

July 31, 2012

Mr. John Axelson, P.G.
State of Colorado Oil & Gas Conservation Commission
1120 Lincoln St., Suite 801
Denver, CO 80203

Subject: Variance for Remedial Alternative, Schwake A-2 Tank Battery, Facility No. 100305, NWNE Sec 6, T-11-N, R-52-W, Logan County, Colorado

Dear Mr. Axelson:

East Cheyenne Gas Storage, LLC (ECGS) is performing remedial activities at the Schwake A-2 Tank Battery site pursuant to the Remediation Work Plan conditionally approved by the Colorado Oil & Gas Conservation Commission (COGCC) on February 2, 2010. The landfarm was constructed in December of 2010 and bioremediation of the affected soil commenced at that time. Based on the recent sampling results collected in May 2012 for the landfarm contents, all but a small volume of the affected soil has been treated to applicable standards. ECGS is submitting this variance request to dispose of the residual amount of affected soil in an off-site landfill rather than continue operation of the landfarm.

The landfarm has successfully treated approximately 2,200 cubic yards (CY) of total petroleum hydrocarbon (TPH) affected soil. As of May 5, 2012, approximately 400 CY of soil were reported to exceed the COGCC action level for TPH of 500 mg/kg (as specified in Table 910-1 of the COGCC 900 Series Exploration and Production Waste Management Rules). The most direct approach to address the residual affected soil is through off-site disposal.

COGCC Form 4 and the associated Closure Work Plan are attached to this transmittal. With COGCC approval, ECGS will excavated, load, and haul the residual affected soil to Waste Management's Buffalo Ridge Landfill in Keensburg, Colorado. Based on current projections, this activity can be completed within 90 days of COGCC approval of the variance request, including the restoration of the surface conditions at the site.

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We trust the benefits of the revised remedial approach are readily apparent and look forward to receiving any comments or questions concerning the requested variance. Please contact Dennis Schilly at (281) 600-1052 or me at (713) 403-6479 should you need further information.

Sincerely,



Ron Richards
Sr. Vice President
Engineering and Operations

cc: Camille Mikhail, Chevron Global Upstream
Jim Webber, Coral Production Company
Paul Stefan, Environmental Resources Management
Dennis Schilly, Environmental Resources Management

Attachments: COGCC Form 4 and Closure Work Plan

COGCC Form 4 and Closure Work Plan
Attachment 1

July 31, 2012

East Cheyenne Gas Storage, LLC
10370 Richmond Avenue, Suite 510
Houston, TX 77042

Closure Work Plan *Attachment 1*

1.0 Introduction

East Cheyenne Gas Storage, LLC is performing remedial activities at the Schwake Well A-2 Tank Battery site in Peetz, Colorado (the site). The site originally consisted of three pits that were historically used to manage liquids generated from production activities. The remedial activities are being performed in accordance with the findings of a site investigation and subsequent remedial design to address an Alleged Notice of Violation to Schneider Energy Services Inc. dated March 31, 2009 from the Colorado Oil and Gas Conservation Commission (COGCC). COGCC conditionally approved the Remediation Work Plan in a letter dated February 2, 2010.

As per the approved work plan, a landfarm was constructed on site in 2010 to bioremediate the reported concentrations of total petroleum hydrocarbon (TPH)-affected materials that were excavated from the Main Pit. At that time, approximately 2,600 cubic yards (CY) of TPH-affected material was transferred to the landfarm. The landfarm has been active since that time. Soil samples were collected and analyzed for TPH in 2011 and 2012 to measure the effectiveness of the remediation program. As of May 5, 2012, approximately 400 in-place CY of soil were reported to exceed the COCGG action level for TPH (500 mg/kg, as specified in Table 910-1 of the COGCC 900 Series Exploration and Production Waste Management Rules). These results suggest that most of the TPH-affected soil, approximately 2,200 CY, was treated. The remaining volume of soil that exceeds the COGCC action level for TPH is low enough that it is reasonable to consider excavating the residual soil and disposing in an off-site landfill. In this way, site restoration activities will commence and close the site in 2012 versus the potential to continue to operate the landfarm.

