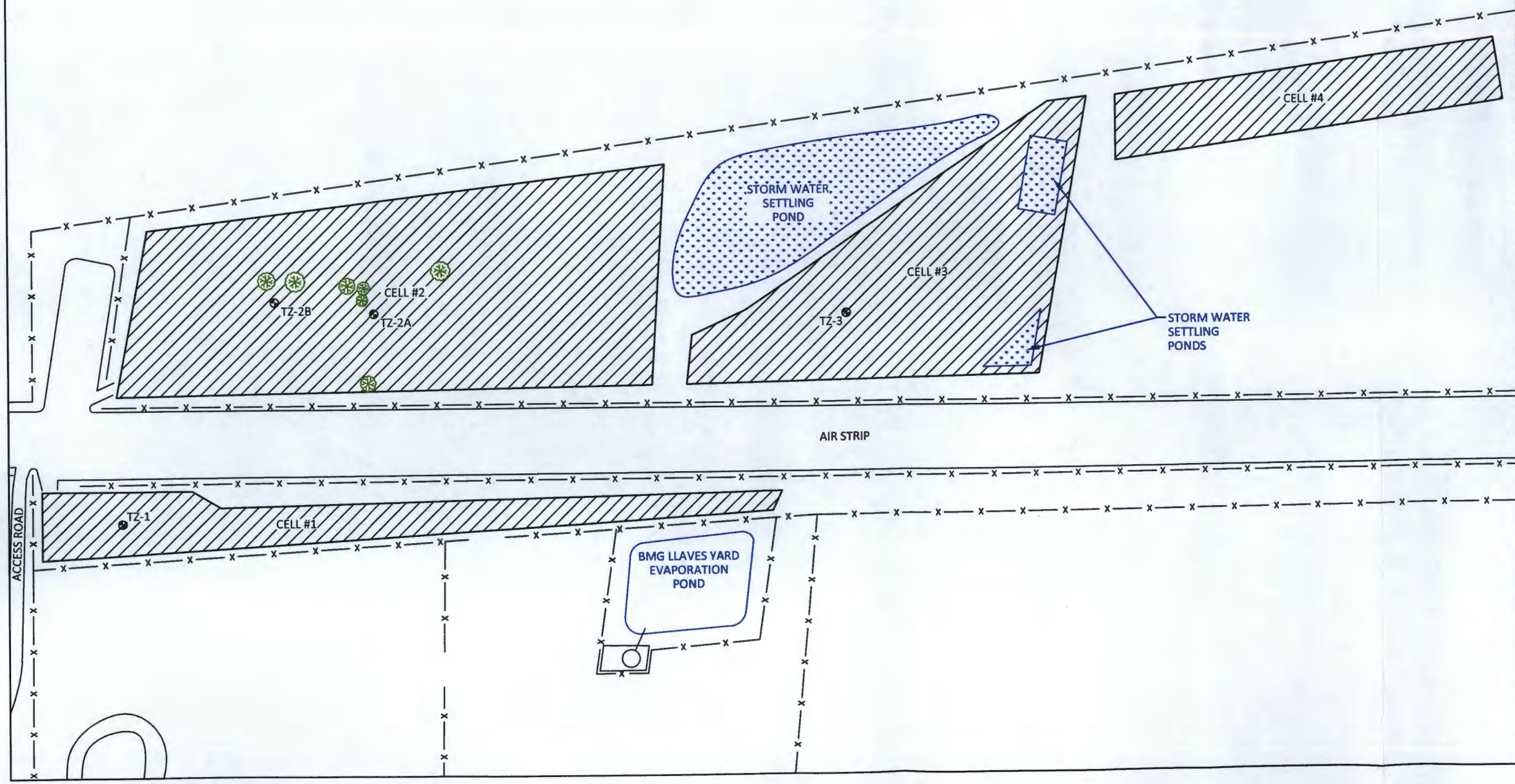


FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 1st QUARTER 2013

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 15, 2013
CHECKED BY:	**DATE CHECKED:**
D. Watson	May 15, 2013
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 15, 2013

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

SUMMARY OF 2ND QUARTER 2013 TREATMENT ZONE MONITORING JULY 2013

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH			CHLORIDE (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
1-Jul-13	<0.050	<0.050	<0.050	<0.10	<5.0	**880**	**1,500**	8.8

TREATMENT ZONE MONITORING LOCATIONS MARCH 2013

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)
TZ-1	N 36.38954 W 106.86742	0.5
TZ-2	N 36.38973 W 106.86568	0.5
TZ-3A	N 36.38919 W 106.86414	0.5
TZ-3B	N 36.38915 W 106.86490	0.5

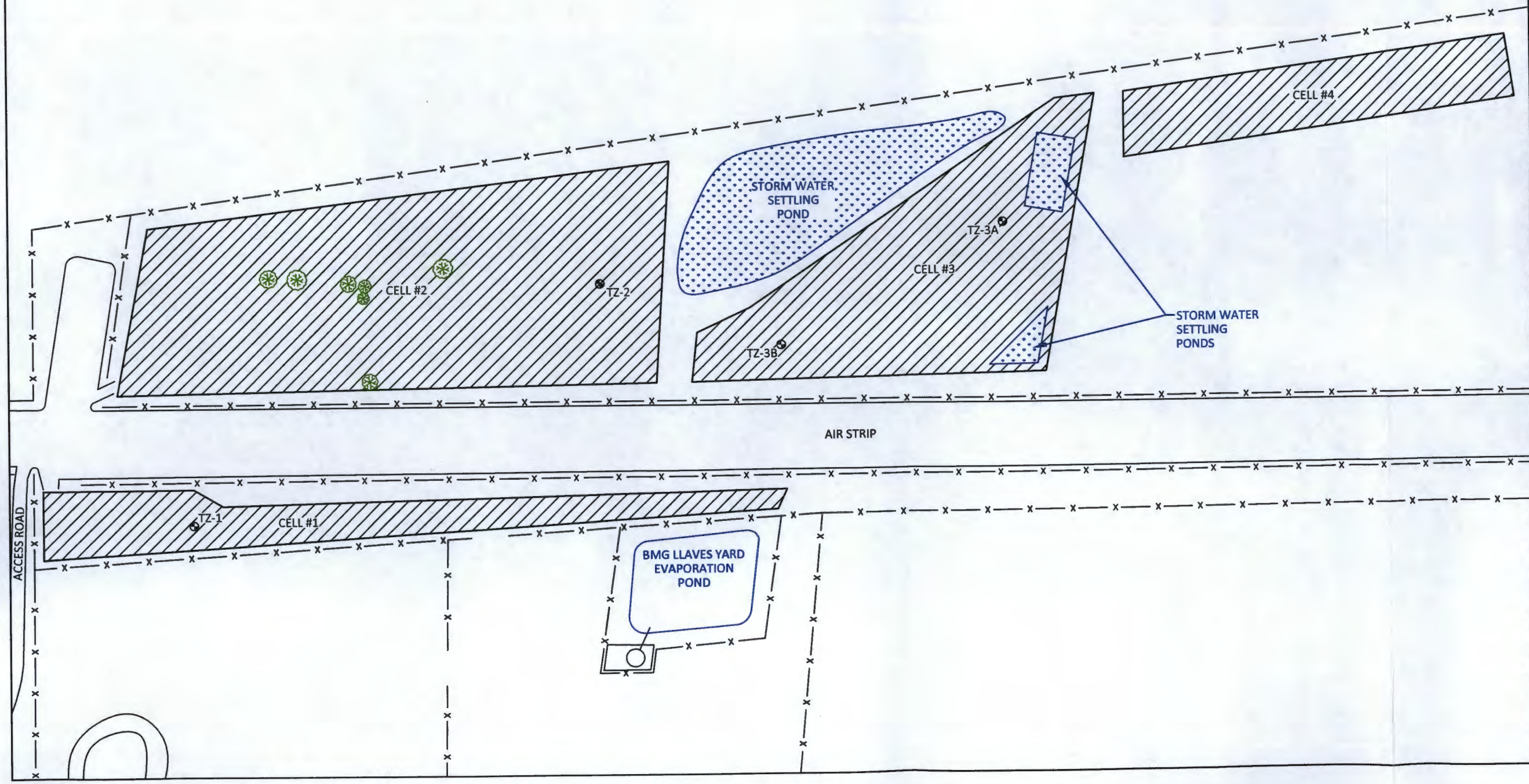


FIGURE 3

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 2nd QUARTER 2013

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** January 11, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** September 27, 2013
CHECKED BY: D. Watson	**DATE CHECKED:** September 27, 2013
APPROVED BY: E. McNally	**DATE APPROVED:** September 27, 2013

SUMMARY OF 1ST QUARTER 2013
VADOSE ZONE MONITORING
MARCH 2013

LANDFARM ID	SAMPLE DATE	SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH			CHLORIDE (mg/kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	29-Mar-13	VZ-1A	N 36.38958 W 106.86756	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<7.5
		VZ-1B	N 36.38930 W 106.86706	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	12	51	<7.5
		VZ-1C	N 36.38920 W 106.86654	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	**24**	**80**	<7.5
		VZ-1D	N 36.38888 W 106.86587	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	19	56	34
CELL #2	29-Mar-13	VZ-2	N 36.38987 W 106.86647	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
CELL #3	29-Mar-13	VZ-3A	N 36.38945 W 106.86411	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<9.8	<49	<7.5
		VZ-3B	N 36.38903 W 106.86443	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	**41**	**60**	<7.5
		VZ-3C	N 36.38905 W 106.86485	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
		VZ-3D	N 36.38931 W 106.86483	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
CELL #4	29-Mar-13	VZ-4	N 36.38928 W 106.86292	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<11	<53	<7.5

VADOSE ZONE SAMPLES WERE COLLECTED BELOW NATIVE SOIL SURFACE.

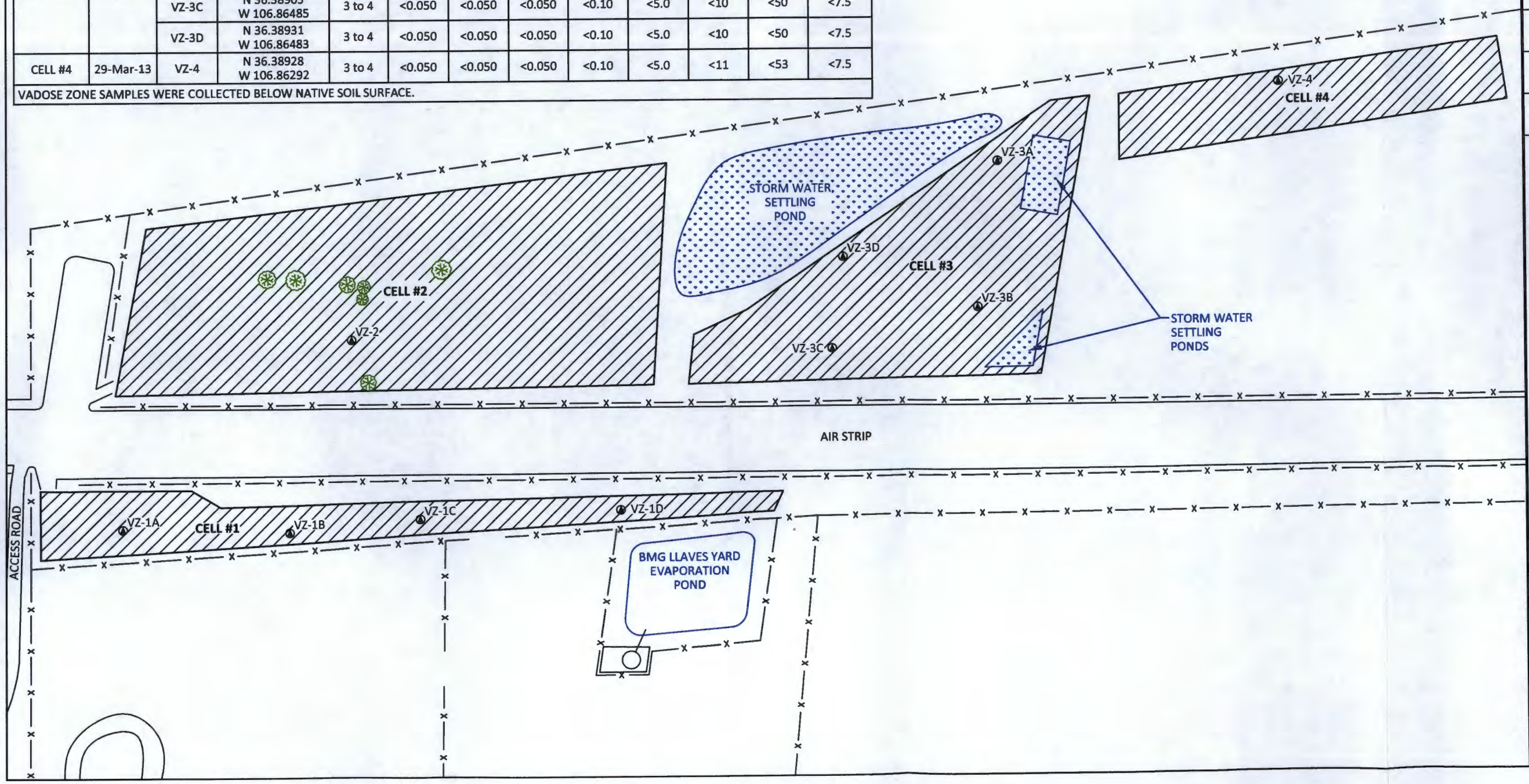


FIGURE 4

BENSON-MONTIN-GREER
VADOSE ZONE MONITORING
LOCATIONS AND RESULTS
1st QUARTER 2013

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 15, 2013
CHECKED BY:	**DATE CHECKED:**
D. Watson	May 15, 2013
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 15, 2013

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

SUMMARY OF 1ST QUARTER 2013
VADOSE ZONE MONITORING
MARCH 2013

LANDFARM ID	SAMPLE DATE	SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH			CHLORIDE (mg/kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	1-Jul-13	VZ-1	N 36.38966 W 106.86784	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
CELL #2	1-Jul-13	VZ-2	N 36.39000 W 106.86568	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
CELL #3	1-Jul-13	VZ-3	N 36.38917 W 106.86423	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	16	<50	8.6
CELL #4	1-Jul-13	VZ-4	N 36.38924 W 106.86276	3 to 4	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	<7.5

VADOSE ZONE SAMPLES WERE COLLECTED BELOW NATIVE SOIL SURFACE.

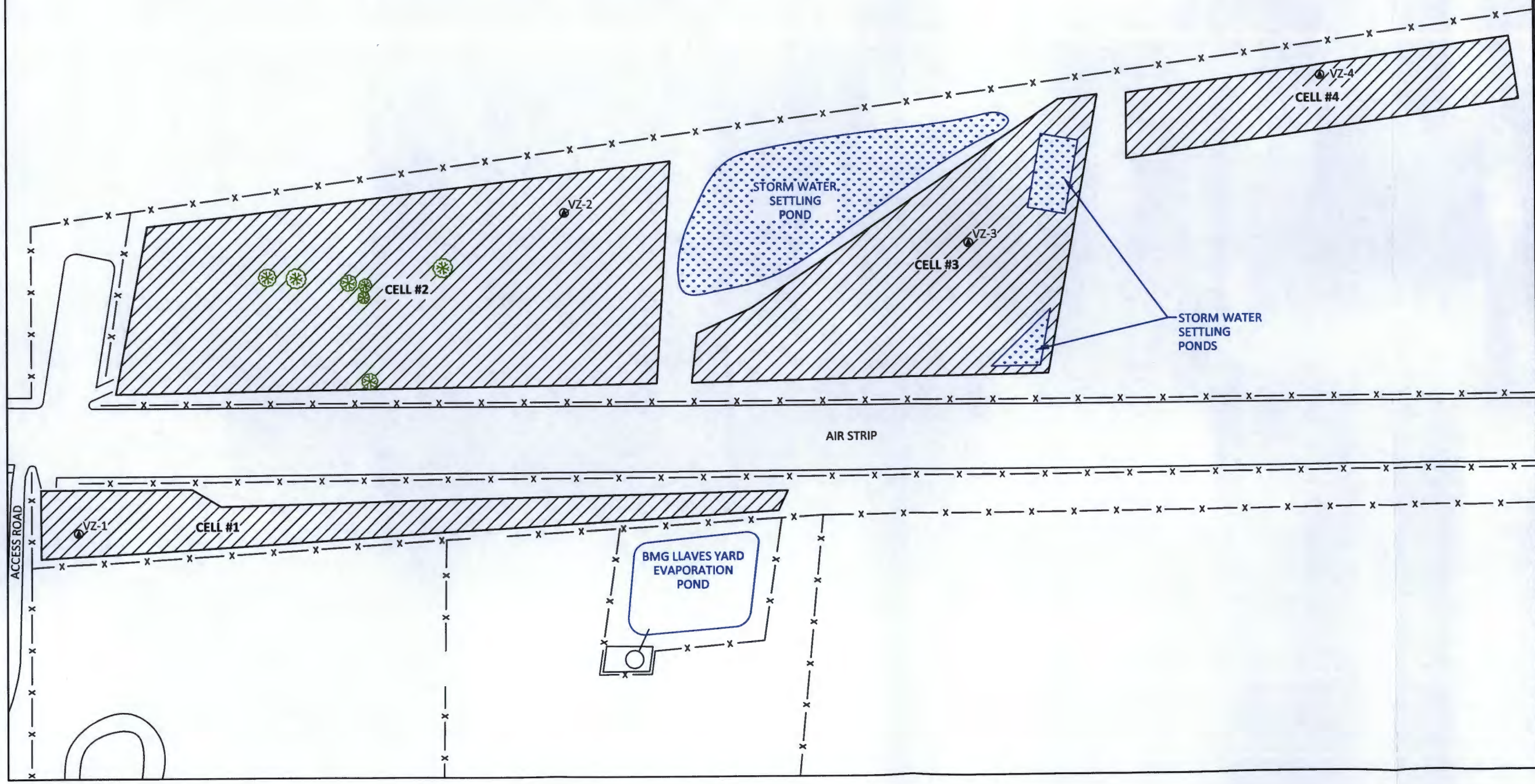


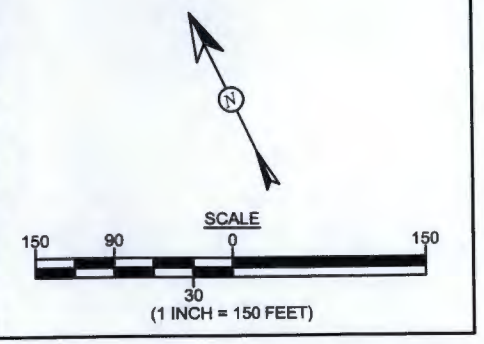
FIGURE 5

BENSON-MONTIN-GREER VADOSE ZONE MONITORING LOCATIONS AND RESULTS 2nd QUARTER 2013

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	January 11, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	September 27, 2013
CHECKED BY:	**DATE CHECKED:**
D. Watson	September 27, 2013
APPROVED BY:	**DATE APPROVED:**
E. McNally	September 27, 2013



SOIL SAMPLING FORM

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

Project: GW & Landfarm Sampling
Site: BMG Llaves Yard Evaporation Pond
Location: Rio Arriba County, New Mexico
Tech: L. Lamone

Project No.: AES 040605
Date: 3/29/2013
Time: 1223
Form: 1 of 1

Sample I.D.	Time	Latitude	Longitude	Sample Depth (ft.)	OVM - PID (ppm)	Notes / Observations
VDZ#4	1243	N 36.38928	W 106.86792	4' BG	3.0	Dark Brown 1'BG. 1 Hand 4'
VDZ#3A	1337	N36.38945	W 106.864"	6'BG	5.3	
VDZ#3B	1420	N36.38903	W. 106.86443	8'BG	9.9	wet clay brown sand
VDZ3C	1451	N36.38905	W 106.86485	8'BG	1.7	Brown, wet clayish
VDZ3D	1530	N36.38931	W.106.86483	7'BG	3.1	Tan Dirt
TZ#3	1512	N36.38918	W.106.86471	8" BG		Dark Brown dirt
TZ#2A	1590	N36.38996	W.106.86636	6" BG		
TZ#2B	1553	N36.39014	W.106.86674	6" BG		Odor stain Brn Dirt
VDZ#2	1616	N36.38987	W 106.86647	7'BG	1.7	Tan loose Dirt
TZ#1	1607	N36.38961	W 106.86761	6" BG	11.5	Dark Brown Dirt
VDZ#1A	1702	N36.38958	W 106.86756	8'BG	1.2	Loose Drk Brown
VDZ#1B	1734	N36.38930	W 106.86706	6'BG	1.0	Tan Dirt
VDZ#1C	1758	N36.38920	W 106.86654	6 BG	0.9	Tan Dirt
VDZ#1D	1820	N36.38888	W106.86587	6'BG	0.3	Drink Brown Loose Dirt

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:

Project No.: AES 040605
Date: 3/29/2013 FRIDAY
Time: 0915
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	0917		40.52		2" WELL 35" ABOVE ground
MW-2	0915		41.54		2" WELL 36" ABOVE ground
MW-3	0912		13.77		2" WELL 26" ABOVE ground
MW-4	0923		41.32		2" well 33" ABOVE ground
Interstitial	0920		9.77		8" PVC WELL 51" Above ground

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

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: Lennie L
Purge / No Purge: Purge
Well Diameter (in): @ 8" ea

Project No.: AES 040605
Date: 3-29-2013
Arrival Time: 1125 (1148 sample)
Air Temp:
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1

Initial D.T.W. (ft): 9.77 **Time:** 0920 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.76 **Time:** 1127 *(taken prior to purging well)*
Final D.T.W. (ft): 10.03 **Time:** 1210 *(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
1133	9.69	258.9	1.29	6.51	5.9	1st Bailer	Yellow H2O
1136	8.13	261.2	3.34	6.68	7.6	2.0 gal.	Yellow H2O
1140	7.66	261.5	3.55	6.49	10.1	4.0 gal	Yellow H2O
1148	8.84	261.3	0.84	6.56	9.7	6.0 gal.	Yellow H2O

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)

Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 gal. drum on site
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

2.34
3.44
10.00 gal.

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: L. Lemone
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.52 **Time:** 0917 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.51 **Time:** 1006 *(taken prior to purging well)*
Final D.T.W. (ft): 45.03 **Time:** 1025 *(taken after sample collection)*
If NAPL Present: D.T.P.: _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 3/29/2013
Arrival Time: 1005 (1020 SAMPLE)
Air Temp: 42°F clear cool
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
1013	12.14	1.362	2.68	7.41	17.0	1st Bailer	Clear H2o
1016	11.94	0.714	6.42	7.35	19.7	1.0 gal	Lt. Tan H2o
1020	12.09	0.707	6.60	7.36	20.5	1.25 gal	Tan Silt H2o

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)
Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 gal. drum on site
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:
5.04 Column
0.82 Volume
2.50 gal.

Well "dry" after 1.25 gal bailed
No recovery - to slow.

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: L. LAMONE
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 3/29/2013
Arrival Time: 1033 (1047 Sample)
Air Temp: 45°F clear
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Initial D.T.W. (ft): 41.54 **Time:** 0915 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 41.55 **Time:** 1035 *(taken prior to purging well)*
Final D.T.W. (ft): 45.23 **Time:** 1057 *(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
1043	11.59	1.355	3.12	7.48	19.1	1st Bailer	Clear H2O
1047	11.84	1.268	3.74	7.42	20.4	1.25 gal.	Tan H2O

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)

Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 gal. drum on site
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:	
3.99 Column	Well "dry" after 1.25 gal. purged.
0.65 Volume	Slow to No recovery
2.0 gal. purged	Tan H2O No Sheen

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: L. LAMONE
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 13.77 **Time:** 0912 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.77 **Time:** 1102 *(taken prior to purging well)*
Final D.T.W. (ft): 46.12 **Time:** 1112 *(taken after sample collection)*
If NAPL Present: **D.T.P.:**____ **D.T.W.:**____ **Thickness:**____ **Time:**____

Project No.: AES 040605
Date: 3-29-2013
Arrival Time: 1100 (1114 Sample)
Air Temp:
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
1108	12.64	1.296	3.50	7.51	16.3	1st Bailer	clear H2O
1114	12.33	1.298	3.82	7.45	16.0	1.0 gal.	Tan Silt

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)
Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 gal drum on site
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:
4.82 H2O column
0.79 H2O volume
2.25 gal. to be purged

Well "Dry" after 1.0 gal. purged

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:
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 41.32 **Time:** 0923 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): ~ **Time:** *(taken prior to purging well)*
Final D.T.W. (ft): 45.36 **Time:** 1002 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 040605
Date: 3-29-2013
Arrival Time: 0930 (0942 SAMPLE)
Air Temp: 39° F. cool
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
0937	11.90	1.383	5.67	7.33	20.6	1st Bailer	Clear H2O
0942	11.25	1.388	7.14	7.32	20.6	1.0 gal	Lt tan H2O

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)

Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 gal. drum on site
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

~~A.28~~	Well "dry" after only 1.0 gal H2O
0.~~70~~ ~	Tan H2O NO sheen, No odor.
2.0 gal	Recovery slow to NONE!

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

Project: GW & Landfarm Sampling
Site: BMG Llaves Yard Evaporation Pond
Location: Rio Arriba County, New Mexico
Tech:

Project No.: AES 040605
Date: 7-1-2013
Time:
Form: 1 of 1

Sample I.D.	Time	Latitude	Longitude	Sample Depth (ft.)	OVM - PID (ppm)	Notes / Observations
VZ-4	0812	N36.38924	W 106.86276	5' BG		
VZ-3	0854	N 36.38917	W 106.86423	7' BG		Clay-ish soil
VZ-2	0955	N 36.39000	W 106.86508	8' BG		Sand lite brown soil
VZ-1	1039	N 36.38966	W106.86.784	7' BG		Dark brown dirt clay.
TZ-1	1056	N 36.38954	W106.86742	6"		
TZ-2		N 36.38973	W 106.86568	6"		
TZ-3A		N 36.38919	W 106.86414			
TZ-3B		N 36.38915	W 106.86490			

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: L. Lamore

Project No.: AES 040605
Date: 7-1-2013
Time: 1105
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1116		40.66		
MW-2	1112		41.70		
MW-3	1107		13.93		
MW-4	1120		41.47		
Interstitial	1125		9.70		Sheen, 8" PVC

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

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~~ L. Lamone 2
Purge / No Purge: Purge
Well Diameter (in): @ 8"
Initial D.T.W. (ft): 9.70 **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.71 **Time:** 1320 *(taken prior to purging well)*
Final D.T.W. (ft): 10.70 **Time:** 1402 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ Thickness:_____ Time:_____

Project No.: AES 040605
Date: 7-1-2013
Arrival Time: 1316 (1400 samp 6)
Air Temp: 72° 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
1334	19.64	162.6	1.95	6.99	62.8	1.0 gal.	
1339	18.53	163.2	1.06	6.75	65.	3.0	
1344	18.72	161.8	0.80	6.93	51.8	5.0 gal	
1356	20.96	119.8	2.91	7.14	23.5	7.0 gal	
1400	18.31	86.76	3.79	7.14	9.6	10.0 gal.	

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 (300.0) and TDS (2540C) (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-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: ~~[redacted]~~ L. Lamone
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.66 **Time:** 1114 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.64 **Time:** 1256 *(taken prior to purging well)*
Final D.T.W. (ft): 44.82 **Time:** 1310 *(taken after sample collection)*
If NAPL Present: **D.T.P.:**____ **D.T.W.:**____ **Thickness:**____ **Time:**____

Project No.: AES 040605
Date: 7-1-2013
Arrival Time: 1251 (1307 Sample)
Air Temp: 71° 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
1301	13.91	0.873	4.51	7.29	227.5	1st Bailer	Clear H2O
1307	13.05	0.868	5.06	7.23	225.5	1.5 gal.	Dry

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: In 55 gal drum on site
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

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~~ L. Lamone
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 41.70 **Time:** 1112 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 41.69 **Time:** 1202 *(taken prior to purging well)*
Final D.T.W. (ft): 45.30 **Time:** 1218 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-1-2013
Arrival Time: 1159 (1216 Sample)
Air Temp: 69°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
1206	14.33	0.871	4.47	7.26	202.2	1st Bailer	
1216	16.20	0.855	4.83	7.46	175.5	1.0 gal.	well dry

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:

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~~ L. Lamone
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 7-1-2013
Arrival Time: 1125 (1149 Sample)
Air Temp: 67°
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.59

Initial D.T.W. (ft): 13.93 **Time:** 1107 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.92 **Time:** 1128 *(taken prior to purging well)*
Final D.T.W. (ft): 44.84 **Time:** 1135 *(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
1138	14.69	0.839	5.47	7.11	121.4	1st Bailer	
1141	13.60	08.40	5.85	7.16	130.2	1.0 gal.	
1149	14.02	0.427	6.21	7.32	131.5	1.5 gal.	Well dry

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments: Recovery is slow to none.

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~~ L. Camacho
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 41.47 **Time:** 1120 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 41.46 **Time:** 1230 *(taken prior to purging well)*
Final D.T.W. (ft): 44.93 **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 7-1-2013
Arrival Time: 1228 (1243 Sample)
Air Temp: 70°
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
1237	15.17	0.879	5.47	7.30	198.4	1st Bailer	Clear
1243	13.81	0.890	6.27	6.38	197.7	1.0 gal	

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 (300.0) and TDS (2540C) (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

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

May 03, 2013

Debbie Watson

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

RE: BMG Llaves Landfarm/Evaporation Pond OrderNo.: 1304059

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 16 sample(s) on 4/2/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1304059**
Date Reported: **5/3/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 10:20:00 AM
Lab ID: 1304059-001
Matrix: AQUEOUS
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/4/2013 8:46:22 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/4/2013 8:46:22 PM
Surr: DNOP	121	75.4-146		%REC	1	4/4/2013 8:46:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10	P	mg/L	2	4/3/2013 5:53:28 PM
Surr: BFB	83.3	51.9-148	P	%REC	2	4/3/2013 5:53:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0	P	µg/L	2	4/3/2013 5:53:28 PM
Toluene	ND	2.0	P	µg/L	2	4/3/2013 5:53:28 PM
Ethylbenzene	ND	2.0	P	µg/L	2	4/3/2013 5:53:28 PM
Xylenes, Total	ND	4.0	P	µg/L	2	4/3/2013 5:53:28 PM
Surr: 4-Bromofluorobenzene	93.9	69.4-129	P	%REC	2	4/3/2013 5:53:28 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	9.6	5.0		mg/L	10	4/3/2013 1:45:56 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	810	200	*	mg/L	1	4/5/2013 7:26:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 10:47:00 AM
Lab ID: 1304059-002 **Matrix:** AQUEOUS **Received Date:** 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/4/2013 9:08:00 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/4/2013 9:08:00 PM
Surr: DNOP	122	75.4-146		%REC	1	4/4/2013 9:08:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	4/3/2013 7:23:23 PM
Surr: BFB	83.6	51.9-148		%REC	2	4/3/2013 7:23:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	4/3/2013 7:23:23 PM
Toluene	ND	2.0		µg/L	2	4/3/2013 7:23:23 PM
Ethylbenzene	ND	2.0		µg/L	2	4/3/2013 7:23:23 PM
Xylenes, Total	ND	4.0		µg/L	2	4/3/2013 7:23:23 PM
Surr: 4-Bromofluorobenzene	97.2	69.4-129		%REC	2	4/3/2013 7:23:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	28	5.0		mg/L	10	4/3/2013 2:10:45 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	590	200	*	mg/L	1	4/5/2013 7:26:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 11:14:00 AM
Lab ID: 1304059-003
Matrix: AQUEOUS
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/4/2013 9:29:40 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/4/2013 9:29:40 PM
Surr: DNOP	110	75.4-146		%REC	1	4/4/2013 9:29:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	4/3/2013 10:53:51 PM
Surr: BFB	82.8	51.9-148		%REC	2	4/3/2013 10:53:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	4/3/2013 10:53:51 PM
Toluene	ND	2.0		µg/L	2	4/3/2013 10:53:51 PM
Ethylbenzene	ND	2.0		µg/L	2	4/3/2013 10:53:51 PM
Xylenes, Total	ND	4.0		µg/L	2	4/3/2013 10:53:51 PM
Surr: 4-Bromofluorobenzene	95.2	69.4-129		%REC	2	4/3/2013 10:53:51 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	20	5.0		mg/L	10	4/3/2013 2:35:34 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	680	200	*	mg/L	1	4/5/2013 7:26:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 9:42:00 AM
Lab ID: 1304059-004
Matrix: AQUEOUS
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	4/4/2013 9:51:17 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/4/2013 9:51:17 PM
Surr: DNOP	116	75.4-146		%REC	1	4/4/2013 9:51:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	4/3/2013 11:23:52 PM
Surr: BFB	83.4	51.9-148		%REC	2	4/3/2013 11:23:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	4/3/2013 11:23:52 PM
Toluene	ND	2.0		µg/L	2	4/3/2013 11:23:52 PM
Ethylbenzene	ND	2.0		µg/L	2	4/3/2013 11:23:52 PM
Xylenes, Total	ND	4.0		µg/L	2	4/3/2013 11:23:52 PM
Surr: 4-Bromofluorobenzene	95.4	69.4-129		%REC	2	4/3/2013 11:23:52 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	12	5.0		mg/L	10	4/3/2013 3:00:23 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	750	200	*	mg/L	1	4/5/2013 7:26:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: BMG Llaves Landfarm/Evaporation Pon
Lab ID: 1304059-005 **Matrix:** AQUEOUS

Client Sample ID: Interstitial Well
Collection Date: 3/29/2013 11:48:00 AM
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	3.8	1.0		mg/L	1	4/4/2013 10:12:56 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	4/4/2013 10:12:56 PM
Surr: DNOP	110	75.4-146		%REC	1	4/4/2013 10:12:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	4/3/2013 11:54:01 PM
Surr: BFB	83.5	51.9-148		%REC	10	4/3/2013 11:54:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	10		µg/L	10	4/3/2013 11:54:01 PM
Toluene	ND	10		µg/L	10	4/3/2013 11:54:01 PM
Ethylbenzene	ND	10		µg/L	10	4/3/2013 11:54:01 PM
Xylenes, Total	ND	20		µg/L	10	4/3/2013 11:54:01 PM
Surr: 4-Bromofluorobenzene	95.2	69.4-129		%REC	10	4/3/2013 11:54:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	98000	5000	*	mg/L	10000	4/5/2013 4:04:55 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	154000	1000	*	mg/L	1	4/5/2013 7:26:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:02:00 PM
Lab ID: 1304059-006
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 9:22:55 AM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 9:22:55 AM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 9:22:55 AM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 9:22:55 AM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 9:22:55 AM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 9:22:55 AM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 9:22:55 AM
Surr: Decachlorobiphenyl	110	22.2-164		%REC	1	4/5/2013 9:22:55 AM
Surr: Tetrachloro-m-xylene	92.4	17.8-160		%REC	1	4/5/2013 9:22:55 AM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2013 5:56:33 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/5/2013 5:56:33 PM
Surr: DNOP	109	72.4-120		%REC	1	4/5/2013 5:56:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 6:06:16 PM
Surr: BFB	94.1	80-120		%REC	1	4/4/2013 6:06:16 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	ND	1.5		mg/Kg	5	4/8/2013 1:35:21 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 1:35:21 PM
Nitrogen, Nitrate (As N)	8.0	1.5		mg/Kg	5	4/8/2013 1:35:21 PM
Sulfate	110	7.5		mg/Kg	5	4/8/2013 1:35:21 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	12		mg/Kg	5	4/12/2013 9:45:49 AM
Barium	86	0.50		mg/Kg	5	4/12/2013 9:45:49 AM
Cadmium	ND	0.50		mg/Kg	5	4/12/2013 9:45:49 AM
Calcium	4700	120		mg/Kg	5	4/12/2013 9:45:49 AM
Chromium	10	1.5		mg/Kg	5	4/12/2013 9:45:49 AM
Lead	4.4	1.2		mg/Kg	5	4/12/2013 9:45:49 AM
Magnesium	2000	120		mg/Kg	5	4/12/2013 9:45:49 AM
Potassium	1600	250		mg/Kg	5	4/12/2013 9:45:49 AM
Selenium	ND	12		mg/Kg	5	4/12/2013 9:45:49 AM
Silver	ND	1.2		mg/Kg	5	4/12/2013 9:45:49 AM
Sodium	ND	120		mg/Kg	5	4/12/2013 9:45:49 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:02:00 PM
Lab ID: 1304059-006
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 10:13:28 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 10:13:28 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 10:13:28 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 10:13:28 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 10:13:28 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 10:13:28 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:02:00 PM
Lab ID: 1304059-006
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 10:13:28 AM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 10:13:28 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 10:13:28 AM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 10:13:28 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 10:13:28 AM
Surr: 2,4,6-Tribromophenol	88.1	40.1-130		%REC	1	4/8/2013 10:13:28 AM
Surr: 2-Fluorobiphenyl	83.8	44.4-123		%REC	1	4/8/2013 10:13:28 AM
Surr: 2-Fluorophenol	76.1	41.9-112		%REC	1	4/8/2013 10:13:28 AM
Surr: 4-Terphenyl-d14	89.0	29.6-130		%REC	1	4/8/2013 10:13:28 AM
Surr: Nitrobenzene-d5	86.8	42.4-132		%REC	1	4/8/2013 10:13:28 AM
Surr: Phenol-d5	83.5	44.3-119		%REC	1	4/8/2013 10:13:28 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Toluene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Naphthalene	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 7:02:13 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 7:02:13 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:02:00 PM
Lab ID: 1304059-006
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Acetone	ND	0.75		mg/Kg	1	4/8/2013 7:02:13 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Bromoform	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Bromomethane	ND	0.15		mg/Kg	1	4/8/2013 7:02:13 PM
2-Butanone	ND	0.50		mg/Kg	1	4/8/2013 7:02:13 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/8/2013 7:02:13 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Chloroethane	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
Chloroform	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Chloromethane	ND	0.15		mg/Kg	1	4/8/2013 7:02:13 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/8/2013 7:02:13 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/8/2013 7:02:13 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/8/2013 7:02:13 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/8/2013 7:02:13 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Styrene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:02:00 PM
Lab ID: 1304059-006
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/8/2013 7:02:13 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/8/2013 7:02:13 PM
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%REC	1	4/8/2013 7:02:13 PM
Surr: 4-Bromofluorobenzene	84.0	70-130		%REC	1	4/8/2013 7:02:13 PM
Surr: Dibromofluoromethane	88.8	70-130		%REC	1	4/8/2013 7:02:13 PM
Surr: Toluene-d8	97.7	70-130		%REC	1	4/8/2013 7:02:13 PM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	350	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:34:00 PM
Lab ID: 1304059-007
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 11:38:53 AM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 11:38:53 AM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 11:38:53 AM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 11:38:53 AM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 11:38:53 AM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 11:38:53 AM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 11:38:53 AM
Surr: Decachlorobiphenyl	106	22.2-164		%REC	1	4/5/2013 11:38:53 AM
Surr: Tetrachloro-m-xylene	88.8	17.8-160		%REC	1	4/5/2013 11:38:53 AM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	12	9.6		mg/Kg	1	4/5/2013 6:24:05 PM
Motor Oil Range Organics (MRO)	51	48		mg/Kg	1	4/5/2013 6:24:05 PM
Surr: DNOP	102	72.4-120		%REC	1	4/5/2013 6:24:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 6:35:01 PM
Surr: BFB	94.0	80-120		%REC	1	4/4/2013 6:35:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	2.8	1.5		mg/Kg	5	4/8/2013 2:25:00 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 2:25:00 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	4/8/2013 2:25:00 PM
Sulfate	11	7.5		mg/Kg	5	4/8/2013 2:25:00 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**
Arsenic	ND	12		mg/Kg	5	4/26/2013 4:53:29 PM
Barium	62	0.50		mg/Kg	5	4/26/2013 4:53:29 PM
Cadmium	ND	0.50		mg/Kg	5	4/26/2013 4:53:29 PM
Calcium	5600	120		mg/Kg	5	5/2/2013 12:16:12 PM
Chromium	13	1.5		mg/Kg	5	4/26/2013 4:53:29 PM
Lead	4.4	1.2		mg/Kg	5	4/26/2013 4:53:29 PM
Magnesium	2000	120		mg/Kg	5	5/2/2013 12:16:12 PM
Potassium	1800	250		mg/Kg	5	5/2/2013 12:16:12 PM
Selenium	ND	12		mg/Kg	5	5/2/2013 12:16:12 PM
Silver	ND	1.2		mg/Kg	5	4/26/2013 4:53:29 PM
Sodium	ND	120		mg/Kg	5	5/3/2013 9:31:33 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:34:00 PM
Lab ID: 1304059-007
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 10:44:26 AM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 10:44:26 AM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 10:44:26 AM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 10:44:26 AM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 10:44:26 AM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 10:44:26 AM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:34:00 PM
Lab ID: 1304059-007
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 10:44:26 AM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 10:44:26 AM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 10:44:26 AM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 10:44:26 AM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 10:44:26 AM
Surr: 2,4,6-Tribromophenol	83.7	40.1-130		%REC	1	4/8/2013 10:44:26 AM
Surr: 2-Fluorobiphenyl	89.7	44.4-123		%REC	1	4/8/2013 10:44:26 AM
Surr: 2-Fluorophenol	79.1	41.9-112		%REC	1	4/8/2013 10:44:26 AM
Surr: 4-Terphenyl-d14	89.9	29.6-130		%REC	1	4/8/2013 10:44:26 AM
Surr: Nitrobenzene-d5	91.0	42.4-132		%REC	1	4/8/2013 10:44:26 AM
Surr: Phenol-d5	83.7	44.3-119		%REC	1	4/8/2013 10:44:26 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Toluene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Naphthalene	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 7:30:53 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 7:30:53 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:34:00 PM
Lab ID: 1304059-007
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Acetone	ND	0.75		mg/Kg	1	4/8/2013 7:30:53 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Bromoform	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Bromomethane	ND	0.15		mg/Kg	1	4/8/2013 7:30:53 PM
2-Butanone	ND	0.50		mg/Kg	1	4/8/2013 7:30:53 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/8/2013 7:30:53 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Chloroethane	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
Chloroform	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Chloromethane	ND	0.15		mg/Kg	1	4/8/2013 7:30:53 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/8/2013 7:30:53 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/8/2013 7:30:53 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/8/2013 7:30:53 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/8/2013 7:30:53 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Styrene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:34:00 PM
Lab ID: 1304059-007
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/8/2013 7:30:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/8/2013 7:30:53 PM
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%REC	1	4/8/2013 7:30:53 PM
Surr: 4-Bromofluorobenzene	84.5	70-130		%REC	1	4/8/2013 7:30:53 PM
Surr: Dibromofluoromethane	90.8	70-130		%REC	1	4/8/2013 7:30:53 PM
Surr: Toluene-d8	98.9	70-130		%REC	1	4/8/2013 7:30:53 PM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	130	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:58:00 PM
Lab ID: 1304059-008
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 1:56:41 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 1:56:41 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 1:56:41 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 1:56:41 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 1:56:41 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 1:56:41 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 1:56:41 PM
Surr: Decachlorobiphenyl	104	22.2-164		%REC	1	4/5/2013 1:56:41 PM
Surr: Tetrachloro-m-xylene	91.6	17.8-160		%REC	1	4/5/2013 1:56:41 PM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	24	10		mg/Kg	1	4/5/2013 7:19:24 PM
Motor Oil Range Organics (MRO)	80	51		mg/Kg	1	4/5/2013 7:19:24 PM
Surr: DNOP	97.4	72.4-120		%REC	1	4/5/2013 7:19:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 7:03:46 PM
Surr: BFB	92.5	80-120		%REC	1	4/4/2013 7:03:46 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	3.5	1.5		mg/Kg	5	4/8/2013 2:49:50 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 2:49:50 PM
Nitrogen, Nitrate (As N)	3.3	1.5		mg/Kg	5	4/8/2013 2:49:50 PM
Sulfate	9.5	7.5		mg/Kg	5	4/8/2013 2:49:50 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	4/18/2013 3:39:04 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	25		mg/Kg	10	4/12/2013 10:26:20 AM
Barium	150	1.0		mg/Kg	10	4/12/2013 10:26:20 AM
Cadmium	ND	1.0		mg/Kg	10	4/12/2013 10:26:20 AM
Calcium	17000	250		mg/Kg	10	4/12/2013 10:26:20 AM
Chromium	20	3.0		mg/Kg	10	4/12/2013 10:26:20 AM
Lead	8.0	2.5		mg/Kg	10	4/12/2013 10:26:20 AM
Magnesium	4100	250		mg/Kg	10	4/12/2013 10:26:20 AM
Potassium	3700	500		mg/Kg	10	4/12/2013 10:26:20 AM
Selenium	ND	25		mg/Kg	10	4/12/2013 10:26:20 AM
Silver	ND	2.5		mg/Kg	10	4/12/2013 10:26:20 AM
Sodium	ND	250		mg/Kg	10	4/12/2013 10:26:20 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM

Qualifiers:

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- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:58:00 PM
Lab ID: 1304059-008
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 12:18:00 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 12:18:00 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 12:18:00 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 12:18:00 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 12:18:00 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 12:18:00 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:58:00 PM
Lab ID: 1304059-008
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 12:18:00 PM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 12:18:00 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 12:18:00 PM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 12:18:00 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 12:18:00 PM
Surr: 2,4,6-Tribromophenol	86.4	40.1-130		%REC	1	4/8/2013 12:18:00 PM
Surr: 2-Fluorobiphenyl	94.2	44.4-123		%REC	1	4/8/2013 12:18:00 PM
Surr: 2-Fluorophenol	94.6	41.9-112		%REC	1	4/8/2013 12:18:00 PM
Surr: 4-Terphenyl-d14	94.8	29.6-130		%REC	1	4/8/2013 12:18:00 PM
Surr: Nitrobenzene-d5	91.6	42.4-132		%REC	1	4/8/2013 12:18:00 PM
Surr: Phenol-d5	89.9	44.3-119		%REC	1	4/8/2013 12:18:00 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Toluene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Naphthalene	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:58:00 PM
Lab ID: 1304059-008
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 7:59:33 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 7:59:33 PM
Acetone	ND	0.75		mg/Kg	1	4/8/2013 7:59:33 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Bromoform	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Bromomethane	ND	0.15		mg/Kg	1	4/8/2013 7:59:33 PM
2-Butanone	ND	0.50		mg/Kg	1	4/8/2013 7:59:33 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/8/2013 7:59:33 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Chloroethane	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
Chloroform	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Chloromethane	ND	0.15		mg/Kg	1	4/8/2013 7:59:33 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/8/2013 7:59:33 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/8/2013 7:59:33 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/8/2013 7:59:33 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/8/2013 7:59:33 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Styrene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 5:58:00 PM
Lab ID: 1304059-008
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/8/2013 7:59:33 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/8/2013 7:59:33 PM
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%REC	1	4/8/2013 7:59:33 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%REC	1	4/8/2013 7:59:33 PM
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	4/8/2013 7:59:33 PM
Surr: Toluene-d8	101	70-130		%REC	1	4/8/2013 7:59:33 PM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	540	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM
SM4500-H+B: PH						Analyst: **KS**
pH	8.50	1.68		pH Units	1	4/29/2013 12:37:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 6:20:00 PM
Lab ID: 1304059-009
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 2:42:37 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 2:42:37 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 2:42:37 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 2:42:37 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 2:42:37 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 2:42:37 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 2:42:37 PM
Surr: Decachlorobiphenyl	106	22.2-164		%REC	1	4/5/2013 2:42:37 PM
Surr: Tetrachloro-m-xylene	92.8	17.8-160		%REC	1	4/5/2013 2:42:37 PM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	19	9.8		mg/Kg	1	4/5/2013 7:47:08 PM
Motor Oil Range Organics (MRO)	56	49		mg/Kg	1	4/5/2013 7:47:08 PM
Surr: DNOP	110	72.4-120		%REC	1	4/5/2013 7:47:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 7:32:26 PM
Surr: BFB	92.3	80-120		%REC	1	4/4/2013 7:32:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	2.1	1.5		mg/Kg	5	4/8/2013 3:39:30 PM
Chloride	34	7.5		mg/Kg	5	4/8/2013 3:39:30 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	4/8/2013 3:39:30 PM
Sulfate	ND	7.5		mg/Kg	5	4/8/2013 3:39:30 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	12		mg/Kg	5	4/12/2013 9:55:46 AM
Barium	56	0.50		mg/Kg	5	4/12/2013 9:55:46 AM
Cadmium	ND	0.50		mg/Kg	5	4/12/2013 9:55:46 AM
Calcium	2300	120		mg/Kg	5	4/12/2013 9:55:46 AM
Chromium	8.6	1.5		mg/Kg	5	4/12/2013 9:55:46 AM
Lead	4.1	1.2		mg/Kg	5	4/12/2013 9:55:46 AM
Magnesium	1300	120		mg/Kg	5	4/12/2013 9:55:46 AM
Potassium	1300	250		mg/Kg	5	4/12/2013 9:55:46 AM
Selenium	ND	12		mg/Kg	5	4/12/2013 9:55:46 AM
Silver	ND	1.2		mg/Kg	5	4/12/2013 9:55:46 AM
Sodium	ND	120		mg/Kg	5	4/12/2013 9:55:46 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 6:20:00 PM
Lab ID: 1304059-009
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 12:49:08 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 12:49:08 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 12:49:08 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 12:49:08 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 12:49:08 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 12:49:08 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 6:20:00 PM
Lab ID: 1304059-009
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 12:49:08 PM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 12:49:08 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 12:49:08 PM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 12:49:08 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 12:49:08 PM
Surr: 2,4,6-Tribromophenol	93.0	40.1-130		%REC	1	4/8/2013 12:49:08 PM
Surr: 2-Fluorobiphenyl	94.7	44.4-123		%REC	1	4/8/2013 12:49:08 PM
Surr: 2-Fluorophenol	91.0	41.9-112		%REC	1	4/8/2013 12:49:08 PM
Surr: 4-Terphenyl-d14	89.9	29.6-130		%REC	1	4/8/2013 12:49:08 PM
Surr: Nitrobenzene-d5	90.8	42.4-132		%REC	1	4/8/2013 12:49:08 PM
Surr: Phenol-d5	88.9	44.3-119		%REC	1	4/8/2013 12:49:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Toluene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Naphthalene	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 8:27:57 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 8:27:57 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 6:20:00 PM
Lab ID: 1304059-009
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Acetone	ND	0.75		mg/Kg	1	4/8/2013 8:27:57 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Bromoform	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Bromomethane	ND	0.15		mg/Kg	1	4/8/2013 8:27:57 PM
2-Butanone	ND	0.50		mg/Kg	1	4/8/2013 8:27:57 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/8/2013 8:27:57 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Chloroethane	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
Chloroform	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Chloromethane	ND	0.15		mg/Kg	1	4/8/2013 8:27:57 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/8/2013 8:27:57 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/8/2013 8:27:57 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/8/2013 8:27:57 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/8/2013 8:27:57 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Styrene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 6:20:00 PM
Lab ID: 1304059-009
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/8/2013 8:27:57 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/8/2013 8:27:57 PM
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%REC	1	4/8/2013 8:27:57 PM
Surr: 4-Bromofluorobenzene	90.1	70-130		%REC	1	4/8/2013 8:27:57 PM
Surr: Dibromofluoromethane	87.9	70-130		%REC	1	4/8/2013 8:27:57 PM
Surr: Toluene-d8	97.9	70-130		%REC	1	4/8/2013 8:27:57 PM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	410	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 4:16:00 PM
Lab ID: 1304059-010
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2013 8:14:56 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/5/2013 8:14:56 PM
Surr: DNOP	106	72.4-120		%REC	1	4/5/2013 8:14:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 8:01:10 PM
Surr: BFB	93.0	80-120		%REC	1	4/4/2013 8:01:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/4/2013 8:01:10 PM
Toluene	ND	0.050		mg/Kg	1	4/4/2013 8:01:10 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/4/2013 8:01:10 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/4/2013 8:01:10 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	4/4/2013 8:01:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	ND	1.5		mg/Kg	5	4/8/2013 4:04:20 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 4:04:20 PM
Nitrogen, Nitrate (As N)	3.3	1.5		mg/Kg	5	4/8/2013 4:04:20 PM
Sulfate	28	7.5		mg/Kg	5	4/8/2013 4:04:20 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	0.071	0.033		mg/kg	1	4/18/2013 3:40:49 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	4/19/2013 4:17:38 PM
Barium	160	0.50		mg/Kg	5	4/15/2013 10:16:55 AM
Cadmium	ND	0.50		mg/Kg	5	4/19/2013 4:17:38 PM
Calcium	7400	120		mg/Kg	5	4/15/2013 10:16:55 AM
Chromium	10	1.5		mg/Kg	5	4/15/2013 10:16:55 AM
Lead	5.9	1.2		mg/Kg	5	4/15/2013 10:16:55 AM
Magnesium	2300	120		mg/Kg	5	4/15/2013 10:16:55 AM
Potassium	1000	250		mg/Kg	5	4/15/2013 10:16:55 AM
Selenium	ND	13		mg/Kg	5	4/19/2013 4:17:38 PM
Silver	ND	1.2		mg/Kg	5	4/15/2013 10:16:55 AM
Sodium	ND	120		mg/Kg	5	4/15/2013 10:16:55 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 1:37:00 PM
Lab ID: 1304059-011
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 3:27:30 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 3:27:30 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 3:27:30 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 3:27:30 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 3:27:30 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 3:27:30 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 3:27:30 PM
Surr: Decachlorobiphenyl	106	22.2-164		%REC	1	4/5/2013 3:27:30 PM
Surr: Tetrachloro-m-xylene	86.4	17.8-160		%REC	1	4/5/2013 3:27:30 PM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/5/2013 8:42:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/5/2013 8:42:24 PM
Surr: DNOP	103	72.4-120		%REC	1	4/5/2013 8:42:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 8:29:52 PM
Surr: BFB	93.7	80-120		%REC	1	4/4/2013 8:29:52 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	3.8	1.5		mg/Kg	5	4/8/2013 4:29:10 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 4:29:10 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	4/8/2013 4:29:10 PM
Sulfate	30	7.5		mg/Kg	5	4/8/2013 4:29:10 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	4/18/2013 3:42:35 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	12		mg/Kg	5	4/19/2013 4:20:04 PM
Barium	190	0.50		mg/Kg	5	4/15/2013 10:22:03 AM
Cadmium	ND	0.50		mg/Kg	5	4/19/2013 4:20:04 PM
Calcium	7700	120		mg/Kg	5	4/15/2013 10:22:03 AM
Chromium	20	1.5		mg/Kg	5	4/15/2013 10:22:03 AM
Lead	6.9	1.2		mg/Kg	5	4/15/2013 10:22:03 AM
Magnesium	3700	120		mg/Kg	5	4/15/2013 10:22:03 AM
Potassium	2500	250		mg/Kg	5	4/15/2013 10:22:03 AM
Selenium	ND	12		mg/Kg	5	4/19/2013 4:20:04 PM
Silver	ND	1.2		mg/Kg	5	4/15/2013 10:22:03 AM
Sodium	ND	120		mg/Kg	5	4/15/2013 10:22:03 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 1:37:00 PM
Lab ID: 1304059-011
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 1:20:05 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 1:20:05 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 1:20:05 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 1:20:05 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 1:20:05 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 1:20:05 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 1:37:00 PM
Lab ID: 1304059-011
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 1:20:05 PM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 1:20:05 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 1:20:05 PM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 1:20:05 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 1:20:05 PM
Surr: 2,4,6-Tribromophenol	91.6	40.1-130		%REC	1	4/8/2013 1:20:05 PM
Surr: 2-Fluorobiphenyl	91.9	44.4-123		%REC	1	4/8/2013 1:20:05 PM
Surr: 2-Fluorophenol	81.8	41.9-112		%REC	1	4/8/2013 1:20:05 PM
Surr: 4-Terphenyl-d14	95.6	29.6-130		%REC	1	4/8/2013 1:20:05 PM
Surr: Nitrobenzene-d5	90.4	42.4-132		%REC	1	4/8/2013 1:20:05 PM
Surr: Phenol-d5	90.3	44.3-119		%REC	1	4/8/2013 1:20:05 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Toluene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Naphthalene	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 1:37:00 PM
Lab ID: 1304059-011
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 8:56:24 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 8:56:24 PM
Acetone	ND	0.75		mg/Kg	1	4/8/2013 8:56:24 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Bromoform	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Bromomethane	ND	0.15		mg/Kg	1	4/8/2013 8:56:24 PM
2-Butanone	ND	0.50		mg/Kg	1	4/8/2013 8:56:24 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/8/2013 8:56:24 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Chloroethane	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
Chloroform	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Chloromethane	ND	0.15		mg/Kg	1	4/8/2013 8:56:24 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/8/2013 8:56:24 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/8/2013 8:56:24 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/8/2013 8:56:24 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/8/2013 8:56:24 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Styrene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3A
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 1:37:00 PM
Lab ID: 1304059-011
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/8/2013 8:56:24 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/8/2013 8:56:24 PM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	1	4/8/2013 8:56:24 PM
Surr: 4-Bromofluorobenzene	88.4	70-130		%REC	1	4/8/2013 8:56:24 PM
Surr: Dibromofluoromethane	90.3	70-130		%REC	1	4/8/2013 8:56:24 PM
Surr: Toluene-d8	99.2	70-130		%REC	1	4/8/2013 8:56:24 PM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	920	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:20:00 PM
Lab ID: I304059-012
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 4:12:33 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 4:12:33 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 4:12:33 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 4:12:33 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 4:12:33 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 4:12:33 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 4:12:33 PM
Surr: Decachlorobiphenyl	103	22.2-164		%REC	1	4/5/2013 4:12:33 PM
Surr: Tetrachloro-m-xylene	87.2	17.8-160		%REC	1	4/5/2013 4:12:33 PM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	41	9.6		mg/Kg	1	4/5/2013 9:09:56 PM
Motor Oil Range Organics (MRO)	60	48		mg/Kg	1	4/5/2013 9:09:56 PM
Surr: DNOP	105	72.4-120		%REC	1	4/5/2013 9:09:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 10:53:14 PM
Surr: BFB	92.8	80-120		%REC	1	4/4/2013 10:53:14 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	3.9	1.5		mg/Kg	5	4/8/2013 4:53:59 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 4:53:59 PM
Nitrogen, Nitrate (As N)	1.6	1.5		mg/Kg	5	4/8/2013 4:53:59 PM
Sulfate	39	7.5		mg/Kg	5	4/8/2013 4:53:59 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	4/18/2013 3:44:23 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	25		mg/Kg	10	4/12/2013 10:33:52 AM
Barium	160	1.0		mg/Kg	10	4/12/2013 10:33:52 AM
Cadmium	ND	1.0		mg/Kg	10	4/12/2013 10:33:52 AM
Calcium	8100	250		mg/Kg	10	4/12/2013 10:33:52 AM
Chromium	20	3.0		mg/Kg	10	4/12/2013 10:33:52 AM
Lead	8.0	2.5		mg/Kg	10	4/12/2013 10:33:52 AM
Magnesium	5000	250		mg/Kg	10	4/12/2013 10:33:52 AM
Potassium	3200	500		mg/Kg	10	4/12/2013 10:33:52 AM
Selenium	ND	25		mg/Kg	10	4/12/2013 10:33:52 AM
Silver	ND	2.5		mg/Kg	10	4/12/2013 10:33:52 AM
Sodium	ND	250		mg/Kg	10	4/12/2013 10:33:52 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:20:00 PM
Lab ID: 1304059-012
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 1:51:04 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 1:51:04 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 1:51:04 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 1:51:04 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 1:51:04 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 1:51:04 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:20:00 PM
Lab ID: 1304059-012
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 1:51:04 PM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 1:51:04 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 1:51:04 PM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 1:51:04 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 1:51:04 PM
Surr: 2,4,6-Tribromophenol	85.0	40.1-130		%REC	1	4/8/2013 1:51:04 PM
Surr: 2-Fluorobiphenyl	87.1	44.4-123		%REC	1	4/8/2013 1:51:04 PM
Surr: 2-Fluorophenol	78.7	41.9-112		%REC	1	4/8/2013 1:51:04 PM
Surr: 4-Terphenyl-d14	96.2	29.6-130		%REC	1	4/8/2013 1:51:04 PM
Surr: Nitrobenzene-d5	93.8	42.4-132		%REC	1	4/8/2013 1:51:04 PM
Surr: Phenol-d5	86.9	44.3-119		%REC	1	4/8/2013 1:51:04 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Toluene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Naphthalene	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:20:00 PM
Lab ID: 1304059-012
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 9:24:34 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 9:24:34 PM
Acetone	ND	0.75		mg/Kg	1	4/8/2013 9:24:34 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Bromoform	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Bromomethane	ND	0.15		mg/Kg	1	4/8/2013 9:24:34 PM
2-Butanone	ND	0.50		mg/Kg	1	4/8/2013 9:24:34 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/8/2013 9:24:34 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Chloroethane	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
Chloroform	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Chloromethane	ND	0.15		mg/Kg	1	4/8/2013 9:24:34 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Dibromomethane	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/8/2013 9:24:34 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/8/2013 9:24:34 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/8/2013 9:24:34 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/8/2013 9:24:34 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Styrene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3B
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:20:00 PM
Lab ID: 1304059-012
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/8/2013 9:24:34 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/8/2013 9:24:34 PM
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%REC	1	4/8/2013 9:24:34 PM
Surr: 4-Bromofluorobenzene	87.1	70-130		%REC	1	4/8/2013 9:24:34 PM
Surr: Dibromofluoromethane	88.1	70-130		%REC	1	4/8/2013 9:24:34 PM
Surr: Toluene-d8	94.2	70-130		%REC	1	4/8/2013 9:24:34 PM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	1200	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM
SM4500-H+B: PH						Analyst: **KS**
pH	8.42	1.68		pH Units	1	4/29/2013 12:37:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:51:00 PM
Lab ID: 1304059-013
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 4:57:29 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 4:57:29 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 4:57:29 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 4:57:29 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 4:57:29 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 4:57:29 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 4:57:29 PM
Surr: Decachlorobiphenyl	95.6	22.2-164		%REC	1	4/5/2013 4:57:29 PM
Surr: Tetrachloro-m-xylene	89.2	17.8-160		%REC	1	4/5/2013 4:57:29 PM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2013 9:37:42 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/5/2013 9:37:42 PM
Surr: DNOP	107	72.4-120		%REC	1	4/5/2013 9:37:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 11:21:49 PM
Surr: BFB	92.1	80-120		%REC	1	4/4/2013 11:21:49 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	3.4	1.5		mg/Kg	5	4/8/2013 5:18:50 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 5:18:50 PM
Nitrogen, Nitrate (As N)	6.5	1.5		mg/Kg	5	4/8/2013 5:18:50 PM
Sulfate	29	7.5		mg/Kg	5	4/8/2013 5:18:50 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	4/18/2013 3:46:11 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	25		mg/Kg	10	4/12/2013 10:36:23 AM
Barium	140	1.0		mg/Kg	10	4/12/2013 10:36:23 AM
Cadmium	ND	1.0		mg/Kg	10	4/12/2013 10:36:23 AM
Calcium	9400	250		mg/Kg	10	4/12/2013 10:36:23 AM
Chromium	16	3.0		mg/Kg	10	4/12/2013 10:36:23 AM
Lead	7.9	2.5		mg/Kg	10	4/12/2013 10:36:23 AM
Magnesium	4000	250		mg/Kg	10	4/12/2013 10:36:23 AM
Potassium	2300	500		mg/Kg	10	4/12/2013 10:36:23 AM
Selenium	ND	25		mg/Kg	10	4/12/2013 10:36:23 AM
Silver	ND	2.5		mg/Kg	10	4/12/2013 10:36:23 AM
Sodium	ND	250		mg/Kg	10	4/12/2013 10:36:23 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:51:00 PM
Lab ID: 1304059-013
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 2:22:09 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 2:22:09 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 2:22:09 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 2:22:09 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 2:22:09 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 2:22:09 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:51:00 PM
Lab ID: 1304059-013
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 2:22:09 PM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 2:22:09 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 2:22:09 PM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 2:22:09 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 2:22:09 PM
Surr: 2,4,6-Tribromophenol	86.7	40.1-130		%REC	1	4/8/2013 2:22:09 PM
Surr: 2-Fluorobiphenyl	83.4	44.4-123		%REC	1	4/8/2013 2:22:09 PM
Surr: 2-Fluorophenol	78.1	41.9-112		%REC	1	4/8/2013 2:22:09 PM
Surr: 4-Terphenyl-d14	79.6	29.6-130		%REC	1	4/8/2013 2:22:09 PM
Surr: Nitrobenzene-d5	78.8	42.4-132		%REC	1	4/8/2013 2:22:09 PM
Surr: Phenol-d5	81.0	44.3-119		%REC	1	4/8/2013 2:22:09 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Toluene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Naphthalene	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:51:00 PM
Lab ID: 1304059-013
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/9/2013 12:47:12 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/9/2013 12:47:12 AM
Acetone	ND	0.75		mg/Kg	1	4/9/2013 12:47:12 AM
Bromobenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Bromoform	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Bromomethane	ND	0.15		mg/Kg	1	4/9/2013 12:47:12 AM
2-Butanone	ND	0.50		mg/Kg	1	4/9/2013 12:47:12 AM
Carbon disulfide	ND	0.50		mg/Kg	1	4/9/2013 12:47:12 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
Chlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Chloroethane	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
Chloroform	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Chloromethane	ND	0.15		mg/Kg	1	4/9/2013 12:47:12 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Dibromomethane	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
2-Hexanone	ND	0.50		mg/Kg	1	4/9/2013 12:47:12 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/9/2013 12:47:12 AM
Methylene chloride	ND	0.15		mg/Kg	1	4/9/2013 12:47:12 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/9/2013 12:47:12 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Styrene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3C
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 2:51:00 PM
Lab ID: 1304059-013
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
Vinyl chloride	ND	0.050		mg/Kg	1	4/9/2013 12:47:12 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/9/2013 12:47:12 AM
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%REC	1	4/9/2013 12:47:12 AM
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	1	4/9/2013 12:47:12 AM
Surr: Dibromofluoromethane	87.6	70-130		%REC	1	4/9/2013 12:47:12 AM
Surr: Toluene-d8	95.0	70-130		%REC	1	4/9/2013 12:47:12 AM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	1100	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM
SM4500-H+B: PH						Analyst: **KS**
pH	8.26	1.68		pH Units	1	4/29/2013 12:37:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 3:30:00 PM
Lab ID: 1304059-014
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: **SCC**
Aroclor 1016	ND	0.020		mg/Kg	1	4/5/2013 5:42:15 PM
Aroclor 1221	ND	0.020		mg/Kg	1	4/5/2013 5:42:15 PM
Aroclor 1232	ND	0.020		mg/Kg	1	4/5/2013 5:42:15 PM
Aroclor 1242	ND	0.020		mg/Kg	1	4/5/2013 5:42:15 PM
Aroclor 1248	ND	0.020		mg/Kg	1	4/5/2013 5:42:15 PM
Aroclor 1254	ND	0.020		mg/Kg	1	4/5/2013 5:42:15 PM
Aroclor 1260	ND	0.020		mg/Kg	1	4/5/2013 5:42:15 PM
Surr: Decachlorobiphenyl	100	22.2-164		%REC	1	4/5/2013 5:42:15 PM
Surr: Tetrachloro-m-xylene	86.8	17.8-160		%REC	1	4/5/2013 5:42:15 PM
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2013 10:05:00 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/5/2013 10:05:00 PM
Surr: DNOP	103	72.4-120		%REC	1	4/5/2013 10:05:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2013 11:50:26 PM
Surr: BFB	93.2	80-120		%REC	1	4/4/2013 11:50:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	3.7	1.5		mg/Kg	5	4/8/2013 6:08:29 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 6:08:29 PM
Nitrogen, Nitrate (As N)	2.6	1.5		mg/Kg	5	4/8/2013 6:08:29 PM
Sulfate	43	7.5		mg/Kg	5	4/8/2013 6:08:29 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	4/18/2013 3:47:58 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	12		mg/Kg	5	4/12/2013 10:10:04 AM
Barium	150	0.50		mg/Kg	5	4/12/2013 10:10:04 AM
Cadmium	ND	0.50		mg/Kg	5	4/12/2013 10:10:04 AM
Calcium	12000	120		mg/Kg	5	4/12/2013 10:10:04 AM
Chromium	17	1.5		mg/Kg	5	4/12/2013 10:10:04 AM
Lead	6.8	1.2		mg/Kg	5	4/12/2013 10:10:04 AM
Magnesium	4700	120		mg/Kg	5	4/12/2013 10:10:04 AM
Potassium	2700	250		mg/Kg	5	4/12/2013 10:10:04 AM
Selenium	ND	12		mg/Kg	5	4/12/2013 10:10:04 AM
Silver	ND	1.2		mg/Kg	5	4/12/2013 10:10:04 AM
Sodium	130	120		mg/Kg	5	4/12/2013 10:10:04 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Acenaphthylene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Aniline	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 3:30:00 PM
Lab ID: 1304059-014
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Anthracene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Azobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Benzoic acid	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Carbazole	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	4/8/2013 2:53:22 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Chrysene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
Di-n-octyl phthalate	ND	0.40		mg/Kg	1	4/8/2013 2:53:22 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Dibenzofuran	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
3,3'-Dichlorobenzidine	ND	0.25		mg/Kg	1	4/8/2013 2:53:22 PM
Diethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Dimethyl phthalate	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
2,4-Dichlorophenol	ND	0.40		mg/Kg	1	4/8/2013 2:53:22 PM
2,4-Dimethylphenol	ND	0.30		mg/Kg	1	4/8/2013 2:53:22 PM
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
2,4-Dinitrophenol	ND	0.40		mg/Kg	1	4/8/2013 2:53:22 PM
2,4-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
2,6-Dinitrotoluene	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
Fluoranthene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Fluorene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Hexachlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Hexachlorobutadiene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 3:30:00 PM
Lab ID: 1304059-014
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Hexachloroethane	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Isophorone	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
2-Methylphenol	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
3+4-Methylphenol	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Naphthalene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
2-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
3-Nitroaniline	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
4-Nitroaniline	ND	0.40		mg/Kg	1	4/8/2013 2:53:22 PM
Nitrobenzene	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
2-Nitrophenol	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
4-Nitrophenol	ND	0.25		mg/Kg	1	4/8/2013 2:53:22 PM
Pentachlorophenol	ND	0.40		mg/Kg	1	4/8/2013 2:53:22 PM
Phenanthrene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Phenol	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Pyrene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Pyridine	ND	0.50		mg/Kg	1	4/8/2013 2:53:22 PM
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	4/8/2013 2:53:22 PM
Surr: 2,4,6-Tribromophenol	86.5	40.1-130		%REC	1	4/8/2013 2:53:22 PM
Surr: 2-Fluorobiphenyl	89.9	44.4-123		%REC	1	4/8/2013 2:53:22 PM
Surr: 2-Fluorophenol	92.3	41.9-112		%REC	1	4/8/2013 2:53:22 PM
Surr: 4-Terphenyl-d14	87.2	29.6-130		%REC	1	4/8/2013 2:53:22 PM
Surr: Nitrobenzene-d5	94.0	42.4-132		%REC	1	4/8/2013 2:53:22 PM
Surr: Phenol-d5	97.4	44.3-119		%REC	1	4/8/2013 2:53:22 PM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Toluene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Naphthalene	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 3:30:00 PM
Lab ID: 1304059-014
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/9/2013 1:15:42 AM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/9/2013 1:15:42 AM
Acetone	ND	0.75		mg/Kg	1	4/9/2013 1:15:42 AM
Bromobenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Bromoform	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Bromomethane	ND	0.15		mg/Kg	1	4/9/2013 1:15:42 AM
2-Butanone	ND	0.50		mg/Kg	1	4/9/2013 1:15:42 AM
Carbon disulfide	ND	0.50		mg/Kg	1	4/9/2013 1:15:42 AM
Carbon tetrachloride	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
Chlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Chloroethane	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
Chloroform	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Chloromethane	ND	0.15		mg/Kg	1	4/9/2013 1:15:42 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Dibromomethane	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
2-Hexanone	ND	0.50		mg/Kg	1	4/9/2013 1:15:42 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/9/2013 1:15:42 AM
Methylene chloride	ND	0.15		mg/Kg	1	4/9/2013 1:15:42 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/9/2013 1:15:42 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Styrene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3D
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 3:30:00 PM
Lab ID: 1304059-014
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
Vinyl chloride	ND	0.050		mg/Kg	1	4/9/2013 1:15:42 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/9/2013 1:15:42 AM
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%REC	1	4/9/2013 1:15:42 AM
Surr: 4-Bromofluorobenzene	84.6	70-130		%REC	1	4/9/2013 1:15:42 AM
Surr: Dibromofluoromethane	93.5	70-130		%REC	1	4/9/2013 1:15:42 AM
Surr: Toluene-d8	96.3	70-130		%REC	1	4/9/2013 1:15:42 AM
CONDUCTANCE						Analyst: **JML**
Specific Conductance	1000	1.0		µmhos/cm	1	4/15/2013 1:57:00 PM
SM4500-H+B: PH						Analyst: **KS**
pH	8.26	1.68		pH Units	1	4/29/2013 12:37:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 12:43:00 PM
Lab ID: 1304059-015
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	11		mg/Kg	1	4/5/2013 10:32:13 PM
Motor Oil Range Organics (MRO)	ND	53		mg/Kg	1	4/5/2013 10:32:13 PM
Surr: DNOP	102	72.4-120		%REC	1	4/5/2013 10:32:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2013 12:19:06 AM
Surr: BFB	93.1	80-120		%REC	1	4/5/2013 12:19:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/5/2013 12:19:06 AM
Toluene	ND	0.050		mg/Kg	1	4/5/2013 12:19:06 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2013 12:19:06 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/5/2013 12:19:06 AM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	4/5/2013 12:19:06 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Fluoride	2.1	1.5		mg/Kg	5	4/8/2013 6:33:19 PM
Chloride	ND	7.5		mg/Kg	5	4/8/2013 6:33:19 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	4/8/2013 6:33:19 PM
Sulfate	ND	7.5		mg/Kg	5	4/8/2013 6:33:19 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	4/18/2013 3:49:46 PM
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**
Arsenic	ND	13		mg/Kg	5	4/19/2013 4:22:25 PM
Barium	130	0.50		mg/Kg	5	4/15/2013 10:27:06 AM
Cadmium	ND	0.50		mg/Kg	5	4/19/2013 4:22:25 PM
Calcium	4000	120		mg/Kg	5	4/15/2013 10:27:06 AM
Chromium	20	1.5		mg/Kg	5	4/15/2013 10:27:06 AM
Lead	6.1	1.2		mg/Kg	5	4/15/2013 10:27:06 AM
Magnesium	2600	120		mg/Kg	5	4/15/2013 10:27:06 AM
Potassium	2600	250		mg/Kg	5	4/15/2013 10:27:06 AM
Selenium	ND	13		mg/Kg	5	4/19/2013 4:22:25 PM
Silver	ND	1.2		mg/Kg	5	4/15/2013 10:27:06 AM
Sodium	ND	120		mg/Kg	5	4/15/2013 10:27:06 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Treatment Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/29/2013 4:37:00 PM
Lab ID: 1304059-016
Matrix: MEOH (SOIL)
Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **GSA**
Diesel Range Organics (DRO)	180	10		mg/Kg	10	4/10/2013 3:21:57 PM
Motor Oil Range Organics (MRO)	420	52		mg/Kg	10	4/10/2013 3:21:57 PM
Surr: DNOP	0	72.4-120	S	%REC	10	4/10/2013 3:21:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2013 12:47:40 AM
Surr: BFB	106	80-120		%REC	1	4/5/2013 12:47:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	4/5/2013 12:47:40 AM
Toluene	ND	0.050		mg/Kg	1	4/5/2013 12:47:40 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2013 12:47:40 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/5/2013 12:47:40 AM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	4/5/2013 12:47:40 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	22	7.5		mg/Kg	5	4/8/2013 6:58:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection 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 #:**	130404039
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1304059
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-001	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-006C / VADOSE ZONE CELL #1A			**Sampling Time**	5:02 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.288	4/10/2013	CRW	EPA 335.4	
Mercury-ICPMS	ND	mg/Kg	0.06	5/1/2013	ALS	EPA 6020A	
pH	8.03	ph Units		4/18/2013	AJT	EPA 9045	
%moisture	13	Percent		4/11/2013	CRW	%moisture	

Anatek Labs, Inc.

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1304059
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-002	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-007C / VADOSE ZONE CELL #1B			**Sampling Time**	5:34 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.259	4/10/2013	CRW	EPA 335.4	
Mercury-ICPMS	ND	mg/Kg	0.06	5/1/2013	ALS	EPA 6020A	
pH	8.02	ph Units		4/18/2013	AJT	EPA 9045	
%moisture	4.6	Percent		4/11/2013	CRW	%moisture	

Anatek Labs, Inc.

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1304059
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-003	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-008C / VADOSE ZONE CELL #1C			**Sampling Time**	5:58 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.27	4/10/2013	CRW	EPA 335.4	
%moisture	7.3	Percent		4/11/2013	CRW	%moisture	

Anatek Labs, Inc.

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1304059
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-004	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-009C / VADOSE ZONE CELL #1D			**Sampling Time**	6:20 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.266	4/10/2013	CRW	EPA 335.4	
Mercury-ICPMS	ND	mg/Kg	0.06	5/1/2013	ALS	EPA 6020A	
pH	7.70	ph Units		4/18/2013	AJT	EPA 9045	
%moisture	5.8	Percent		4/11/2013	CRW	%moisture	

Anatek Labs, Inc.

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1304059
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-005	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-010C / VADOSE ZONE CELL #2			**Sampling Time**	4:16 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.299	4/10/2013	CRW	EPA 335.4	
%moisture	17	Percent		4/11/2013	CRW	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1304059
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-006	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-011C / VADOSE ZONE CELL #3A			**Sampling Time**	1:37 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.278	4/12/2013	CRW	EPA 335.4	
pH	7.82	ph Units		4/18/2013	AJT	EPA 9045	
%moisture	11.5	Percent		4/11/2013	CRW	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1304059
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-007	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-012C / VADOSE ZONE CELL #3B			**Sampling Time**	2:20 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.302	4/12/2013	CRW	EPA 335.4	
%moisture	17.4	Percent		4/11/2013	CRW	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1304059
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-008	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-013C / VADOSE ZONE CELL #3C			**Sampling Time**	2:51 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.304	4/12/2013	CRW	EPA 335.4	
%moisture	17.3	Percent		4/11/2013	CRW	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1304059
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-009	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-014C / VADOSE ZONE CELL #3D			**Sampling Time**	3:30 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.302	4/12/2013	CRW	EPA 335.4	
%moisture	17.4	Percent		4/11/2013	CRW	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	130404039
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1304059
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	130404039-010	**Sampling Date**	3/29/2013	**Date/Time Received**	4/4/2013 12:45 PM
Client Sample ID	1304059-015C / VADOSE ZONE CELL #4			**Sampling Time**	12:43 PM
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.27	4/12/2013	CRW	EPA 335.4	
%moisture	7.3	Percent		4/11/2013	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.

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ANALYTICAL RESULTS

Project: 1304059
Pace Project No.: 3091018

Sample: 1304059-006 Vadose Zone #1A **Lab ID: 3091018001** Collected: 03/29/13 17:02 Received: 04/04/13 09:30 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	**1.374 ± 0.353 (0.273)**	pCi/g	04/26/13 13:22	13982-63-3	
Radium-228	EPA 901.1m	**0.899 ± 0.288 (0.728)**	pCi/g	04/26/13 13:22	15262-20-1	

Sample: 1304059-007 Vadose Zone #1B **Lab ID: 3091018002** Collected: 03/29/13 17:34 Received: 04/04/13 09:30 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	**1.524 ± 0.309 (0.210)**	pCi/g	04/26/13 13:40	13982-63-3	
Radium-228	EPA 901.1m	**0.996 ± 0.430 (0.686)**	pCi/g	04/26/13 13:40	15262-20-1	

Sample: 1304059-008 Vadose Zone #1C **Lab ID: 3091018003** Collected: 03/29/13 17:58 Received: 04/04/13 09:30 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	**1.362 ± 0.399 (0.309)**	pCi/g	04/26/13 13:57	13982-63-3	
Radium-228	EPA 901.1m	**1.631 ± 0.506 (0.430)**	pCi/g	04/26/13 13:57	15262-20-1	

Sample: 1304059-009 Vadose Zone #1D **Lab ID: 3091018004** Collected: 03/29/13 18:20 Received: 04/04/13 09:30 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	**1.525 ± 0.321 (0.310)**	pCi/g	04/26/13 14:15	13982-63-3	
Radium-228	EPA 901.1m	**0.630 ± 0.364 (0.677)**	pCi/g	04/26/13 14:15	15262-20-1	

Sample: 1304059-011 Vadose Zone #3A **Lab ID: 3091018005** Collected: 03/29/13 13:37 Received: 04/04/13 09:30 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	**1.732 ± 0.402 (0.391)**	pCi/g	04/26/13 14:39	13982-63-3	
Radium-228	EPA 901.1m	**2.291 ± 0.581 (0.301)**	pCi/g	04/26/13 14:39	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1304059
Pace Project No.: 3091018

Sample: 1304059-012 Vadose Zone #3B Lab ID: **3091018006** Collected: 03/29/13 14:20 Received: 04/04/13 09:30 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	**1.819 ± 0.405 (0.226)**	pCi/g	04/26/13 15:16	13982-63-3	
Radium-228	EPA 901.1m	**1.902 ± 0.596 (0.644)**	pCi/g	04/26/13 15:16	15262-20-1	

Sample: 1304059-013 Vadose Zone #3C Lab ID: **3091018007** Collected: 03/29/13 14:51 Received: 04/04/13 09:30 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	**1.925 ± 0.364 (0.418)**	pCi/g	04/26/13 15:33	13982-63-3	
Radium-228	EPA 901.1m	**1.208 ± 0.513 (0.845)**	pCi/g	04/26/13 15:33	15262-20-1	

Sample: 1304059-014 Vadose Zone #3D Lab ID: **3091018008** Collected: 03/29/13 15:30 Received: 04/04/13 09:30 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	**2.249 ± 0.567 (0.310)**	pCi/g	04/26/13 15:50	13982-63-3	
Radium-228	EPA 901.1m	**1.280 ± 0.530 (0.912)**	pCi/g	04/26/13 15:50	15262-20-1	

Date: 05/02/2013 02:37 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1304059
Pace Project No.: 3091018

QC Batch: RADC/15490 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec Ingrowth
Associated Lab Samples: 3091018001, 3091018002, 3091018003, 3091018004, 3091018005, 3091018006, 3091018007, 3091018008

METHOD BLANK: 570206 Matrix: Solid
Associated Lab Samples: 3091018001, 3091018002, 3091018003, 3091018004, 3091018005, 3091018006, 3091018007, 3091018008

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	-0.105 ± 1.187 (0.534)	pCi/g	04/30/13 15:11	
Radium-228	0.073 ± 0.390 (0.780)	pCi/g	04/30/13 15:11	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6862**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **6862**	RunNo: **9726**
Prep Date: **4/8/2013**	Analysis Date: **4/8/2013**	SeqNo: **277151** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	ND	1.5								

Sample ID **LCS-6862**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **6862**	RunNo: **9726**
Prep Date: **4/8/2013**	Analysis Date: **4/8/2013**	SeqNo: **277152** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.30	1.500	0	96.5	90	110			
Chloride	14	1.5	15.00	0	92.8	90	110			
Nitrogen, Nitrate (As N)	7.3	0.30	7.500	0	96.7	90	110			
Sulfate	28	1.5	30.00	0	94.9	90	110			

Sample ID **1304059-006AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Vadose Zone Cell #**	Batch ID: **6862**	RunNo: **9726**
Prep Date: **4/8/2013**	Analysis Date: **4/8/2013**	SeqNo: **277154** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.1	1.5	1.500	1.402	43.3	18.1	130			
Chloride	18	7.5	15.00	5.998	81.3	64.4	117			
Nitrogen, Nitrate (As N)	14	1.5	7.500	7.966	84.8	80.1	108			
Sulfate	170	7.5	30.00	114.1	185	20.8	141			S

Sample ID **1304059-006AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Vadose Zone Cell #**	Batch ID: **6862**	RunNo: **9726**
Prep Date: **4/8/2013**	Analysis Date: **4/8/2013**	SeqNo: **277155** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.0	1.5	1.500	1.402	40.9	18.1	130	1.77	20	
Chloride	19	7.5	15.00	5.998	84.4	64.4	117	2.52	20	
Nitrogen, Nitrate (As N)	15	1.5	7.500	7.966	89.3	80.1	108	2.32	20	
Sulfate	150	7.5	30.00	114.1	105	20.8	141	15.2	24.9	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R9607**	RunNo: **9607**							
Prep Date:	Analysis Date: **4/2/2013**	SeqNo: **274061**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R9607**	RunNo: **9607**							
Prep Date:	Analysis Date: **4/2/2013**	SeqNo: **274062**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.8	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R9607**	RunNo: **9607**							
Prep Date:	Analysis Date: **4/2/2013**	SeqNo: **274118**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R9607**	RunNo: **9607**							
Prep Date:	Analysis Date: **4/2/2013**	SeqNo: **274119**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.5	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R9672**	RunNo: **9672**							
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275620**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R9672**	RunNo: **9672**							
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275621**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.2	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **LCSD**	SampType: **LCSD**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS02**	Batch ID: **R9672**	RunNo: **9672**							
Prep Date:	Analysis Date: **4/4/2013**	SeqNo: **275622**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110	0.648	20	

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R9672**	RunNo: **9672**							
Prep Date:	Analysis Date: **4/5/2013**	SeqNo: **275693**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R9672**	RunNo: **9672**							
Prep Date:	Analysis Date: **4/5/2013**	SeqNo: **275694**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6813**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **6813**	RunNo: **9640**
Prep Date: **4/3/2013**	Analysis Date: **4/5/2013**	SeqNo: **276046** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	72.4	120			

Sample ID **LCS-6813**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **6813**	RunNo: **9640**
Prep Date: **4/3/2013**	Analysis Date: **4/5/2013**	SeqNo: **276047** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	47.4	122			
Surr: DNOP	5.2		5.000		103	72.4	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6809**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **PBW**	Batch ID: **6809**	RunNo: **9638**
Prep Date: **4/3/2013**	Analysis Date: **4/4/2013**	SeqNo: **275134** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.2		1.000		117	75.4	146			

Sample ID **LCSD-6809**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSS02**	Batch ID: **6809**	RunNo: **9649**
Prep Date: **4/3/2013**	Analysis Date: **4/4/2013**	SeqNo: **275827** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.3	1.0	5.000	0	126	64.4	132	0	20	
Surr: DNOP	0.64		0.5000		128	75.4	146	0	0	

Sample ID **LCS-6809**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSW**	Batch ID: **6809**	RunNo: **9649**
Prep Date: **4/3/2013**	Analysis Date: **4/4/2013**	SeqNo: **275828** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.3	1.0	5.000	0	126	64.4	132			
Surr: DNOP	0.64		0.5000		128	75.4	146			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6793**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R9658**	RunNo: **9658**
Prep Date: **4/2/2013**	Analysis Date: **4/4/2013**	SeqNo: **275390** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.0	80	120			

Sample ID **LCS-6793**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R9658**	RunNo: **9658**
Prep Date: **4/2/2013**	Analysis Date: **4/4/2013**	SeqNo: **275391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	62.6	136			
Surr: BFB	990		1000		98.7	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274624** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	16		20.00		79.1	51.9	148			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274625** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	73.2	124			
Surr: BFB	18		20.00		89.3	51.9	148			

Sample ID **1304059-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-2**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274640** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.1	0.10	1.000	0	106	65.2	137			
Surr: BFB	36		40.00		88.8	51.9	148			

Sample ID **1304059-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-2**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274642** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.0	0.10	1.000	0	102	65.2	137	3.64	20	
Surr: BFB	36		40.00		89.5	51.9	148	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6793**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R9658**	RunNo: **9658**
Prep Date: **4/2/2013**	Analysis Date: **4/4/2013**	SeqNo: **275435** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID **LCS-6793**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R9658**	RunNo: **9658**
Prep Date: **4/2/2013**	Analysis Date: **4/4/2013**	SeqNo: **275436** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274677** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		91.8	69.4	129			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274678** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	21	1.0	20.00	0	106	80	120			
Xylenes, Total	66	2.0	60.00	0	109	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	69.4	129			

Sample ID **1304059-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274686** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	39	2.0	40.00	0	96.5	80	120			
Toluene	39	2.0	40.00	0	98.2	80	120			
Ethylbenzene	40	2.0	40.00	0	99.7	80	120			
Xylenes, Total	130	4.0	120.0	0	104	80	120			
Surr: 4-Bromofluorobenzene	41		40.00		103	69.4	129			

Sample ID **1304059-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-1**	Batch ID: **R9628**	RunNo: **9628**
Prep Date:	Analysis Date: **4/3/2013**	SeqNo: **274687** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	40	2.0	40.00	0	100	80	120	3.55	20	
Toluene	40	2.0	40.00	0	101	80	120	2.36	20	
Ethylbenzene	41	2.0	40.00	0	102	80	120	2.21	20	
Xylenes, Total	130	4.0	120.0	0	105	80	120	1.09	20	
Surr: 4-Bromofluorobenzene	43		40.00		106	69.4	129	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6804**	SampType: **MBLK**	TestCode: **EPA Method 8082: PCB's**
Client ID: **PBS**	Batch ID: **6804**	RunNo: **9669**
Prep Date: **4/3/2013**	Analysis Date: **4/4/2013**	SeqNo: **275604** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.020								
Aroclor 1221	ND	0.020								
Aroclor 1232	ND	0.020								
Aroclor 1242	ND	0.020								
Aroclor 1248	ND	0.020								
Aroclor 1254	ND	0.020								
Aroclor 1260	ND	0.020								
Surr: Decachlorobiphenyl	0.065		0.06250		104	22.2	164			
Surr: Tetrachloro-m-xylene	0.043		0.06250		69.2	17.8	160			

Sample ID **LCS-6804**	SampType: **LCS**	TestCode: **EPA Method 8082: PCB's**
Client ID: **LCSS**	Batch ID: **6804**	RunNo: **9669**
Prep Date: **4/3/2013**	Analysis Date: **4/5/2013**	SeqNo: **275606** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.079	0.020	0.1250	0	63.3	31.6	114			
Aroclor 1260	0.13	0.020	0.1250	0	101	39	135			
Surr: Decachlorobiphenyl	0.068		0.06250		108	22.2	164			
Surr: Tetrachloro-m-xylene	0.048		0.06250		76.8	17.8	160			

Sample ID **1304059-006BMS**	SampType: **MS**	TestCode: **EPA Method 8082: PCB's**
Client ID: **Vadose Zone Cell #**	Batch ID: **6804**	RunNo: **9669**
Prep Date: **4/3/2013**	Analysis Date: **4/5/2013**	SeqNo: **275857** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.073	0.020	0.1253	0	58.4	13.68	112			
Aroclor 1260	0.088	0.020	0.1253	0	70.0	12.2	129			
Surr: Decachlorobiphenyl	0.050		0.06266		80.4	22.2	164			
Surr: Tetrachloro-m-xylene	0.043		0.06266		68.0	17.8	160			

Sample ID **1304059-006BMSD**	SampType: **MSD**	TestCode: **EPA Method 8082: PCB's**
Client ID: **Vadose Zone Cell #**	Batch ID: **6804**	RunNo: **9669**
Prep Date: **4/3/2013**	Analysis Date: **4/5/2013**	SeqNo: **275858** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.090	0.020	0.1249	0	71.7	13.68	112	20.1	20	R
Aroclor 1260	0.11	0.020	0.1249	0	89.4	12.2	129	24.0	20	R
Surr: Decachlorobiphenyl	0.066		0.06247		105	22.2	164	0	0	
Surr: Tetrachloro-m-xylene	0.056		0.06247		89.2	17.8	160	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **100ng lcs**	SampType: **LCS**			TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **LCSS**	Batch ID: **R9722**			RunNo: **9722**						
Prep Date:	Analysis Date: **4/8/2013**			SeqNo: **277200**		Units: **mg/Kg**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	70	130			
Toluene	1.1	0.050	1.000	0	105	80	120			
Chlorobenzene	1.0	0.050	1.000	0	105	70	130			
1,1-Dichloroethene	0.94	0.050	1.000	0	94.0	83.5	130			
Trichloroethene (TCE)	0.97	0.050	1.000	0	97.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.7	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.6	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.6	70	130			
Surr: Toluene-d8	0.47		0.5000		94.8	70	130			

Sample ID **mb-6843**	SampType: **MBLK**			TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **PBS**	Batch ID: **R9722**			RunNo: **9722**						
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**			SeqNo: **277239**		Units: **mg/Kg**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.10								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **mb-6843**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBS**	Batch ID: **R9722**	RunNo: **9722**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.10								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.10								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **mb-6843**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBS**	Batch ID: **R9722**	RunNo: **9722**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277239** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.4	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.0	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		90.8	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Sample ID **lcs-6843**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSS**	Batch ID: **R9722**	RunNo: **9722**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277240** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.9	70	130			
Toluene	1.1	0.050	1.000	0	106	80	120			
Chlorobenzene	0.98	0.050	1.000	0	98.4	70	130			
1,1-Dichloroethene	0.91	0.050	1.000	0	91.1	83.5	130			
Trichloroethene (TCE)	0.96	0.050	1.000	0	95.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.8	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.1	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.9	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **mb-6805**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **6805**	RunNo: **9715**
Prep Date: **4/3/2013**	Analysis Date: **4/8/2013**	SeqNo: **276846** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Azobenzene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Benzoic acid	ND	0.50								
Benzyl alcohol	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3'-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.40								
2,4-Dinitrotoluene	ND	0.50								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **mb-6805**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**	
Client ID: **PBS**	Batch ID: **6805**	RunNo: **9715**	
Prep Date: **4/3/2013**	Analysis Date: **4/8/2013**	SeqNo: **276846**	Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2,4,6-Tribromophenol	2.2		3.330		66.3	40.1	130			
Surr: 2-Fluorobiphenyl	1.1		1.670		65.2	44.4	123			
Surr: 2-Fluorophenol	2.1		3.330		63.4	41.9	112			
Surr: 4-Terphenyl-d14	1.2		1.670		73.0	29.6	130			
Surr: Nitrobenzene-d5	1.2		1.670		74.6	42.4	132			
Surr: Phenol-d5	2.3		3.330		68.9	44.3	119			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **lcs-6805**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **6805**	RunNo: **9715**
Prep Date: **4/3/2013**	Analysis Date: **4/8/2013**	SeqNo: **276847** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.670	0	75.7	45.8	95.8			
4-Chloro-3-methylphenol	2.1	0.50	3.330	0	64.3	49.9	103			
2-Chlorophenol	2.2	0.20	3.330	0	66.3	43.4	94			
1,4-Dichlorobenzene	1.2	0.20	1.670	0	70.8	37.3	95.4			
2,4-Dinitrotoluene	1.4	0.50	1.670	0	83.4	51.6	113			
N-Nitrosodi-n-propylamine	1.0	0.20	1.670	0	60.0	43.4	105			
4-Nitrophenol	2.2	0.25	3.330	0	66.3	45.4	113			
Pentachlorophenol	1.8	0.40	3.330	0	54.5	40	90.2			
Phenol	2.2	0.20	3.330	0	66.8	44.4	99.8			
Pyrene	1.2	0.20	1.670	0	74.7	48.1	93.1			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	78.6	41.6	103			
Surr: 2,4,6-Tribromophenol	2.6		3.330		78.8	40.1	130			
Surr: 2-Fluorobiphenyl	1.3		1.670		79.1	44.4	123			
Surr: 2-Fluorophenol	2.3		3.330		70.0	41.9	112			
Surr: 4-Terphenyl-d14	1.5		1.670		90.0	29.6	130			
Surr: Nitrobenzene-d5	1.4		1.670		84.1	42.4	132			
Surr: Phenol-d5	2.5		3.330		76.5	44.3	119			

Sample ID **1304059-007Bms**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **Vadose Zone Cell #**	Batch ID: **6805**	RunNo: **9715**
Prep Date: **4/3/2013**	Analysis Date: **4/8/2013**	SeqNo: **276856** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.20	1.671	0	82.3	25.6	142			
4-Chloro-3-methylphenol	2.6	0.50	3.332	0	79.0	63.7	100			
2-Chlorophenol	2.6	0.20	3.332	0	76.7	22.2	126			
1,4-Dichlorobenzene	1.4	0.20	1.671	0	85.4	12.4	115			
2,4-Dinitrotoluene	1.6	0.50	1.671	0	94.0	14.9	142			
N-Nitrosodi-n-propylamine	1.5	0.20	1.671	0	87.2	13.9	136			
4-Nitrophenol	2.7	0.25	3.332	0	80.9	36.7	130			
Pentachlorophenol	2.3	0.40	3.332	0.05232	67.7	15.8	113			
Phenol	2.7	0.20	3.332	0	82.2	25.1	124			
Pyrene	1.4	0.20	1.671	0	83.8	35.8	124			
1,2,4-Trichlorobenzene	1.5	0.20	1.671	0	88.4	30	113			
Surr: 2,4,6-Tribromophenol	3.3		3.332		99.7	40.1	130			
Surr: 2-Fluorobiphenyl	1.6		1.671		93.4	44.4	123			
Surr: 2-Fluorophenol	2.7		3.332		81.6	41.9	112			
Surr: 4-Terphenyl-d14	1.7		1.671		102	29.6	130			
Surr: Nitrobenzene-d5	1.5		1.671		92.4	42.4	132			
Surr: Phenol-d5	3.1		3.332		92.8	44.3	119			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1304059-007Bmsd** SampType: **MSD** TestCode: **EPA Method 8270C: Semivolatiles**

Client ID: **Vadose Zone Cell #** Batch ID: **6805** RunNo: **9715**

Prep Date: **4/3/2013** Analysis Date: **4/8/2013** SeqNo: **276857** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.20	1.664	0	83.6	25.6	142	1.11	22	
4-Chloro-3-methylphenol	3.0	0.50	3.318	0	89.7	63.7	100	12.3	27.3	
2-Chlorophenol	2.6	0.20	3.318	0	77.6	22.2	126	0.670	26.3	
1,4-Dichlorobenzene	1.4	0.20	1.664	0	86.4	12.4	115	0.752	27.4	
2,4-Dinitrotoluene	1.6	0.50	1.664	0	97.2	14.9	142	2.97	27.4	
N-Nitrosodi-n-propylamine	1.5	0.20	1.664	0	89.5	13.9	136	2.16	22.6	
4-Nitrophenol	2.9	0.25	3.318	0	87.2	36.7	130	7.09	20	
Pentachlorophenol	2.4	0.40	3.318	0.05232	71.2	15.8	113	4.56	27.1	
Phenol	2.7	0.20	3.318	0	80.6	25.1	124	2.45	32.2	
Pyrene	1.4	0.20	1.664	0	86.8	35.8	124	3.17	29.5	
1,2,4-Trichlorobenzene	1.6	0.20	1.664	0	93.2	30	113	4.84	27.8	
Surr: 2,4,6-Tribromophenol	3.3		3.318		99.4	40.1	130	0	0	
Surr: 2-Fluorobiphenyl	1.7		1.664		99.9	44.4	123	0	0	
Surr: 2-Fluorophenol	2.9		3.318		86.7	41.9	112	0	0	
Surr: 4-Terphenyl-d14	1.7		1.664		101	29.6	130	0	0	
Surr: Nitrobenzene-d5	1.7		1.664		103	42.4	132	0	0	
Surr: Phenol-d5	3.2		3.318		95.9	44.3	119	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1304059-009ADUP**	SampType: **DUP**			TestCode: **CONDUCTANCE**					
Client ID: **Vadose Zone Cell #**	Batch ID: **R9864**			RunNo: **9864**					
Prep Date:	Analysis Date: **4/15/2013**			SeqNo: **280740**		Units: **µmhos/cm**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Specific Conductance	410	1.0						1.49	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-7047**	SampType: **MBLK**	TestCode: **EPA Method 7471: Mercury**
Client ID: **PBS**	Batch ID: **7047**	RunNo: **9971**
Prep Date: **4/18/2013**	Analysis Date: **4/18/2013**	SeqNo: **284022** Units: **mg/kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID **LCS-7047**	SampType: **LCS**	TestCode: **EPA Method 7471: Mercury**
Client ID: **LCSS**	Batch ID: **7047**	RunNo: **9971**
Prep Date: **4/18/2013**	Analysis Date: **4/18/2013**	SeqNo: **284023** Units: **mg/kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6880**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS**	Batch ID: **6880**	RunNo: **9786**
Prep Date: **4/9/2013**	Analysis Date: **4/11/2013**	SeqNo: **278669** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Calcium	ND	25								
Chromium	ND	0.30								
Lead	ND	0.25								
Magnesium	ND	25								
Potassium	ND	50								
Selenium	ND	2.5								
Silver	ND	0.25								
Sodium	ND	25								

Sample ID **LCS-6880**	SampType: **LCS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS**	Batch ID: **6880**	RunNo: **9786**
Prep Date: **4/9/2013**	Analysis Date: **4/11/2013**	SeqNo: **278670** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	28	2.5	25.00	0	112	80	120			
Barium	28	0.10	25.00	0	111	80	120			
Cadmium	27	0.10	25.00	0	110	80	120			
Calcium	2900	25	2500	0	116	80	120			
Chromium	28	0.30	25.00	0	111	80	120			
Lead	27	0.25	25.00	0	108	80	120			
Magnesium	2800	25	2500	0	113	80	120			
Potassium	2700	50	2500	0	108	80	120			
Selenium	27	2.5	25.00	0	106	80	120			
Silver	5.5	0.25	5.000	0	110	80	120			
Sodium	2800	25	2500	0	111	80	120			

Sample ID **1304059-015BMS**	SampType: **MS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **Vadose Zone Cell #**	Batch ID: **6880**	RunNo: **9858**
Prep Date: **4/9/2013**	Analysis Date: **4/15/2013**	SeqNo: **280679** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	160	0.50	24.89	125.7	127	75	125			S
Calcium	6200	120	2489	3999	88.2	75	125			
Chromium	47	1.5	24.89	19.53	108	75	125			
Lead	28	1.2	24.89	6.148	86.6	75	125			
Magnesium	5300	120	2489	2610	108	75	125			
Potassium	5500	250	2489	2598	117	75	125			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1304059-015BMS** SampType: **MS** TestCode: **EPA Method 6010B: Soil Metals**

Client ID: **Vadose Zone Cell #** Batch ID: **6880** RunNo: **9858**

Prep Date: **4/9/2013** Analysis Date: **4/15/2013** SeqNo: **280679** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	4.5	1.2	4.978	0	89.6	75	125			
Sodium	2300	120	2489	0	90.5	75	125			

Sample ID **1304059-015BMSD** SampType: **MSD** TestCode: **EPA Method 6010B: Soil Metals**

Client ID: **Vadose Zone Cell #** Batch ID: **6880** RunNo: **9858**

Prep Date: **4/9/2013** Analysis Date: **4/15/2013** SeqNo: **280680** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	150	0.50	24.87	125.7	110	75	125	2.69	20	
Calcium	5900	120	2487	3999	75.5	75	125	5.26	20	
Chromium	45	1.5	24.87	19.53	104	75	125	2.39	20	
Lead	27	1.2	24.87	6.148	83.3	75	125	3.04	20	
Magnesium	5000	120	2487	2610	97.8	75	125	4.85	20	
Potassium	5300	250	2487	2598	108	75	125	4.12	20	
Silver	4.3	1.2	4.974	0	87.4	75	125	2.45	20	
Sodium	2100	120	2487	0	85.9	75	125	5.30	20	

Sample ID **1304059-015BMS** SampType: **MS** TestCode: **EPA Method 6010B: Soil Metals**

Client ID: **Vadose Zone Cell #** Batch ID: **6880** RunNo: **10007**

Prep Date: **4/9/2013** Analysis Date: **4/19/2013** SeqNo: **285036** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	24	13	24.89	0	95.0	75	125			
Cadmium	22	0.50	24.89	0	89.7	75	125			
Selenium	18	13	24.89	0	73.6	75	125			S

Sample ID **1304059-015BMSD** SampType: **MSD** TestCode: **EPA Method 6010B: Soil Metals**

Client ID: **Vadose Zone Cell #** Batch ID: **6880** RunNo: **10007**

Prep Date: **4/9/2013** Analysis Date: **4/19/2013** SeqNo: **285039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	26	13	24.87	0	104	75	125	9.28	20	
Cadmium	23	0.50	24.87	0	91.8	75	125	2.16	20	
Selenium	23	13	24.87	0	90.6	75	125	20.6	20	R

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304059**

03-May-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-6799**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **6799**	RunNo: **9655**
Prep Date: **4/3/2013**	Analysis Date: **4/5/2013**	SeqNo: **275223** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-6799**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **6799**	RunNo: **9655**
Prep Date: **4/3/2013**	Analysis Date: **4/5/2013**	SeqNo: **275224** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental | Work Order Number: 1304059 | RcptNo: 1

Received by/date: MG 04/02/13

Logged By: Michelle Garcia 4/2/2013 9:50:00 AM

Completed By: Michelle Garcia 4/2/2013 11:38:58 AM

Reviewed By: IO 04/02/2013

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (If applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
X Standard □ Level 4 (Full Validation)

Accreditation:
□ NELAP □ Other

□ EDD (Type)

Turn-Around Time:
X Standard □ Rush

Project Name:
BMG Llaves Landfarm/ Evaporation Pond

Project #:
AES 040605

Project Manager:
D. Watson

Sampler: L. Lamone

Sample Temperature: On Ice

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.	BTEX 8021	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	TDS SM2540C	Metals (6010/6020/7471)	Cations/Anions	Cyanide SM4500-Cn-C	8270 Benzo-a-pyrene Phenols	8260 VOCs including napthalenes	Radioactivity (radium-226 radium-228)	PCBs	pH, Specific conductivity				Air Bubbles (Y or N)
3/29/2013	1020	H_2O	MW-1	6-40mL glass 1-500mL plastic	5 - HCl / 2 - Non	-001	x	x	x	x												
3/29/2013	1047	H_2O	MW-2	6-40mL glass 1-500mL plastic	5 - HCl / 2 - Non	-002	x	x	x	x												
3/29/2013	1114	H_2O	MW-3	6-40mL glass 1-500mL plastic	5 - HCl / 2 - Non	-003	x	x	x	x												
3/29/2013	0942	H_2O	MW-4	6-40mL glass 1-500mL plastic	5 - HCl / 2 - Non	-004	x	x	x	x												
3/29/2013	1148	H_2O	Interstitial Well	6-40mL glass 1-500mL plastic	5 - HCl / 2 - Non	-005	x	x	x	x												
3-24-2013	1702	Soil	Vadose Zone Cell #1A	1-MeOH Kit 4-4 oz glass	1 - MeOH 4 - Non	-006	x	x		x	x	x	x	x	x	x	x				
3-24-2013	1734	Soil	Vadose Zone Cell #1B	1-MeOH Kit 4-4 oz glass	2 - MeOH 4 - Non	-007	x	x		x	x	x	x	x	x	x	x				
3-24-2013	1758	Soil	Vadose Zone Cell #1C	1-MeOH Kit 4-4 oz glass	3 - MeOH 4 - Non	-008	x	x		x	x	x	x	x	x	x	x				
3-24-2013	1820	Soil	Vadose Zone Cell #1D	1-MeOH Kit 4-4 oz glass	4 - MeOH 4 - Non	-009	x	x		x	x	x	x	x	x	x	x				
3-24-2013	1616	Soil	Vadose Zone Cell #2	1-MeOH Kit 3-4 oz glass	1 - MeOH 3 - Non	-010	x	x	x		x	x	x									
3/24/2013	1337	Soil	Vadose Zone Cell #3A	1-MeOH Kit 4-4 oz glass	0 - MeOH 4 - Non	-011	x	x			x	x	x	x	x	x	x	x				
3-24-2013	1420	Soil	Vadose Zone Cell #3B	1-MeOH Kit 4-4 oz glass	1 - MeOH 4 - Non	-012	x	x			x	x	x	x	x	x	x	x				
3-24-2013	1451	Soil	Vadose Zone Cell #3C	1-MeOH Kit 4-4 oz glass	2 - MeOH 4 - Non	-013	x	x			x	x	x	x	x	x	x	x				
3-24-2013	1530	Soil	Vadose Zone Cell #3D	1-MeOH Kit 4-4 oz glass	3 - MeOH 4 - Non	-014	x	x			x	x	x	x	x	x	x	x				
3-24-2013	1243	Soil	Vadose Zone Cell #4	1-MeOH Kit 3-4 oz glass	1 - MeOH 3 - Non	-015	x	x	x		x	x	x									
3-24-2013	1637	Soil	Treatment Zone	1-MeOH Kit 3-4 oz glass	1 - MeOH 3 - Non	-016	x	x	x													
		~~H_2O~~	~~Trip Blank~~	~~2-40mL glass~~	~~2 - HCl~~	-017	x															

Date	Time	Relinquished by:	Received by:	Date	Time
4/1/13	1947		Christine Walker	4/1/13	1947
4/2/13	1630	Christine Walker		04/02/13	0950

Remarks: Metals (6010/6020/7471) As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Mg, Na, K, and Ca Cations/Anions: F, NO3 as N, SO4, Ca PAHs: Benzo-a-pyrene, phenols

Trip Blank did not come with samples. mg 04/02

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 15, 2013

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

RE: BMG Llaves Landfarm/Evaporation Pond OrderNo.: 1307182

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 11 sample(s) on 7/3/2013 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1307182**
Date Reported: **7/15/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 1:07:00 PM
Lab ID: 1307182-001 **Matrix:** AQUEOUS **Received Date:** 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/3/2013 3:56:50 PM	8222
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/3/2013 3:56:50 PM	8222
Surr: DNOP	90.0	75.4-146		%REC	1	7/3/2013 3:56:50 PM	8222
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/3/2013 3:05:59 PM	R11733
Surr: BFB	94.4	51.5-151		%REC	2	7/3/2013 3:05:59 PM	R11733
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	2.0		µg/L	2	7/3/2013 3:05:59 PM	R11733
Toluene	ND	2.0		µg/L	2	7/3/2013 3:05:59 PM	R11733
Ethylbenzene	ND	2.0		µg/L	2	7/3/2013 3:05:59 PM	R11733
Xylenes, Total	ND	4.0		µg/L	2	7/3/2013 3:05:59 PM	R11733
Surr: 4-Bromofluorobenzene	97.3	69.4-129		%REC	2	7/3/2013 3:05:59 PM	R11733
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	9.2	5.0		mg/L	10	7/5/2013 2:23:31 PM	R11778
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst:	**KS**
Total Dissolved Solids	640	100	*	mg/L	1	7/8/2013 2:28:00 PM	8232

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

Qualifiers:

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

Analytical Report
Lab Order **1307182**
Date Reported: **7/15/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 12:16:00 PM
Lab ID: 1307182-002 **Matrix:** AQUEOUS **Received Date:** 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/3/2013 4:27:20 PM	8222
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/3/2013 4:27:20 PM	8222
Surr: DNOP	94.0	75.4-146		%REC	1	7/3/2013 4:27:20 PM	8222
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/3/2013 4:32:00 PM	R11733
Surr: BFB	92.6	51.5-151		%REC	1	7/3/2013 4:32:00 PM	R11733
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	7/3/2013 4:32:00 PM	R11733
Toluene	ND	1.0		µg/L	1	7/3/2013 4:32:00 PM	R11733
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 4:32:00 PM	R11733
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 4:32:00 PM	R11733
Surr: 4-Bromofluorobenzene	96.0	69.4-129		%REC	1	7/3/2013 4:32:00 PM	R11733
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	26	5.0		mg/L	10	7/5/2013 2:48:21 PM	R11778
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	580	200	*	mg/L	1	7/8/2013 2:28:00 PM	8232

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 11:49:00 AM
Lab ID: 1307182-003 **Matrix:** AQUEOUS **Received Date:** 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/3/2013 4:57:38 PM	8222
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/3/2013 4:57:38 PM	8222
Surr: DNOP	100	75.4-146		%REC	1	7/3/2013 4:57:38 PM	8222
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	7/3/2013 5:57:53 PM	R11733
Surr: BFB	92.9	51.5-151		%REC	2	7/3/2013 5:57:53 PM	R11733
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	2.0		µg/L	2	7/3/2013 5:57:53 PM	R11733
Toluene	ND	2.0		µg/L	2	7/3/2013 5:57:53 PM	R11733
Ethylbenzene	ND	2.0		µg/L	2	7/3/2013 5:57:53 PM	R11733
Xylenes, Total	ND	4.0		µg/L	2	7/3/2013 5:57:53 PM	R11733
Surr: 4-Bromofluorobenzene	96.0	69.4-129		%REC	2	7/3/2013 5:57:53 PM	R11733
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	20	5.0		mg/L	10	7/5/2013 3:13:11 PM	R11778
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	630	200	*	mg/L	1	7/8/2013 2:28:00 PM	8232

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 12:43:00 PM
Lab ID: 1307182-004 **Matrix:** AQUEOUS **Received Date:** 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	7/3/2013 5:28:00 PM	8222
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/3/2013 5:28:00 PM	8222
Surr: DNOP	103	75.4-146		%REC	1	7/3/2013 5:28:00 PM	8222
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/3/2013 6:26:27 PM	R11733
Surr: BFB	92.9	51.5-151		%REC	1	7/3/2013 6:26:27 PM	R11733
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	7/3/2013 6:26:27 PM	R11733
Toluene	ND	1.0		µg/L	1	7/3/2013 6:26:27 PM	R11733
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 6:26:27 PM	R11733
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 6:26:27 PM	R11733
Surr: 4-Bromofluorobenzene	95.9	69.4-129		%REC	1	7/3/2013 6:26:27 PM	R11733
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	10	5.0		mg/L	10	7/5/2013 3:38:00 PM	R11778
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	608	40.0	*	mg/L	1	7/8/2013 2:28:00 PM	8232

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Interstitial Well
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 2:00:00 PM
Lab ID: 1307182-005
Matrix: AQUEOUS
Received Date: 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**	
Diesel Range Organics (DRO)	4.6	1.0		mg/L	1	7/3/2013 5:58:21 PM	8222
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	7/3/2013 5:58:21 PM	8222
Surr: DNOP	94.9	75.4-146		%REC	1	7/3/2013 5:58:21 PM	8222
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	7/3/2013 6:55:03 PM	R11733
Surr: BFB	94.2	51.5-151		%REC	10	7/3/2013 6:55:03 PM	R11733
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	10		µg/L	10	7/3/2013 6:55:03 PM	R11733
Toluene	ND	10		µg/L	10	7/3/2013 6:55:03 PM	R11733
Ethylbenzene	ND	10		µg/L	10	7/3/2013 6:55:03 PM	R11733
Xylenes, Total	ND	20		µg/L	10	7/3/2013 6:55:03 PM	R11733
Surr: 4-Bromofluorobenzene	98.4	69.4-129		%REC	10	7/3/2013 6:55:03 PM	R11733
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	80000	5000	*	mg/L	1E	7/10/2013 12:07:33 AM	R11825
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	145000	1000	*	mg/L	1	7/8/2013 2:28:00 PM	8232

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 10:39:00 AM
Lab ID: 1307182-006
Matrix: MEOH (SOIL)
Received Date: 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2013 2:25:36 PM	8225
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2013 2:25:36 PM	8225
Surr: DNOP	63.0	63-147		%REC	1	7/8/2013 2:25:36 PM	8225
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2013 2:45:21 AM	R11754
Surr: BFB	91.8	80-120		%REC	1	7/6/2013 2:45:21 AM	R11754
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.050		mg/Kg	1	7/6/2013 2:45:21 AM	R11754
Toluene	ND	0.050		mg/Kg	1	7/6/2013 2:45:21 AM	R11754
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2013 2:45:21 AM	R11754
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2013 2:45:21 AM	R11754
Surr: 4-Bromofluorobenzene	95.4	80-120		%REC	1	7/6/2013 2:45:21 AM	R11754
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	7.5		mg/Kg	5	7/8/2013 11:54:18 AM	8252

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 9:55:00 AM
Lab ID: 1307182-007
Matrix: MEOH (SOIL)
Received Date: 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2013 2:56:16 PM	8225
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2013 2:56:16 PM	8225
Surr: DNOP	63.6	63-147		%REC	1	7/8/2013 2:56:16 PM	8225
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2013 3:15:40 AM	R11754
Surr: BFB	91.3	80-120		%REC	1	7/6/2013 3:15:40 AM	R11754
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.050		mg/Kg	1	7/6/2013 3:15:40 AM	R11754
Toluene	ND	0.050		mg/Kg	1	7/6/2013 3:15:40 AM	R11754
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2013 3:15:40 AM	R11754
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2013 3:15:40 AM	R11754
Surr: 4-Bromofluorobenzene	93.7	80-120		%REC	1	7/6/2013 3:15:40 AM	R11754
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	7.5		mg/Kg	5	7/8/2013 12:19:08 PM	8252

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 8:54:00 AM
Lab ID: 1307182-008
Matrix: MEOH (SOIL)
Received Date: 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	16	10		mg/Kg	1	7/8/2013 3:26:53 PM	8225
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2013 3:26:53 PM	8225
Surr: DNOP	69.8	63-147		%REC	1	7/8/2013 3:26:53 PM	8225
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2013 3:45:55 AM	R11754
Surr: BFB	92.2	80-120		%REC	1	7/6/2013 3:45:55 AM	R11754
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.050		mg/Kg	1	7/6/2013 3:45:55 AM	R11754
Toluene	ND	0.050		mg/Kg	1	7/6/2013 3:45:55 AM	R11754
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2013 3:45:55 AM	R11754
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2013 3:45:55 AM	R11754
Surr: 4-Bromofluorobenzene	94.9	80-120		%REC	1	7/6/2013 3:45:55 AM	R11754
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	8.6	7.5		mg/Kg	5	7/8/2013 1:33:36 PM	8252

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 8:12:00 AM
Lab ID: 1307182-009
Matrix: MEOH (SOIL)
Received Date: 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2013 9:52:17 AM	8225
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2013 9:52:17 AM	8225
Surr: DNOP	67.9	63-147		%REC	1	7/9/2013 9:52:17 AM	8225
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2013 2:43:45 PM	R11797
Surr: BFB	91.5	80-120		%REC	1	7/8/2013 2:43:45 PM	R11797
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.050		mg/Kg	1	7/8/2013 2:43:45 PM	R11797
Toluene	ND	0.050		mg/Kg	1	7/8/2013 2:43:45 PM	R11797
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2013 2:43:45 PM	R11797
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2013 2:43:45 PM	R11797
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	7/8/2013 2:43:45 PM	R11797
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	7.5		mg/Kg	5	7/8/2013 1:58:25 PM	8252

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Treatment Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 7/1/2013 10:56:00 AM
Lab ID: 1307182-010
Matrix: MEOH (SOIL)
Received Date: 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	880	100		mg/Kg	10	7/8/2013 4:28:41 PM	8225
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	7/8/2013 4:28:41 PM	8225
Surr: DNOP	0	63-147	S	%REC	10	7/8/2013 4:28:41 PM	8225
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/8/2013 3:13:57 PM	R11797
Surr: BFB	90.4	80-120		%REC	1	7/8/2013 3:13:57 PM	R11797
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.050		mg/Kg	1	7/8/2013 3:13:57 PM	R11797
Toluene	ND	0.050		mg/Kg	1	7/8/2013 3:13:57 PM	R11797
Ethylbenzene	ND	0.050		mg/Kg	1	7/8/2013 3:13:57 PM	R11797
Xylenes, Total	ND	0.10		mg/Kg	1	7/8/2013 3:13:57 PM	R11797
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	7/8/2013 3:13:57 PM	R11797
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	8.8	7.5		mg/Kg	5	7/8/2013 2:23:14 PM	8252

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Trip Blank
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date:
Lab ID: 1307182-011
Matrix: TRIP BLANK
Received Date: 7/3/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	7/3/2013 9:18:05 PM	R11733
Toluene	ND	1.0		µg/L	1	7/3/2013 9:18:05 PM	R11733
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 9:18:05 PM	R11733
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 9:18:05 PM	R11733
Surr: 4-Bromofluorobenzene	95.5	69.4-129		%REC	1	7/3/2013 9:18:05 PM	R11733

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-8252**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **8252**	RunNo: **11810**
Prep Date: **7/8/2013**	Analysis Date: **7/8/2013**	SeqNo: **335649** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-8252**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **8252**	RunNo: **11810**
Prep Date: **7/8/2013**	Analysis Date: **7/8/2013**	SeqNo: **335650** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	90	110			

Sample ID **1307182-007BMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #2 Vadose Zon**	Batch ID: **8252**	RunNo: **11810**
Prep Date: **7/8/2013**	Analysis Date: **7/8/2013**	SeqNo: **335668** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	7.5	15.00	2.284	78.6	58.8	109			

Sample ID **1307182-007BMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #2 Vadose Zon**	Batch ID: **8252**	RunNo: **11810**
Prep Date: **7/8/2013**	Analysis Date: **7/8/2013**	SeqNo: **335669** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	7.5	15.00	2.284	77.8	58.8	109	0.814	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R11778**	RunNo: **11778**							
Prep Date:	Analysis Date: **7/5/2013**	SeqNo: **334649**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R11778**	RunNo: **11778**							
Prep Date:	Analysis Date: **7/5/2013**	SeqNo: **334650**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.3	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R11825**	RunNo: **11825**							
Prep Date:	Analysis Date: **7/9/2013**	SeqNo: **336203**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R11825**	RunNo: **11825**							
Prep Date:	Analysis Date: **7/9/2013**	SeqNo: **336204**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.3	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R11825**	RunNo: **11825**							
Prep Date:	Analysis Date: **7/9/2013**	SeqNo: **336259**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R11825**	RunNo: **11825**							
Prep Date:	Analysis Date: **7/9/2013**	SeqNo: **336260**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-8225**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **8225**			RunNo: **11753**					
Prep Date: **7/3/2013**	Analysis Date: **7/5/2013**			SeqNo: **333912**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.4	63	147			

Sample ID **LCS-8225**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **8225**			RunNo: **11753**					
Prep Date: **7/3/2013**	Analysis Date: **7/5/2013**			SeqNo: **333913**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	77.1	128			
Surr: DNOP	4.7		5.000		93.3	63	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-8222**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **PBW**	Batch ID: **8222**	RunNo: **11732**
Prep Date: **7/3/2013**	Analysis Date: **7/3/2013**	SeqNo: **333310** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.95		1.000		95.4	75.4	146			

Sample ID **LCS-8222**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSW**	Batch ID: **8222**	RunNo: **11732**
Prep Date: **7/3/2013**	Analysis Date: **7/3/2013**	SeqNo: **333311** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.9	1.0	5.000	0	117	89.1	151			
Surr: DNOP	0.50		0.5000		101	75.4	146			

Sample ID **LCSD-8222**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSS02**	Batch ID: **8222**	RunNo: **11732**
Prep Date: **7/3/2013**	Analysis Date: **7/3/2013**	SeqNo: **333312** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	122	89.1	151	4.16	20	
Surr: DNOP	0.57		0.5000		115	75.4	146	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-8230**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R11754**	RunNo: **11754**
Prep Date: **7/3/2013**	Analysis Date: **7/5/2013**	SeqNo: **334485** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.4	80	120			

Sample ID **LCS-8230**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R11754**	RunNo: **11754**
Prep Date: **7/3/2013**	Analysis Date: **7/5/2013**	SeqNo: **334486** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.7	62.6	136			
Surr: BFB	980		1000		97.6	80	120			

Sample ID **MB-8237**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R11797**	RunNo: **11797**
Prep Date: **7/5/2013**	Analysis Date: **7/8/2013**	SeqNo: **335178** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.7	80	120			

Sample ID **LCS-8237**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R11797**	RunNo: **11797**
Prep Date: **7/5/2013**	Analysis Date: **7/8/2013**	SeqNo: **335180** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.3	62.6	136			
Surr: BFB	990		1000		99.4	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **R11733**	RunNo: **11733**							
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333590**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		95.0	51.5	151			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **R11733**	RunNo: **11733**							
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333591**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.45	0.050	0.5000	0	89.2	73.2	124			
Surr: BFB	20		20.00		101	51.5	151			

Sample ID **1307182-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-1**	Batch ID: **R11733**	RunNo: **11733**							
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333597**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.73	0.10	1.000	0	72.8	65.2	137			
Surr: BFB	40		40.00		99.1	51.5	151			

Sample ID **1307182-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-1**	Batch ID: **R11733**	RunNo: **11733**							
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333598**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.92	0.10	1.000	0	91.7	65.2	137	23.0	20	R
Surr: BFB	40		40.00		100	51.5	151	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-8230**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R11754**	RunNo: **11754**
Prep Date: **7/3/2013**	Analysis Date: **7/5/2013**	SeqNo: **334513** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID **LCS-8230**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R11754**	RunNo: **11754**
Prep Date: **7/3/2013**	Analysis Date: **7/5/2013**	SeqNo: **334514** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	92.0	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID **MB-8237**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R11797**	RunNo: **11797**
Prep Date: **7/5/2013**	Analysis Date: **7/8/2013**	SeqNo: **335206** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID **LCS-8237**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R11797**	RunNo: **11797**
Prep Date: **7/5/2013**	Analysis Date: **7/8/2013**	SeqNo: **335207** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	91.8	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R11733**	RunNo: **11733**
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333612** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		98.7	69.4	129			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R11733**	RunNo: **11733**
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333613** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	80	120			
Toluene	20	1.0	20.00	0	97.8	80	120			
Ethylbenzene	20	1.0	20.00	0	97.8	80	120			
Xylenes, Total	59	2.0	60.00	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		103	69.4	129			

Sample ID **1307182-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R11733**	RunNo: **11733**
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333634** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.1	80	120			
Toluene	20	1.0	20.00	0.1786	97.2	80	120			
Ethylbenzene	20	1.0	20.00	0	97.8	80	120			
Xylenes, Total	59	2.0	60.00	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		102	69.4	129			

Sample ID **1307182-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R11733**	RunNo: **11733**
Prep Date:	Analysis Date: **7/3/2013**	SeqNo: **333635** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.6	80	120	6.82	20	
Toluene	18	1.0	20.00	0.1786	90.6	80	120	7.01	20	
Ethylbenzene	18	1.0	20.00	0	90.9	80	120	7.25	20	
Xylenes, Total	55	2.0	60.00	0	91.2	80	120	7.85	20	
Surr: 4-Bromofluorobenzene	21		20.00		103	69.4	129	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307182**

15-Jul-13

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-8232**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **8232**	RunNo: **11786**
Prep Date: **7/4/2013**	Analysis Date: **7/8/2013**	SeqNo: **334927** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-8232**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **8232**	RunNo: **11786**
Prep Date: **7/4/2013**	Analysis Date: **7/8/2013**	SeqNo: **334928** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

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

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1307182 RcptNo: 1

Received by/date: MG 07/03/13

Logged By: Michelle Garcia 7/3/2013 10:00:00 AM Michelle Garcia

Completed By: Michelle Garcia 7/3/2013 11:01:59 AM Michelle Garcia

Reviewed By: 07/03/2013

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services	X Standard ☐ Rush
	Project Name: BMG Llaves Landfarm/ Evaporation Pond
Mailing Address: 624 E Comanche	Project #: AES 040605
Farmington NM 87401	
Phone #: 505-564-2281	Project Manager: D. Watson
email or Fax#: 505-324-2022	Sampler: Lavina Lamone
QA/QC Package:	
X Standard ☐ Level 4 (Full Validation)	
Accreditation:	
☐ NELAP ☐ Other	
☐ EDD (Type)	

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX 8021	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	TDS SM2540C	Air Bubbles (Y or N)
7-1-2013	1307	H_2O	MW-1	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-001	X	X	X	X	
7-1-2013	1216	H_2O	MW-2	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-002	X	X	X	X	
7-1-2013	1149	H_2O	MW-3	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-003	X	X	X	X	
7/1/2013	1243	H_2O	MW-4	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-004	X	X	X	X	
7/1/2013	1400	H_2O	Interstitial Well	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-005	X	X	X	X	
7/1/2013	1039	Soil	Cell #1 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-006	X	X	X		
7/1/2013	0955	Soil	Cell #2 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-007	X	X	X		
7-1-2013	0854	Soil	Cell #3 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-008	X	X	X		
7-1-2013	0812	Soil	Cell #4 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-009	X	X	X		
7/1/2013	1056	Soil	Treatment Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-010	X	X	X		
7/1/2013	1100	H_2O	Trip Blank	2-40mL glass	2 - HCl	-011	X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/2/13	1712		Christine Walker	7/2/13	1712
Date:	Time:	Relinquished by:	Received by:	Date	Time
7/2/13	1744	Christine Walker		07/03/13	10:00

Remarks:

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

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

September 14, 2012

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

RE: 2nd Quarter 2012 Monitoring Report
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Dear Mr. Jones:

As part of 2nd Quarter 2012 landfarm sampling, Animas Environmental Services, LLC (AES) completed: 1) evaporation pond quarterly groundwater monitoring and sampling, 2) treatment zone sampling, and 3) vadose zone sampling on June 26, 2012, 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

1.1 Evaporation Pond Sampling 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.

1.2 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed the 2nd Quarter 2012 groundwater monitoring and sampling of the evaporation pond monitor wells on June 26, 2012. 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) – USEPA Method 8260B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – USEPA Method 8015B;
- Chlorides – USEPA Method 300.0; and
- Total Dissolved Solids (TDS) – Standard Method 2540C.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 13.01°C (MW-2) to 18.18°C (IW). Conductivity readings were between 0.887 mS/cm (MW-3) and 185.2 mS/cm (IW). Field pH readings ranged from 5.74 to 6.44. Groundwater ORP ranged from -82.7 mV (IW) to 280.4 mV (MW-1). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected for the 2nd Quarter 2012 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX, GRO, MRO, 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 10 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. The results above laboratory detection limits have been summarized as follows:

- TPH-DRO: IW (10 mg/L);
- Chlorides: IW (130,000 mg/L), MW-1 (11 mg/L), MW-2 (30 mg/L), MW-3 (23 mg/L), and MW-4 (21 mg/L);
- TDS: IW (177,000 mg/L), MW-1 (790 mg/L), MW-2 (610 mg/L), MW-3 (555 mg/L), and MW-4 (1,010 mg/L).

The analytical results for the groundwater samples collected for the 2nd Quarter 2012 sampling event are presented in Table 2 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 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 at a depth of 0.5 feet below ground surface (bgs). 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.

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.

2.1 Laboratory Analytical Methods

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

- BTEX per USEPA Method 8260B;
- 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.

2.2 Treatment Zone Analytical Results

Laboratory analytical results are summarized as follows:

- BTEX and TPH-GRO concentrations were reported below laboratory detection limits;
- TPH concentrations were reported at 140 mg/kg DRO and 400 mg/kg MRO;
- The chloride concentration was reported below the laboratory detection limit.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented in Table 3 and on Figure 2. Laboratory reports are presented in Appendix A.

3.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility, 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 Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per USEPA Method 8260B;
- 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 Vadose Zone Analytical Results

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

- Benzene and BTEX - below laboratory detection limits in each cell;
- TPH - below the laboratory detection limits in each cell;
- Chlorides – Cell #1 (34 mg/kg); below the laboratory detection limits in Cell #2, through Cell #4.

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 Table 4, and laboratory reports are presented in Appendix A.

4.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling along with landfarm sampling at the BMG Surface Waste Management Facility for the 2nd Quarter 2012 in June 2012. Based on the results of the June 2012 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, TPH-GRO, and TPH-MRO. The interstitial well (IW) had reported concentrations above laboratory detection limits for TPH-DRO (10 mg/L), chloride (130,000 mg/L), and TDS (177,000 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 540 mg/kg.

Soil analytical results from vadose zone sampling include quarterly sampling for BTEX, TPH, and chlorides. BTEX and TPH concentrations were below laboratory detection limits in all cells sampled. Chloride concentrations above the laboratory detection limit were reported in Cell #1 (34 mg/kg). All cells remained below the NMOCD threshold of 500 mg/kg for chloride.

AES has scheduled the next quarterly sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils to occur in September 2012.

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

Sincerely,

Corwin Lameman
Geologist Intern

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Treatment Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 4. Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results

Figures

Figure 1. Location of BMG Evaporation Pond and Monitor Well Locations and Concentrations, 2nd Quarter 2012
Figure 2. Treatment Zone Monitoring Locations and Results, 2nd Quarter 2012
Figure 3. Vadose Zone Monitoring Locations and Results, 2nd Quarter 2012

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
1000 Rio Brazos Road
Aztec, NM 87410

R:\Animas 2000\2012 Projects\BMG\Landfarm\Reports\gcbmg 091412.docx

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
IW	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
IW	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
IW	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
IW	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
IW	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
IW	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
IW	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
IW	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
IW	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
IW	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
IW	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
IW	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
IW	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
IW	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
IW	3-Jan-12	TBS	9.70	8.33	187.0	0.31	5.89	308.1
IW	22-Mar-12	TBS	9.60	12.74	190.7	0.29	6.19	-42.1
IW	26-Jun-12	TBS	9.61	18.18	185.2	0.81	6.44	-82.7
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	12.18	2.236	4.85	6.57	173.2
MW-1	9-Oct-08	TBS	38.30	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-1	3-Jan-12	TBS	38.95	11.48	0.918	4.25	7.11	383.8
MW-1	22-Mar-12	TBS	39.95	15.05	0.950	3.62	7.25	60.9

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-1	26-Jun-12	TBS	40.09	13.03	0.940	8.04	5.78	280.4
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
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-2	3-Jan-12	TBS	40.91	10.67	0.997	3.21	8.54	262.2
MW-2	22-Mar-12	TBS	40.99	13.35	0.929	3.33	7.32	52.5
MW-2	26-Jun-12	TBS	41.13	13.01	0.921	5.72	6.19	200.9
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-3	3-Jan-12	TBS	40.13	11.53	0.874	3.52	7.50	303.1
MW-3	22-Mar-12	TBS	40.23	13.06	0.902	4.38	7.22	60.5
MW-3	26-Jun-12	TBS	40.38	14.81	0.887	7.67	6.42	174.6

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-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
MW-4	3-Jan-12	TBS	40.71	11.95	0.959	5.55	7.54	364.5
MW-4	22-Mar-12	TBS	40.74	14.18	0.985	5.55	7.29	54.8
MW-4	26-Jun-12	TBS	40.89	14.98	0.965	9.16	5.74	276.9

NM - Not Measured

TBS - To Be Surveyed

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

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
IW	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
IW	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
IW	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
IW	30-Dec-08	NOT SAMPLED - LOW YIELD								
IW	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
IW	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
IW	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
IW	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
IW	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
IW	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
IW	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
IW	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
IW	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
IW	03-Jan-12	<2.0	<2.0	<2.0	<4.0	0.19	5.4	<5.0	140,000	172,000
IW	22-Mar-12	<5.0	<5.0	<5.0	<10	0.37	5.4	<5.0	150,000	170,000
IW	26-Jun-12	<5.0	<5.0	<5.0	<10	<0.25	10	<5.0	130,000	177,000
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

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	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
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-1	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	820
MW-1	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	800
MW-1	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	11	790
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

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-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-2	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	760
MW-2	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	690
MW-2	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	610
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
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-3	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	23	720
MW-3	22-Mar-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	670

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	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	555
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
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830
MW-4	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	19	1,100
MW-4	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	660
MW-4	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	1,010

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
Treatment Zone Soil BTEX, TPH, and Chlorides 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 Analytical Method			8021B/8260B				8015			300
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100/2,500			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
Treatment Zone	#1	1)N 36° 23.358' W 106° 52.011' 2)N 36° 23.395' W 106° 51.925' 3)N 36° 23.362' W 106° 50.840' 4)N 36° 23.327' W 106° 51.932	3-Jan-12	1.5	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21.0
Treatment Zone	#1	1)N 36.389600° W 106.867612° 2)N 36.389565° W 106.865722° 3)N 36.389158° W 106.865205° 4)N 36.389087° W 106.864053°	22-Mar-12	0.5	<0.25	<0.25	<0.25	<0.50	<25	**310**	**340**	<15

TABLE 3
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B				8015			300
Treatment Zone	#1	1)N 36.38936° W 106.86703° 2)N 36.39032° W 106.86684° 3)N 36.38916° W 106.86445° 4)N 36.38981° W 106.86572°	26-Jun-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**140**	**400**	<15

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100			500
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	6
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	48
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	10
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	22
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	18
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	<15
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	<30
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	54
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	45
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	15
Cell #1 Vadose Zone	VZ-1	N 36° 23.378' W 106° 52.055'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	3.4
Cell #1 Vadose Zone	VZ-1	N 36.388735° W 106.865537°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	9.9

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

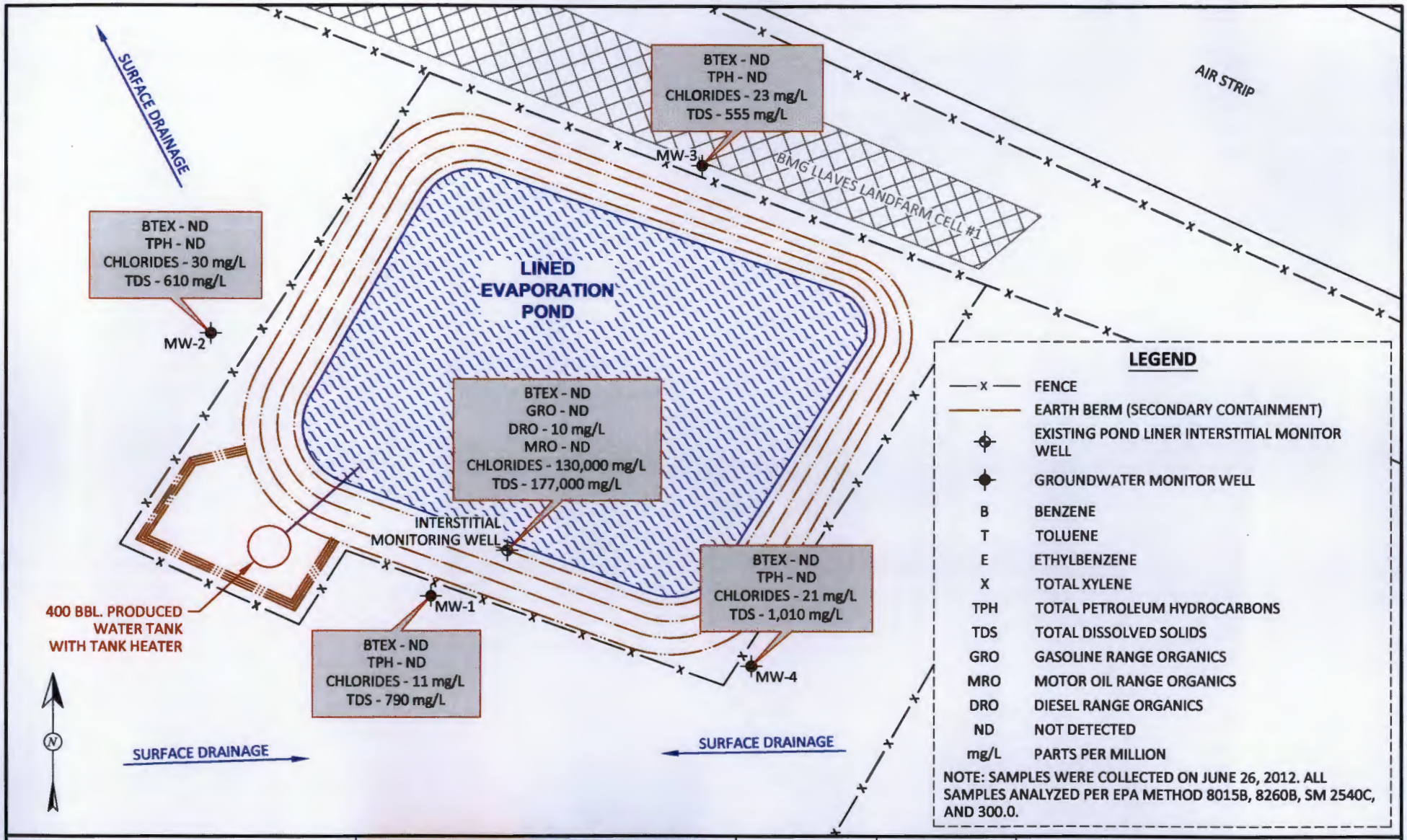
Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
Cell #1 Vadose Zone	VZ-1	N 36.38923° W 106.86654°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	34
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	8.3
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	16
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	8.9
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	16
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	6.0
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	<15
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	<30
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	<15
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	<7.5
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	<7.5
Cell #2 Vadose Zone	VZ-2	N 36° 23.406' W 106° 52.019'	3-Jan-12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<1.5

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
Cell #2 Vadose Zone	VZ-2	N 36.390158° W 106.866210°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.38990° W 106.86647°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
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	5.1
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	22
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	28
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	17
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	20
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	<15
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	43
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	<15
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	7.9
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	6.3

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			300.0
Cell #3 Vadose Zone	VZ-3	N 36° 23.334' W 106° 51.864'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	2.2
Cell #3 Vadose Zone	VZ-3	N 36.389367° W 106.864533°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #3 Vadose Zone	VZ-3	N 36.38935° W 106.86406°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
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	<7.5
Cell #4 Vadose Zone	VZ-4	N 36° 23.341' W 106° 51.736'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<1.5
Cell #4 Vadose Zone	VZ-4	N 36.389355° W 106.863260°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86303°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15



SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: April 11, 2011
REVISIONS BY: N. Willis	DATE REVISED: July 17, 2012
CHECKED BY: L. Cupps	DATE CHECKED: July 31, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 14, 2012

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 2nd QUARTER 2012

NW ¼ NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 2nd QUARTER 2012

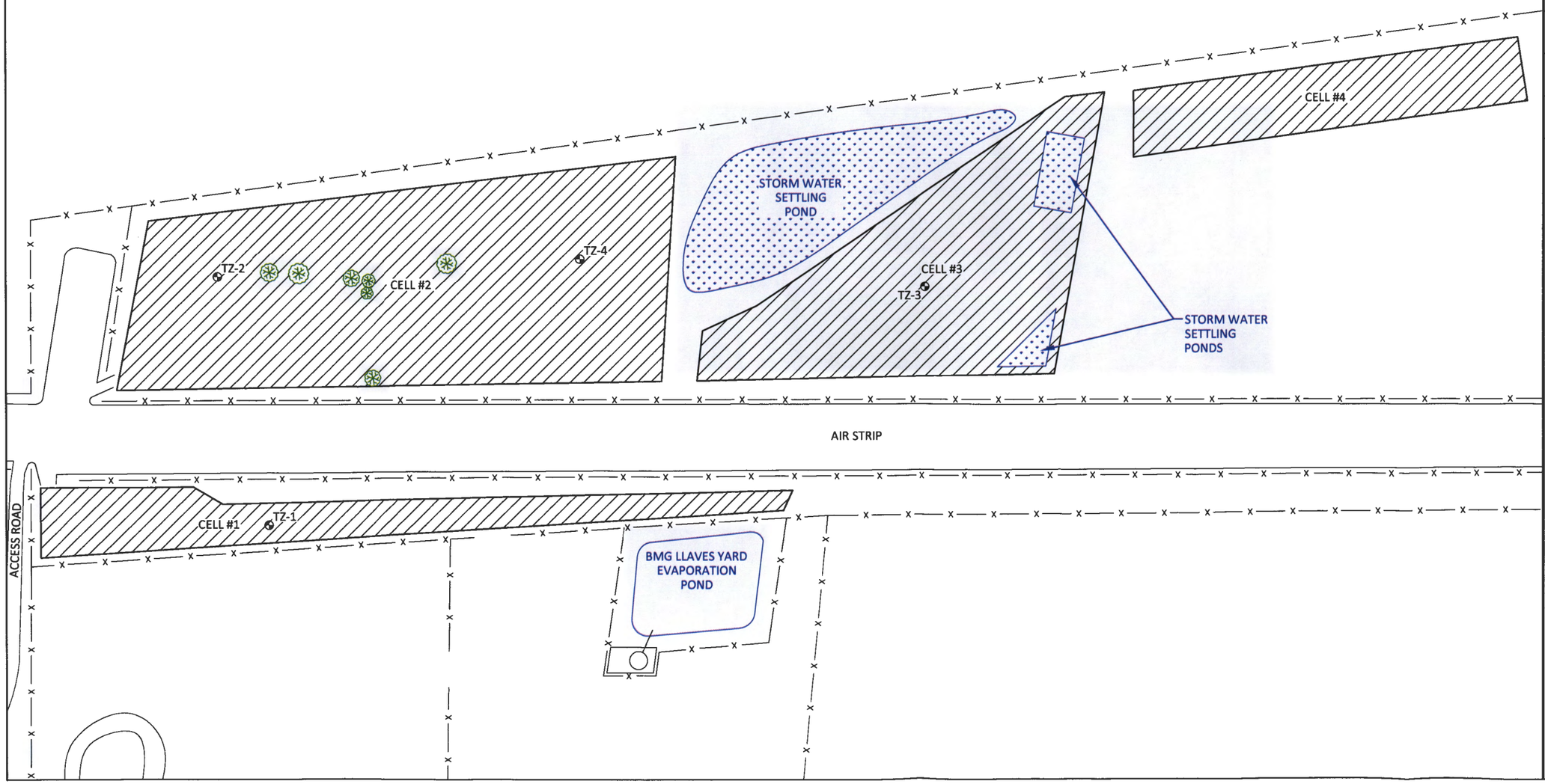
NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

SUMMARY OF 2ND QUARTER 2012 TREATMENT ZONE MONITORING JUNE 2012

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH			CHLORIDE (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
6/26/12	<0.050	<0.050	<0.050	<0.10	<5.0	140	400	<15

TREATMENT ZONE MONITORING LOCATIONS JUNE 2012

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)
TZ-1	N 36.38936 W 106.86703	0.5
TZ-2	N 36.39032 W 106.86684	0.5
TZ-3	N 36.38916 W 106.86445	0.5
TZ-4	N 36.38981 W 106.86572	0.5



Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	April 11, 2011
REVISIONS BY:	**DATE REVISED:**
N. Willis	July 17, 2012
CHECKED BY:	**DATE CHECKED:**
L. Cupps	July 31, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	September 14, 2012

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

SUMMARY OF 2ND QUARTER 2012
TREATMENT ZONE MONITORING
JUNE 2012

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			CHLORIDE (mg/kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	VZ-1	N 36.38923 W 106.86654	6/26/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	34
CELL #2	VZ-2	N 36.38990 W 106.86647	6/26/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
CELL #3	VZ-3	N 36.38935 W 106.86406	6/26/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
CELL #4	VZ-4	N 36.38917 W 106.86303	6/26/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15

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

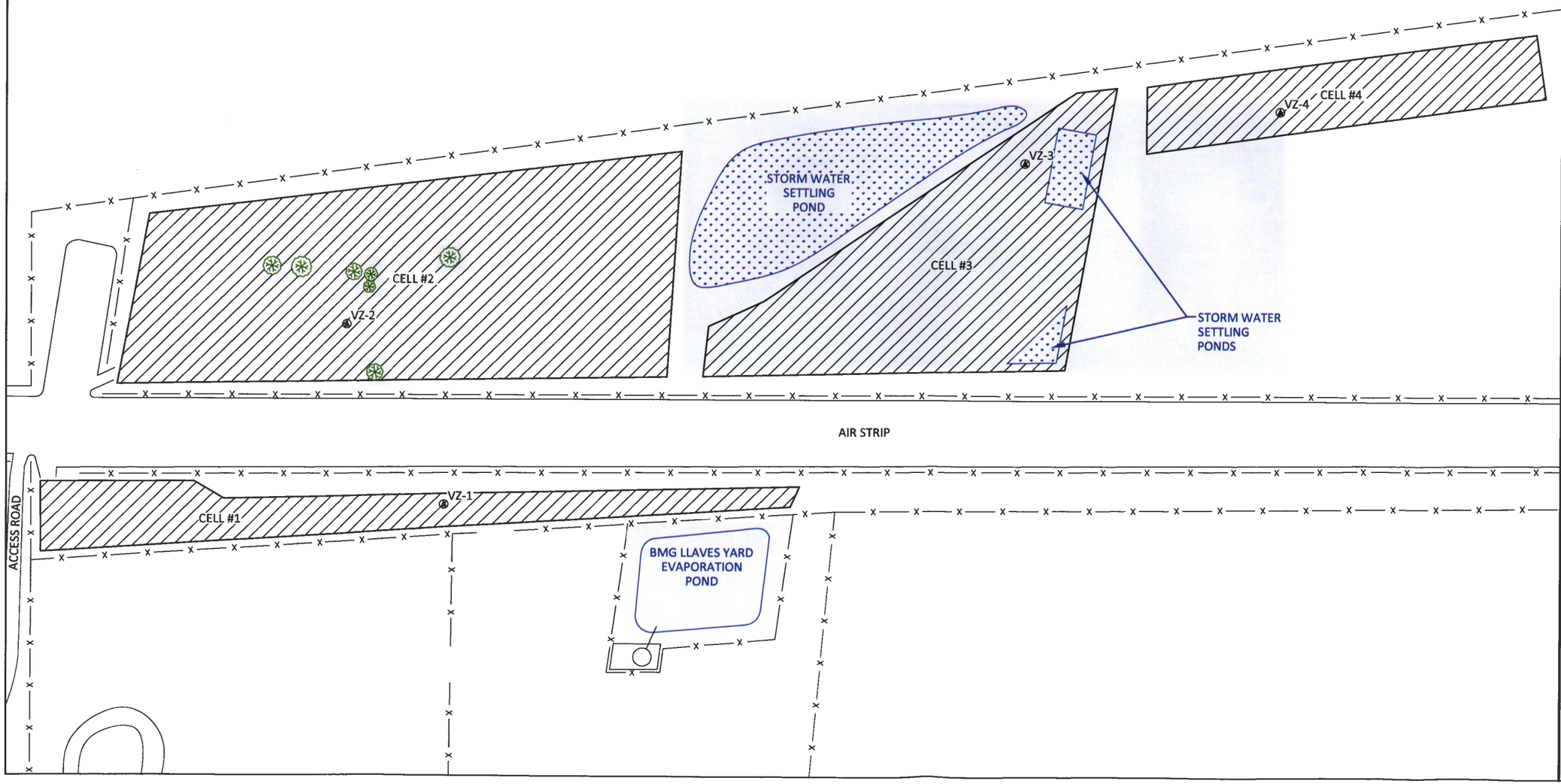


FIGURE 3

BENSON-MONTIN-GREER
VADOSE ZONE MONITORING
LOCATIONS AND RESULTS
2nd QUARTER 2012
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:**
N. Willis	July 17, 2012
CHECKED BY:	**DATE CHECKED:**
L. Cupps	July 31, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	September 14, 2012

N

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: 6/26/12
Time: 1136
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1349	—	40.09	—	
MW-2	1244	—	41.13	—	
MW-3	1146	—	40.38	—	
MW-4	1319	—	40.89	—	
Interstitial	1421	—	9.61	—	

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): 40.09 **Time:** 1349 *(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: 6/26/12
Arrival Time: 1346
Air Temp: 97°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
1354	14.68	0.933	9.01	6.13	231.6	0.25 gal.	
1357	13.41	0.931	8.41	5.91	258.1	0.5	Very low
1359	13.03	0.940	8.04	5.78	280.4	0.5	Yield
#						.	↓
						.	
						.	
1404	—	—	—	—	—	—	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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:

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
Project No.: AES 040605
Location: Llaves, Rio Arriba County, New Mexico
Date: 6/26/12
Project: Groundwater Monitoring and Sampling
Arrival Time: 1242
Sampling Technician: N. Willis
Air Temp: 97°F
Purge / No Purge: Purge
T.O.C. Elev. (ft): TBS
Well Diameter (in): 2
Total Well Depth (ft): 45.54
Initial D.T.W. (ft): ____ **Time:** ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 41.13 **Time:** 1244 *(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
1250	14.31	0.938	5.88	6.34	170.0	0.25 gal.	
1252	13.01	0.921	5.72	6.19	200.9	0.5	Very low Yield
							↓
1257							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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: ____

Collected Samples Stored on Ice in Cooler: Yes

Chain of Custody Record Complete: Yes

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

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

Notes/Comments:

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
Project No.: AES 040605
Location: Llaves, Rio Arriba County, New Mexico
Date: 6/26/12
Project: Groundwater Monitoring and Sampling
Arrival Time: 1136
Sampling Technician: N. Willis
Air Temp: 97°F
Purge / No Purge: Purge
T.O.C. Elev. (ft): TBS
Well Diameter (in): 2
Total Well Depth (ft): 45.59
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.38 **Time:** 1146 *(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
1156	16.23	0.891	8.44	6.62	137.1	0.25 gal.	
1200	13.46	0.884	8.51	6.52	151.9	0.5	
1203	14.81	0.887	7.67	6.42	174.6	0.5	Very Low Yield ↓
						.	
						.	
						.	
1208	—	—	—	—	—	—	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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:

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): 40.89 **Time:** 1319 *(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: 6/26/12
Arrival Time: 1317
Air Temp: 97°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
1325	15.29	0.974	9.88	6.08	228.6	0.25 gal.	
1328	14.98	0.965	9.16	5.74	276.9	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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:

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: No Purge
Well Diameter (in): 4 12
Initial D.T.W. (ft): ____ Time: ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.61 Time: 1421 *(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: 6/26/12
Arrival Time: 1417
Air Temp: 97°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
1423	18.18	185.2	0.81	6.44	-82.7	0.25 gal.	
1428							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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:

revised: 08/10/09

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

July 11, 2012

Debbie Watson

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

RE: BMG Llaves Landfarm/Evaporation Pond OrderNo.: 1206C17

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 11 sample(s) on 6/28/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 2:04:00 PM
Lab ID: 1206C17-001 **Matrix:** AQUEOUS **Received Date:** 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/29/2012 10:39:58 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/29/2012 10:39:58 AM
Surr: DNOP	131	61.3-164		%REC	1	6/29/2012 10:39:58 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	11	2.5		mg/L	5	6/28/2012 11:59:34 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	6/30/2012 1:01:59 AM
Toluene	ND	1.0		µg/L	1	6/30/2012 1:01:59 AM
Ethylbenzene	ND	1.0		µg/L	1	6/30/2012 1:01:59 AM
Xylenes, Total	ND	2.0		µg/L	1	6/30/2012 1:01:59 AM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	6/30/2012 1:01:59 AM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/30/2012 1:01:59 AM
Surr: BFB	115	70-130		%REC	1	6/30/2012 1:01:59 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	790	200		mg/L	1	7/3/2012 9:29:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 12:57:00 PM
Lab ID: 1206C17-002
Matrix: AQUEOUS
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/29/2012 11:01:55 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/29/2012 11:01:55 AM
Surr: DNOP	123	61.3-164		%REC	1	6/29/2012 11:01:55 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	30	10		mg/L	20	6/29/2012 1:01:38 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	7/2/2012 2:09:11 PM
Toluene	ND	1.0		µg/L	1	7/2/2012 2:09:11 PM
Ethylbenzene	ND	1.0		µg/L	1	7/2/2012 2:09:11 PM
Xylenes, Total	ND	2.0		µg/L	1	7/2/2012 2:09:11 PM
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%REC	1	7/2/2012 2:09:11 PM
Surr: 4-Bromofluorobenzene	113	70-130		%REC	1	7/2/2012 2:09:11 PM
Surr: Dibromofluoromethane	96.6	69.8-130		%REC	1	7/2/2012 2:09:11 PM
Surr: Toluene-d8	97.0	70-130		%REC	1	7/2/2012 2:09:11 PM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/2/2012 2:09:11 PM
Surr: BFB	113	70-130		%REC	1	7/2/2012 2:09:11 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	610	200		mg/L	1	7/3/2012 9:29:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 12:08:00 PM
Lab ID: 1206C17-003
Matrix: AQUEOUS
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/29/2012 11:23:46 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/29/2012 11:23:46 AM
Surr: DNOP	126	61.3-164		%REC	1	6/29/2012 11:23:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	23	10		mg/L	20	6/29/2012 1:51:17 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	7/2/2012 2:37:32 PM
Toluene	ND	1.0		µg/L	1	7/2/2012 2:37:32 PM
Ethylbenzene	ND	1.0		µg/L	1	7/2/2012 2:37:32 PM
Xylenes, Total	ND	2.0		µg/L	1	7/2/2012 2:37:32 PM
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%REC	1	7/2/2012 2:37:32 PM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	1	7/2/2012 2:37:32 PM
Surr: Dibromofluoromethane	95.1	69.8-130		%REC	1	7/2/2012 2:37:32 PM
Surr: Toluene-d8	96.1	70-130		%REC	1	7/2/2012 2:37:32 PM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/2/2012 2:37:32 PM
Surr: BFB	111	70-130		%REC	1	7/2/2012 2:37:32 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	555	100		mg/L	1	7/3/2012 9:29:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 1:33:00 PM
Lab ID: 1206C17-004
Matrix: AQUEOUS
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/29/2012 11:45:43 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/29/2012 11:45:43 AM
Surr: DNOP	125	61.3-164		%REC	1	6/29/2012 11:45:43 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	21	10		mg/L	20	6/29/2012 2:16:06 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	7/2/2012 5:00:31 PM
Toluene	ND	1.0		µg/L	1	7/2/2012 5:00:31 PM
Ethylbenzene	ND	1.0		µg/L	1	7/2/2012 5:00:31 PM
Xylenes, Total	ND	2.0		µg/L	1	7/2/2012 5:00:31 PM
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%REC	1	7/2/2012 5:00:31 PM
Surr: 4-Bromofluorobenzene	119	70-130		%REC	1	7/2/2012 5:00:31 PM
Surr: Dibromofluoromethane	106	69.8-130		%REC	1	7/2/2012 5:00:31 PM
Surr: Toluene-d8	90.6	70-130		%REC	1	7/2/2012 5:00:31 PM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/2/2012 5:00:31 PM
Surr: BFB	119	70-130		%REC	1	7/2/2012 5:00:31 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1010	200		mg/L	1	7/3/2012 9:29:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Interstitial Well
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 2:28:00 PM
Lab ID: 1206C17-005
Matrix: AQUEOUS
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	10	1.0		mg/L	1	6/29/2012 12:07:38 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/29/2012 12:07:38 PM
Surr: DNOP	152	61.3-164		%REC	1	6/29/2012 12:07:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	130000	10000		mg/L	20000	7/2/2012 6:27:25 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	5.0		µg/L	5	7/2/2012 5:29:08 PM
Toluene	ND	5.0		µg/L	5	7/2/2012 5:29:08 PM
Ethylbenzene	ND	5.0		µg/L	5	7/2/2012 5:29:08 PM
Xylenes, Total	ND	10		µg/L	5	7/2/2012 5:29:08 PM
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	5	7/2/2012 5:29:08 PM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	5	7/2/2012 5:29:08 PM
Surr: Dibromofluoromethane	103	69.8-130		%REC	5	7/2/2012 5:29:08 PM
Surr: Toluene-d8	93.4	70-130		%REC	5	7/2/2012 5:29:08 PM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.25		mg/L	5	7/2/2012 5:29:08 PM
Surr: BFB	112	70-130		%REC	5	7/2/2012 5:29:08 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	177000	1000		mg/L	1	7/3/2012 9:29:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 11:11:00 AM
Lab ID: 1206C17-006
Matrix: MEOH (SOIL)
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/1/2012 1:27:15 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/1/2012 1:27:15 AM
Surr: DNOP	111	77.6-140		%REC	1	7/1/2012 1:27:15 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	34	7.5		mg/Kg	5	7/5/2012 2:28:25 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	6/30/2012 4:35:23 AM
Toluene	ND	0.050		mg/Kg	1	6/30/2012 4:35:23 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/30/2012 4:35:23 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/30/2012 4:35:23 AM
Surr: 1,2-Dichloroethane-d4	81.6	70-130		%REC	1	6/30/2012 4:35:23 AM
Surr: 4-Bromofluorobenzene	94.9	70-130		%REC	1	6/30/2012 4:35:23 AM
Surr: Dibromofluoromethane	87.3	71.7-132		%REC	1	6/30/2012 4:35:23 AM
Surr: Toluene-d8	88.7	70-130		%REC	1	6/30/2012 4:35:23 AM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/30/2012 4:35:23 AM
Surr: BFB	94.9	70-130		%REC	1	6/30/2012 4:35:23 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 10:11:00 AM
Lab ID: 1206C17-007
Matrix: MEOH (SOIL)
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/1/2012 1:49:16 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/1/2012 1:49:16 AM
Surr: DNOP	114	77.6-140		%REC	1	7/1/2012 1:49:16 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	7.5		mg/Kg	5	7/5/2012 2:53:14 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	7.5		mg/Kg	5	7/5/2012 5:59:23 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	6/30/2012 5:03:18 AM
Toluene	ND	0.050		mg/Kg	1	6/30/2012 5:03:18 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/30/2012 5:03:18 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/30/2012 5:03:18 AM
Surr: 1,2-Dichloroethane-d4	77.6	70-130		%REC	1	6/30/2012 5:03:18 AM
Surr: 4-Bromofluorobenzene	92.2	70-130		%REC	1	6/30/2012 5:03:18 AM
Surr: Dibromofluoromethane	76.4	71.7-132		%REC	1	6/30/2012 5:03:18 AM
Surr: Toluene-d8	92.1	70-130		%REC	1	6/30/2012 5:03:18 AM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/30/2012 5:03:18 AM
Surr: BFB	92.2	70-130		%REC	1	6/30/2012 5:03:18 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 9:01:00 AM
Lab ID: 1206C17-008
Matrix: MEOH (SOIL)
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/1/2012 2:11:11 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/1/2012 2:11:11 AM
Surr: DNOP	112	77.6-140		%REC	1	7/1/2012 2:11:11 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	7/6/2012 11:56:09 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	7/5/2012 2:16:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	7/3/2012 1:26:31 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2012 1:26:31 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2012 1:26:31 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2012 1:26:31 AM
Surr: 1,2-Dichloroethane-d4	82.1	70-130		%REC	1	7/3/2012 1:26:31 AM
Surr: 4-Bromofluorobenzene	92.1	70-130		%REC	1	7/3/2012 1:26:31 AM
Surr: Dibromofluoromethane	82.7	71.7-132		%REC	1	7/3/2012 1:26:31 AM
Surr: Toluene-d8	90.0	70-130		%REC	1	7/3/2012 1:26:31 AM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2012 1:26:31 AM
Surr: BFB	92.1	70-130		%REC	1	7/3/2012 1:26:31 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 8:12:00 AM
Lab ID: 1206C17-009
Matrix: MEOH (SOIL)
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/1/2012 2:33:08 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/1/2012 2:33:08 AM
Surr: DNOP	112	77.6-140		%REC	1	7/1/2012 2:33:08 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	7/5/2012 3:42:53 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	7/5/2012 7:01:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	6/30/2012 5:59:12 AM
Toluene	ND	0.050		mg/Kg	1	6/30/2012 5:59:12 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/30/2012 5:59:12 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/30/2012 5:59:12 AM
Surr: 1,2-Dichloroethane-d4	80.8	70-130		%REC	1	6/30/2012 5:59:12 AM
Surr: 4-Bromofluorobenzene	92.8	70-130		%REC	1	6/30/2012 5:59:12 AM
Surr: Dibromofluoromethane	79.4	71.7-132		%REC	1	6/30/2012 5:59:12 AM
Surr: Toluene-d8	89.7	70-130		%REC	1	6/30/2012 5:59:12 AM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/30/2012 5:59:12 AM
Surr: BFB	92.8	70-130		%REC	1	6/30/2012 5:59:12 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Treatment Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 6/26/2012 10:44:00 AM
Lab ID: 1206C17-010
Matrix: MEOH (SOIL)
Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	140	9.9		mg/Kg	1	7/2/2012 8:49:59 AM
Motor Oil Range Organics (MRO)	400	50		mg/Kg	1	7/2/2012 8:49:59 AM
Surr: DNOP	124	77.6-140		%REC	1	7/2/2012 8:49:59 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	7/5/2012 5:34:33 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	7/5/2012 6:49:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	7/3/2012 1:54:09 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2012 1:54:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2012 1:54:09 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2012 1:54:09 AM
Surr: 1,2-Dichloroethane-d4	82.0	70-130		%REC	1	7/3/2012 1:54:09 AM
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	1	7/3/2012 1:54:09 AM
Surr: Dibromofluoromethane	78.9	71.7-132		%REC	1	7/3/2012 1:54:09 AM
Surr: Toluene-d8	85.5	70-130		%REC	1	7/3/2012 1:54:09 AM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2012 1:54:09 AM
Surr: BFB	94.0	70-130		%REC	1	7/3/2012 1:54:09 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TRIP BLANK
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date:
Lab ID: 1206C17-011 **Matrix:** AQUEOUS **Received Date:** 6/28/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	7/2/2012 5:57:45 PM
Toluene	ND	1.0		µg/L	1	7/2/2012 5:57:45 PM
Ethylbenzene	ND	1.0		µg/L	1	7/2/2012 5:57:45 PM
Xylenes, Total	ND	2.0		µg/L	1	7/2/2012 5:57:45 PM
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%REC	1	7/2/2012 5:57:45 PM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	1	7/2/2012 5:57:45 PM
Surr: Dibromofluoromethane	103	69.8-130		%REC	1	7/2/2012 5:57:45 PM
Surr: Toluene-d8	91.5	70-130		%REC	1	7/2/2012 5:57:45 PM
MODIFIED EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/2/2012 5:57:45 PM
Surr: BFB	111	70-130		%REC	1	7/2/2012 5:57:45 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-2703**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **2703**	RunNo: **3870**							
Prep Date: **7/5/2012**	Analysis Date: **7/5/2012**	SeqNo: **110123**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-2703**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **2703**	RunNo: **3870**							
Prep Date: **7/5/2012**	Analysis Date: **7/5/2012**	SeqNo: **110124**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	90	110			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R3765**	RunNo: **3765**
Prep Date:	Analysis Date: **6/28/2012**	SeqNo: **106554** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R3765**	RunNo: **3765**
Prep Date:	Analysis Date: **6/28/2012**	SeqNo: **106555** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.5	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R3839**	RunNo: **3839**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108900** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R3839**	RunNo: **3839**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108901** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.0	90	110			

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-2638**	SampType: **MBLK**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **2638**			RunNo: **3783**					
Prep Date: **6/29/2012**	Analysis Date: **6/30/2012**			SeqNo: **107010**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	77.6	140			

Sample ID **LCS-2638**	SampType: **LCS**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **2638**			RunNo: **3783**					
Prep Date: **6/29/2012**	Analysis Date: **6/30/2012**			SeqNo: **107012**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.3	52.6	130			
Surr: DNOP	3.9		5.000		77.7	77.6	140			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-2637**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **PBW**	Batch ID: **2637**	RunNo: **3773**
Prep Date: **6/29/2012**	Analysis Date: **6/29/2012**	SeqNo: **106846** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.2		1.000		121	61.3	164			

Sample ID **LCS-2637**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSW**	Batch ID: **2637**	RunNo: **3773**
Prep Date: **6/29/2012**	Analysis Date: **6/29/2012**	SeqNo: **106847** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.6	1.0	5.000	0	92.0	74	157			
Surr: DNOP	0.44		0.5000		88.8	61.3	164			

Sample ID **LCSD-2637**	SampType: **LCSD**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSS02**	Batch ID: **2637**	RunNo: **3773**
Prep Date: **6/29/2012**	Analysis Date: **6/29/2012**	SeqNo: **106848** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.6	1.0	5.000	0	92.2	74	157	0.213	23	
Surr: DNOP	0.47		0.5000		94.6	61.3	164	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **R3777**	RunNo: **3777**
Prep Date:	Analysis Date: **6/29/2012**	SeqNo: **108101** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.9	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.2	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		88.0	71.7	132			
Surr: Toluene-d8	0.45		0.5000		89.2	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **R3777**	RunNo: **3777**
Prep Date:	Analysis Date: **6/29/2012**	SeqNo: **108104** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	94.8	70.7	123			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.6	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.2	70	130			
Surr: Dibromofluoromethane	0.41		0.5000		81.6	71.7	132			
Surr: Toluene-d8	0.44		0.5000		87.6	70	130			

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R3817**	RunNo: **3817**
Prep Date:	Analysis Date: **6/29/2012**	SeqNo: **108203** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.5	69.8	130			
Surr: Toluene-d8	9.8		10.00		98.4	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R3817**	RunNo: **3817**
Prep Date:	Analysis Date: **6/29/2012**	SeqNo: **108204** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.3	84.1	126			
Toluene	19	1.0	20.00	0	93.1	80	120			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	10		10.00		100	69.8	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108878** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.0	69.8	130			
Surr: Toluene-d8	9.5		10.00		95.4	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108879** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	87.6	84.1	126			
Toluene	18	1.0	20.00	0	91.3	80	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108879** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.1	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	10		10.00		99.7	69.8	130			
Surr: Toluene-d8	9.7		10.00		97.3	70	130			

Sample ID **1206c17-002a ms**	SampType: **MS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-2**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108880** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	85.3	71.1	135			
Toluene	18	1.0	20.00	0	91.9	74	121			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	10		10.00		101	69.8	130			
Surr: Toluene-d8	9.4		10.00		94.2	70	130			

Sample ID **1206c17-002a msd**	SampType: **MSD**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-2**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108881** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	87.3	71.1	135	2.32	21.9	
Toluene	18	1.0	20.00	0	92.4	74	121	0.598	18.5	
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		111	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		102	69.8	130	0	0	
Surr: Toluene-d8	9.4		10.00		94.2	70	130	0	0	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **b4**	SampType: **MBLK**	TestCode: **Modified EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R3817**	RunNo: **3817**
Prep Date:	Analysis Date: **6/29/2012**	SeqNo: **108196** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	11		10.00		112	70	130			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **Modified EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R3817**	RunNo: **3817**
Prep Date:	Analysis Date: **6/29/2012**	SeqNo: **108198** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	103	85	115			
Surr: BFB	10		10.00		102	70	130			

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **Modified EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108812** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	11		10.00		110	70	130			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **Modified EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108833** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.5	85	115			
Surr: BFB	10		10.00		103	70	130			

Sample ID **1206C17-003A MS**	SampType: **MS**	TestCode: **Modified EPA Method 8015B: Gasoline Range**
Client ID: **MW-3**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108837** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.8	70	130			
Surr: BFB	11		10.00		105	70	130			

Sample ID **1206C17-003A MSD**	SampType: **MSD**	TestCode: **Modified EPA Method 8015B: Gasoline Range**
Client ID: **MW-3**	Batch ID: **R3838**	RunNo: **3838**
Prep Date:	Analysis Date: **7/2/2012**	SeqNo: **108845** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.4	70	130	1.51	20	
Surr: BFB	10		10.00		105	70	130	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206C17**

11-Jul-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-2665**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **2665**	RunNo: **3852**
Prep Date: **7/2/2012**	Analysis Date: **7/3/2012**	SeqNo: **109238** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-2665**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **2665**	RunNo: **3852**
Prep Date: **7/2/2012**	Analysis Date: **7/3/2012**	SeqNo: **109239** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1206C17

Received by/date: AG 06/23/12

Logged By: Anne Thorne 6/28/2012 10:00:00 AM Anne Thorne

Completed By: Anne Thorne 6/28/2012 Anne Thorne

Reviewed By: MG 6/26/12

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain of Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services	Turn Around Time: ☒ Standard ☐ Rush
Mailing Address: 624 E Comanche Farmington NM 87401	Project Name: BMG Llaves Landfarm/ Evaporation Pond
Phone #: 505-564-2281	Project #: AES 040605
email or Fax#: 505-324-2022	Project Manager: D. Watson
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler:
Accreditation: ☐ NELAP ☐ Other	On Ice: Y / N
☐ EDD (Type)	Sample Temperature: 1.5

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1204117	BTEX 8021	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	TDS SM2540C	Air Bubbles (Y or N)
6/26/12	1404	H_2O	MW-1	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-001	x	x	x	x	
/	1257	H_2O	MW-2	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-002	x	x	x	x	
	1208	H_2O	MW-3	6-40mL glass 2-500mL plastic	5 - HCl 2 - Non	-003	x	x	x	x	
	1333	H_2O	MW-4	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-004	x	x	x	x	
	1428	H_2O	Interstitial Well	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-005	x	x	x	x	
	1111	Soil	Cell #1 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-006	x	x	x		
	1011	Soil	Cell #2 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-007	x	x	x		
	0901	Soil	Cell #3 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-008	x	x	x		
	0812	Soil	Cell #4 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-009	x	x	x		
—	1044	Soil	Treatment Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-010	x	x	x		
		H_2O	Trip Blank	2-40mL glass	2-HCl	-011	X				

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
6/27/12	1750			6/27/12	1750	
Date:	Time:	Relinquished by:	Received by:	Date	Time	
6/27/12	1759			06/28/12	1000	

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

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

May 22, 2012

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

RE: Results of the 1st Quarter 2012 Evaporation Pond Groundwater Sampling, Treatment Zone Soil Sampling, and Vadose Zone Soil Sampling for BMG's Centralized Surface Waste Management Facility, Rio Arriba County, New Mexico

Dear Mr. Jones:

As part of 1st Quarter 2012 sampling, Animas Environmental Services, LLC (AES) completed: 1) evaporation pond quarterly groundwater monitoring and sampling, 2) treatment zone sampling, and 3) vadose zone sampling on March 22, 2012, 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

1.1 Evaporation Pond Sampling 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.

1.2 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed the 1st quarter 2012 groundwater monitoring and sampling of the evaporation pond monitor wells on March 22, 2012. 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) – USEPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – USEPA Method 8015B;
- Chlorides – USEPA Method 300.0; and
- Total Dissolved Solids (TDS) – Standard Method 2540C.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 12.74°C (IW) to 15.05°C (MW-1). Conductivity readings were between 0.902 mS/cm (MW-3) and 190.7 mS/cm (IW). Field pH readings ranged from 6.19 to 7.32. Groundwater ORP ranged from -42.1 mV (IW) to 60.9 mV (MW-1). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected for the 1st quarter 2012 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 0.37 mg/L GRO and 5.4 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. The results above laboratory detection limits have been summarized as follows:

- TPH-GRO: IW (0.37 mg/L);
- TPH-DRO: IW (5.4 mg/L);
- Chlorides: IW (150,000 mg/L), MW-1 (11 mg/L), MW-2 (29 mg/L), MW-3 (23 mg/L), and MW-4 (22 mg/L);
- TDS: IW (170,000 mg/L), MW-1 (800 mg/L), MW-2 (690 mg/L), MW-3 (670 mg/L), and MW-4 (660 mg/L).

The analytical results for the groundwater samples collected for the 1st quarter 2012 sampling event are presented in Table 2 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 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 between depths of 0.5 and 1.5 feet below ground surface (bgs). The composite sample was composed of two samples from Cell # 1, one sample from Cell # 2, and one sample from Cell # 3, the 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.

2.1 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.

2.2 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 and TPH-GRO concentrations were reported below the laboratory detection limits;
- TPH concentrations were reported at 310 mg/kg DRO and 340 mg/kg MRO;
- The chloride concentration was reported below the laboratory detection limit.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented in Table 3 and on Figure 2. Laboratory reports are presented in Appendix A.

3.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility, 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 Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

Soil samples were 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 Vadose Zone Analytical Results

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

- Benzene and BTEX - below laboratory detection limits in each cell;
- TPH - below the laboratory detection limits in each cell;
- Chlorides - below the laboratory detection limits in Cell #2, Cell #3 and Cell #4, Cell #1 (9.9 mg/kg).

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 Table 4, and laboratory reports are presented in Appendix A.

4.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling along with landfarm sampling at the BMG Surface Waste Management Facility for the 1st quarter 2012 in March 2012. Based on the results of the March 2012 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 (0.37 mg/L), TPH-DRO (5.4 mg/L), chloride (150,000 mg/L), and TDS (170,000 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 650 mg/kg.

Soil analytical results from vadose zone sampling included quarterly sampling for BTEX, TPH, and chlorides. BTEX and TPH concentrations were below laboratory detection limits in all cells sampled. Chloride concentrations above the laboratory detection limit was reported in Cell #1 (9.9 mg/kg). All cells remained below the NMOCD threshold of 500 mg/kg for chloride.

AES has scheduled the next quarterly sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils to occur in June 2012.

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

Sincerely,

Ross Kennemer
Sr. Project Manager

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Treatment Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 4. Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results

Figures

Figure 1. Location of BMG Evaporation Pond and Monitoring Wells and Contaminant Concentrations, 1st Quarter 2012
Figure 2. Treatment Zone Monitoring Locations and Contaminant Concentrations, 1st Quarter 2012
Figure 3. Vadose Zone Monitoring Locations and Contaminant Concentrations, 1st Quarter 2012

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
1000 Rio Brazos Road
Aztec, NM 87410

S:\Animas 2000\2012 Projects\BMG\Landfarm\Reports\gcbmg 052212.docx

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
IW	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
IW	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
IW	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
IW	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
IW	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
IW	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
IW	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
IW	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
IW	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
IW	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
IW	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
IW	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
IW	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
IW	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
IW	3-Jan-12	TBS	9.70	8.33	187.0	0.31	5.89	308.1
IW	22-Mar-12	TBS	9.60	12.74	190.7	0.29	6.19	-42.1
MW-1	10-May-08	TBS	38.03	12.73	2.59	NM	8.24	76.8
MW-1	21-Jul-08	TBS	38.11	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-1	3-Jan-12	TBS	38.95	11.48	0.918	4.25	7.11	383.8
MW-1	22-Mar-12	TBS	39.95	15.05	0.950	3.62	7.25	60.9

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	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
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-2	3-Jan-12	TBS	40.91	10.67	0.997	3.21	8.54	262.2
MW-2	22-Mar-12	TBS	40.99	13.35	0.929	3.33	7.32	52.5
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-3	3-Jan-12	TBS	40.13	11.53	0.874	3.52	7.50	303.1
MW-3	22-Mar-12	TBS	40.23	13.06	0.902	4.38	7.22	60.5
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

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-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
MW-4	3-Jan-12	TBS	40.71	11.95	0.959	5.55	7.54	364.5
MW-4	22-Mar-12	TBS	40.74	14.18	0.985	5.55	7.29	54.8

NM - Not Measured

TBS - To Be Surveyed

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

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
IW	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
IW	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
IW	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
IW	30-Dec-08	NOT SAMPLED - LOW YIELD								
IW	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
IW	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
IW	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
IW	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
IW	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
IW	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
IW	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
IW	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
IW	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
IW	03-Jan-12	<2.0	<2.0	<2.0	<4.0	0.19	5.4	<5.0	140,000	172,000
IW	22-Mar-12	<5.0	<5.0	<5.0	<10	0.37	5.4	<5.0	150,000	170,000
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

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	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
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-1	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	820
MW-1	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	800
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

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-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-2	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	760
MW-2	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	690
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
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-3	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	23	720
MW-3	22-Mar-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	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

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	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
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830
MW-4	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	19	1,100
MW-4	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	660

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
Treatment Zone Soil BTEX, TPH, and Chlorides 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)				100/2,500			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
Treatment Zone	#1	1)N 36° 23.358' W 106° 52.011' 2)N 36° 23.395' W 106° 51.925' 3)N 36° 23.362' W 106° 50.840' 4)N 36° 23.327' W 106° 51.932	3-Jan-12	1.5	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21.0
Treatment Zone	#1	1)N 36.389600° W 106.867612° 2)N 36.389565° W 106.865722° 3)N 36.389158° W 106.865205° 4)N 36.389087° W 106.864053°	22-Mar-12	0.5	<0.25	<0.25	<0.25	<0.50	<25	**310**	**340**	<15

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100			500
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	6
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	48
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	10
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	22
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	18
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	<15
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	<30
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	54
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	45
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	15
Cell #1 Vadose Zone	VZ-1	N 36° 23.378' W 106° 52.055'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	3.4
Cell #1 Vadose Zone	VZ-1	N 36.388735° W 106.865537°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	9.9

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

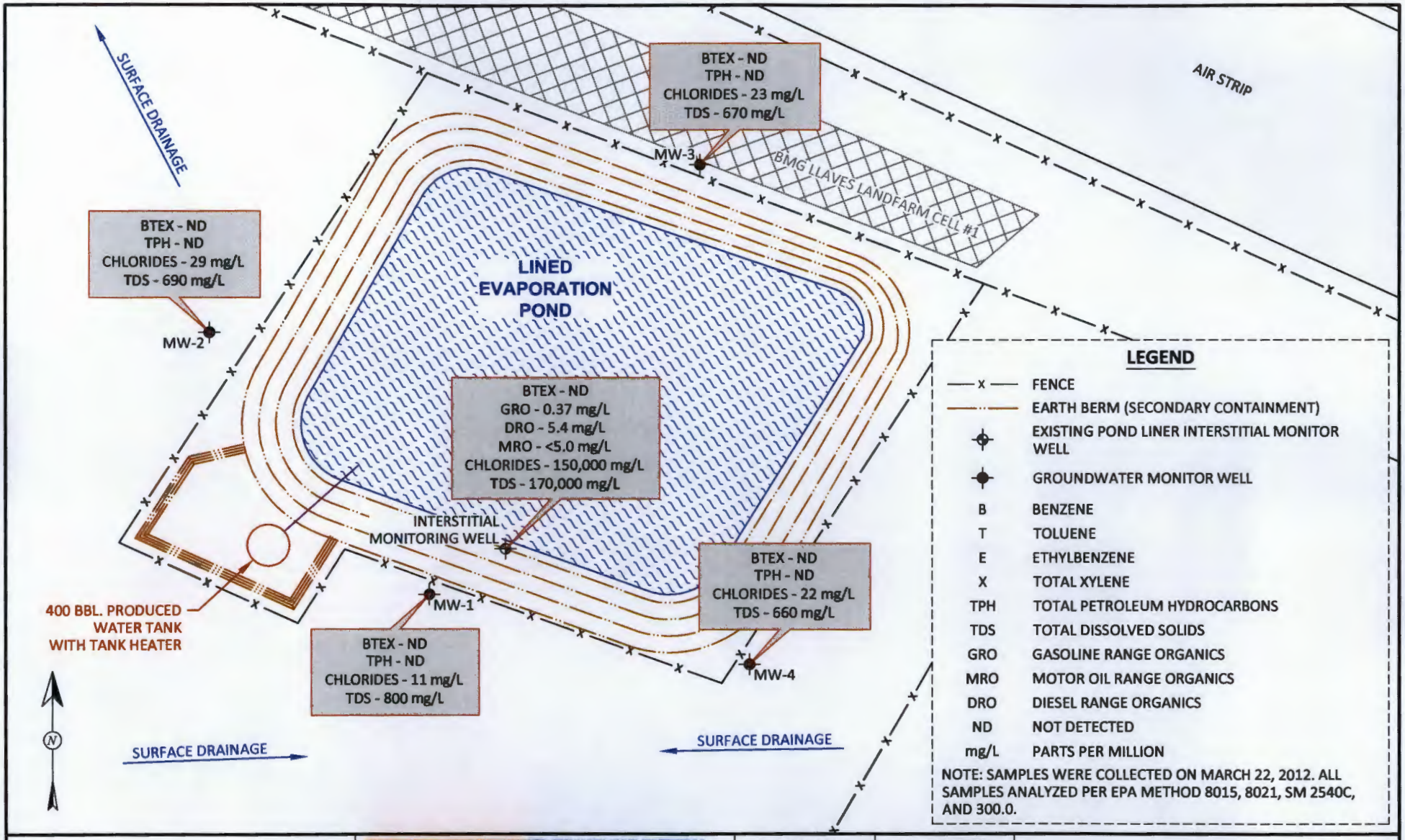
Landfarm ID	Sample ID	Sample Location	Sample Date	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylene (mg/kg)	TPH GRO (C6-C10) (mg/kg)	TPH DRO (C10-C22) (mg/kg)	TPH MRO (C22-C32) (mg/kg)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
Cell #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	8.3
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	16
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	8.9
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	16
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	6.0
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	<15
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	<30
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	<15
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	<7.5
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	<7.5
Cell #2 Vadose Zone	VZ-2	N 36° 23.406' W 106° 52.019'	3-Jan-12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<1.5
Cell #2 Vadose Zone	VZ-2	N 36.390158° W 106.866210°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytical Method			8021/8260B				8015M/8015B			300.0
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	5.1
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	22
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	28
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	17
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	20
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	<15
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	43
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	<15
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	7.9
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	6.3
Cell #3 Vadose Zone	VZ-3	N 36° 23.334' W 106° 51.864'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	2.2
Cell #3 Vadose Zone	VZ-3	N 36.389367° W 106.864533°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
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	<7.5
Cell #4 Vadose Zone	VZ-4	N 36° 23.341' W 106° 51.736'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<1.5
Cell #4 Vadose Zone	VZ-4	N 36.389355° W 106.863260°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15



SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

AES
Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: April 11, 2011
REVISIONS BY: C. Lameman	DATE REVISED: April 5, 2012
CHECKED BY: D. Watson	DATE CHECKED: April 17, 2012
APPROVED BY: E. McNally	DATE APPROVED: May 22, 2012

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 1st QUARTER 2012

NW ¼, NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, 1st QUARTER 2012

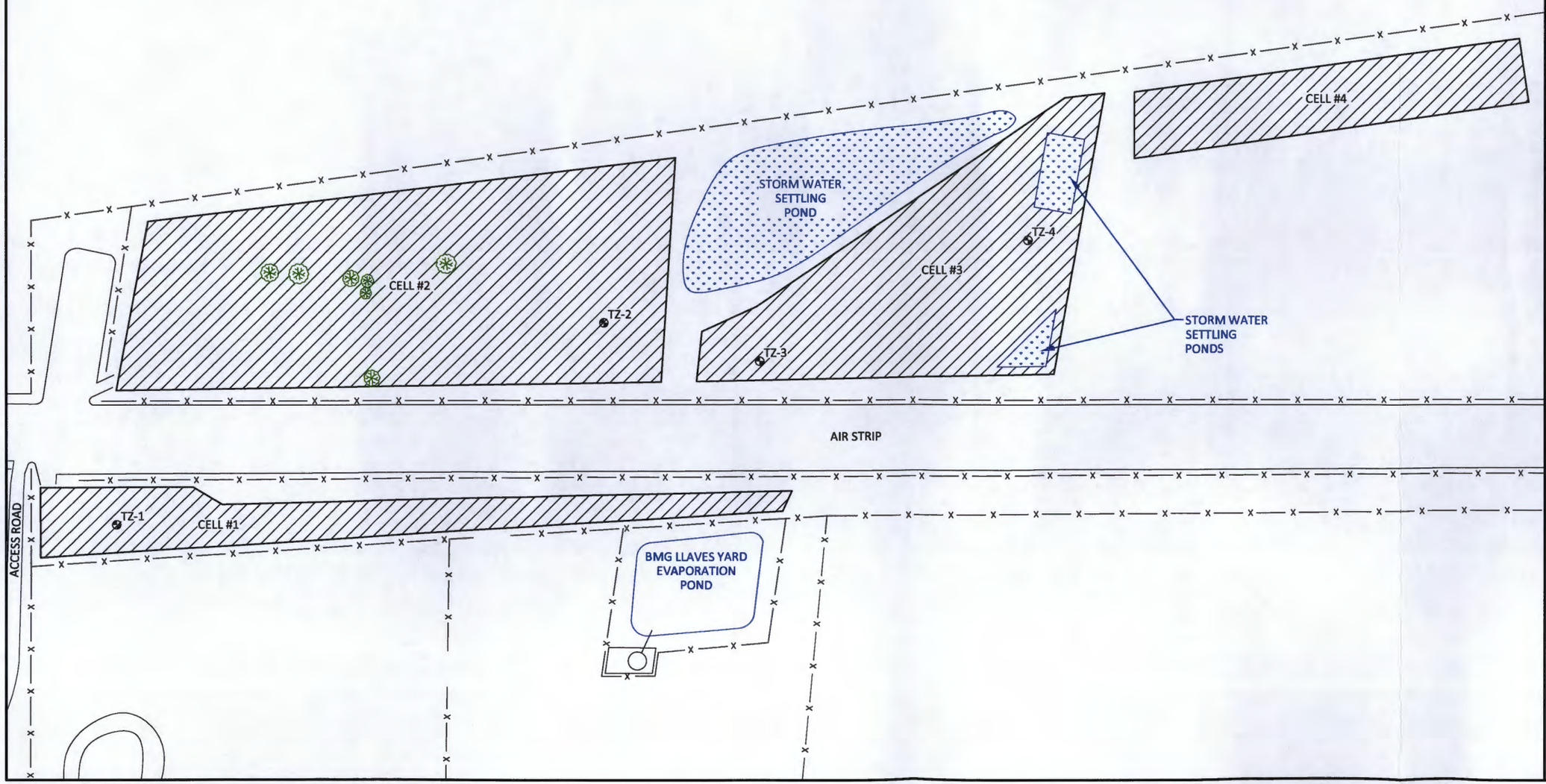
NW1/4, NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Summary of 1st Quarter 2012 Treatment Zone Monitoring March 2012

Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylene (mg/kg)	TPH			Chloride (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
3/22/12	<0.25	<0.25	<0.25	<0.50	<25	**310**	**340**	<15

Treatment Zone Monitoring Locations March 2012

Sample ID	Sample Location	Sample Depth (ft.)
TZ-1	N 36.38960 W 106.86761	0.5
TZ-2	N 36.38956 W 106.86572	0.5
TZ-3	N 36.38915 W 106.86520	0.5
TZ-4	N 36.38908 W 106.86405	0.5



Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	April 11, 2011
REVISIONS BY:	**DATE REVISED:**
C. Lameman	April 5, 2012
CHECKED BY:	**DATE CHECKED:**
D. Watson	April 17, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 22, 2012

N

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

Summary of 1st quarter 2012
Vadose Zone Monitoring
March 2012

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) C6-C10 (mg/kg)	TPH (GRO, DRO, and MRO) C10-C22 (mg/kg)	TPH (GRO, DRO, and MRO) C22-C32 (mg/kg)	Chloride (mg/kg)
Cell #1	VZ-1	N 36.38873 W 106.86553	3/22/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	9.9
Cell #2	VZ-2	N 36.39015 W 106.86621	3/22/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #3	VZ-3	N 36.38936 W 106.86453	3/22/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #4	VZ-4	N 36.38935 W 106.86326	3/22/12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15

Vadose Zone Samples were collected between 3 ft. To 4 ft. below Native Soil Surface.

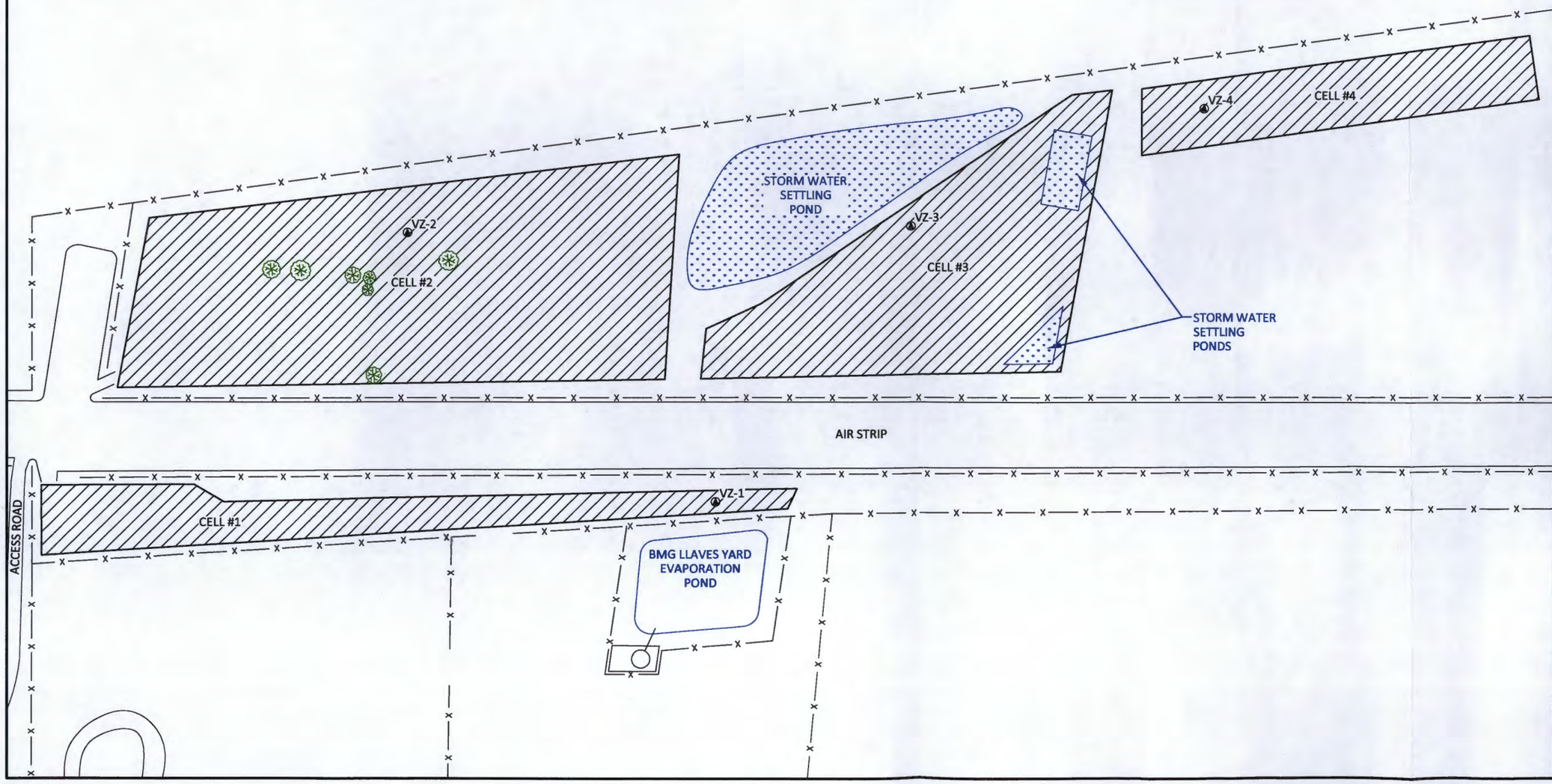


FIGURE 3

BENSON-MONTIN-GREER VADOSE ZONE MONITORING LOCATIONS AND CONTAMINANT CONCENTRATIONS, 1st QUARTER 2012
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:** April 5, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** April 17, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** May 22, 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: ~~1232~~ 3/22/12
Time: 1232
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1411	—	39.95	—	
MW-2	1314	—	40.99	—	
MW-3	1245	—	40.23	—	
MW-4	1340	—	40.74	—	
Interstitial	1439	—	9.60	—	

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): 39.95 **Time:** 1411 *(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: 3/22/12
Arrival Time: ~~1213~~ 1408
Air Temp: 60°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
1416	16.54	0.950	3.25	7.38	46.4	0.25 gal.	
1419	15.05	0.950	3.62	7.25	60.9	0.5	Very
							Low
							Yield
1424	~~~~~						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 (300.0) and TDS (2540C) (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): 40.99 **Time:** 1314 *(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: 3/22/12
Arrival Time: 1312
Air Temp: 60°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
1319	14.10	0.937	2.18	7.30	59.4	0.25 gal.	
1322	13.35	0.929	3.33	7.32	52.5	0.5	Very
							Low
							Yield
1327	—	—	—	—	—	—	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 (300.0) and TDS (2540C) (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-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): 40.23 **Time:** 1245 *(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: 3/22/12
Arrival Time: 1243
Air Temp: 60°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
1250	15.12	0.919	3.24	7.13	53.2	0.25 gal.	
1253	13.40	0.900	3.55	7.18	49.3	0.5	
1256	13.06	0.902	4.38	7.22	60.5	0.5	Very
						.	Low
						.	Yield
						.	
~~1300~~ 1301							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 (300.0) and TDS (2540C) (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): 40.74 **Time:** 1340 *(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: 3/22/12
Arrival Time: 1337
Air Temp: 60°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
1345	15.47	0.983	5.31	7.40	46.5	0.25 gal.	
1348	14.51	0.975	5.30	7.32	51.8	0.25	
1351	14.18	0.985	5.55	7.29	54.8	0.5	Very
						.	Low
						.	Yield
						.	
1356	—						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 (300.0) and TDS (2540C) (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: No Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.60 **Time:** 1439 *(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: 3/22/12
Arrival Time: 1436
Air Temp: 60°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
1442	12.74	190.7	0.29	6.19	-42.1	0.25 gal.	
1447							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 (300.0) and TDS (2540C) (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:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 04, 2012

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: BMG Llaves Landfarm/Evaporation Pond OrderNo.: 1203909

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/24/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1203909**
Date Reported: **4/4/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 2:24:00 PM
Lab ID: 1203909-001 **Matrix:** AQUEOUS **Received Date:** 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 3:16:28 PM
Surr: DNOP	108	61.3-164		%REC	1	3/26/2012 3:16:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	3/29/2012 7:24:25 PM
Surr: BFB	102	69.3-120		%REC	2	3/29/2012 7:24:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	3/29/2012 7:24:25 PM
Toluene	ND	2.0		µg/L	2	3/29/2012 7:24:25 PM
Ethylbenzene	ND	2.0		µg/L	2	3/29/2012 7:24:25 PM
Xylenes, Total	ND	4.0		µg/L	2	3/29/2012 7:24:25 PM
Surr: 4-Bromofluorobenzene	105	55-140		%REC	2	3/29/2012 7:24:25 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	11	0.50		mg/L	1	3/28/2012 12:02:21 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	800	200		mg/L	1	3/29/2012 2:54:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 1:27:00 PM
Lab ID: 1203909-002 **Matrix:** AQUEOUS **Received Date:** 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 3:42:19 PM
Surr: DNOP	108	61.3-164		%REC	1	3/26/2012 3:42:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	3/29/2012 10:56:08 PM
Surr: BFB	73.2	69.3-120		%REC	2	3/29/2012 10:56:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	3/29/2012 10:56:08 PM
Toluene	ND	2.0		µg/L	2	3/29/2012 10:56:08 PM
Ethylbenzene	ND	2.0		µg/L	2	3/29/2012 10:56:08 PM
Xylenes, Total	ND	4.0		µg/L	2	3/29/2012 10:56:08 PM
Surr: 4-Bromofluorobenzene	72.5	55-140		%REC	2	3/29/2012 10:56:08 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	29	10		mg/L	20	3/28/2012 12:14:46 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	690	200		mg/L	1	3/29/2012 2:54:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 1:01:00 PM
Lab ID: 1203909-003 **Matrix:** AQUEOUS **Received Date:** 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 4:07:55 PM
Surr: DNOP	104	61.3-164		%REC	1	3/26/2012 4:07:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/30/2012 12:26:46 AM
Surr: BFB	85.5	69.3-120		%REC	1	3/30/2012 12:26:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	3/30/2012 12:26:46 AM
Toluene	ND	1.0		µg/L	1	3/30/2012 12:26:46 AM
Ethylbenzene	ND	1.0		µg/L	1	3/30/2012 12:26:46 AM
Xylenes, Total	ND	2.0		µg/L	1	3/30/2012 12:26:46 AM
Surr: 4-Bromofluorobenzene	87.4	55-140		%REC	1	3/30/2012 12:26:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	23	10		mg/L	20	3/28/2012 12:52:00 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	670	200		mg/L	1	3/29/2012 2:54:00 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 1:56:00 PM
Lab ID: 1203909-004
Matrix: AQUEOUS
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/26/2012 4:33:29 PM
Surr: DNOP	104	61.3-164		%REC	1	3/26/2012 4:33:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	3/30/2012 12:56:52 AM
Surr: BFB	71.4	69.3-120		%REC	2	3/30/2012 12:56:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	3/30/2012 12:56:52 AM
Toluene	ND	2.0		µg/L	2	3/30/2012 12:56:52 AM
Ethylbenzene	ND	2.0		µg/L	2	3/30/2012 12:56:52 AM
Xylenes, Total	ND	4.0		µg/L	2	3/30/2012 12:56:52 AM
Surr: 4-Bromofluorobenzene	72.0	55-140		%REC	2	3/30/2012 12:56:52 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	22	10		mg/L	20	3/28/2012 1:04:24 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	660	200		mg/L	1	3/29/2012 2:54:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Interstitial Well
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 2:47:00 PM
Lab ID: 1203909-005 **Matrix:** AQUEOUS **Received Date:** 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	5.4	1.0		mg/L	1	3/26/2012 4:59:08 PM
Surr: DNOP	92.9	61.3-164		%REC	1	3/26/2012 4:59:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.37	0.25		mg/L	5	3/30/2012 3:53:40 PM
Surr: BFB	99.3	69.3-120		%REC	5	3/30/2012 3:53:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	5.0		µg/L	5	3/30/2012 3:53:40 PM
Toluene	ND	5.0		µg/L	5	3/30/2012 3:53:40 PM
Ethylbenzene	ND	5.0		µg/L	5	3/30/2012 3:53:40 PM
Xylenes, Total	ND	10		µg/L	5	3/30/2012 3:53:40 PM
Surr: 4-Bromofluorobenzene	97.8	55-140		%REC	5	3/30/2012 3:53:40 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	150,000	5,000		mg/L	10000	3/29/2012 5:20:53 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	170,000	1,000		mg/L	1	3/29/2012 2:54:00 PM

Qualifiers:

*X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 12:10:00 PM
Lab ID: 1203909-006 **Matrix:** SOIL
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/27/2012 11:34:13 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	3/27/2012 11:34:13 AM
Surr: DNOP	80.0	77.4-131		%REC	1	3/27/2012 11:34:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2012 12:28:02 PM
Surr: BFB	91.3	69.7-121		%REC	1	3/29/2012 12:28:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	3/29/2012 12:28:02 PM
Toluene	ND	0.050		mg/Kg	1	3/29/2012 12:28:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2012 12:28:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/29/2012 12:28:02 PM
Surr: 4-Bromofluorobenzene	90.0	80-120		%REC	1	3/29/2012 12:28:02 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	9.9	7.5		mg/Kg	5	3/28/2012 10:22:31 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 11:29:00 AM
Lab ID: 1203909-007 **Matrix:** SOIL
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/27/2012 1:14:40 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/27/2012 1:14:40 PM
Surr: DNOP	79.2	77.4-131		%REC	1	3/27/2012 1:14:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2012 12:56:50 PM
Surr: BFB	92.3	69.7-121		%REC	1	3/29/2012 12:56:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	3/29/2012 12:56:50 PM
Toluene	ND	0.050		mg/Kg	1	3/29/2012 12:56:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2012 12:56:50 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/29/2012 12:56:50 PM
Surr: 4-Bromofluorobenzene	91.2	80-120		%REC	1	3/29/2012 12:56:50 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	7.5		mg/Kg	5	3/28/2012 10:47:20 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 10:52:00 AM
Lab ID: 1203909-008 **Matrix:** SOIL
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/27/2012 1:39:50 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/27/2012 1:39:50 PM
Surr: DNOP	83.1	77.4-131		%REC	1	3/27/2012 1:39:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2012 1:25:34 PM
Surr: BFB	92.1	69.7-121		%REC	1	3/29/2012 1:25:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	3/29/2012 1:25:34 PM
Toluene	ND	0.050		mg/Kg	1	3/29/2012 1:25:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2012 1:25:34 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/29/2012 1:25:34 PM
Surr: 4-Bromofluorobenzene	90.9	80-120		%REC	1	3/29/2012 1:25:34 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	7.5		mg/Kg	5	3/28/2012 12:01:48 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 10:06:00 AM
Lab ID: 1203909-009 **Matrix:** SOIL
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/27/2012 2:04:56 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	3/27/2012 2:04:56 PM
Surr: DNOP	85.0	77.4-131		%REC	1	3/27/2012 2:04:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2012 1:54:27 PM
Surr: BFB	90.8	69.7-121		%REC	1	3/29/2012 1:54:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	3/29/2012 1:54:27 PM
Toluene	ND	0.050		mg/Kg	1	3/29/2012 1:54:27 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/29/2012 1:54:27 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/29/2012 1:54:27 PM
Surr: 4-Bromofluorobenzene	87.9	80-120		%REC	1	3/29/2012 1:54:27 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	3/28/2012 12:26:38 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Treatment Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 3/22/2012 11:56:00 AM
Lab ID: 1203909-010 **Matrix:** SOIL
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	310	50		mg/Kg	5	3/27/2012 3:20:18 PM
Motor Oil Range Organics (MRO)	340	250		mg/Kg	5	3/27/2012 3:20:18 PM
Surr: DNOP	0	77.4-131	S	%REC	5	3/27/2012 3:20:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/30/2012 1:30:46 PM
Surr: BFB	97.2	69.7-121		%REC	5	3/30/2012 1:30:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.25		mg/Kg	5	3/30/2012 1:30:46 PM
Toluene	ND	0.25		mg/Kg	5	3/30/2012 1:30:46 PM
Ethylbenzene	ND	0.25		mg/Kg	5	3/30/2012 1:30:46 PM
Xylenes, Total	ND	0.50		mg/Kg	5	3/30/2012 1:30:46 PM
Surr: 4-Bromofluorobenzene	90.8	80-120		%REC	5	3/30/2012 1:30:46 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	3/28/2012 12:39:03 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MeOH Blank
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date:
Lab ID: 1203909-011
Matrix: MEOH BLAN
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2012 3:20:56 PM
Surr: BFB	90.4	69.7-121		%REC	1	3/29/2012 3:20:56 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Trip Blank
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date:
Lab ID: 1203909-012
Matrix: TRIP BLANK
Received Date: 3/24/2012 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/30/2012 1:56:57 AM
Benzene	ND	1.0		µg/L	1	3/30/2012 1:56:57 AM
Toluene	ND	1.0		µg/L	1	3/30/2012 1:56:57 AM
Ethylbenzene	ND	1.0		µg/L	1	3/30/2012 1:56:57 AM
Xylenes, Total	ND	2.0		µg/L	1	3/30/2012 1:56:57 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2012 1:56:57 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2012 1:56:57 AM
Surr: 4-Bromofluorobenzene	73.0	55-140		%REC	1	3/30/2012 1:56:57 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-1277**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **1277**	RunNo: **1756**
Prep Date: **3/28/2012**	Analysis Date: **3/28/2012**	SeqNo: **49375** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-1277**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **1277**	RunNo: **1756**
Prep Date: **3/28/2012**	Analysis Date: **3/28/2012**	SeqNo: **49376** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Sample ID **1203909-007AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #2 Vadose Zon**	Batch ID: **1277**	RunNo: **1756**
Prep Date: **3/28/2012**	Analysis Date: **3/28/2012**	SeqNo: **49382** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	3.417	80.7	74.6	118			

Sample ID **1203909-007AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Cell #2 Vadose Zon**	Batch ID: **1277**	RunNo: **1756**
Prep Date: **3/28/2012**	Analysis Date: **3/28/2012**	SeqNo: **49383** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	3.417	83.5	74.6	118	2.66	20	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/27/2012**	SeqNo: **48783** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/27/2012**	SeqNo: **48784** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.1	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/27/2012**	SeqNo: **48837** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/27/2012**	SeqNo: **48838** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.8	90	110			

Sample ID **1203975-001CMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/28/2012**	SeqNo: **48847** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.9	0.50	5.000	1.140	95.0	78	107			

Sample ID **1203975-001CMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/28/2012**	SeqNo: **48848** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.9	0.50	5.000	1.140	94.9	78	107	0.0636	20	

Sample ID **1203994-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/28/2012**	SeqNo: **48856** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	20	0.50	5.000	14.51	106	78	107			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1203994-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R1735**	RunNo: **1735**
Prep Date:	Analysis Date: **3/28/2012**	SeqNo: **48857** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	20	0.50	5.000	14.51	109	78	107	0.898	20	S

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R1803**	RunNo: **1803**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50408** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R1803**	RunNo: **1803**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50409** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.1	0.50	5.000	0	102	90	110			

Sample ID **1203A92-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R1803**	RunNo: **1803**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50411** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.8	0.50	5.000	2.826	99.6	78	107			

Sample ID **1203A92-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R1803**	RunNo: **1803**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50412** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.8	0.50	5.000	2.826	99.3	78	107	0.139	20	

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203909

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID	MB-1227	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	PBS	Batch ID:	1227	RunNo:	1666				
Prep Date:	3/24/2012	Analysis Date:	3/25/2012	SeqNo:	47119	Units:	%REC		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.9	77.4	131			

Sample ID	LCS-1227	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	1227	RunNo:	1666				
Prep Date:	3/24/2012	Analysis Date:	3/25/2012	SeqNo:	47120	Units:	%REC		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.7	77.4	131			

Sample ID	1203865-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	BatchQC	Batch ID:	1227	RunNo:	1666				
Prep Date:	3/24/2012	Analysis Date:	3/25/2012	SeqNo:	47122	Units:	%REC		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		4.926		99.6	77.4	131			

Sample ID	1203865-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	BatchQC	Batch ID:	1227	RunNo:	1666				
Prep Date:	3/24/2012	Analysis Date:	3/25/2012	SeqNo:	47123	Units:	%REC		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		4.950		99.1	77.4	131	0	0	

Sample ID	MB-1238	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	PBS	Batch ID:	1238	RunNo:	1666				
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47653	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.2	77.4	131			

Sample ID	LCS-1238	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	LCSS	Batch ID:	1238	RunNo:	1666				
Prep Date:	3/26/2012	Analysis Date:	3/26/2012	SeqNo:	47654	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.8	62.7	139			
Surr: DNOP	4.1		5.000		82.7	77.4	131			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1203863-001AMS**	SampType: **MS**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **BatchQC**	Batch ID: **1238**			RunNo: **1704**					
Prep Date: **3/26/2012**	Analysis Date: **3/27/2012**			SeqNo: **48267**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.9	49.26	6.425	75.4	57.2	146			
Surr: DNOP	4.6		4.926		93.7	77.4	131			

Sample ID **1203863-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015B: Diesel Range Organics**					
Client ID: **BatchQC**	Batch ID: **1238**			RunNo: **1704**					
Prep Date: **3/26/2012**	Analysis Date: **3/27/2012**			SeqNo: **48268**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.8	49.07	6.425	88.8	57.2	146	13.7	26.7	
Surr: DNOP	4.2		4.907		86.4	77.4	131	0	0	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-1239**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **PBW**	Batch ID: **1239**	RunNo: **1689**
Prep Date: **3/26/2012**	Analysis Date: **3/26/2012**	SeqNo: **47729** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		112	61.3	164			

Sample ID **LCS-1239**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSW**	Batch ID: **1239**	RunNo: **1689**
Prep Date: **3/26/2012**	Analysis Date: **3/26/2012**	SeqNo: **47730** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.2	1.0	5.000	0	105	74	157			
Surr: DNOP	0.55		0.5000		110	61.3	164			

Sample ID **LCSD-1239**	SampType: **LCSD**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSS02**	Batch ID: **1239**	RunNo: **1689**
Prep Date: **3/26/2012**	Analysis Date: **3/26/2012**	SeqNo: **47731** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.8	1.0	5.000	0	117	74	157	10.7	23	
Surr: DNOP	0.57		0.5000		114	61.3	164	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **R1805**	RunNo: **1805**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50484** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1,000		91.6	69.7	121			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R1805**	RunNo: **1805**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50485** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	98.5	133			
Surr: BFB	1,000		1,000		99.7	69.7	121			

Sample ID **1203909-006AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **Cell #1 Vadose Zon**	Batch ID: **R1805**	RunNo: **1805**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50492** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	85.4	147			
Surr: BFB	990		1,000		99.0	69.7	121			

Sample ID **1203909-006AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **Cell #1 Vadose Zon**	Batch ID: **R1805**	RunNo: **1805**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50493** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	85.4	147	2.60	19.2	
Surr: BFB	1,000		1,000		101	69.7	121	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203909

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**							
Client ID: **PBW**	Batch ID: **R1802**	RunNo: **1802**							
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50387**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		98.4	69.3	120			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **R1802**	RunNo: **1802**							
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50388**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	115	101	123			
Surr: BFB	19		20.00		97.0	69.3	120			

Sample ID **1203909-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**							
Client ID: **MW-1**	Batch ID: **R1802**	RunNo: **1802**							
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50404**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.1	0.10	1.000	0	110	75.4	121			
Surr: BFB	37		40.00		92.9	69.3	120			

Sample ID **1203909-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**							
Client ID: **MW-1**	Batch ID: **R1802**	RunNo: **1802**							
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50405**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.1	0.10	1.000	0	113	75.4	121	2.15	10.5	
Surr: BFB	34		40.00		84.1	69.3	120	0	0	

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**							
Client ID: **PBW**	Batch ID: **R1853**	RunNo: **1853**							
Prep Date:	Analysis Date: **3/30/2012**	SeqNo: **51848**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		90.3	69.3	120			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **R1853**	RunNo: **1853**							
Prep Date:	Analysis Date: **3/30/2012**	SeqNo: **51849**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	113	101	123			
Surr: BFB	19		20.00		94.2	69.3	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
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- ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1203965-001AMS**	SampType: **MS**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **BatchQC**	Batch ID: **R1853**			RunNo: **1853**					
Prep Date:	Analysis Date: **3/30/2012**			SeqNo: **51874**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.4	0.25	2.500	0.9890	95.4	75.4	121			
Surr: BFB	76		100.0		76.0	69.3	120			

Sample ID **1203965-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID: **BatchQC**	Batch ID: **R1853**			RunNo: **1853**					
Prep Date:	Analysis Date: **3/31/2012**			SeqNo: **51875**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.6	0.25	2.500	0.9890	105	75.4	121	6.57	10.5	
Surr: BFB	99		100.0		99.4	69.3	120	0	0	

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
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- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R1806**	RunNo: **1806**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50558** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R1806**	RunNo: **1806**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50559** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.5	83.3	107			
Toluene	1.0	0.050	1.000	0	102	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	99.8	85.2	123			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	80	120			

Sample ID **1203909-007AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Cell #2 Vadose Zon**	Batch ID: **R1806**	RunNo: **1806**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50566** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	91.3	67.2	113			
Toluene	0.94	0.050	1.000	0	94.3	62.1	116			
Ethylbenzene	0.93	0.050	1.000	0	92.9	67.9	127			
Xylenes, Total	2.8	0.10	3.000	0	93.5	60.6	134			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	80	120			

Sample ID **1203909-007AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Cell #2 Vadose Zon**	Batch ID: **R1806**	RunNo: **1806**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50567** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.050	1.000	0	82.9	67.2	113	9.60	14.3	
Toluene	0.85	0.050	1.000	0	84.5	62.1	116	10.9	15.9	
Ethylbenzene	0.85	0.050	1.000	0	85.0	67.9	127	8.87	14.4	
Xylenes, Total	2.5	0.10	3.000	0	84.9	60.6	134	9.70	12.6	
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R1804**	RunNo: **1804**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50456** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	20		20.00		101	55	140			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R1804**	RunNo: **1804**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50457** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20	2.5	20.00	0	102	50.5	158			
Benzene	21	1.0	20.00	0	104	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	111	80	120			
Xylenes, Total	68	2.0	60.00	0	113	80	120			
1,2,4-Trimethylbenzene	22	1.0	20.00	0	108	80	120			
1,3,5-Trimethylbenzene	23	1.0	20.00	0	113	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		88.5	55	140			

Sample ID **1203909-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R1804**	RunNo: **1804**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50478** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	39	5.0	40.00	0	97.3	58	139			
Benzene	40	2.0	40.00	0	99.1	70.1	118			
Toluene	42	2.0	40.00	0	106	72.3	117			
Ethylbenzene	42	2.0	40.00	0	104	73.5	117			
Xylenes, Total	130	4.0	120.0	0	105	73.1	119			
1,2,4-Trimethylbenzene	39	2.0	40.00	0.4240	97.1	65.8	121			
1,3,5-Trimethylbenzene	41	2.0	40.00	0	103	71.1	118			
Surr: 4-Bromofluorobenzene	42		40.00		104	55	140			

Sample ID **1203909-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R1804**	RunNo: **1804**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50479** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1203909-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-2**	Batch ID: **R1804**	RunNo: **1804**
Prep Date:	Analysis Date: **3/29/2012**	SeqNo: **50479** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	39	5.0	40.00	0	98.5	58	139	1.22	15.2	
Benzene	39	2.0	40.00	0	98.7	70.1	118	0.334	16.4	
Toluene	42	2.0	40.00	0	105	72.3	117	0.171	13.9	
Ethylbenzene	42	2.0	40.00	0	105	73.5	117	0.479	13.5	
Xylenes, Total	130	4.0	120.0	0	105	73.1	119	0.461	12.9	
1,2,4-Trimethylbenzene	39	2.0	40.00	0.4240	95.4	65.8	121	1.73	13.5	
1,3,5-Trimethylbenzene	41	2.0	40.00	0	101	71.1	118	1.64	13.7	
Surr: 4-Bromofluorobenzene	35		40.00		86.6	55	140	0	0	

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R1854**	RunNo: **1854**
Prep Date:	Analysis Date: **3/30/2012**	SeqNo: **51880** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		92.2	55	140			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R1854**	RunNo: **1854**
Prep Date:	Analysis Date: **3/30/2012**	SeqNo: **51881** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	111	80	120			
Xylenes, Total	67	2.0	60.00	0	111	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		92.0	55	140			

Sample ID **1203873-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R1854**	RunNo: **1854**
Prep Date:	Analysis Date: **3/30/2012**	SeqNo: **51888** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.4	70.1	118			
Toluene	21	1.0	20.00	0	103	72.3	117			
Ethylbenzene	21	1.0	20.00	0	104	73.5	117			
Xylenes, Total	63	2.0	60.00	0	104	73.1	119			
Surr: 4-Bromofluorobenzene	20		20.00		102	55	140			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1203873-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R1854**	RunNo: **1854**
Prep Date:	Analysis Date: **3/30/2012**	SeqNo: **51889** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.4	70.1	118	2.11	16.4	
Toluene	20	1.0	20.00	0	101	72.3	117	1.41	13.9	
Ethylbenzene	20	1.0	20.00	0	100	73.5	117	3.48	13.5	
Xylenes, Total	60	2.0	60.00	0	100	73.1	119	3.70	12.9	
Surr: 4-Bromofluorobenzene	20		20.00		98.9	55	140	0	0	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1203909**

04-Apr-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-1263**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **1263**	RunNo: **1783**
Prep Date: **3/27/2012**	Analysis Date: **3/29/2012**	SeqNo: **50006** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-1263**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **1263**	RunNo: **1783**
Prep Date: **3/27/2012**	Analysis Date: **3/29/2012**	SeqNo: **50007** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,020	20.0	1,000	9.000	101	80	120			

Sample ID **1203908-002BMS**	SampType: **MS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **1263**	RunNo: **1783**
Prep Date: **3/27/2012**	Analysis Date: **3/29/2012**	SeqNo: **50010** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,320	20.0	1,000	316.0	101	80	120			

Sample ID **1203908-002BMSD**	SampType: **MSD**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **1263**	RunNo: **1783**
Prep Date: **3/27/2012**	Analysis Date: **3/29/2012**	SeqNo: **50011** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,330	20.0	1,000	316.0	101	80	120	0.377	20	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1203909

Received by/date: MG 03/24/12 1130

Logged By: Anne Thorne 3/24/2012 11:30:00 AM Anne Thorne

Completed By: Anne Thorne 3/26/2012 Anne Thorne

Reviewed By: 03/26/12

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified:		Date	
By Whom:		Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person	
Regarding:			
Client Instructions:			

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services	☒ Standard ☐ Rush
Mailing Address: 624 E Comanche Farmington NM 87401	Project Name: BMG Llaves Landfarm/ Evaporation Pond
Phone #: 505-564-2281	Project #: AES 040605
email or Fax#: 505-324-2022	Project Manager: D. Watson
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: N. Willis
Accreditation: ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 4.0

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. 1203709	BTEX 8021	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	TDS SM2540C	Air Bubbles (Y or N)
12/22/12	1424	H_2O	MW-1	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-001	x	x	x	x	
	1327	H_2O	MW-2	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-002	x	x	x	x	
	1301	H_2O	MW-3	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-003	x	x	x	x	
	1356	H_2O	MW-4	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-004	x	x	x	x	
	1447	H_2O	Interstitial Well	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-005	x	x	x	x	
	1210	Soil	Cell #1 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-006	x	x	x		
	1129	Soil	Cell #2 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-007	x	x	x		
	1052	Soil	Cell #3 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-008	x	x	x		
	1006	Soil	Cell #4 Vadose Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-009	x	x	x		
	1156	Soil	Treatment Zone	1-MeOH Kit 1-4 oz glass	1 - MeOH 1 - Non	-010	x	x	x		
			MeOH Blank	1x 20 mL	MeOH	-011					
			Trip Blank	2x 2 mL	HCl	03126 -012					

Date	Time	Relinquished by:	Received by:	Date	Time
12-22-12	1400			03/26/12	11:30
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

February 7, 2013

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

RE: 4th Quarter 2012 Monitoring Report
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Dear Mr. Jones:

As part of 4th Quarter 2012 landfarm sampling, Animas Environmental Services, LLC (AES) completed: 1) evaporation pond quarterly groundwater monitoring and sampling, 2) treatment zone sampling, and 3) vadose zone sampling on December 6, 2012, 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

1.1 Evaporation Pond Sampling 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.

1.2 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed 4th Quarter 2012 groundwater monitoring and sampling of the evaporation pond monitor wells on December 6, 2012. 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) – USEPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – USEPA Method 8015B;
- Chlorides – USEPA Method 300.0; and
- Total Dissolved Solids (TDS) – Standard Method 2540C.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 9.47°C (IW) to 12.22°C (MW-4). Conductivity readings were between 0.772 mS/cm (MW-3) and 172.2 mS/cm (IW). Field pH readings ranged from 6.53 to 7.59. Groundwater ORP ranged from 51.2 mV (IW) to 99.9 mV (MW-3). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in the Appendix.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected for the 4th Quarter 2012 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 6.9 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. The results above laboratory detection limits have been summarized as follows:

- Chlorides: IW (110,000 mg/L), MW-1 (10 mg/L), MW-2 (32 mg/L), MW-3 (22 mg/L), and MW-4 (14 mg/L).
- TDS: IW (159,000 mg/L), MW-1 (610 mg/L), MW-2 (500 mg/L), MW-3 (600 mg/L), and MW-4 (760 mg/L).

The analytical results for the groundwater samples collected for the 4th Quarter 2012 sampling event are presented in Table 2 and also on Figure 1. Groundwater analytical laboratory reports are included in the Appendix.

2.0 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 at a depth of 0.5 feet below ground surface (bgs). 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.

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.

2.1 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.

2.2 Treatment Zone Analytical Results

Laboratory analytical results are summarized as follows:

- BTEX and TPH-GRO concentrations were reported below laboratory detection limits;
- TPH concentrations were reported at 960 mg/kg DRO and 3,000 mg/kg MRO;
- The chloride concentration was reported at 31 mg/kg.

The locations of all samples, as well as analytical results for BTEX, TPH, and chlorides, are presented in Table 3 and on Figure 2. Laboratory reports are presented in the Appendix.

3.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility, 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 Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

Soil samples were 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 Vadose Zone Analytical Results

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

- Benzene and BTEX - below laboratory detection limits in each cell;
- TPH - below laboratory detection limits in each cell, except Cell #1 (1,070 mg/kg) and Cell #3 (221 mg/kg);
- Chloride - below laboratory detection limits in each cell, except Cell #1 (66 mg/kg).

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 Table 4, and laboratory reports are presented in the Appendix.

4.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling along with landfarm sampling at the BMG Surface Waste Management Facility for the 4th Quarter 2012 in December 2012. Based on the results of the December 2012 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-DRO (6.9 mg/L), chloride (110,000 mg/L), and TDS (159,000 mg/L).

The treatment zone composite sample showed that benzene and total BTEX concentrations were reported below laboratory detection limits and the NMOCD Rule 36 Threshold for benzene (10 mg/kg) and total BTEX (50 mg/kg). The TPH concentration was reported below laboratory detection limits for GRO, at 960 mg/kg DRO, and 3,000 mg/kg MRO. The chloride concentration was 31 mg/kg.

Results from vadose zone sampling showed that total BTEX and TPH concentrations were reported below laboratory detection limits in all cells sampled, except Cell #1 (1,070 mg/kg TPH) and Cell #3 (221 mg/kg TPH). Chloride concentrations were reported below the NMOCD threshold of 500 mg/kg for chloride in each cell.

On February 4, 2013, AES submitted a notification to NMOCD documenting the vadose zone exceedance within Cells #1 and #3. Weather conditions during December 2012 and early January 2013 have resulted in frozen soil conditions at the site. Additional sampling per NMAC 19.15.36.15E (5) has been rescheduled but will not occur until

conditions are favorable for sampling (i.e. non-frozen ground conditions) within Cell #1 and Cell #3.

The first quarter 2013 sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils is scheduled to occur in early March 2013.

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

Sincerely,

Landrea R. Cupps

Landrea Cupps
Environmental Scientist

Elizabeth McNally

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Treatment Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 4. Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results

Figures

Figure 1. Location of BMG Evaporation Pond and Monitor Well Locations and Concentrations, 4th Quarter 2012
Figure 2. Treatment Zone Monitoring Locations and Results, 4th Quarter 2012
Figure 3. Vadose Zone Monitoring Locations and Results, 4th Quarter 2012

Appendix

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
1000 Rio Brazos Road
Aztec, NM 87410

R:\Animas 2000\Dropbox\2013 Projects\BMG\Landfarm\GC\gcbmg 4th Quarter 2012 020613.docx

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
IW	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
IW	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
IW	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
IW	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
IW	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
IW	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
IW	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
IW	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
IW	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
IW	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
IW	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
IW	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
IW	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
IW	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
IW	3-Jan-12	TBS	9.70	8.33	187.0	0.31	5.89	308.1
IW	22-Mar-12	TBS	9.60	12.74	190.7	0.29	6.19	-42.1
IW	26-Jun-12	TBS	9.61	18.18	185.2	0.81	6.44	-82.7
IW	18-Sep-12	TBS	9.68	17.63	173.6	0.89	6.62	23.6
IW	6-Dec-12	TBS	9.88	9.47	172.2	0.89	6.53	51.2
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

TABLE 1
Water Quality and Well Data
BMG Centralized Surface Waste Management Facility
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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-1	3-Jan-12	TBS	38.95	11.48	0.918	4.25	7.11	383.8
MW-1	22-Mar-12	TBS	39.95	15.05	0.950	3.62	7.25	60.9
MW-1	26-Jun-12	TBS	40.09	13.03	0.940	8.04	5.78	280.4
MW-1	18-Sep-12	TBS	40.19	13.00	0.902	3.77	7.46	53.6
MW-1	6-Dec-12	TBS	40.33	11.82	0.846	4.90	7.52	92.6
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
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-2	3-Jan-12	TBS	40.91	10.67	0.997	3.21	8.54	262.2
MW-2	22-Mar-12	TBS	40.99	13.35	0.929	3.33	7.32	52.5
MW-2	26-Jun-12	TBS	41.13	13.01	0.921	5.72	6.19	200.9
MW-2	18-Sep-12	TBS	41.24	14.36	0.481	8.21	7.74	29.5
MW-2	6-Dec-12	TBS	41.38	11.02	0.899	4.21	7.59	93.0
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

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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-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-3	3-Jan-12	TBS	40.13	11.53	0.874	3.52	7.50	303.1
MW-3	22-Mar-12	TBS	40.23	13.06	0.902	4.38	7.22	60.5
MW-3	26-Jun-12	TBS	40.38	14.81	0.887	7.67	6.42	174.6
MW-3	18-Sep-12	TBS	40.46	14.45	0.461	7.90	7.60	30.4
MW-3	6-Dec-12	TBS	40.6	11.86	0.772	4.92	7.45	99.9
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
MW-4	3-Jan-12	TBS	40.71	11.95	0.959	5.55	7.54	364.5
MW-4	22-Mar-12	TBS	40.74	14.18	0.985	5.55	7.29	54.8
MW-4	26-Jun-12	TBS	40.89	14.98	0.965	9.16	5.74	276.9
MW-4	18-Sep-12	TBS	41.00	13.26	0.880	5.68	7.44	61.5
MW-4	6-Dec-12	TBS	41.14	12.22	0.909	4.33	7.38	75.3

NM - Not Measured

TBS - To Be Surveyed

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

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	250*	1,000*
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
IW	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
IW	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
IW	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
IW	30-Dec-08	NOT SAMPLED - LOW YIELD								
IW	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
IW	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
IW	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
IW	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
IW	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
IW	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
IW	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
IW	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
IW	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
IW	03-Jan-12	<2.0	<2.0	<2.0	<4.0	0.19	5.4	<5.0	140,000	172,000
IW	22-Mar-12	<5.0	<5.0	<5.0	<10	0.37	5.4	<5.0	150,000	170,000
IW	26-Jun-12	<5.0	<5.0	<5.0	<10	<0.25	10	<5.0	130,000	177,000
IW	18-Sep-12	<5.0	<5.0	<5.0	<10	<0.25	<3.0	<15	120,000	170,000
IW	06-Dec-12	<10	<10	<10	<20	<0.50	6.9	<5.0	110,000	159,000
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

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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**	**250***	**1,000***
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
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-1	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	820
MW-1	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	800
MW-1	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	11	790
MW-1	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	654
MW-1	06-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	10	610
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

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Analytical Method		**8021B/8260B**				**8015B**	**8015B**	**8015B**	**300.0**	**SM 2540C**
New Mexico WQCC		**10**	**750**	**750**	**620**	**NE**	**NE**	**NE**	**250***	**1,000***
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-2	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	760
MW-2	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	690
MW-2	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	610
MW-2	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	30	615
MW-2	06-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	500
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
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

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Analytical Method		8021B/8260B				8015B	8015B	8015B	300.0	SM 2540C
New Mexico WQCC		10	750	750	620	NE	NE	NE	250*	1,000*
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-3	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	23	720
MW-3	22-Mar-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	670
MW-3	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	555
MW-3	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	690
MW-3	06-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	600
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
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830

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***	***250****	***1,000****
MW-4	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	19	1,100
MW-4	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	660
MW-4	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	1,010
MW-4	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	660
MW-4	06-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	760

NOTE: NE = Not Established

* Protective of domestic water supplies (NMAC 20.6.2.3103(b))

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
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100/2,500*			*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
Treatment Zone	#1	1)N 36° 23.358' W 106° 52.011' 2)N 36° 23.395' W 106° 51.925' 3)N 36° 23.362' W 106° 50.840' 4)N 36° 23.327' W 106° 51.932	3-Jan-12	1.5	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21.0
Treatment Zone	#1	1)N 36.389600° W 106.867612° 2)N 36.389565° W 106.865722° 3)N 36.389158° W 106.865205° 4)N 36.389087° W 106.864053°	22-Mar-12	0.5	<0.25	<0.25	<0.25	<0.50	<25	**310**	**340**	<15

TABLE 3
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
Treatment Zone	#1	1)N 36.38936° W 106.86703° 2)N 36.39032° W 106.86684° 3)N 36.38916° W 106.86445° 4)N 36.38981° W 106.86572°	26-Jun-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**140**	**400**	<15
Treatment Zone	#1	1)N 36.38947° W 106.86750° 2)N 36.39030° W 106.86658° 3)N 36.38888° W 106.86435° 4)N 36.38928° W 106.86491°	18-Sep-12	0.5	<0.50	<0.50	<0.50	<1.0	<50	**2,800**	**4,200**	21
Treatment Zone	#1	1)N 36.38915° W 106.86651° 2)N 36.38985° W 106.86630° 3)N 36.38914° W 106.86491° 4)N 36.38950° W 106.86748°	6-Dec-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**960**	**3,000**	31

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
		NMOCD Rule 36 Threshold			50 BTEX (Benzene <10 ppm)				100			500
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	6
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	48
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	10
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	22
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	18
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	<15
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	<30
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	54
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	45
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	15
Cell #1 Vadose Zone	VZ-1	N 36° 23.378' W 106° 52.055'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	3.4
Cell #1 Vadose Zone	VZ-1	N 36.388735° W 106.865537°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	9.9

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
Cell #1 Vadose Zone	VZ-1	N 36.38923° W 106.86654°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	34
Cell #1 Vadose Zone	VZ-1	N 36.38961° W 106.86775°	18-Sep-12	7.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #1 Vadose Zone	VZ-1	N 36.38918° W 106.86676°	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	**240**	**830**	66
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	8.3
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	16
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	8.9
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	16
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	6.0
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	<15
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	<30
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	<15
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	<7.5

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
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	<7.5
Cell #2 Vadose Zone	VZ-2	N 36° 23.406' W 106° 52.019'	3-Jan-12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<1.5
Cell #2 Vadose Zone	VZ-2	N 36.390158° W 106.866210°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.38990° W 106.86647°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.39001° W 106.86586°	18-Sep-12	7	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	<15
Cell #2 Vadose Zone	VZ-2	N 36.8971° W 106.86604°	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
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	5.1
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	22
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	28
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	17
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	20
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	<15

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)	Chloride (mg/kg)
		Laboratory Analytyical Method			8021/8260B				8015M/8015B			300.0
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	43
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	<15
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	7.9
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	6.3
Cell #3 Vadose Zone	VZ-3	N 36° 23.334' W 106° 51.864'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	2.2
Cell #3 Vadose Zone	VZ-3	N 36.389367° W 106.864533°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #3 Vadose Zone	VZ-3	N 36.38935° W 106.86406°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
Cell #3 Vadose Zone	VZ-3	N 36.38919° W 106.86446°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #3 Vadose Zone	VZ-3	N 36.38894° W 106.86417°	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	**71**	**150**	<7.5
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	<7.5
Cell #4 Vadose Zone	VZ-4	N 36° 23.341' W 106° 51.736'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<1.5

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			300.0
Cell #4 Vadose Zone	VZ-4	N 36.389355° W 106.863260°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86303°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86248°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38930° W 106.86311°	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<49	<7.5

SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

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

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 4th QUARTER 2012

NW¼ NW¼, SECTION 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 4th QUARTER 2012

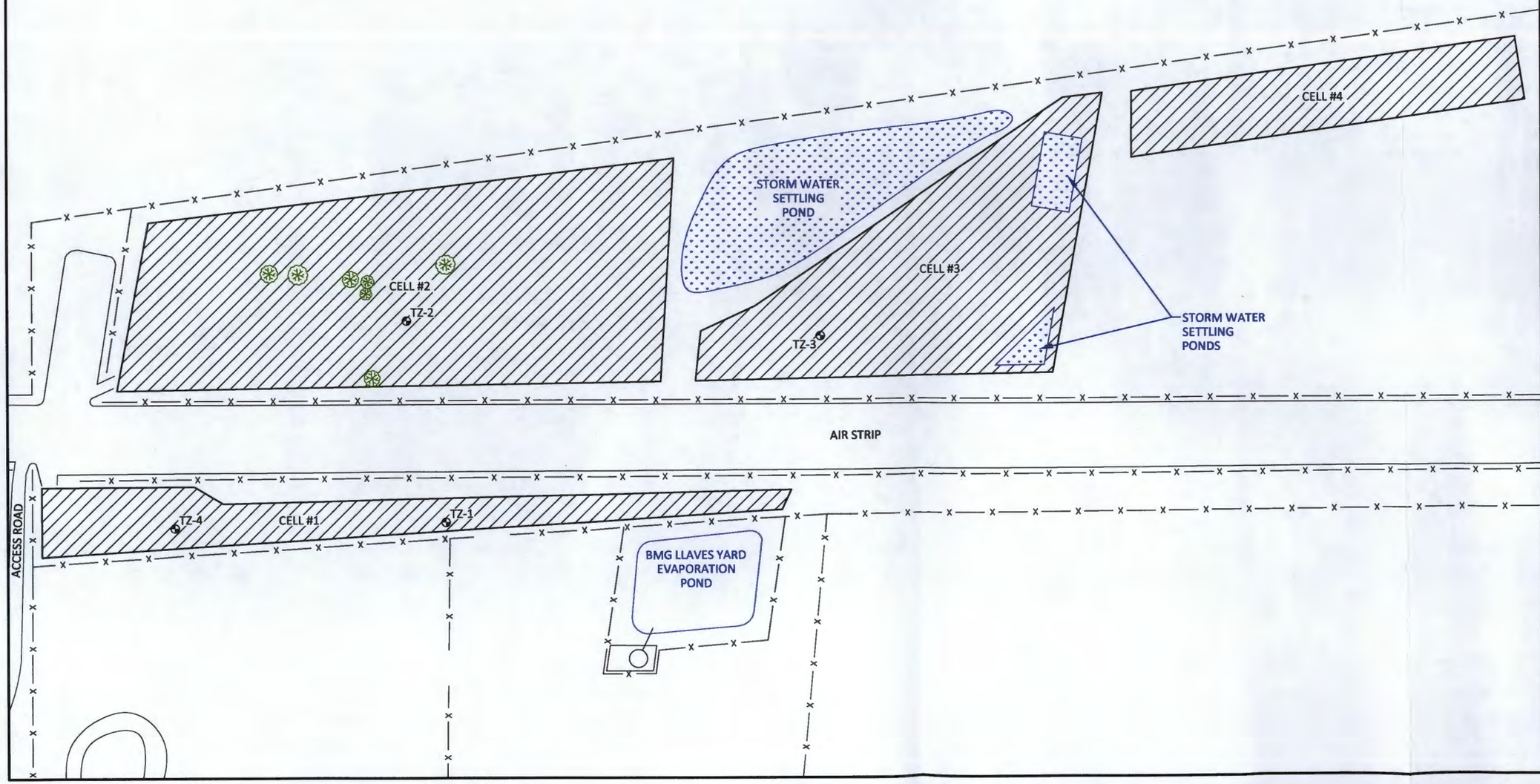
NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

SUMMARY OF 4TH QUARTER 2012 TREATMENT ZONE MONITORING DECEMBER 2012

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH			CHLORIDE (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
6-Dec-12	<0.050	<0.050	<0.050	<0.10	<5.0	**960**	**3,000**	31

TREATMENT ZONE MONITORING LOCATIONS DECEMBER 2012

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)
TZ-1	N 36.38915 W 106.86651	0.5
TZ-2	N 36.38985 W 106.86630	0.5
TZ-3	N 36.38914 W 106.86491	0.5
TZ-4	N 36.38950 W 106.86748	0.5



Animas Environmental Services, LLC

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

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

SUMMARY OF 4TH QUARTER 2012
VADOSE ZONE MONITORING
DECEMBER 2012

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			CHLORIDE (mg/kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	VZ-1	N 36.38918 W 106.86676	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	**240**	**830**	66
CELL #2	VZ-2	N 36.38971 W 106.86604	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
CELL #3	VZ-3	N 36.38894 W 106.86417	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	**71**	**150**	<7.5
CELL #4	VZ-4	N 36.38930 W 106.86311	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<49	<7.5

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

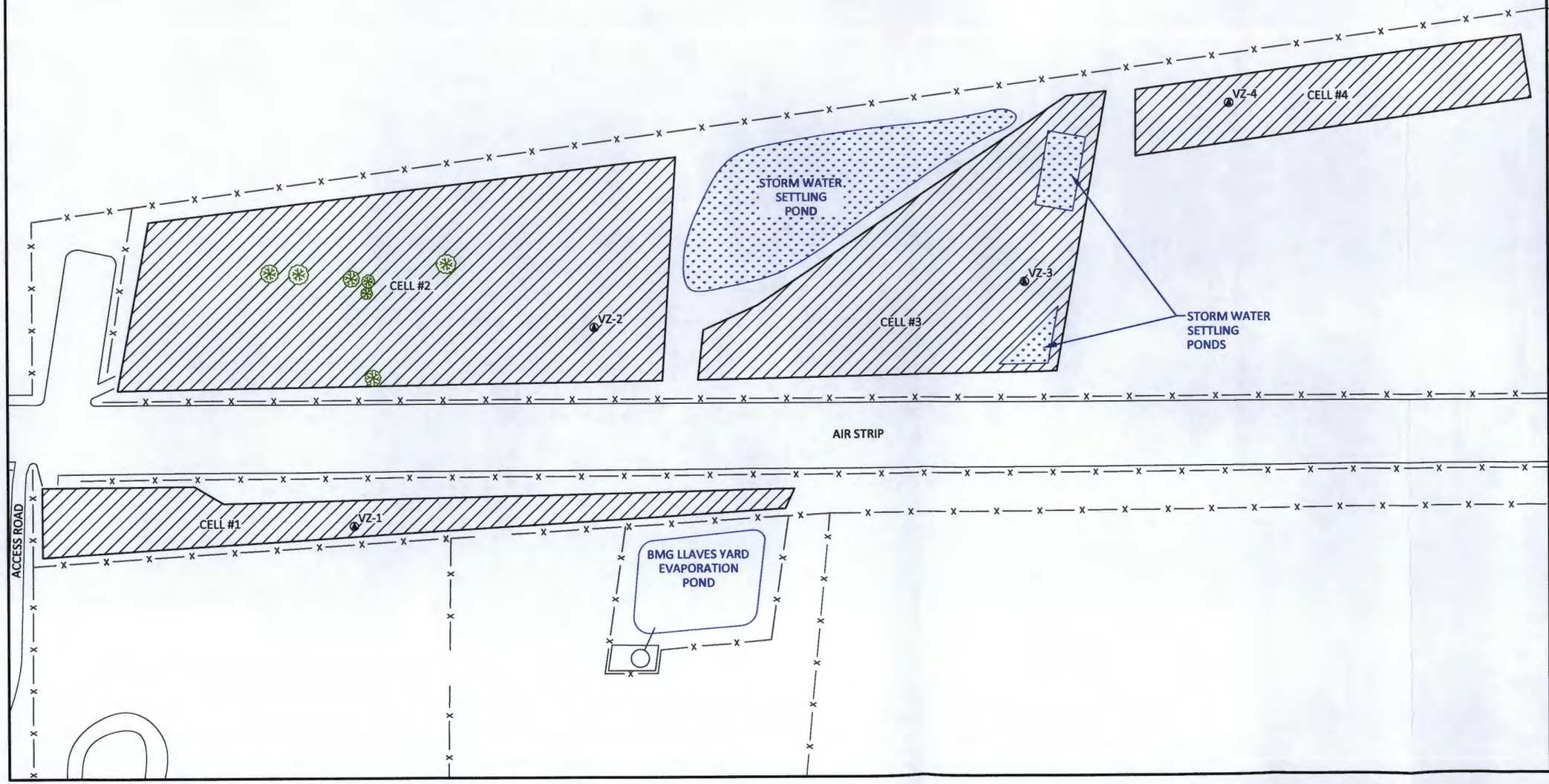


FIGURE 3

BENSON-MONTIN-GREER
VADOSE ZONE MONITORING
LOCATIONS AND RESULTS
4th QUARTER 2012

NW¼ NW¼, SECTION 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

AES
Animas Environmental Services, LLC

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

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: L. LAMONE

Project No.: AES 040605
Date: 12-6-2012
Time: 1106
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	1115		40.33		
MW-2	1112		41.38		WELL CAP WAS OPEN
MW-3	1106		40.60		
MW-4	1118		41.14		
Interstitial	1122		9.88		

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

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

Project: GW & Landfarm Sampling
Site: BMG Llaves Yard Evaporation Pond
Location: Rio Arriba County, New Mexico
Tech: L. Lamone

Project No.: AES 040605
Date: 12-6-2012
Time: 0830
Form: 1 of 1

Sample I.D.	Time	Latitude	Longitude	Sample Depth (ft.)	OVM - PID (ppm)	Notes / Observations
VZ-4	0900	N36.38930	W106.86311	5'	N/A	
VZ3	0930	N36.38894	W106.86417	5'	N/A	Clayish soil
VZ-2	1000	N36.38971	W106.86604	3.5'	N/A	Reddish soil
VZ-1	1025	N36 38918	W106 86676	3.5'	N/A	
		Sample Depth all below NATURAL soil.				

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: ~~B. Willis~~ L. LaMone
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 12-6-2017
Arrival Time: 1149
Air Temp: 49° F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

Initial D.T.W. (ft): 40.33 **Time:** 1115 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.33 **Time:** 1151 *(taken prior to purging well)*
Final D.T.W. (ft): 45.25 **Time:** 1205 *(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
1156	11.72	0.904	3.69	7.70	74.2	1st bailer	Clear H2O
1200	11.84	0.902	3.26	7.55	91.9	1.0 gal	Tan H2O
1204	11.82	0.846	4.90	7.52	92.6	1.5 gal.	

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:

5.22 H2O Column
0.85 Volumn
2.50 purged

Recharge slow to none:
Only purged 1.5 gal. H2O
No sheen. Well dry after.

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: [redacted] L. Lamore
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 12-6-2012
Arrival Time: 1218
Air Temp: [redacted] 50° F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Initial D.T.W. (ft): 41.38 **Time:** 11:12 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 41.38 **Time:** 12:21 *(taken prior to purging well)*
Final D.T.W. (ft): 45.27 **Time:** 1236 *(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
1227	11.28	0.897	2.80	7.60	99.6	1st Bailer	Clear H2o
1231	11.29	0.897	2.40	7.54	94.1	2nd Bailer	Tan H2o
1237	11.02	0.899	4.21	7.59	93.0	1.5 gal	Tan H2o

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:	
4.16 H2o column	Well re-charge none to very slow.
0.68 volume	Only purged 1.5 gal. H2O
2.00 purged, to be	No sheen no odor.

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-3	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond
Project No.: AES 040605
Location: Llaves, Rio Arriba County, New Mexico
Date: 12-6-2012
Project: Groundwater Monitoring and Sampling
Arrival Time: 1248
Sampling Technician: ~~N. Willis~~ L. Lamone
Air Temp: 52° F
Purge / No Purge: Purge
T.O.C. Elev. (ft): TBS
Well Diameter (in): 2
Total Well Depth (ft): 45.59
Initial D.T.W. (ft): 40.60 **Time:** 1106 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.60 **Time:** 1251 *(taken prior to purging well)*
Final D.T.W. (ft): 45.25 **Time:** 1306 *(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
1258	12.05	0.860	3.32	7.48	103.5	1st Bailer	Clear H2O
1301	12.00	0.841	4.21	7.52	99.3	1.0 gal	Lt Tan H2O
1307	11.86	0.772	4.92	7.45	99.9	1.5 gal	" " "

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

Disposal of Purged Water: onto H2O
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:
4.99 H2O column
0.81 Volume
2.45 to be Purged

Only purged 1.5 gal. H2O.
Well dry. No recharge or very slow.

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: L. LamonE
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 12-6-2012
Arrival Time: 1120
Air Temp: 49° F
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

Initial D.T.W. (ft): 1118 **Time:** 41.14 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 1120 **Time:** 41.14 *(taken prior to purging well)*
Final D.T.W. (ft): 1140 **Time:** 45.26 *(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
1129	12.58	0.899	4.44	7.43	75.5	1st bailers	Clear H_2O
1136	12.22	0.909	4.33	7.38	75.3	1.5 gal	

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:
4.46 Column
0.73 volume
2.0 gal purge

Well re-charge is slow to none!
Sampled @ 1.5 gal... well dry!

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~~ L. LaMone
Purge / No Purge: Purge
Well Diameter (in): ~~8~~ 8" er
Initial D.T.W. (ft): 9.88 **Time:** 1122 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.88 **Time:** 1328 *(taken prior to purging well)*
Final D.T.W. (ft): 10.06 **Time:** 1352 *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 040605
Date: 12-6-2012
Arrival Time: 1326
Air Temp: 52° 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
1338	11.88	171.6	.87	6.54	27.8	1.0 gal	H2O yellowish
1342	11.01	172.2	0.82	6.54	27.2	3.0 gal.	Has slight
1345	10.37	172.4	0.53	6.55	29.8	5.0 gal	sheen.
1349	9.80	172.7	1.89	6.52	37.6	7.0 gal	
1354	9.47	172.2	0.89	6.53	51.2	9.75 gal	

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 (300.0) and TDS (2540C) (1 - 500 mL plastic w/ no preserve)

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

Notes/Comments:

2.22 H2o Column
3.26 (Use 6" PVC)
9.75

revised: 08/10/09

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

December 27, 2012

Debbie Watson

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

RE: BMG Llaves Landfarm/Evaporation Pond OrderNo.: 1212358

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/7/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1212358**
Date Reported: **12/27/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: BMG Llaves Landfarm/Evaporation Pon
Lab ID: 1212358-001 **Matrix:** AQUEOUS

Client Sample ID: MW-1
Collection Date: 12/6/2012 12:04:00 PM
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/8/2012 12:39:41 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/8/2012 12:39:41 AM
Surr: DNOP	118	79.5-166		%REC	1	12/8/2012 12:39:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/13/2012 1:38:32 AM
Surr: BFB	87.6	51.9-148		%REC	1	12/13/2012 1:38:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	12/13/2012 1:38:32 AM
Toluene	ND	1.0		µg/L	1	12/13/2012 1:38:32 AM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2012 1:38:32 AM
Xylenes, Total	ND	2.0		µg/L	1	12/13/2012 1:38:32 AM
Surr: 4-Bromofluorobenzene	92.3	69.7-152		%REC	1	12/13/2012 1:38:32 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	10	2.5		mg/L	5	12/7/2012 10:21:11 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JML**
Total Dissolved Solids	610	200		mg/L	1	12/13/2012 4:29:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 12:37:00 PM
Lab ID: 1212358-002
Matrix: AQUEOUS
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/8/2012 1:01:04 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/8/2012 1:01:04 AM
Surr: DNOP	119	79.5-166		%REC	1	12/8/2012 1:01:04 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	12/13/2012 2:07:11 AM
Surr: BFB	86.7	51.9-148		%REC	2	12/13/2012 2:07:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	12/13/2012 2:07:11 AM
Toluene	ND	2.0		µg/L	2	12/13/2012 2:07:11 AM
Ethylbenzene	ND	2.0		µg/L	2	12/13/2012 2:07:11 AM
Xylenes, Total	ND	4.0		µg/L	2	12/13/2012 2:07:11 AM
Surr: 4-Bromofluorobenzene	90.0	69.7-152		%REC	2	12/13/2012 2:07:11 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	32	2.5		mg/L	5	12/7/2012 10:46:02 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JML**
Total Dissolved Solids	500	200		mg/L	1	12/13/2012 4:29:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 1:07:00 PM
Lab ID: 1212358-003 **Matrix:** AQUEOUS **Received Date:** 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/8/2012 10:46:52 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/8/2012 10:46:52 AM
Surr: DNOP	120	79.5-166		%REC	1	12/8/2012 10:46:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	12/13/2012 2:35:56 AM
Surr: BFB	86.2	51.9-148		%REC	2	12/13/2012 2:35:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	12/13/2012 2:35:56 AM
Toluene	ND	2.0		µg/L	2	12/13/2012 2:35:56 AM
Ethylbenzene	ND	2.0		µg/L	2	12/13/2012 2:35:56 AM
Xylenes, Total	ND	4.0		µg/L	2	12/13/2012 2:35:56 AM
Surr: 4-Bromofluorobenzene	89.9	69.7-152		%REC	2	12/13/2012 2:35:56 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	22	2.5		mg/L	5	12/7/2012 11:10:51 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JML**
Total Dissolved Solids	600	200		mg/L	1	12/13/2012 4:29:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 11:36:00 AM
Lab ID: 1212358-004
Matrix: AQUEOUS
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/8/2012 11:08:30 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/8/2012 11:08:30 AM
Surr: DNOP	119	79.5-166		%REC	1	12/8/2012 11:08:30 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/13/2012 3:04:45 AM
Surr: BFB	86.3	51.9-148		%REC	1	12/13/2012 3:04:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	12/13/2012 3:04:45 AM
Toluene	ND	1.0		µg/L	1	12/13/2012 3:04:45 AM
Ethylbenzene	ND	1.0		µg/L	1	12/13/2012 3:04:45 AM
Xylenes, Total	ND	2.0		µg/L	1	12/13/2012 3:04:45 AM
Surr: 4-Bromofluorobenzene	90.3	69.7-152		%REC	1	12/13/2012 3:04:45 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	14	2.5		mg/L	5	12/7/2012 11:35:41 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JML**
Total Dissolved Solids	760	200		mg/L	1	12/13/2012 4:29:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Interstitial Well
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 1:54:00 PM
Lab ID: 1212358-005
Matrix: AQUEOUS
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **MMD**
Diesel Range Organics (DRO)	6.9	1.0		mg/L	1	12/8/2012 11:30:11 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/8/2012 11:30:11 AM
Surr: DNOP	145	79.5-166		%REC	1	12/8/2012 11:30:11 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	12/13/2012 3:33:28 AM
Surr: BFB	78.1	51.9-148		%REC	10	12/13/2012 3:33:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	10		µg/L	10	12/13/2012 3:33:28 AM
Toluene	ND	10		µg/L	10	12/13/2012 3:33:28 AM
Ethylbenzene	ND	10		µg/L	10	12/13/2012 3:33:28 AM
Xylenes, Total	ND	20		µg/L	10	12/13/2012 3:33:28 AM
Surr: 4-Bromofluorobenzene	77.3	69.7-152		%REC	10	12/13/2012 3:33:28 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	110000	5000	*	mg/L	10000	12/13/2012 9:34:28 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **JML**
Total Dissolved Solids	159000	200		mg/L	1	12/13/2012 4:29:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #1 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 10:25:00 AM
Lab ID: 1212358-006
Matrix: MEOH (SOIL)
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	240	51		mg/Kg	5	12/10/2012 4:59:49 PM
Motor Oil Range Organics (MRO)	830	250		mg/Kg	5	12/10/2012 4:59:49 PM
Surr: DNOP	89.8	72.4-120		%REC	5	12/10/2012 4:59:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/7/2012 4:37:03 PM
Surr: BFB	89.2	84-116		%REC	1	12/7/2012 4:37:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/7/2012 4:37:03 PM
Toluene	ND	0.050		mg/Kg	1	12/7/2012 4:37:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/7/2012 4:37:03 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/7/2012 4:37:03 PM
Surr: 4-Bromofluorobenzene	96.1	80-120		%REC	1	12/7/2012 4:37:03 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	66	7.5		mg/Kg	5	12/10/2012 11:49:54 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #2 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 10:00:00 AM
Lab ID: 1212358-007
Matrix: MEOH (SOIL)
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/10/2012 12:15:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2012 12:15:26 PM
Surr: DNOP	97.0	72.4-120		%REC	1	12/10/2012 12:15:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/7/2012 5:05:45 PM
Surr: BFB	88.6	84-116		%REC	1	12/7/2012 5:05:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/7/2012 5:05:45 PM
Toluene	ND	0.050		mg/Kg	1	12/7/2012 5:05:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/7/2012 5:05:45 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/7/2012 5:05:45 PM
Surr: 4-Bromofluorobenzene	94.6	80-120		%REC	1	12/7/2012 5:05:45 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	ND	7.5		mg/Kg	5	12/10/2012 12:14:43 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #3 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 9:30:00 AM
Lab ID: 1212358-008
Matrix: MEOH (SOIL)
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	71	10		mg/Kg	1	12/10/2012 12:37:10 PM
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	12/10/2012 12:37:10 PM
Surr: DNOP	93.8	72.4-120		%REC	1	12/10/2012 12:37:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/7/2012 5:34:34 PM
Surr: BFB	89.5	84-116		%REC	1	12/7/2012 5:34:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/7/2012 5:34:34 PM
Toluene	ND	0.050		mg/Kg	1	12/7/2012 5:34:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/7/2012 5:34:34 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/7/2012 5:34:34 PM
Surr: 4-Bromofluorobenzene	95.7	80-120		%REC	1	12/7/2012 5:34:34 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	ND	7.5		mg/Kg	5	12/10/2012 1:16:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Cell #4 Vadose Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 9:00:00 AM
Lab ID: 1212358-009
Matrix: MEOH (SOIL)
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/10/2012 12:58:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2012 12:58:45 PM
Surr: DNOP	106	72.4-120		%REC	1	12/10/2012 12:58:45 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/7/2012 6:03:23 PM
Surr: BFB	91.0	84-116		%REC	1	12/7/2012 6:03:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/7/2012 6:03:23 PM
Toluene	ND	0.050		mg/Kg	1	12/7/2012 6:03:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/7/2012 6:03:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/7/2012 6:03:23 PM
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	12/7/2012 6:03:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	ND	7.5		mg/Kg	5	12/10/2012 1:29:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Treatment Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 12/6/2012 10:58:00 AM
Lab ID: 1212358-010
Matrix: MEOH (SOIL)
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	960	490		mg/Kg	50	12/10/2012 3:54:45 PM
Motor Oil Range Organics (MRO)	3000	2400		mg/Kg	50	12/10/2012 3:54:45 PM
Surr: DNOP	0	72.4-120	S	%REC	50	12/10/2012 3:54:45 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/7/2012 6:32:10 PM
Surr: BFB	94.6	84-116		%REC	1	12/7/2012 6:32:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/7/2012 6:32:10 PM
Toluene	ND	0.050		mg/Kg	1	12/7/2012 6:32:10 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/7/2012 6:32:10 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/7/2012 6:32:10 PM
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1	12/7/2012 6:32:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	31	7.5		mg/Kg	5	12/10/2012 1:53:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Trip Blank
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date:
Lab ID: 1212358-011
Matrix: TRIP BLANK
Received Date: 12/7/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	12/14/2012 12:06:05 AM
Toluene	ND	1.0		µg/L	1	12/14/2012 12:06:05 AM
Ethylbenzene	ND	1.0		µg/L	1	12/14/2012 12:06:05 AM
Xylenes, Total	ND	2.0		µg/L	1	12/14/2012 12:06:05 AM
Surr: 4-Bromofluorobenzene	93.6	69.7-152		%REC	1	12/14/2012 12:06:05 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212358**

27-Dec-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-5184**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **5184**	RunNo: **7413**
Prep Date: **12/10/2012**	Analysis Date: **12/10/2012**	SeqNo: **214833** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-5184**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **5184**	RunNo: **7413**
Prep Date: **12/10/2012**	Analysis Date: **12/10/2012**	SeqNo: **214834** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212358**

27-Dec-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R7388**	RunNo: **7388**							
Prep Date:	Analysis Date: **12/7/2012**	SeqNo: **213960**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R7388**	RunNo: **7388**							
Prep Date:	Analysis Date: **12/7/2012**	SeqNo: **213961**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.3	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R7388**	RunNo: **7388**							
Prep Date:	Analysis Date: **12/8/2012**	SeqNo: **214014**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R7388**	RunNo: **7388**							
Prep Date:	Analysis Date: **12/8/2012**	SeqNo: **214015**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	93.3	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R7497**	RunNo: **7497**							
Prep Date:	Analysis Date: **12/13/2012**	SeqNo: **217278**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R7497**	RunNo: **7497**							
Prep Date:	Analysis Date: **12/13/2012**	SeqNo: **217279**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212358**

27-Dec-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-5158**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **5158**	RunNo: **7361**
Prep Date: **12/7/2012**	Analysis Date: **12/7/2012**	SeqNo: **213505** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.9	72.4	120			

Sample ID **LCS-5158**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **5158**	RunNo: **7361**
Prep Date: **12/7/2012**	Analysis Date: **12/7/2012**	SeqNo: **213516** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.6	47.4	122			
Surr: DNOP	4.2		5.000		84.0	72.4	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212358**

27-Dec-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-5160**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **PBW**	Batch ID: **5160**	RunNo: **7361**
Prep Date: **12/7/2012**	Analysis Date: **12/7/2012**	SeqNo: **213899** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		103	79.5	166			

Sample ID **LCS-5160**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSW**	Batch ID: **5160**	RunNo: **7361**
Prep Date: **12/7/2012**	Analysis Date: **12/7/2012**	SeqNo: **213900** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.6	1.0	5.000	0	112	64.4	132			
Surr: DNOP	0.48		0.5000		96.6	79.5	166			

Sample ID **LCSD-5160**	SampType: **LCSD**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSS02**	Batch ID: **5160**	RunNo: **7361**
Prep Date: **12/7/2012**	Analysis Date: **12/7/2012**	SeqNo: **213901** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	64.4	132	2.75	20	
Surr: DNOP	0.49		0.5000		97.9	79.5	166	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212358**

27-Dec-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R7465**	RunNo: **7465**
Prep Date:	Analysis Date: **12/12/2012**	SeqNo: **216511** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		92.3	51.9	148			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R7465**	RunNo: **7465**
Prep Date:	Analysis Date: **12/12/2012**	SeqNo: **216512** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0	108	75.9	119			
Surr: BFB	20		20.00		97.6	51.9	148			

Sample ID **1212358-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R7465**	RunNo: **7465**
Prep Date:	Analysis Date: **12/12/2012**	SeqNo: **216515** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.6	63.5	131			
Surr: BFB	20		20.00		98.5	51.9	148			

Sample ID **1212358-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R7465**	RunNo: **7465**
Prep Date:	Analysis Date: **12/12/2012**	SeqNo: **216516** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	101	63.5	131	1.67	16.7	
Surr: BFB	19		20.00		96.9	51.9	148	0	0	

Sample ID **B26**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R7477**	RunNo: **7477**
Prep Date:	Analysis Date: **12/13/2012**	SeqNo: **217218** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	18		20.00		88.7	51.9	148			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R7477**	RunNo: **7477**
Prep Date:	Analysis Date: **12/13/2012**	SeqNo: **217219** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	18		20.00		87.7	51.9	148			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212358**

27-Dec-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R7465**	RunNo: **7465**
Prep Date:	Analysis Date: **12/12/2012**	SeqNo: **216536** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		98.0	69.7	152			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R7465**	RunNo: **7465**
Prep Date:	Analysis Date: **12/12/2012**	SeqNo: **216537** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.2	80	120			
Toluene	20	1.0	20.00	0	98.3	80	120			
Ethylbenzene	20	1.0	20.00	0	99.7	80	120			
Xylenes, Total	60	2.0	60.00	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		101	69.7	152			

Sample ID **B26**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R7477**	RunNo: **7477**
Prep Date:	Analysis Date: **12/13/2012**	SeqNo: **217365** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		95.9	69.7	152			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R7477**	RunNo: **7477**
Prep Date:	Analysis Date: **12/13/2012**	SeqNo: **217367** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	21	1.0	20.00	0	103	80	120			
Xylenes, Total	61	2.0	60.00	0	102	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		102	69.7	152			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212358**

27-Dec-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-5234**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **5234**	RunNo: **7484**
Prep Date: **12/12/2012**	Analysis Date: **12/13/2012**	SeqNo: **216959** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-5234**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **5234**	RunNo: **7484**
Prep Date: **12/12/2012**	Analysis Date: **12/13/2012**	SeqNo: **216960** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Qualifiers:

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

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1212358

Received by/date: 12/07/12

Logged By: Lindsay Mangin 12/7/2012 10:00:00 AM

Completed By: Lindsay Mangin 12/7/2012 11:40:27 AM

Reviewed By: IO 12/07/2012

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services	X Standard ☐ Rush
	Project Name: BMG Llaves Landfarm/ Evaporation Pond
Mailing Address: 624 E Comanche Farmington NM 87401	Project #: AES 040605
Phone #: 505-564-2281	Project Manager: D. Watson
email or Fax#: 505-324-2022	Sampler: Lavina Lamone
QA/QC Package: X Standard ☐ Level 4 (Full Validation)	On Ice: Yes No
Accreditation: ☐ NELAP ☐ Other ☐ EDD (Type)	Sample Temperature: 1.6

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1211558	BTEX 8021	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	TDS SM2540C	Air Bubbles (Y or N)
2012	1204	H_2O	MW-1	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-001	X	X	X	X	
6-2012	1237	H_2O	MW-2	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-002	X	X	X	X	
6-2012	1307	H_2O	MW-3	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-003	X	X	X	X	
6-2012	1316	H_2O	MW-4	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-004	X	X	X	X	
6-2012	1354	H_2O	Interstitial Well	6-40mL glass 1-500mL plastic	5 - HCl 2 - Non	-005	X	X	X	X	
6-2012	1025	Soil	Cell #1 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-006	X	X	X		
6-2012	1000	Soil	Cell #2 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-007	X	X	X		
2012	0930	Soil	Cell #3 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-008	X	X	X		
2012	0900	Soil	Cell #4 Vadose Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-009	X	X	X		
2012	1058	Soil	Treatment Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-010	X	X	X		
		H_2O	Trip Blank	2-40mL glass	2 - HCl	-011	X				

	Time:	Relinquished by:	Received by:	Date	Time
2	1647		Christy Walker	12/6/12	1647
:	Time:	Relinquished by:	Received by:	Date	Time
-	1715	Christy Walker		12/07/12	1000

Remarks:

essary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. Th

BMG

BENSON-MONTIN-GREER DRILLING CORP.

4900 College Boulevard Farmington, NM 87402 Office: 505.325.8874 Fax: 505.327.9207

February 11, 2013

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

Re: 2012 ANNUAL REPORT CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY, PERMIT No. NM-02-0004
Section 20, Township 25 North, Range 1 East, Rio Arriba County

Dear Mr. Jones:

Please find enclosed the referenced annual report for 2012.

Detailed quarterly reports for 4th Qtr of 2011 and the 1st, 2nd, 3rd, and 4th Qtrs. of 2012 that included figures of sample locations, chains of custody, and laboratory analyses have been sent to your office during the past year. Enclosed are copies of Summary Tables from the 4th Qtr 2012 report that includes the data from all the mentioned reports. Please note, as stated in the report dated February 7, 2012 covering the December 2012 sampling, we will be conducting additional, verifying vadose zone sampling as soon as the ground thaws enough to allow sampling.

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

Sincerely,

Mike Dimond

Mike Dimond
Vice President

Cc: NMOCD, Aztec; File

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
IW	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
IW	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
IW	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
IW	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
IW	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
IW	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
IW	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
IW	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
IW	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
IW	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
IW	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
IW	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
IW	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
IW	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
IW	3-Jan-12	TBS	9.70	8.33	187.0	0.31	5.89	308.1
IW	22-Mar-12	TBS	9.60	12.74	190.7	0.29	6.19	-42.1
IW	26-Jun-12	TBS	9.61	18.18	185.2	0.81	6.44	-82.7
IW	18-Sep-12	TBS	9.68	17.63	173.6	0.89	6.62	23.6
IW	6-Dec-12	TBS	9.88	9.47	172.2	0.89	6.53	51.2
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

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-1	3-Jan-12	TBS	38.95	11.48	0.918	4.25	7.11	383.8
MW-1	22-Mar-12	TBS	39.95	15.05	0.950	3.62	7.25	60.9
MW-1	26-Jun-12	TBS	40.09	13.03	0.940	8.04	5.78	280.4
MW-1	18-Sep-12	TBS	40.19	13.00	0.902	3.77	7.46	53.6
MW-1	6-Dec-12	TBS	40.33	11.82	0.846	4.90	7.52	92.6
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
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-2	3-Jan-12	TBS	40.91	10.67	0.997	3.21	8.54	262.2
MW-2	22-Mar-12	TBS	40.99	13.35	0.929	3.33	7.32	52.5
MW-2	26-Jun-12	TBS	41.13	13.01	0.921	5.72	6.19	200.9
MW-2	18-Sep-12	TBS	41.24	14.36	0.481	8.21	7.74	29.5
MW-2	6-Dec-12	TBS	41.38	11.02	0.899	4.21	7.59	93.0
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

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-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-3	3-Jan-12	TBS	40.13	11.53	0.874	3.52	7.50	303.1
MW-3	22-Mar-12	TBS	40.23	13.06	0.902	4.38	7.22	60.5
MW-3	26-Jun-12	TBS	40.38	14.81	0.887	7.67	6.42	174.6
MW-3	18-Sep-12	TBS	40.46	14.45	0.461	7.90	7.60	30.4
MW-3	6-Dec-12	TBS	40.6	11.86	0.772	4.92	7.45	99.9
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
MW-4	3-Jan-12	TBS	40.71	11.95	0.959	5.55	7.54	364.5
MW-4	22-Mar-12	TBS	40.74	14.18	0.985	5.55	7.29	54.8
MW-4	26-Jun-12	TBS	40.89	14.98	0.965	9.16	5.74	276.9
MW-4	18-Sep-12	TBS	41.00	13.26	0.880	5.68	7.44	61.5
MW-4	6-Dec-12	TBS	41.14	12.22	0.909	4.33	7.38	75.3

NM - Not Measured

TBS - To Be Surveyed

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

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***	***250****	***1,000****
Evaporation Pond Water	10-May-08	<10	37	<10	29	2.5	50	12	50,000	89,000
IW	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
IW	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
IW	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
IW	30-Dec-08	NOT SAMPLED - LOW YIELD								
IW	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
IW	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
IW	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
IW	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
IW	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
IW	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
IW	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
IW	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
IW	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
IW	03-Jan-12	<2.0	<2.0	<2.0	<4.0	0.19	5.4	<5.0	140,000	172,000
IW	22-Mar-12	<5.0	<5.0	<5.0	<10	0.37	5.4	<5.0	150,000	170,000
IW	26-Jun-12	<5.0	<5.0	<5.0	<10	<0.25	10	<5.0	130,000	177,000
IW	18-Sep-12	<5.0	<5.0	<5.0	<10	<0.25	<3.0	<15	120,000	170,000
IW	06-Dec-12	<10	<10	<10	<20	<0.50	6.9	<5.0	110,000	159,000
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

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**	**250***	**1,000***
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
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-1	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	820
MW-1	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	800
MW-1	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	11	790
MW-1	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	654
MW-1	06-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	10	610
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

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***	***250****	***1,000****
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-2	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	760
MW-2	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	690
MW-2	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	610
MW-2	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	30	615
MW-2	06-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	500
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
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

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	250*	1,000*
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-3	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	23	720
MW-3	22-Mar-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	670
MW-3	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	555
MW-3	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	690
MW-3	06-Dec-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	600
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
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830

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	250*	1,000*
MW-4	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	19	1,100
MW-4	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	660
MW-4	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	1,010
MW-4	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	660
MW-4	06-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	14	760

NOTE: NE = Not Established

* Protective of domestic water supplies (NMAC 20.6.2.3103(b))

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
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100/2,500*			*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
Treatment Zone	#1	1)N 36° 23.358' W 106° 52.011' 2)N 36° 23.395' W 106° 51.925' 3)N 36° 23.362' W 106° 50.840' 4)N 36° 23.327' W 106° 51.932	3-Jan-12	1.5	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21.0
Treatment Zone	#1	1)N 36.389600° W 106.867612° 2)N 36.389565° W 106.865722° 3)N 36.389158° W 106.865205° 4)N 36.389087° W 106.864053°	22-Mar-12	0.5	<0.25	<0.25	<0.25	<0.50	<25	**310**	**340**	<15

TABLE 3
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
Treatment Zone	#1	1)N 36.38936° W 106.86703° 2)N 36.39032° W 106.86684° 3)N 36.38916° W 106.86445° 4)N 36.38981° W 106.86572°	26-Jun-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**140**	**400**	<15
Treatment Zone	#1	1)N 36.38947° W 106.86750° 2)N 36.39030° W 106.86658° 3)N 36.38888° W 106.86435° 4)N 36.38928° W 106.86491°	18-Sep-12	0.5	<0.50	<0.50	<0.50	<1.0	<50	**2,800**	**4,200**	21
Treatment Zone	#1	1)N 36.38915° W 106.86651° 2)N 36.38985° W 106.86630° 3)N 36.38914° W 106.86491° 4)N 36.38950° W 106.86748°	6-Dec-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**960**	**3,000**	31

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			**300.0**
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100*			**500**
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	6
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	48
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	10
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	22
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	18
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	<15
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	<30
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	54
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	45
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	15
Cell #1 Vadose Zone	VZ-1	N 36° 23.378' W 106° 52.055'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	3.4
Cell #1 Vadose Zone	VZ-1	N 36.388735° W 106.865537°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	9.9

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			300.0
Cell #1 Vadose Zone	VZ-1	N 36.38923° W 106.86654°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	34
Cell #1 Vadose Zone	VZ-1	N 36.38961° W 106.86775°	18-Sep-12	7.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #1 Vadose Zone	VZ-1	N 36.38918° W 106.86676°	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	**240**	**830**	66
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	8.3
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	16
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	8.9
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	16
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	6.0
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	<15
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	<30
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	<15
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	<7.5

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

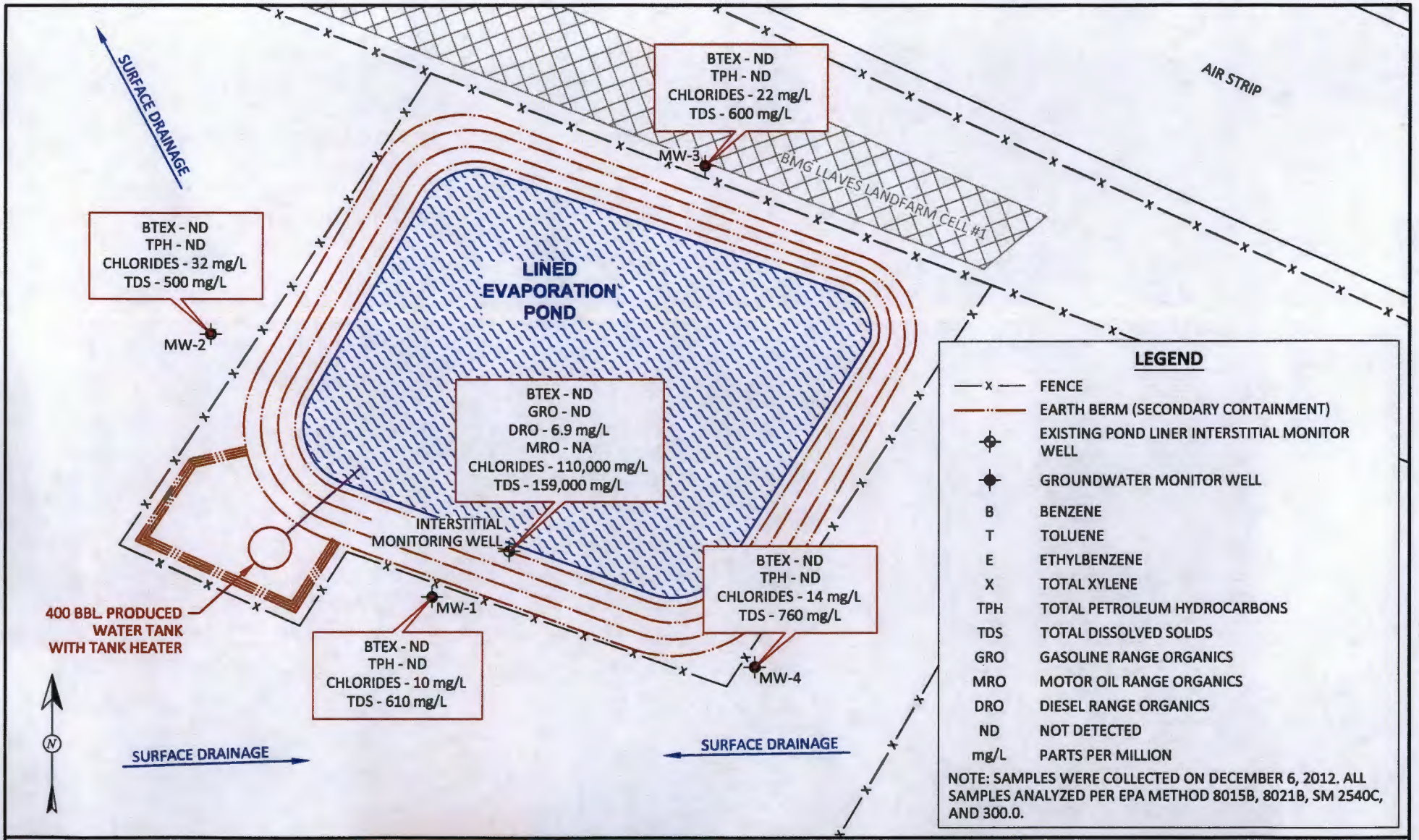
Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			300.0
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	<7.5
Cell #2 Vadose Zone	VZ-2	N 36° 23.406' W 106° 52.019'	3-Jan-12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<1.5
Cell #2 Vadose Zone	VZ-2	N 36.390158° W 106.866210°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.38990° W 106.86647°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.39001° W 106.86586°	18-Sep-12	7	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	<15
Cell #2 Vadose Zone	VZ-2	N 36.8971° W 106.86604°	6-Dec-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
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	5.1
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	22
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	28
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	17
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	20
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	<15

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			**300.0**
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	43
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	<15
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	7.9
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	6.3
Cell #3 Vadose Zone	VZ-3	N 36° 23.334' W 106° 51.864'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	2.2
Cell #3 Vadose Zone	VZ-3	N 36.389367° W 106.864533°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #3 Vadose Zone	VZ-3	N 36.38935° W 106.86406°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
Cell #3 Vadose Zone	VZ-3	N 36.38919° W 106.86446°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #3 Vadose Zone	VZ-3	N 36.38894° W 106.86417°	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	**71**	**150**	<7.5
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	<7.5
Cell #4 Vadose Zone	VZ-4	N 36° 23.341' W 106° 51.736'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<1.5

TABLE 4
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			300.0
Cell #4 Vadose Zone	VZ-4	N 36.389355° W 106.863260°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86303°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86248°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38930° W 106.86311°	6-Dec-12	5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<49	<7.5



SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

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

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 4th QUARTER 2012

NW¼ NW¼, SECTION 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

February 5, 2013

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

RE: 3rd Quarter 2012 Monitoring Report
BMG's Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Dear Mr. Jones:

As part of 3rd Quarter 2012 landfarm sampling, Animas Environmental Services, LLC (AES) completed: 1) evaporation pond quarterly groundwater monitoring and sampling, 2) treatment zone sampling, and 3) vadose zone sampling on September 18, 2012, 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

1.1 Evaporation Pond Sampling 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.

1.2 Evaporation Pond Groundwater Monitoring and Sampling

AES personnel completed the 3rd Quarter 2012 groundwater monitoring and sampling of the evaporation pond monitor wells on September 18, 2012. 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) – USEPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) – USEPA Method 8015B;
- Chlorides – USEPA Method 300.0; and
- Total Dissolved Solids (TDS) – Standard Method 2540C.
- RCRA 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag) – USEPA Methods 200.7, 200.8, and 245.1.

1.2.1 Groundwater Measurement Data

Prior to sample collection, AES measured depth to water and recorded temperature, pH, conductivity, and oxidation reduction potential (ORP) for each well. All data was recorded on Water Sample Collection Forms. Groundwater temperature ranged from 13.00°C (MW-1) to 17.63°C (IW). Conductivity readings were between 0.461 mS/cm (MW-3) and 173.6 mS/cm (IW). Field pH readings ranged from 6.62 to 7.74. Groundwater ORP ranged from 23.6 mV (IW) to 61.5 mV (MW-4). A summary of water quality data is included in Table 1, and Water Sample Collection Forms are included in Appendix A.

1.2.2 Groundwater Analytical Results

Analytical results from groundwater samples collected for the 3rd Quarter 2012 sampling event show that all of the wells sampled were below laboratory detection limits for BTEX, GRO, DRO, MRO, and therefore, below applicable New Mexico Water Quality Control Commission (WQCC) standards. 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, MW-3 and MW-4 were below laboratory detection limits or below applicable standards

for each metal analyzed. The interstitial well (IW) had a barium concentration of 50 mg/L, and MW-2 had a barium concentration just above applicable WQCC standards with 1.1 mg/L. Additionally, IW had arsenic and silver concentrations above applicable WQCC standards. Note that the laboratory detection limit for cadmium per EPA method 200.7 exceeded the EPA MCL of 0.01 mg/L in IW. The groundwater analytical results above laboratory detection limits have been summarized as follows:

- Arsenic: IW (0.71 mg/L);
- Barium: IW (50 mg/L), MW-2 (1.1 mg/L);
- Silver: IW (2.8 mg/L);
- Chlorides: IW (120,000 mg/L), MW-1 (11 mg/L), MW-2 (30 mg/L), MW-3 (23 mg/L), and MW-4 (16 mg/L);
- TDS: IW (170,000 mg/L), MW-1 (654 mg/L), MW-2 (615 mg/L), MW-3 (690 mg/L), and MW-4 (660 mg/L).

The analytical results for the groundwater samples collected for the 3rd Quarter 2012 sampling event are presented in Tables 2 and 3 and also on Figure 1. Groundwater analytical laboratory reports are included in Appendix A.

2.0 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 at a depth of 0.5 feet below ground surface (bgs). 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.

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.

2.1 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.

2.2 Treatment Zone Analytical Results

Laboratory analytical results are summarized as follows:

- BTEX and TPH-GRO concentrations were reported below laboratory detection limits;
- TPH concentrations were reported at 2,800 mg/kg DRO and 4,200 mg/kg MRO;
- The chloride concentration was reported at 21 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.

3.0 Vadose Zone Monitoring

As required by the NMOCD permit for this facility, 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 Hall. A Chain of Custody was completed at the time the samples were collected.

3.1 Laboratory Analytical Methods

Soil samples were analyzed for the following:

- BTEX per USEPA Method 8021B;
- 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 and 7471;

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 Vadose Zone Analytical Results

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

- Benzene and BTEX - below laboratory detection limits in each cell;
- TPH - below laboratory detection limits in each cell;
- Chloride - below laboratory detection limits in each cell;
- Arsenic, cadmium, cyanide, mercury, selenium, and silver - below the laboratory detection limits in each sample;
- Barium – ranged from 90 mg/kg (Cell #2) to 150 mg/kg (Cell #1);
- Chromium - Cell #1 (15 mg/kg), Cell #2 (5.2 mg/kg), Cell #3 (11 mg/kg), and Cell #4 (23 mg/kg);
- Lead - ranged from 2.8 mg/kg (Cell #2) to 7.3 mg/kg (Cell #4);

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 and 6, and laboratory reports are presented in Appendix A.

4.0 Conclusions and Recommendations

AES personnel conducted groundwater and interstitial well sampling along with landfarm sampling at the BMG Surface Waste Management Facility for the 3rd Quarter 2012 in September 2012. Based on the results of the September 2012 sampling event, groundwater analytical results from monitor wells MW-1 through MW-4 and the interstitial well (IW) were below laboratory detection limits for BTEX and TPH. Metals were recorded above applicable WQCC standards for barium (1.1 mg/L) in MW-2.

Groundwater samples from the interstitial well (IW) also had concentrations below laboratory detection limits for BTEX, TPH-GRO, TPH-DRO, and TPH-MRO. However, the IW had reported concentrations above the WQCC standard for chloride (120,000 mg/L) and TDS (170,000 mg/L). Metals reported above applicable WQCC standards in IW include arsenic (0.71 mg/L), barium (50 mg/L), and silver (2.8 mg/L). Note that the laboratory detection limit for cadmium per EPA method 200.7 exceeded the EPA MCL of 0.01 mg/L in IW.

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 TPH concentration was reported below laboratory detection limits for GRO and at 2,800 mg/kg DRO and 4,200 mg/kg MRO.

Results from vadose zone sampling showed that BTEX and TPH concentrations were reported below laboratory detection limits in all cells sampled. Chloride concentrations were also reported below laboratory detection limits; therefore, all cells remained below the NMOCD threshold of 500 mg/kg for chloride.

The fourth quarter 2012 sampling event of the evaporation pond monitor wells, treatment zone soils, and vadose zone soils occurred in December 2012, and the report is currently under final review.

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

Sincerely,

Kelsey Christiansen
Environmental Scientist

Elizabeth McNally, PE

Attachments:

Tables

Table 1. Water Quality and Well Data
Table 2. Summary of Groundwater Analytical Results
Table 3. Summary of Groundwater Metals Analytical Results
Table 4. Treatment Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 5. Vadose Zone Soil BTEX, TPH, and Chlorides Analytical Results
Table 6. Vadose Zone Soil Summary of Metals

Figures

Figure 1. Location of BMG Evaporation Pond and Monitor Well Locations and Concentrations, 3rd Quarter 2012
Figure 2. Treatment Zone Monitoring Locations and Results, 3rd Quarter 2012
Figure 3. Vadose Zone Monitoring Locations and Results, 3rd Quarter 2012

Appendix

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
1000 Rio Brazos Road
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
IW	10-May-08	TBS	9.41	11.82	213	NM	6.60	106.4
IW	21-Jul-08	TBS	9.61	18.68	362.7	0.20	6.51	-26.1
IW	9-Oct-08	TBS	9.86	19.01	183.7	0.98	6.11	-35.7
IW	30-Dec-08	TBS	12.00	NM - LOW YIELD WATER				
IW	25-Mar-09	TBS	9.87	8.51	209.9	1.79	6.00	12.6
IW	15-Jun-09	TBS	9.79	16.09	181.1	1.45	6.72	21.8
IW	16-Sep-09	TBS	9.77	20.87	335.5	0.11	6.77	-115.9
IW	11-Jan-10	TBS	9.77	7.73	160.7	1.78	6.70	-13.7
IW	16-Apr-10	TBS	9.71	9.54	181.0	0.42	7.06	NM
IW	8-Jul-10	TBS	9.70	19.47	148.9	2.92	6.84	-13.1
IW	12-Oct-10	TBS	9.88	19.37	176.1	0.42	6.67	-77.0
IW	19-Jan-11	TBS	9.83	7.72	184.5	1.71	6.40	-65.6
IW	28-Apr-11	TBS	9.79	12.54	176.6	4.33	NM	NM
IW	15-Jul-11	TBS	9.67	19.36	184.3	1.30	7.31	-100.6
IW	3-Jan-12	TBS	9.70	8.33	187.0	0.31	5.89	308.1
IW	22-Mar-12	TBS	9.60	12.74	190.7	0.29	6.19	-42.1
IW	26-Jun-12	TBS	9.61	18.18	185.2	0.81	6.44	-82.7
IW	18-Sep-12	TBS	9.68	17.63	173.6	0.89	6.62	23.6
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-1	3-Jan-12	TBS	38.95	11.48	0.918	4.25	7.11	383.8

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-1	22-Mar-12	TBS	39.95	15.05	0.950	3.62	7.25	60.9
MW-1	26-Jun-12	TBS	40.09	13.03	0.940	8.04	5.78	280.4
MW-1	18-Sep-12	TBS	40.19	13.00	0.902	3.77	7.46	53.6
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
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-2	3-Jan-12	TBS	40.91	10.67	0.997	3.21	8.54	262.2
MW-2	22-Mar-12	TBS	40.99	13.35	0.929	3.33	7.32	52.5
MW-2	26-Jun-12	TBS	41.13	13.01	0.921	5.72	6.19	200.9
MW-2	18-Sep-12	TBS	41.24	14.36	0.481	8.21	7.74	29.5
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

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-3	3-Jan-12	TBS	40.13	11.53	0.874	3.52	7.50	303.1
MW-3	22-Mar-12	TBS	40.23	13.06	0.902	4.38	7.22	60.5
MW-3	26-Jun-12	TBS	40.38	14.81	0.887	7.67	6.42	174.6
MW-3	18-Sep-12	TBS	40.46	14.45	0.461	7.90	7.60	30.4
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
MW-4	3-Jan-12	TBS	40.71	11.95	0.959	5.55	7.54	364.5
MW-4	22-Mar-12	TBS	40.74	14.18	0.985	5.55	7.29	54.8
MW-4	26-Jun-12	TBS	40.89	14.98	0.965	9.16	5.74	276.9
MW-4	18-Sep-12	TBS	41.00	13.26	0.880	5.68	7.44	61.5

NM - Not Measured

TBS - To Be Surveyed

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

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
IW	10-May-08	<5.0	50	6.8	25	0.56	58	8.0	140,000	220,000
IW	21-Jul-08	<5.0	12	<5.0	<10	1.0	8.8	<15	120,000	210,000
IW	09-Oct-08	<10	<10	<10	<20	<0.50	<10	<50	100,000	180,000
IW	30-Dec-08	NOT SAMPLED - LOW YIELD								
IW	25-Mar-09	<10	<10	<10	<20	<0.50	12	8.5	140,000	170,000**
IW	15-Jun-09	<10	<10	<10	<20	<0.50	11	5.6	130,000	180,000
IW	16-Sep-09	<10	<10	<10	<20	<0.50	15	<50	130,000	179,000
IW	11-Jan-10	<10	<10	<10	<20	<0.50	8.1	5.4	120,000	184,000
IW	16-Apr-10	<10	<10	<10	<20	<0.50	<3.0	<15	120,000	177,000
IW	08-Jul-10	<10	<10	<10	<20	<0.50	4.8	<15	150,000	190,000
IW	19-Jan-11	<1.0	<1.0	<1.0	<2.0	0.34	7.4	<5.0	140,000	173,000
IW	28-Apr-11	<5.0	<5.0	<5.0	<10	0.51	7.7	<5.0	130,000	177,000
IW	15-Jul-11	<2.0	<2.0	<2.0	<4.0	0.64	13	<15	140,000	193,000
IW	03-Jan-12	<2.0	<2.0	<2.0	<4.0	0.19	5.4	<5.0	140,000	172,000
IW	22-Mar-12	<5.0	<5.0	<5.0	<10	0.37	5.4	<5.0	150,000	170,000
IW	26-Jun-12	<5.0	<5.0	<5.0	<10	<0.25	10	<5.0	130,000	177,000
IW	18-Sep-12	<5.0	<5.0	<5.0	<10	<0.25	<3.0	<15	120,000	170,000
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

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	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
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-1	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	12	820
MW-1	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	800
MW-1	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	11	790
MW-1	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	11	654
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

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-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-2	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	760
MW-2	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	29	690
MW-2	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	30	610
MW-2	18-Sep-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	30	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
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

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	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	32	670
MW-3	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	23	720
MW-3	22-Mar-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	670
MW-3	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	555
MW-3	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	23	690
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
MW-4	15-Jul-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	15	830
MW-4	03-Jan-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	19	1,100
MW-4	22-Mar-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0	22	660
MW-4	26-Jun-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	21	1,010
MW-4	18-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0	16	660

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

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/ 200.8*	6010/ 200.7*	6010/ 200.7*	6010/ 200.7*	6010/ 200.8*	7470/ 245.1*	6010/ 200.8*	6010/ 200.7*
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
Interstitial Well	18-Sep-12	**0.71***	**50***	<0.10*	<0.30*	<0.050*	<0.00020*	<2.5*	**2.8***
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- 1	18-Sep-12	0.0037*	0.16*	<0.0020*	0.0074*	0.0045*	<0.00020*	0.0095*	<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-2	18-Sep-12	0.0053*	**1.1***	<0.0040*	0.041*	0.028*	0.00022*	0.0062*	<0.010*
MW-3	21-Jul-08	<0.020	0.22	<0.0020	<0.0060	0.010	<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/ 200.8*	6010/ 200.7*	6010/ 200.7*	6010/ 200.7*	6010/ 200.8*	7470/ 245.1*	6010/ 200.8*	6010/ 200.7*
NM WQCC STANDARD		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.05
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
MW-3	18-Sep-12	0.011*	0.69*	<0.0040*	0.044*	0.023*	0.00025*	<0.0050*	<0.010*
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
MW-4	18-Sep-12	<0.0025*	0.084*	<0.0020*	<0.0060*	<0.0025	<0.00020*	0.0053*	<0.0050*

Notes: **< Analyte not detected above listed method limit**
mg/L Milligrams per liter (ppm)
*** September 18, 2012 samples analyzed per USEPA Methods 200.7, 200.8, and 245.1**

TABLE 4
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100/2,500*			*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
Treatment Zone	#1	1)N 36° 23.358' W 106° 52.011' 2)N 36° 23.395' W 106° 51.925' 3)N 36° 23.362' W 106° 50.840' 4)N 36° 23.327' W 106° 51.932	3-Jan-12	1.5	<0.050	<0.050	<0.050	<0.10	<5.0	92	100	21.0
Treatment Zone	#1	1)N 36.389600° W 106.867612° 2)N 36.389565° W 106.865722° 3)N 36.389158° W 106.865205° 4)N 36.389087° W 106.864053°	22-Mar-12	0.5	<0.25	<0.25	<0.25	<0.50	<25	**310**	**340**	<15

TABLE 4
Treatment Zone Soil BTEX, TPH, and Chlorides 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/8260B*				*8015*			*300*
Treatment Zone	#1	1)N 36.38936° W 106.86703° 2)N 36.39032° W 106.86684° 3)N 36.38916° W 106.86445° 4)N 36.38981° W 106.86572°	26-Jun-12	0.5	<0.050	<0.050	<0.050	<0.10	<5.0	**140**	**400**	<15
Treatment Zone	#1	1)N 36.38947° W 106.86750° 2)N 36.39030° W 106.86658° 3)N 36.38888° W 106.86435° 4)N 36.38928° W 106.86491°	18-Sep-12	0.5	<0.50	<0.50	<0.50	<1.0	<50	**2,800**	**4,200**	21

TABLE 5
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			**300.0**
		NMOCD Rule 36 Threshold			*50 BTEX (Benzene <10 ppm)*				*100*			**500**
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	6
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	48
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	10
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	22
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	18
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	<15
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	<30
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	54
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	45
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	15
Cell #1 Vadose Zone	VZ-1	N 36° 23.378' W 106° 52.055'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	3.4
Cell #1 Vadose Zone	VZ-1	N 36.388735° W 106.865537°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	9.9

TABLE 5
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			300.0
Cell #1 Vadose Zone	VZ-1	N 36.38923° W 106.86654°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	34
Cell #1 Vadose Zone	VZ-1	N 36.38961° W 106.86775°	18-Sep-12	7.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
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	8.3
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	16
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	8.9
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	16
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	6.0
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	<15
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	<30
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	<15
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	<7.5
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	<7.5

TABLE 5
Vadose Zone Soil BTEX, TPH, and Chlorides 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)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			**300.0**
Cell #2 Vadose Zone	VZ-2	N 36° 23.406' W 106° 52.019'	3-Jan-12	3.5	<0.50	<0.50	<0.50	<1.0	<5.0	<9.9	<50	<1.5
Cell #2 Vadose Zone	VZ-2	N 36.390158° W 106.866210°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.38990° W 106.86647°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #2 Vadose Zone	VZ-2	N 36.39001° W 106.86586°	18-Sep-12	7	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	<15
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	5.1
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	22
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	28
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	17
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	20
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	<15
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	43
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	<15

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

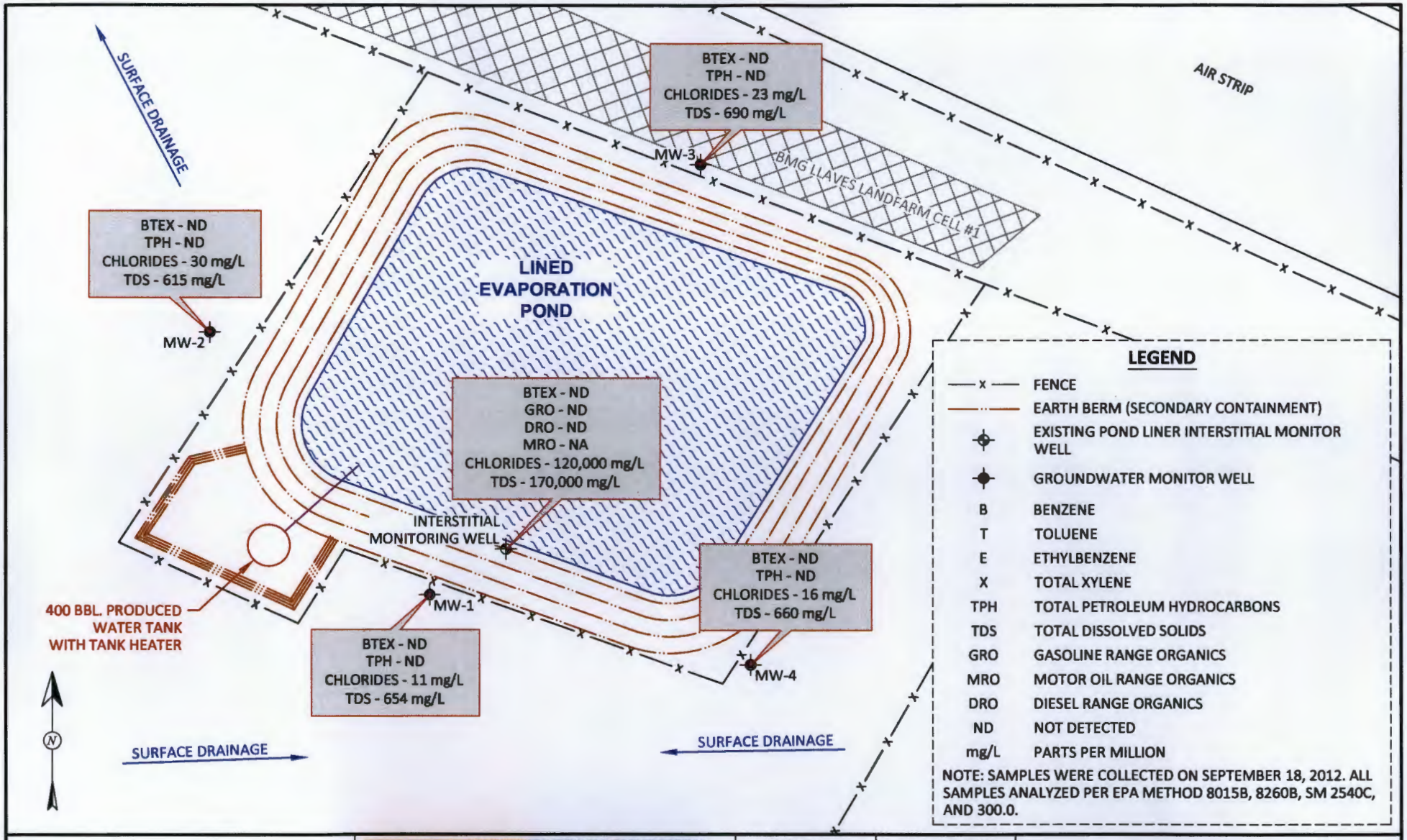
Landfarm ID	*Sample ID*	*Sample Location*	*Sample Date*	*Sample Depth (ft)*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethyl benzene (mg/kg)*	*Xylene (mg/kg)*	*TPH GRO (C6-C10) (mg/kg)*	*TPH DRO (C10-C22) (mg/kg)*	*TPH MRO (C22-C32) (mg/kg)*	*Chloride (mg/kg)*
		Laboratory Analytyical Method			*8021/8260B*				*8015M/8015B*			300.0
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	7.9
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	6.3
Cell #3 Vadose Zone	VZ-3	N 36° 23.334' W 106° 51.864'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	39	<50	2.2
Cell #3 Vadose Zone	VZ-3	N 36.389367° W 106.864533°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<7.5
Cell #3 Vadose Zone	VZ-3	N 36.38935° W 106.86406°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<50	<15
Cell #3 Vadose Zone	VZ-3	N 36.38919° W 106.86446°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
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	<7.5
Cell #4 Vadose Zone	VZ-4	N 36° 23.341' W 106° 51.736'	3-Jan-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<1.5
Cell #4 Vadose Zone	VZ-4	N 36.389355° W 106.863260°	22-Mar-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86303°	26-Jun-12	3.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
Cell #4 Vadose Zone	VZ-4	N 36.38917° W 106.86248°	18-Sep-12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15

TABLE 6
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm 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 #1 Vadose Zone	18-Sep-12	<12	150	<0.50	15	NA	<0.3	NA	<0.033	5.2	NA	<12	<1.2	NA	NA
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 #2 Vadose Zone	18-Sep-12	<12	90	<0.50	5.2	NA	<0.3	NA	<0.033	2.8	NA	<12	<1.2	NA	NA
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

TABLE 6
Vadose Zone Soil Summary of Metals
BMG Centralized Surface Waste Management Facility
Rio Arriba County, New Mexico

Landfarm 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 #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
Cell #3 Vadose Zone	18-Sep-12	<12	99	<0.50	11	NA	<0.3	NA	<0.033	3.9	NA	<12	<1.2	NA	NA
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
Cell #4 Vadose Zone	18-Sep-12	<12	130	<0.50	23	NA	<0.3	NA	<0.033	7.3	NA	<12	<1.2	NA	NA



SCALE
50 30 0 50
10
(1 INCH = 50 FEET)

Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: April 11, 2011
REVISIONS BY: C. Lameman	DATE REVISED: October 16, 2012
CHECKED BY: D. Watson	DATE CHECKED: October 16, 2012
APPROVED BY: E. McNally	DATE APPROVED: October 16, 2012

FIGURE 1

BENSON-MONTIN-GREER CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY EVAPORATION POND AND MONITOR WELL LOCATIONS & CONCENTRATIONS, 3rd QUARTER 2012

NW ¼ NW ¼, SEC. 20, T25N, R1E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

SUMMARY OF 3RD QUARTER 2012 TREATMENT ZONE MONITORING SEPTEMBER 2012

SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	TPH			CHLORIDE (mg/kg)
					C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
9/18/12	<0.50	<0.50	<0.50	<1.0	<50	2,800	4,200	21

TREATMENT ZONE MONITORING LOCATIONS SEPTEMBER 2012

SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (ft)
TZ-1	N 36.38947 W 106.86750	0.5
TZ-2	N 36.39030 W 106.86658	0.5
TZ-3	N 36.38888 W 106.86435	0.5
TZ-4	N 36.38928 W 106.86491	0.5

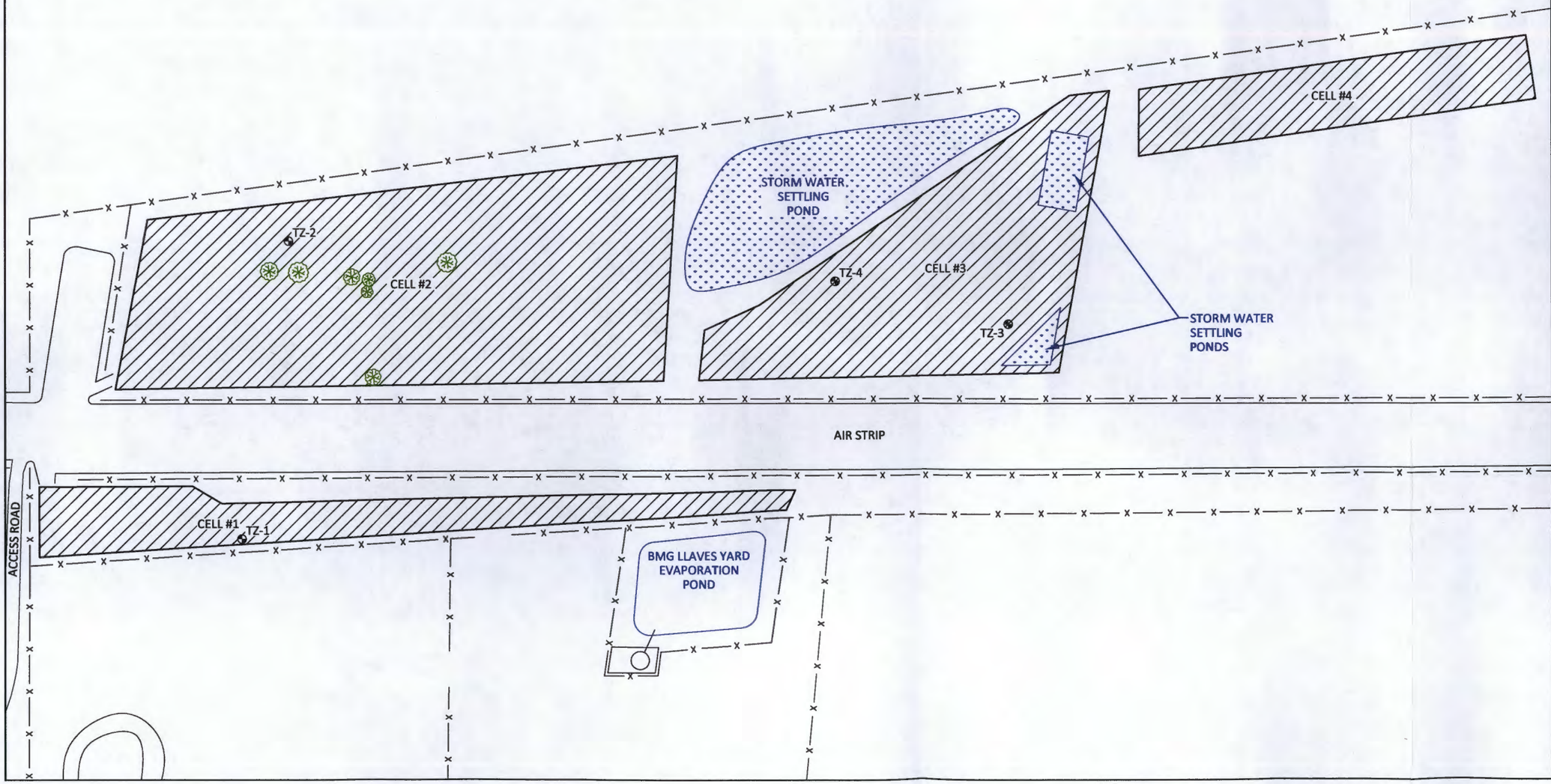


FIGURE 2

BENSON-MONTIN-GREER TREATMENT ZONE MONITORING LOCATIONS AND RESULTS 3rd QUARTER 2012

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	October 16, 2012
CHECKED BY:	**DATE CHECKED:**
D. Watson	October 16, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	October 16, 2012

N

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

SUMMARY OF 3RD QUARTER 2012
VADOSE ZONE MONITORING
SEPTEMBER 2012

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			CHLORIDE (mg/kg)
									C6-C10 (mg/kg)	C10-C22 (mg/kg)	C22-C32 (mg/kg)	
CELL #1	VZ-1	N 36.38961 W 106.86775	9/18/12	7.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
CELL #2	VZ-2	N 36.39001 W 106.86586	9/18/12	7	<0.050	<0.050	<0.050	<0.10	<5.0	<9.9	<50	<15
CELL #3	VZ-3	N 36.38919 W 106.86446	9/18/12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15
CELL #4	VZ-4	N 36.38917 W 106.86248	9/18/12	6.5	<0.050	<0.050	<0.050	<0.10	<5.0	<10	<51	<15

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

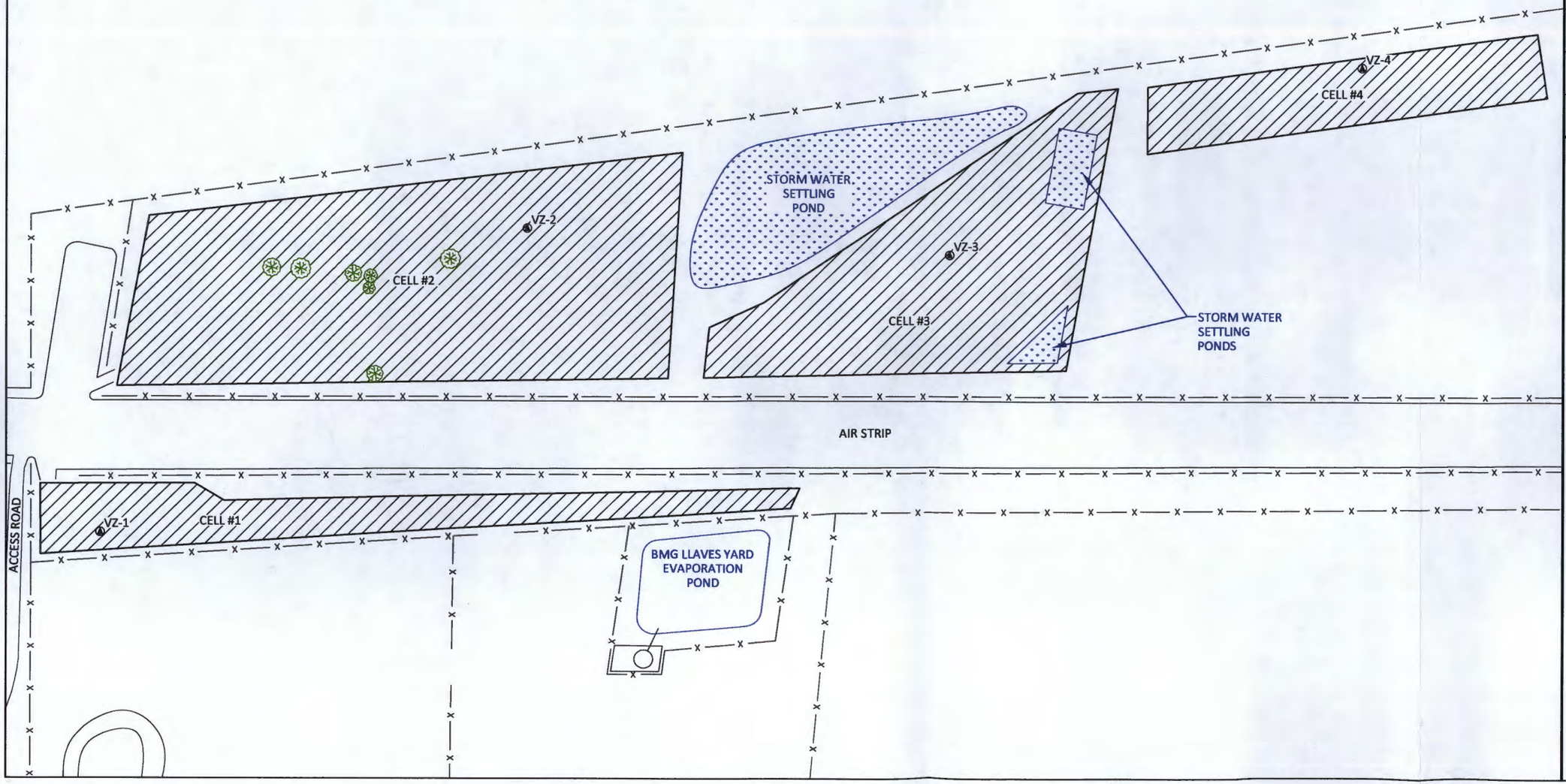


FIGURE 3

BENSON-MONTIN-GREER
VADOSE ZONE MONITORING
LOCATIONS AND RESULTS
3rd QUARTER 2012
NW1/4 NW1/4, SEC. 20, T25N, R12E
LLAVES, RIO ARRIBA COUNTY, NEW MEXICO

AES
Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
N. Willis	April 11, 2011
REVISIONS BY:	**DATE REVISED:**
C. Lameman	October 16, 2012
CHECKED BY:	**DATE CHECKED:**
D. Watson	October 16, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	October 16, 2012

N

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

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

Project: GW & Landfarm Sampling
Site: BMG Llaves Yard Evaporation Pond
Location: Rio Arriba County, New Mexico
Tech: L. LamonE

Project No.: AES 040605
Date: 9-18-2012
Time: All DAY on site @ 0833
Form: 1 of 1

Sample I.D.	Time	Latitude	Longitude	Sample Depth (ft.)	OVM - PID (ppm)	Notes / Observations
VZ#1	1132	N 36. 38961	W 106. 86775	7.5'		clay
VZ#2	1104	N 36. 39001	W. 106. 86586	7'		Sandy
VZ#3	1018	N 36. 38919	W. 106. 86446	6.5'		Clay
VZ#4	0954	N 36. 38917	W. 106. 86248	6.5'		Clay
T-Z						Tilled
Cell #2	1117	N 36. 39030	W. 106. 86658	0.5'		Brown soil, some odor
Cell #3	1025	N 36. 38888	W. 106. 86435	0.5'		
4-> Cell #3	1027	N 36, 38928	W 106, 86491	0.5'		
Cell #1	1143	N 36. 38947	W. 106. 86750	0.5'		
Cell #4						NOT IN USE!

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:

Project No.: AES 040605
Date: 9-18-2012
Time: 1220
Form: 1 of 1

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MW-1	~~1239~~ 1239		40.19		
MW-2	1231		41.24		
MW-3	1236		40.46		
MW-4	1227		41.00		
Interstitial	1247		9.68		8" PVC @

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

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:
Purge / No Purge: Purge
Well Diameter (in): 8"

Project No.: AES 040605
Date: 9.8.2012
Arrival Time: 0934 (1530 Sample Time)
Air Temp: 77
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 12.1

Initial D.T.W. (ft): 9.68 **Time:** 1247 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 9.69 **Time:** 1501 *(taken prior to purging well)*
Final D.T.W. (ft): 10.14 **Time:** 1540 *(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
1511	20.81	179.1	0.42	6.67	53.7	1.0 gal	
1515	19.96	181.2	0.42	6.88	46.3	3.0 gal	
1519	19.50	179.3	0.49	6.84	29.8	5.0 gal	
1522	18.92	177.3	0.51	6.76	-12.2	7.0 gal	
1527	18.28	175.4	0.71	6.66	10.5	9.0 gal	
1530	17.63	173.6	0.89	6.62	28.6	11.0 gal	

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)
Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 gal drum onsite
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: 2.41 Well is 8" PVC Pipe
3.54
10.62 Well recovery is good
H2O color of "apple juice"

revised: 08/10/09

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: L. Lamone
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 40.19 **Time:** 1239
Confirm D.T.W. (ft): 40.20 **Time:** 1435
Final D.T.W. (ft): 44.65 **Time:** 1454
If NAPL Present: D.T.P.:_____ D.T.W.:_____ **Thickness:**_____ **Time:**_____

Project No.: AES 040605
Date: 9-18-2012
Arrival Time: 1238 (14.47 Sample Time)
Air Temp: 77
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.55

(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1440	14.01	0.907	4.26	7.64	39.2	1st Bailer	
1444	13.53	0.902	4.00	7.49	49.9	1.0 gal	Tan
1447	13.00	0.902	3.77	7.46	53.6	1.5 gal	

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)
Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 Gals drums
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

5.35 H2O column
0.87312 Volume
2.62 Purge

Recovery slow. Tan color H2O. No Sheen, no odor

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: L. Lamone
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 040605
Date: 9-18-2012
Arrival Time: 1230 (1400 Sample time)
Air Temp: 77
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.54

Initial D.T.W. (ft): 41.24 **Time:** 12:31 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 41.23 **Time:** 13:36 *(taken prior to purging well)*
Final D.T.W. (ft): 45.22 **Time:** 14:04 *(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
1344	13.76	0.907	2.61	7.56	37.1	1st Bailer	Clear
1347	13.10	0.895	2.97	7.50	42.8	1 gal.	
1400	14.36	0.481	8.21	7.74	29.5	1.5 gal	Tan

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)
Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: In 55 gal drum on site
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: 4.31 H2O Column
0.70397 Volume
2.10 Purge

Monitoring well Extremely slow to recharge.

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-3	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: BMG Llaves Yard Evaporation Pond — Project No.: AES 040605
Location: Llaves, Rio Arriba County, New Mexico — Date: 9-18-2017
Project: Groundwater Monitoring and Sampling — Arrival Time: 1235 — 1335 Sample Time
Sampling Technician: — Air Temp: 77
Purge / No Purge: Purge — T.O.C. Elev. (ft): TBS
Well Diameter (in): 2 — Total Well Depth (ft): 45.59
Initial D.T.W. (ft): 40.46 Time: 1236 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 40.45 Time: 1300 (taken prior to purging well)
Final D.T.W. (ft): 44.49 Time: 1330 (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
1307	13.69	0.866	3.71	7.30	29.3	1st Bailer	clear
1310	13.34	0.857	4.58	7.37	24.6	1 gal.	"copper color"
1335	14.45	0.461	7.70	7.60	30.4	2 gal.	tan

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)
Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: In 55 gal drum on site
Collected Samples Stored on Ice in Cooler: yes
Chain of Custody Record Complete: yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: 5.13 H2O column
0.837216 volume
2.51 purge

Recharge on MW is slow to none!

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: LLamone
Purge / No Purge: Purge
Well Diameter (in): 8 2
Initial D.T.W. (ft): 41.00 **Time:** 12.27 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 40.99 **Time:** 14.11 *(taken prior to purging well)*
Final D.T.W. (ft): 45.17 **Time:** 1428 *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ **Thickness:**_____ **Time:**_____

Project No.: AES 040605
Date: 9-18-2013
Arrival Time: 1225
Air Temp: 77
T.O.C. Elev. (ft): TBS
Total Well Depth (ft): 45.6

1421 Sample 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
1416	13.53	0.917	5.03	7.63	61.9	1st Bailer	clear
1418	14.47	0.910	4.75	7.50	56.7	1.0 gal	Tan
1421	13.24	0.880	5.68	7.44	61.5	1.5 gal.	tan

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)
Metals (1 - 500 mL plastic w/ HNO3 preserve)

Disposal of Purged Water: 55 gal. on site
Collected Samples Stored on Ice in Cooler: Yes
Chain of Custody Record Complete: Yes
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

4.41 H20 column
0.752352 Volume
2.25 Purge

Recharge slow!

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

October 16, 2012

Debbie Watson

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

RE: BMG Llaves Landfarm/Evaporation Pond OrderNo.: 1209901

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 11 sample(s) on 9/20/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1209901**
Date Reported: **10/16/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-1
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 2:47:00 PM
Lab ID: 1209901-001
Matrix: AQUEOUS
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/22/2012 4:11:29 PM
Surr: DNOP	143	79.5-166		%REC	1	9/22/2012 4:11:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	9/22/2012 4:10:18 PM
Surr: BFB	91.9	69.8-119		%REC	2	9/22/2012 4:10:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	9/22/2012 4:10:18 PM
Toluene	ND	2.0		µg/L	2	9/22/2012 4:10:18 PM
Ethylbenzene	ND	2.0		µg/L	2	9/22/2012 4:10:18 PM
Xylenes, Total	ND	4.0		µg/L	2	9/22/2012 4:10:18 PM
Surr: 4-Bromofluorobenzene	81.9	69.7-152		%REC	2	9/22/2012 4:10:18 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	11	0.50		mg/L	1	9/24/2012 9:36:07 PM
EPA METHOD 200.7: METALS						Analyst: **JLF**
Barium	0.16	0.0020		mg/L	1	9/28/2012 2:44:53 PM
Cadmium	ND	0.0020		mg/L	1	9/28/2012 2:44:53 PM
Calcium	120	5.0		mg/L	5	9/27/2012 2:59:59 PM
Chromium	0.0074	0.0060		mg/L	1	9/28/2012 2:44:53 PM
Magnesium	57	1.0		mg/L	1	9/28/2012 2:44:53 PM
Potassium	5.7	1.0		mg/L	1	9/28/2012 2:44:53 PM
Silver	ND	0.0050		mg/L	1	9/28/2012 2:44:53 PM
Sodium	21	1.0		mg/L	1	9/28/2012 2:44:53 PM
EPA 200.8: METALS						Analyst: **DBD**
Arsenic	0.0037	0.0025		mg/L	2.5	9/28/2012 2:40:51 PM
Lead	0.0045	0.0025		mg/L	2.5	9/28/2012 2:40:51 PM
Selenium	0.0095	0.0025		mg/L	2.5	9/28/2012 2:40:51 PM
EPA METHOD 245.1: MERCURY						Analyst: **TES**
Mercury	ND	0.00020		mg/L	1	9/29/2012 9:45:41 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	654	40.0		mg/L	1	9/26/2012 8:28:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 2:00:00 PM
Lab ID: 1209901-002
Matrix: AQUEOUS
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/22/2012 4:36:50 PM
Surr: DNOP	137	79.5-166		%REC	1	9/22/2012 4:36:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.10		mg/L	2	9/22/2012 4:42:31 PM
Surr: BFB	79.1	69.8-119		%REC	2	9/22/2012 4:42:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0		µg/L	2	9/22/2012 4:42:31 PM
Toluene	ND	2.0		µg/L	2	9/22/2012 4:42:31 PM
Ethylbenzene	ND	2.0		µg/L	2	9/22/2012 4:42:31 PM
Xylenes, Total	ND	4.0		µg/L	2	9/22/2012 4:42:31 PM
Surr: 4-Bromofluorobenzene	72.9	69.7-152		%REC	2	9/22/2012 4:42:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	30	10		mg/L	20	9/24/2012 10:13:21 PM
EPA METHOD 200.7: METALS						Analyst: **JLF**
Barium	1.1	0.0040		mg/L	1	9/28/2012 2:48:12 PM
Cadmium	ND	0.0040		mg/L	1	9/28/2012 2:48:12 PM
Calcium	150	10		mg/L	5	9/27/2012 3:03:08 PM
Chromium	0.041	0.012		mg/L	1	9/28/2012 2:48:12 PM
Magnesium	69	2.0		mg/L	1	9/28/2012 2:48:12 PM
Potassium	10	2.0		mg/L	1	9/28/2012 2:48:12 PM
Silver	ND	0.010		mg/L	1	9/28/2012 2:48:12 PM
Sodium	24	2.0		mg/L	1	9/28/2012 2:48:12 PM
EPA 200.8: METALS						Analyst: **DBD**
Arsenic	0.0053	0.0050		mg/L	2.5	9/28/2012 2:44:47 PM
Lead	0.028	0.0050	*	mg/L	2.5	9/28/2012 2:44:47 PM
Selenium	0.0062	0.0050		mg/L	2.5	9/28/2012 2:44:47 PM
EPA METHOD 245.1: MERCURY						Analyst: **TES**
Mercury	0.00022	0.00020		mg/L	1	9/29/2012 9:47:26 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	615	100		mg/L	1	9/26/2012 8:28:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-3
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 1:35:00 PM
Lab ID: 1209901-003
Matrix: AQUEOUS
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/22/2012 5:02:13 PM
Surr: DNOP	139	79.5-166		%REC	1	9/22/2012 5:02:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/22/2012 5:12:41 PM
Surr: BFB	95.5	69.8-119		%REC	1	9/22/2012 5:12:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	9/22/2012 5:12:41 PM
Toluene	ND	1.0		µg/L	1	9/22/2012 5:12:41 PM
Ethylbenzene	ND	1.0		µg/L	1	9/22/2012 5:12:41 PM
Xylenes, Total	ND	2.0		µg/L	1	9/22/2012 5:12:41 PM
Surr: 4-Bromofluorobenzene	87.2	69.7-152		%REC	1	9/22/2012 5:12:41 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	23	10		mg/L	20	9/24/2012 10:25:46 PM
EPA METHOD 200.7: METALS						Analyst: **JLF**
Barium	0.69	0.0040		mg/L	1	9/28/2012 2:51:27 PM
Cadmium	ND	0.0040		mg/L	1	9/28/2012 2:51:27 PM
Calcium	140	10		mg/L	5	9/27/2012 3:06:07 PM
Chromium	0.044	0.012		mg/L	1	9/28/2012 2:51:27 PM
Magnesium	67	2.0		mg/L	1	9/28/2012 2:51:27 PM
Potassium	9.9	2.0		mg/L	1	9/28/2012 2:51:27 PM
Silver	ND	0.010		mg/L	1	9/28/2012 2:51:27 PM
Sodium	22	2.0		mg/L	1	9/28/2012 2:51:27 PM
EPA 200.8: METALS						Analyst: **DBD**
Arsenic	0.011	0.0050	*	mg/L	2.5	9/28/2012 2:48:43 PM
Lead	0.023	0.0050	*	mg/L	2.5	9/28/2012 2:48:43 PM
Selenium	ND	0.0050		mg/L	2.5	9/28/2012 2:48:43 PM
EPA METHOD 245.1: MERCURY						Analyst: **TES**
Mercury	0.00025	0.00020		mg/L	1	9/29/2012 9:54:19 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	690	200		mg/L	1	9/26/2012 8:28:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 2:21:00 PM
Lab ID: 1209901-004 **Matrix:** AQUEOUS **Received Date:** 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	9/22/2012 5:52:57 PM
Surr: DNOP	129	79.5-166		%REC	1	9/22/2012 5:52:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/22/2012 5:42:52 PM
Surr: BFB	90.9	69.8-119		%REC	1	9/22/2012 5:42:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	9/22/2012 5:42:52 PM
Toluene	ND	1.0		µg/L	1	9/22/2012 5:42:52 PM
Ethylbenzene	ND	1.0		µg/L	1	9/22/2012 5:42:52 PM
Xylenes, Total	ND	2.0		µg/L	1	9/22/2012 5:42:52 PM
Surr: 4-Bromofluorobenzene	81.7	69.7-152		%REC	1	9/22/2012 5:42:52 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	16	0.50		mg/L	1	9/24/2012 10:38:10 PM
EPA METHOD 200.7: METALS						Analyst: **JLF**
Barium	0.084	0.0020		mg/L	1	9/28/2012 3:09:30 PM
Cadmium	ND	0.0020		mg/L	1	9/28/2012 3:09:30 PM
Calcium	120	5.0		mg/L	5	9/27/2012 3:09:09 PM
Chromium	ND	0.0060		mg/L	1	9/28/2012 3:09:30 PM
Magnesium	57	1.0		mg/L	1	9/28/2012 3:09:30 PM
Potassium	5.0	1.0		mg/L	1	9/28/2012 3:09:30 PM
Silver	ND	0.0050		mg/L	1	9/28/2012 3:09:30 PM
Sodium	23	1.0		mg/L	1	9/28/2012 3:09:30 PM
EPA 200.8: METALS						Analyst: **DBD**
Arsenic	ND	0.0025		mg/L	2.5	9/28/2012 2:52:39 PM
Lead	ND	0.0025		mg/L	2.5	9/28/2012 2:52:39 PM
Selenium	0.0053	0.0025		mg/L	2.5	9/28/2012 2:52:39 PM
EPA METHOD 245.1: MERCURY						Analyst: **TES**
Mercury	ND	0.00020		mg/L	1	9/29/2012 9:56:04 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	660	100		mg/L	1	9/26/2012 8:28:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Interstitial Well
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 3:30:00 PM
Lab ID: 1209901-005
Matrix: AQUEOUS
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	3.0		mg/L	1	9/22/2012 6:18:37 PM
Surr: DNOP	125	79.5-166		%REC	1	9/22/2012 6:18:37 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.25		mg/L	5	9/22/2012 6:13:01 PM
Surr: BFB	93.5	69.8-119		%REC	5	9/22/2012 6:13:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	5.0		µg/L	5	9/22/2012 6:13:01 PM
Toluene	ND	5.0		µg/L	5	9/22/2012 6:13:01 PM
Ethylbenzene	ND	5.0		µg/L	5	9/22/2012 6:13:01 PM
Xylenes, Total	ND	10		µg/L	5	9/22/2012 6:13:01 PM
Surr: 4-Bromofluorobenzene	87.3	69.7-152		%REC	5	9/22/2012 6:13:01 PM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	120000	5000		mg/L	10000	9/27/2012 8:43:58 PM
EPA METHOD 200.7: METALS						Analyst: **JLF**
Barium	50	0.20	*	mg/L	100	9/28/2012 3:13:13 PM
Cadmium	ND	0.10		mg/L	50	9/27/2012 3:13:22 PM
Calcium	5400	100		mg/L	100	9/28/2012 3:13:13 PM
Chromium	ND	0.30		mg/L	50	9/27/2012 3:13:22 PM
Magnesium	1000	50		mg/L	50	9/27/2012 3:13:22 PM
Potassium	1400	50		mg/L	50	9/27/2012 3:13:22 PM
Silver	2.8	0.25	*	mg/L	50	9/27/2012 3:13:22 PM
Sodium	44000	1000		mg/L	1000	9/28/2012 3:17:32 PM
EPA METHOD 245.1: MERCURY						Analyst: **TES**
Mercury	ND	0.00020		mg/L	1	9/29/2012 9:57:50 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	170000	1000		mg/L	1	9/26/2012 8:28:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #1
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 11:32:00 AM
Lab ID: 1209901-006 **Matrix:** MEOH (SOIL) **Received Date:** 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2012 2:12:23 PM
Surr: DNOP	107	77.6-140		%REC	1	9/22/2012 2:12:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2012 8:30:55 PM
Surr: BFB	100	84-116		%REC	1	9/27/2012 8:30:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/27/2012 3:17:51 AM
Toluene	ND	0.050		mg/Kg	1	9/27/2012 3:17:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2012 3:17:51 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2012 3:17:51 AM
Surr: 4-Bromofluorobenzene	98.3	80-120		%REC	1	9/27/2012 3:17:51 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	3.0		mg/Kg	10	9/24/2012 4:59:39 PM
Chloride	ND	15		mg/Kg	10	9/24/2012 4:59:39 PM
Nitrogen, Nitrate (As N)	14	3.0		mg/Kg	10	9/24/2012 4:59:39 PM
Sulfate	15	15		mg/Kg	10	9/24/2012 4:59:39 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	10/9/2012 9:36:01 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**
Arsenic	ND	12		mg/Kg	5	10/3/2012 4:42:24 PM
Barium	150	0.50		mg/Kg	5	10/3/2012 1:11:04 PM
Cadmium	ND	0.50		mg/Kg	5	10/3/2012 1:11:04 PM
Calcium	5800	120		mg/Kg	5	10/3/2012 1:11:04 PM
Chromium	15	1.5		mg/Kg	5	10/3/2012 1:11:04 PM
Lead	5.2	1.2		mg/Kg	5	10/3/2012 4:42:24 PM
Magnesium	3600	120		mg/Kg	5	10/3/2012 1:11:04 PM
Potassium	2900	250		mg/Kg	5	10/3/2012 1:11:04 PM
Selenium	ND	12		mg/Kg	5	10/3/2012 1:11:04 PM
Silver	ND	1.2		mg/Kg	5	10/3/2012 1:11:04 PM
Sodium	ND	120		mg/Kg	5	10/3/2012 1:11:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #2
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 11:04:00 AM
Lab ID: 1209901-007
Matrix: MEOH (SOIL)
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/22/2012 2:34:18 PM
Surr: DNOP	107	77.6-140		%REC	1	9/22/2012 2:34:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2012 1:18:04 AM
Surr: BFB	97.4	84-116		%REC	1	9/28/2012 1:18:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/27/2012 3:46:33 AM
Toluene	ND	0.050		mg/Kg	1	9/27/2012 3:46:33 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2012 3:46:33 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2012 3:46:33 AM
Surr: 4-Bromofluorobenzene	98.4	80-120		%REC	1	9/27/2012 3:46:33 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	3.0		mg/Kg	10	9/24/2012 5:49:20 PM
Chloride	ND	15		mg/Kg	10	9/24/2012 5:49:20 PM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	9/24/2012 5:49:20 PM
Sulfate	ND	15		mg/Kg	10	9/24/2012 5:49:20 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	10/9/2012 9:37:49 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**
Arsenic	ND	12		mg/Kg	5	10/3/2012 4:44:51 PM
Barium	90	0.50		mg/Kg	5	10/3/2012 1:17:33 PM
Cadmium	ND	0.50		mg/Kg	5	10/3/2012 1:17:33 PM
Calcium	7000	120		mg/Kg	5	10/3/2012 1:17:33 PM
Chromium	5.2	1.5		mg/Kg	5	10/3/2012 1:17:33 PM
Lead	2.8	1.2		mg/Kg	5	10/3/2012 4:44:51 PM
Magnesium	1200	120		mg/Kg	5	10/3/2012 1:17:33 PM
Potassium	550	250		mg/Kg	5	10/3/2012 1:17:33 PM
Selenium	ND	12		mg/Kg	5	10/3/2012 1:17:33 PM
Silver	ND	1.2		mg/Kg	5	10/3/2012 1:17:33 PM
Sodium	ND	120		mg/Kg	5	10/3/2012 1:17:33 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #3
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 10:18:00 AM
Lab ID: 1209901-008
Matrix: MEOH (SOIL)
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2012 2:56:12 PM
Surr: DNOP	110	77.6-140		%REC	1	9/22/2012 2:56:12 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2012 1:46:54 AM
Surr: BFB	98.1	84-116		%REC	1	9/28/2012 1:46:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/27/2012 4:15:16 AM
Toluene	ND	0.050		mg/Kg	1	9/27/2012 4:15:16 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2012 4:15:16 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2012 4:15:16 AM
Surr: 4-Bromofluorobenzene	98.5	80-120		%REC	1	9/27/2012 4:15:16 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	ND	3.0		mg/Kg	10	9/24/2012 5:36:55 PM
Chloride	ND	15		mg/Kg	10	9/24/2012 5:36:55 PM
Nitrogen, Nitrate (As N)	7.2	3.0		mg/Kg	10	9/24/2012 5:36:55 PM
Sulfate	ND	15		mg/Kg	10	9/24/2012 5:36:55 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	10/9/2012 9:39:37 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**
Arsenic	ND	12		mg/Kg	5	10/3/2012 4:47:15 PM
Barium	99	0.50		mg/Kg	5	10/3/2012 1:22:27 PM
Cadmium	ND	0.50		mg/Kg	5	10/3/2012 1:22:27 PM
Calcium	4900	120		mg/Kg	5	10/3/2012 1:22:27 PM
Chromium	11	1.5		mg/Kg	5	10/3/2012 1:22:27 PM
Lead	3.9	1.2		mg/Kg	5	10/3/2012 4:47:15 PM
Magnesium	2100	120		mg/Kg	5	10/3/2012 1:22:27 PM
Potassium	1700	250		mg/Kg	5	10/3/2012 1:22:27 PM
Selenium	ND	12		mg/Kg	5	10/3/2012 1:22:27 PM
Silver	ND	1.2		mg/Kg	5	10/3/2012 1:22:27 PM
Sodium	ND	120		mg/Kg	5	10/3/2012 1:22:27 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Vadose Zone Cell #4
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 9:54:00 AM
Lab ID: 1209901-009
Matrix: MEOH (SOIL)
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2012 3:18:16 PM
Surr: DNOP	107	77.6-140		%REC	1	9/22/2012 3:18:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2012 2:15:43 AM
Surr: BFB	97.7	84-116		%REC	1	9/28/2012 2:15:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/27/2012 4:43:55 AM
Toluene	ND	0.050		mg/Kg	1	9/27/2012 4:43:55 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2012 4:43:55 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2012 4:43:55 AM
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	9/27/2012 4:43:55 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Fluoride	3.7	3.0		mg/Kg	10	9/24/2012 5:12:05 PM
Chloride	ND	15		mg/Kg	10	9/24/2012 5:12:05 PM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	9/24/2012 5:12:05 PM
Sulfate	ND	15		mg/Kg	10	9/24/2012 5:12:05 PM
EPA METHOD 7471: MERCURY						Analyst: **IDC**
Mercury	ND	0.033		mg/kg	1	10/9/2012 9:41:25 AM
EPA METHOD 6010B: SOIL METALS						Analyst: **JLF**
Arsenic	ND	12		mg/Kg	5	10/3/2012 4:49:42 PM
Barium	130	0.50		mg/Kg	5	10/3/2012 1:29:16 PM
Cadmium	ND	0.50		mg/Kg	5	10/3/2012 1:29:16 PM
Calcium	9700	120		mg/Kg	5	10/3/2012 4:49:42 PM
Chromium	23	1.5		mg/Kg	5	10/3/2012 1:29:16 PM
Lead	7.3	1.2		mg/Kg	5	10/3/2012 4:49:42 PM
Magnesium	2900	120		mg/Kg	5	10/3/2012 4:49:42 PM
Potassium	2400	250		mg/Kg	5	10/3/2012 4:49:42 PM
Selenium	ND	12		mg/Kg	5	10/3/2012 1:29:16 PM
Silver	ND	1.2		mg/Kg	5	10/3/2012 1:29:16 PM
Sodium	ND	120		mg/Kg	5	10/3/2012 4:49:42 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: Treatment Zone
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date: 9/18/2012 12:10:00 PM
Lab ID: 1209901-010
Matrix: MEOH (SOIL)
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	2800	200		mg/Kg	20	9/24/2012 5:13:46 AM
Motor Oil Range Organics (MRO)	4200	1000		mg/Kg	20	9/24/2012 5:13:46 AM
Surr: DNOP	0	77.6-140	S	%REC	20	9/24/2012 5:13:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	9/28/2012 2:44:29 AM
Surr: BFB	98.3	84-116		%REC	10	9/28/2012 2:44:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.50		mg/Kg	10	9/28/2012 2:44:29 AM
Toluene	ND	0.50		mg/Kg	10	9/28/2012 2:44:29 AM
Ethylbenzene	ND	0.50		mg/Kg	10	9/28/2012 2:44:29 AM
Xylenes, Total	ND	1.0		mg/Kg	10	9/28/2012 2:44:29 AM
Surr: 4-Bromofluorobenzene	96.9	80-120		%REC	10	9/28/2012 2:44:29 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	21	15		mg/Kg	10	9/24/2012 5:24:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TRIP BLANK
Project: BMG Llaves Landfarm/Evaporation Pon
Collection Date:
Lab ID: 1209901-011
Matrix: TRIP BLANK
Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	9/22/2012 6:43:07 PM
Surr: BFB	84.4	69.8-119		%REC	1	9/22/2012 6:43:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	9/22/2012 6:43:07 PM
Benzene	ND	1.0		µg/L	1	9/22/2012 6:43:07 PM
Toluene	ND	1.0		µg/L	1	9/22/2012 6:43:07 PM
Ethylbenzene	ND	1.0		µg/L	1	9/22/2012 6:43:07 PM
Xylenes, Total	ND	2.0		µg/L	1	9/22/2012 6:43:07 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2012 6:43:07 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2012 6:43:07 PM
Surr: 4-Bromofluorobenzene	72.4	69.7-152		%REC	1	9/22/2012 6:43:07 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
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 #:**	120925075
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1209901
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	120925075-001	**Sampling Date**	9/18/2012	**Date/Time Received**	9/25/2012 12:22 PM
Client Sample ID	1209901-006D / VADOSE ZONE CELL #1			**Sampling Time**	11:32 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/2/2012	CRW	EPA 335.4	
%moisture	20.1	Percent		10/4/2012	CRW	%moisture	

Sample Number	120925075-002	**Sampling Date**	9/18/2012	**Date/Time Received**	9/25/2012 12:22 PM
Client Sample ID	1209901-007D / VADOSE ZONE CELL #2			**Sampling Time**	11:04 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/2/2012	CRW	EPA 335.4	
%moisture	5.6	Percent		10/4/2012	CRW	%moisture	

Sample Number	120925075-003	**Sampling Date**	9/18/2012	**Date/Time Received**	9/25/2012 12:22 PM
Client Sample ID	1209901-008D / VADOSE ZONE CELL #3			**Sampling Time**	10:18 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/2/2012	CRW	EPA 335.4	
%moisture	7.6	Percent		10/4/2012	CRW	%moisture	

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 #:**	120925075
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1209901
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	120925075-004	**Sampling Date**	9/18/2012	**Date/Time Received**	9/25/2012 12:22 PM
Client Sample ID	1209901-009D / VADOSE ZONE CELL #4			**Sampling Time**	9:54 AM
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/Kg	0.3	10/2/2012	CRW	EPA 335.4	
%moisture	9.8	Percent		10/4/2012	CRW	%moisture	

Authorized Signature

John Coddington, Lab Manager

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

The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **LCS-3959**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **3959**	RunNo: **5812**
Prep Date: **9/27/2012**	Analysis Date: **9/27/2012**	SeqNo: **167089** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	99.7	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Calcium	52	1.0	50.00	0	104	85	115			
Chromium	0.49	0.0060	0.5000	0	98.3	85	115			
Magnesium	52	1.0	50.00	0	104	85	115			
Potassium	51	1.0	50.00	0	101	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Sodium	52	1.0	50.00	0	103	85	115			

Sample ID **1209A67-002AMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC**	Batch ID: **3959**	RunNo: **5812**
Prep Date: **9/27/2012**	Analysis Date: **9/27/2012**	SeqNo: **167105** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.51	0.0020	0.5000	0	103	70	130			

Sample ID **1209A67-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 200.7: Metals**
Client ID: **BatchQC**	Batch ID: **3959**	RunNo: **5812**
Prep Date: **9/27/2012**	Analysis Date: **9/27/2012**	SeqNo: **167106** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.51	0.0020	0.5000	0	103	70	130	0.226	20	

Sample ID **MB-3959**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **3959**	RunNo: **5812**
Prep Date: **9/27/2012**	Analysis Date: **9/27/2012**	SeqNo: **167230** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3959**	SampType: **MBLK**	TestCode: **EPA 200.8: Metals**
Client ID: **PBW**	Batch ID: **3959**	RunNo: **5868**
Prep Date: **9/27/2012**	Analysis Date: **9/28/2012**	SeqNo: **168903** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Lead	ND	0.0025								
Selenium	ND	0.0025								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3959**	SampType: **MBLK**		TestCode: **200.8 ICPMS Metals:Total**		
Client ID: **PBW**	Batch ID: **3959**		RunNo: **5868**		
Prep Date: **9/27/2012**	Analysis Date: **9/28/2012**		SeqNo: **168930**	Units: **mg/L**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Lead	ND	0.0025								
Selenium	ND	0.0025								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-4001**	SampType: **MBLK**	TestCode: **EPA Method 245.1: Mercury**
Client ID: **PBW**	Batch ID: **4001**	RunNo: **5866**
Prep Date: **9/29/2012**	Analysis Date: **9/29/2012**	SeqNo: **168752** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID **LCS-4001**	SampType: **LCS**	TestCode: **EPA Method 245.1: Mercury**
Client ID: **LCSW**	Batch ID: **4001**	RunNo: **5866**
Prep Date: **9/29/2012**	Analysis Date: **9/29/2012**	SeqNo: **168753** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	.00004191	98.4	80	120			

Sample ID **1209570-001EMS**	SampType: **MS**	TestCode: **EPA Method 245.1: Mercury**
Client ID: **BatchQC**	Batch ID: **4001**	RunNo: **5866**
Prep Date: **9/29/2012**	Analysis Date: **9/29/2012**	SeqNo: **168759** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	.00004492	95.6	75	125			

Sample ID **1209570-001EMSD**	SampType: **MSD**	TestCode: **EPA Method 245.1: Mercury**
Client ID: **BatchQC**	Batch ID: **4001**	RunNo: **5866**
Prep Date: **9/29/2012**	Analysis Date: **9/29/2012**	SeqNo: **168760** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	.00004492	97.2	75	125	1.69	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3890**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **3890**	RunNo: **5743**
Prep Date: **9/24/2012**	Analysis Date: **9/24/2012**	SeqNo: **165130** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	ND	1.5								

Sample ID **LCS-3890**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **3890**	RunNo: **5743**
Prep Date: **9/24/2012**	Analysis Date: **9/24/2012**	SeqNo: **165131** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.5	0.30	1.500	0	101	90	110			
Chloride	14	1.5	15.00	0	94.9	90	110			
Nitrogen, Nitrate (As N)	7.5	0.30	7.500	0	99.9	90	110			
Sulfate	29	1.5	30.00	0	96.4	90	110			

Sample ID **1209928-003AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **3890**	RunNo: **5743**
Prep Date: **9/24/2012**	Analysis Date: **9/24/2012**	SeqNo: **165148** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4.4	3.0	1.500	4.228	12.8	18.1	130			S
Chloride	21	15	15.00	9.728	74.6	64.4	117			
Nitrogen, Nitrate (As N)	7.2	3.0	7.500	0	95.5	80.1	108			
Sulfate	86	15	30.00	109.6	-80.3	20.8	141			S

Sample ID **1209928-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **3890**	RunNo: **5743**
Prep Date: **9/24/2012**	Analysis Date: **9/24/2012**	SeqNo: **165149** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	5.2	3.0	1.500	4.228	61.5	18.1	130	15.3	20	
Chloride	22	15	15.00	9.728	81.4	64.4	117	4.77	20	
Nitrogen, Nitrate (As N)	7.0	3.0	7.500	0	94.0	80.1	108	1.63	20	
Sulfate	110	15	30.00	109.6	-9.14	20.8	141	22.2	24.9	S

Sample ID **1209929-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **3890**	RunNo: **5743**
Prep Date: **9/24/2012**	Analysis Date: **9/24/2012**	SeqNo: **165167** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.1	3.0	1.500	0	204	18.1	130			S
Chloride	15	15	15.00	0	102	64.4	117			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1209929-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **3890**	RunNo: **5743**
Prep Date: **9/24/2012**	Analysis Date: **9/24/2012**	SeqNo: **165167** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	6.9	3.0	7.500	0	92.3	80.1	108			
Sulfate	30	15	30.00	4.054	85.7	20.8	141			

Sample ID **1209929-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **3890**	RunNo: **5743**
Prep Date: **9/24/2012**	Analysis Date: **9/24/2012**	SeqNo: **165168** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.3	3.0	1.500	0	218	18.1	130	6.61	20	S
Chloride	16	15	15.00	0	108	64.4	117	4.94	20	
Nitrogen, Nitrate (As N)	7.1	3.0	7.500	0	94.7	80.1	108	2.65	20	
Sulfate	32	15	30.00	4.054	92.4	20.8	141	6.53	24.9	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R5737**	RunNo: **5737**
Prep Date:	Analysis Date: **9/24/2012**	SeqNo: **164647** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R5737**	RunNo: **5737**
Prep Date:	Analysis Date: **9/24/2012**	SeqNo: **164648** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3878**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **3878**	RunNo: **5690**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163494** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	77.6	140			

Sample ID **LCS-3878**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **3878**	RunNo: **5690**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.3	52.6	130			
Surr: DNOP	4.5		5.000		89.7	77.6	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3873**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **PBW**	Batch ID: **3873**	RunNo: **5691**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163497** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.3		1.000		132	79.5	166			

Sample ID **LCS-3873**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSW**	Batch ID: **3873**	RunNo: **5691**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163498** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.8	1.0	5.000	0	75.1	74	157			
Surr: DNOP	0.57		0.5000		115	79.5	166			

Sample ID **LCSD-3873**	SampType: **LCSD**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSS02**	Batch ID: **3873**	RunNo: **5691**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163499** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.8	1.0	5.000	0	76.0	74	157	1.16	23	
Surr: DNOP	0.54		0.5000		108	79.5	166	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3881**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **3881**	RunNo: **5824**
Prep Date: **9/22/2012**	Analysis Date: **9/27/2012**	SeqNo: **167530** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.3	84	116			

Sample ID **LCS-3881**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **3881**	RunNo: **5824**
Prep Date: **9/22/2012**	Analysis Date: **9/27/2012**	SeqNo: **167531** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	74	117			
Surr: BFB	1000		1000		104	84	116			

Sample ID **MB-3898**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/28/2012**	SeqNo: **167562** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.3	84	116			

Sample ID **LCS-3898**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/27/2012**	SeqNo: **167563** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	84	116			

Sample ID **1209943-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/27/2012**	SeqNo: **167566** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		987.2		102	84	116			

Sample ID **1209943-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/27/2012**	SeqNo: **167567** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		997.0		103	84	116	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID	**MB-4015**	SampType:	**MBLK**		TestCode:	**EPA Method 8015B: Gasoline Range**				
Client ID:	**PBS**	Batch ID:	**4015**		RunNo:	**6019**				
Prep Date:	**10/1/2012**	Analysis Date:	**10/5/2012**		SeqNo:	**173412**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	84	116			

Sample ID	**LCS-4015**	SampType:	**LCS**		TestCode:	**EPA Method 8015B: Gasoline Range**				
Client ID:	**LCSS**	Batch ID:	**4015**		RunNo:	**6019**				
Prep Date:	**10/1/2012**	Analysis Date:	**10/5/2012**		SeqNo:	**173413**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	84	116			

Sample ID	**1210002-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 8015B: Gasoline Range**				
Client ID:	**BatchQC**	Batch ID:	**4015**		RunNo:	**6019**				
Prep Date:	**10/1/2012**	Analysis Date:	**10/5/2012**		SeqNo:	**173418**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		984.3		108	84	116			

Sample ID	**1210002-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8015B: Gasoline Range**				
Client ID:	**BatchQC**	Batch ID:	**4015**		RunNo:	**6019**				
Prep Date:	**10/1/2012**	Analysis Date:	**10/5/2012**		SeqNo:	**173419**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		984.3		110	84	116	0	0	

Sample ID	**5ML RB**	SampType:	**MBLK**		TestCode:	**EPA Method 8015B: Gasoline Range**				
Client ID:	**PBS**	Batch ID:	**R6020**		RunNo:	**6020**				
Prep Date:		Analysis Date:	**10/5/2012**		SeqNo:	**173460**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	84	116			

Sample ID	**2.5UG GRO LCS**	SampType:	**LCS**		TestCode:	**EPA Method 8015B: Gasoline Range**				
Client ID:	**LCSS**	Batch ID:	**R6020**		RunNo:	**6020**				
Prep Date:		Analysis Date:	**10/5/2012**		SeqNo:	**173461**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	820		1000		82.5	84	116			S

Sample ID	**1210279-011BMS**	SampType:	**MS**		TestCode:	**EPA Method 8015B: Gasoline Range**				
Client ID:	**BatchQC**	Batch ID:	**R6020**		RunNo:	**6020**				
Prep Date:		Analysis Date:	**10/6/2012**		SeqNo:	**173465**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	670		618.5		108	84	116			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID	**1210279-011BMSD**	SampType: **MSD**		TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**BatchQC**	Batch ID: **R6020**		RunNo: **6020**					
Prep Date:		Analysis Date: **10/6/2012**		SeqNo: **173466**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	650		618.5		105	84	116	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163570** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	16		20.00		77.6	69.8	119			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163571** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.4	75.9	119			
Surr: BFB	16		20.00		81.6	69.8	119			

Sample ID **1209901-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163575** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.90	0.10	1.000	0	89.8	63.5	131			
Surr: BFB	37		40.00		92.1	69.8	119			

Sample ID **1209901-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **MW-1**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163576** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.92	0.10	1.000	0	91.5	63.5	131	1.90	16.7	
Surr: BFB	35		40.00		88.0	69.8	119	0	0	

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBW**	Batch ID: **R6020**	RunNo: **6020**
Prep Date:	Analysis Date: **10/5/2012**	SeqNo: **173451** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	21		20.00		104	69.8	119			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3881**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **3881**	RunNo: **5783**
Prep Date: **9/22/2012**	Analysis Date: **9/26/2012**	SeqNo: **166796** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	80	120			

Sample ID **LCS-3881**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **3881**	RunNo: **5783**
Prep Date: **9/22/2012**	Analysis Date: **9/26/2012**	SeqNo: **166797** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.3	76.3	117			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	77	116			
Xylenes, Total	3.1	0.10	3.000	0	102	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID **1209929-003AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **3881**	RunNo: **5783**
Prep Date: **9/22/2012**	Analysis Date: **9/26/2012**	SeqNo: **166805** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.048	0.9606	0	91.4	67.2	113			
Toluene	0.91	0.048	0.9606	0	94.8	62.1	116			
Ethylbenzene	0.92	0.048	0.9606	0.004087	95.5	67.9	127			
Xylenes, Total	2.8	0.096	2.882	0	97.9	60.6	134			
Surr: 4-Bromofluorobenzene	0.98		0.9606		102	80	120			

Sample ID **1209929-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **3881**	RunNo: **5783**
Prep Date: **9/22/2012**	Analysis Date: **9/26/2012**	SeqNo: **166844** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.048	0.9615	0	93.5	67.2	113	2.34	14.3	
Toluene	0.93	0.048	0.9615	0	96.4	62.1	116	1.73	15.9	
Ethylbenzene	0.94	0.048	0.9615	0.004087	97.3	67.9	127	1.95	14.4	
Xylenes, Total	2.8	0.096	2.885	0	97.8	60.6	134	0.0126	12.6	
Surr: 4-Bromofluorobenzene	0.99		0.9615		103	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3898**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/28/2012**	SeqNo: **167573** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

Sample ID **LCS-3898**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/28/2012**	SeqNo: **167574** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	76.3	117			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	77	116			
Xylenes, Total	3.1	0.10	3.000	0	104	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID **1209974-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/27/2012**	SeqNo: **167577** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.049	0.9737	0	88.3	67.2	113			
Toluene	0.90	0.049	0.9737	0	92.9	62.1	116			
Ethylbenzene	0.93	0.049	0.9737	0	95.6	67.9	127			
Xylenes, Total	2.8	0.097	2.921	0	95.8	60.6	134			
Surr: 4-Bromofluorobenzene	0.98		0.9737		101	80	120			

Sample ID **1209974-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **3898**	RunNo: **5824**
Prep Date: **9/24/2012**	Analysis Date: **9/27/2012**	SeqNo: **167578** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.048	0.9579	0	75.8	67.2	113	16.9	14.3	R
Toluene	0.82	0.048	0.9579	0	85.2	62.1	116	10.3	15.9	
Ethylbenzene	0.88	0.048	0.9579	0	91.8	67.9	127	5.78	14.4	
Xylenes, Total	2.7	0.096	2.874	0	92.3	60.6	134	5.36	12.6	
Surr: 4-Bromofluorobenzene	0.98		0.9579		102	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163597** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	16		20.00		77.5	69.7	152			

Sample ID **1209915-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163599** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	100	12	100.0	0	100	45.1	137			
Benzene	300	5.0	100.0	199.9	105	74.1	124			
Toluene	420	5.0	100.0	310.8	110	75.2	124			
Ethylbenzene	140	5.0	100.0	30.71	104	69	125			
Xylenes, Total	530	10	300.0	219.9	104	73.1	126			
1,2,4-Trimethylbenzene	170	5.0	100.0	66.88	103	63.1	121			
1,3,5-Trimethylbenzene	120	5.0	100.0	18.32	106	60	133			
Surr: 4-Bromofluorobenzene	92		100.0		92.2	69.7	152			

Sample ID **1209915-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163600** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	98	12	100.0	0	97.9	45.1	137	2.18	13.6	
Benzene	300	5.0	100.0	199.9	99.9	74.1	124	1.53	11.2	
Toluene	410	5.0	100.0	310.8	101	75.2	124	2.08	11.9	
Ethylbenzene	130	5.0	100.0	30.71	103	69	125	1.36	13.5	
Xylenes, Total	520	10	300.0	219.9	100	73.1	126	2.28	13	
1,2,4-Trimethylbenzene	170	5.0	100.0	66.88	98.8	63.1	121	2.59	14.7	
1,3,5-Trimethylbenzene	120	5.0	100.0	18.32	102	60	133	2.90	14	
Surr: 4-Bromofluorobenzene	83		100.0		83.2	69.7	152	0	0	

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163616** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R5693**	RunNo: **5693**
Prep Date:	Analysis Date: **9/22/2012**	SeqNo: **163616** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	21	2.5	20.00	0	103	66.9	136			
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	22	1.0	20.00	0	109	80	120			
Xylenes, Total	66	2.0	60.00	0	110	80	120			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	102	74.3	117			
1,3,5-Trimethylbenzene	22	1.0	20.00	0	108	75.8	117			
Surr: 4-Bromofluorobenzene	18		20.00		90.6	69.7	152			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R6020**	RunNo: **6020**
Prep Date:	Analysis Date: **10/5/2012**	SeqNo: **173476** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	21		20.00		107	69.7	152			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R6020**	RunNo: **6020**
Prep Date:	Analysis Date: **10/5/2012**	SeqNo: **173477** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	23		20.00		114	69.7	152			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **mb-3898**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBS**	Batch ID: **3898**	RunNo: **5843**
Prep Date: **9/24/2012**	Analysis Date: **9/27/2012**	SeqNo: **168049** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.4	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.5000		79.2	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.37		0.5000		73.6	70	130			

Sample ID **lcs-3898**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSS**	Batch ID: **3898**	RunNo: **5843**
Prep Date: **9/24/2012**	Analysis Date: **9/27/2012**	SeqNo: **168050** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.6	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.6	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.36		0.5000		72.2	70	130			

Sample ID **1209973-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **3898**	RunNo: **5843**
Prep Date: **9/24/2012**	Analysis Date: **9/28/2012**	SeqNo: **168051** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.43		0.4960		86.2	70	130			
Surr: 4-Bromofluorobenzene	0.38		0.4960		75.7	70	130			
Surr: Dibromofluoromethane	0.49		0.4960		98.9	70	130			
Surr: Toluene-d8	0.35		0.4960		70.6	70	130			

Sample ID **1209973-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **3898**	RunNo: **5843**
Prep Date: **9/24/2012**	Analysis Date: **9/28/2012**	SeqNo: **168052** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.40		0.4892		82.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.38		0.4892		77.1	70	130	0	0	
Surr: Dibromofluoromethane	0.49		0.4892		101	70	130	0	0	
Surr: Toluene-d8	0.36		0.4892		72.9	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **mb-3881**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **3881**	RunNo: **5909**
Prep Date: **9/22/2012**	Analysis Date: **10/1/2012**	SeqNo: **170206** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.3	70	130			
Surr: 4-Bromofluorobenzene	0.38		0.5000		76.7	70	130			
Surr: Dibromofluoromethane	0.41		0.5000		81.2	70	130			
Surr: Toluene-d8	0.36		0.5000		72.6	70	130			

Sample ID **LCS-3881**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **3881**	RunNo: **5909**
Prep Date: **9/22/2012**	Analysis Date: **10/1/2012**	SeqNo: **170207** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.6	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.37		0.5000		73.2	70	130			

Sample ID **1209921-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **3881**	RunNo: **5909**
Prep Date: **9/22/2012**	Analysis Date: **10/1/2012**	SeqNo: **170211** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.39		0.4845		80.5	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.4845		81.2	70	130			
Surr: Dibromofluoromethane	0.50		0.4845		102	70	130			
Surr: Toluene-d8	0.34		0.4845		69.9	70	130			S

Sample ID **1209921-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **3881**	RunNo: **5909**
Prep Date: **9/22/2012**	Analysis Date: **10/1/2012**	SeqNo: **170212** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.41		0.4826		85.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.39		0.4826		81.1	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4826		105	70	130	0	0	
Surr: Toluene-d8	0.35		0.4826		71.5	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-4086**	SampType: **MBLK**	TestCode: **EPA Method 7471: Mercury**
Client ID: **PBS**	Batch ID: **4086**	RunNo: **6082**
Prep Date: **10/8/2012**	Analysis Date: **10/9/2012**	SeqNo: **175476** Units: **mg/kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID **LCS-4086**	SampType: **LCS**	TestCode: **EPA Method 7471: Mercury**
Client ID: **LCSS**	Batch ID: **4086**	RunNo: **6082**
Prep Date: **10/8/2012**	Analysis Date: **10/9/2012**	SeqNo: **175477** Units: **mg/kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	104	80	120			

Sample ID **1210279-008CMS**	SampType: **MS**	TestCode: **EPA Method 7471: Mercury**
Client ID: **BatchQC**	Batch ID: **4086**	RunNo: **6082**
Prep Date: **10/8/2012**	Analysis Date: **10/9/2012**	SeqNo: **175510** Units: **mg/kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1665	0.01287	84.9	75	125			

Sample ID **1210279-008CMSD**	SampType: **MSD**	TestCode: **EPA Method 7471: Mercury**
Client ID: **BatchQC**	Batch ID: **4086**	RunNo: **6082**
Prep Date: **10/8/2012**	Analysis Date: **10/9/2012**	SeqNo: **175511** Units: **mg/kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1686	0.01287	82.8	75	125	1.08	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-4033**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS**	Batch ID: **4033**	RunNo: **5937**
Prep Date: **10/2/2012**	Analysis Date: **10/3/2012**	SeqNo: **171082** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Calcium	ND	25								
Chromium	ND	0.30								
Lead	ND	0.25								
Magnesium	ND	25								
Potassium	ND	50								
Selenium	ND	2.5								
Silver	ND	0.25								
Sodium	ND	25								

Sample ID **LCS-4033**	SampType: **LCS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS**	Batch ID: **4033**	RunNo: **5937**
Prep Date: **10/2/2012**	Analysis Date: **10/3/2012**	SeqNo: **171083** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	30	2.5	25.00	0	119	80	120			
Barium	26	0.10	25.00	0	102	80	120			
Cadmium	27	0.10	25.00	0	108	80	120			
Calcium	2600	25	2500	18.15	101	80	120			
Chromium	26	0.30	25.00	0	103	80	120			
Lead	26	0.25	25.00	0	104	80	120			
Magnesium	2500	25	2500	0.5985	101	80	120			
Potassium	2500	50	2500	0	99.6	80	120			
Selenium	32	2.5	25.00	0	130	80	120			S
Silver	5.2	0.25	5.000	0	104	80	120			
Sodium	2500	25	2500	0	100	80	120			

Sample ID **1209913-008AMS**	SampType: **MS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **BatchQC**	Batch ID: **4033**	RunNo: **5937**
Prep Date: **10/2/2012**	Analysis Date: **10/3/2012**	SeqNo: **171457** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	26	12	24.89	0	104	75	125			
Cadmium	23	0.50	24.89	0	94.2	75	125			
Chromium	32	1.5	24.89	10.26	87.4	75	125			
Lead	28	1.2	24.89	4.058	94.5	75	125			
Selenium	26	12	24.89	0	103	75	125			
Silver	4.6	1.2	4.979	0	92.0	75	125			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **1209913-008AMSD**	SampType: **MSD**		TestCode: **EPA Method 6010B: Soil Metals**		
Client ID: **BatchQC**	Batch ID: **4033**		RunNo: **5937**		
Prep Date: **10/2/2012**	Analysis Date: **10/3/2012**		SeqNo: **171458**	Units: **mg/Kg**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	12	24.96	0	91.2	75	125	12.4	20	
Cadmium	24	0.50	24.96	0	95.2	75	125	1.29	20	
Chromium	31	1.5	24.96	10.26	82.0	75	125	4.16	20	
Lead	26	1.2	24.96	4.058	89.6	75	125	4.28	20	
Selenium	19	12	24.96	0	75.9	75	125	30.4	20	R
Silver	4.7	1.2	4.992	0	94.4	75	125	2.83	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209901**

16-Oct-12

Client: Animas Environmental Services

Project: BMG Llaves Landfarm/Evaporation Pond

Sample ID **MB-3909**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **3909**	RunNo: **5769**
Prep Date: **9/24/2012**	Analysis Date: **9/26/2012**	SeqNo: **165777** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-3909**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **3909**	RunNo: **5769**
Prep Date: **9/24/2012**	Analysis Date: **9/26/2012**	SeqNo: **165778** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID **1209A43-001AMS**	SampType: **MS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **3909**	RunNo: **5769**
Prep Date: **9/24/2012**	Analysis Date: **9/26/2012**	SeqNo: **165799** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2710	20.0	1000	1679	103	80	120			

Sample ID **1209A43-001AMSD**	SampType: **MSD**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **3909**	RunNo: **5769**
Prep Date: **9/24/2012**	Analysis Date: **9/26/2012**	SeqNo: **165800** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2710	20.0	1000	1679	103	80	120	0.0737	20	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1209901**

Received by/date: 09/20/12

Logged By: **Ashley Gallegos** **9/20/2012 10:00:00 AM**

Completed By: **Ashley Gallegos** **9/20/2012 2:38:29 PM**

Reviewed By: 09/21/12

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information)	Yes ✔	No	NA
5. Was an attempt made to cool the samples?	Yes ✔	No	NA
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✔	No	NA
7. Sample(s) in proper container(s)?	Yes ✔	No	
8. Sufficient sample volume for indicated test(s)?	Yes ✔	No	
9. Are samples (except VOA and ONG) properly preserved?	Yes ✔	No	
10. Was preservative added to bottles?	Yes	No ✔	NA
11. VOA vials have zero headspace?	Yes ✔	No	No VOA Vials
12. Were any sample containers received broken?	Yes	No ✔	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	# of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	(<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes ✔	No	Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✔	No	Checked by:

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: eMail Phone Fax In Person

Regarding:

Client Instructions:

18. Additional remarks:

19. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:

X Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other ________

☐ EDD (Type) ________

Turn-Around Time:

X Standard ☐ Rush ________

Project Name: BMG Llaves Landfarm/ Evaporation Pond

Project #: AES 040605

Project Manager: D. Watson

Sampler: L. LamonE

[illegible]

[illegible]

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. 1209601	BTEX 8021	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	TDS SM2540C	Metals (6010/6020/7471)	Cations/Anions 300.0	Cyanide SM4500-Cn-C									Air Bubbles (Y or N)
9-18-2012	1447	H_2O	MW-1	6-40mL glass 2-500mL plastic	5 - HCl / 2 - Non / 1 - HNO3	-001	x	x	x	x	x											
9-18-2012	1400	H_2O	MW-2	6-40mL glass 2-500mL plastic	5 - HCl / 2 - Non / 1 - HNO3	-002	x	x	x	x	x											
9-18-2012	1335	H_2O	MW-3	6-40mL glass 2-500mL plastic	5 - HCl / 2 - Non / 1 - HNO3	-003	x	x	x	x	x											
9-18-2012	1421	H_2O	MW-4	6-40mL glass 2-500mL plastic	5 - HCl / 2 - Non / 1 - HNO3	-004	x	x	x	x	x											
9-18-2012	1530	H_2O	Interstitial Well	6-40mL glass 2-500mL plastic	5 - HCl / 2 - Non / 1 - HNO3	-005	x	x	x	x	x											
9-18-2012	1132	Soil	Vadose Zone Cell #1	1-MeOH Kit 4-4 oz glass	1 - MeOH 4 - Non	-006	x	x	x		x	x	x									
9-18-2012	1104	Soil	Vadose Zone Cell #2	1-MeOH Kit 4-4 oz glass	1 - MeOH 4 - Non	-007	x	x	x		x	x	x									
9-18-2012	1018	Soil	Vadose Zone Cell #3	1-MeOH Kit 4-4 oz glass	1 - MeOH 4 - Non	-008	x	x	x		x	x	x									
9-18-2012	0954	Soil	Vadose Zone Cell #4	1-MeOH Kit 4-4 oz glass	1 - MeOH 4 - Non	-009	x	x	x		x	x	x									
9-18-2012	1210	Soil	Treatment Zone	1-MeOH Kit 2-4 oz glass	1 - MeOH 2 - Non	-010	x	x	x													
9-18-2012		H_2O	Trip Blank	2-40mL glass	2 - HCl	-011	x															

Date	Time	Relinquished by	Received by	Date	Time
9/19/12	1643	[signature]	Christine Walters	9/19/12	1643
9/19/12	1724	Christine Walters	[signature]	09/20/12	1000

Remarks: Metals (6010/6020/7471) As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Mg, Na, K, and Ca

Cations/Anions: chloride, fluoride, nitrate as nitrogen and sulfate

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.