The purpose of this document is to describe the proposed change in approach for addressing the residual affected soil present in the landfarm. The proposed approach is consistent with the requirements of COGCC Rule 907.e.2., and will serve to: (1) reduce the potential environmental risks for the site by addressing the affected material; and (2) accelerate the schedule for site closure and restoration.

1.1 Scope and Objectives

The scope of this work plan includes the removal and disposal of the material in the landfarm, restoration of the disturbed areas, and closure of the site.

Specific objectives include:

- Provide an overview of the effectiveness of the landfarm bioremediation to date and set the context for closure of the landfarm;
- Revise the site closure work plan for the remaining TPH-affected soil, consistent with COCGG Rule 907e.2;
- Collect and analyze one soil sample from each of the 57 grids to confirm the reported concentrations of TPH;

- Excavate the landfarm and place the unaffected soil back into the on-site pits and dispose of the TPH-affected soil (TPH \geq 500 mg/kg) at Waste Management's Buffalo Ridge Landfill in Keensburg, Colorado; and
- Perform site restoration activities and close the site consistent with the approved work plan.

1.2 Background Information

The Schwake Well A-2 Tank Battery site is located in the Schwake lease adjacent to the No. 1 well. Figure 1 shows the location of the site in Peets, Colorado. The areas of focus for the remedial activities consisted of three former production water pits, including:

- A Main Pit, measuring approximately 175 feet (ft) long by 80 ft wide by eight (8) ft below grade;
- An Overflow Pit, measuring approximately 145 ft long by 50 ft wide by 12 ft below grade; and
- A circular crude Skimmer Pit, with a diameter of 18 ft by 5 ft below grade.

In accordance with the approved work plan, the remedial construction activities were completed between October and December 2010 to address elevated concentrations of TPH in the Main Pit and Skimmer Pit. The work included the construction of an on-site landfarm; removal and placement of 2,600 cubic yards of TPH-affected material from the Main Pit to the landfarm for bioremediation; removal and off-site disposal of liquids from the Skimmer Pit; excavation and off-site disposal to an approved disposal facility of TPH-affected material from the Skimmer Pit; and collection of confirmation samples. Figure 2 includes a layout of the site illustrating the location of the pits and landfarm. The results of the remedial construction activities were included in the *Remedial Construction Completion Report, Schwake A-2 Tank Battery*, dated March 24, 2011.

The landfarm consists of an approximate four-acre area containing two treatment cells. Within the two treatment cells are 57 grids (Figure 3 and Figure 4). The landfarm has been in operation since December 2010. The remediation program consisted of a series of tilling events followed by soil sampling events. Soil samples were collected on May 5, 2011, July 19, 2011, August 19, 2011, November 17, 2011, and May 15, 2012 and analyzed for TPH – gasoline range organics (TPH-GRO) and TPH – diesel range organics (TPH-DRO) to assess the effectiveness of the first year of the remediation program. In addition, the May 5, 2011 samples were analyzed for benzene, ethylbenzene, toluene, and total xylenes (BTEX) to assess if these constituents were present at concentrations of concern in the landfarm. The following section discusses the results of the sampling program.

1.3 Summary of Remediation Results

A summary of the reported analytical results from the Landfarm sampling events is included in Table 1 and Figure 4 and Appendix A includes laboratory analytical reports. The concentration of TPH reported in Table 1 represents the sum of the concentrations of TPH-GRO and TPH-DRO that was analyzed for each sample and reported by the laboratory. A review of the reported results from the last sampling event for 2011 (performed on November 11, 2011) indicated that six of the 57 grids (L1, G1, G2, G3, G5, and G6) exceeded the Colorado COGCC

action level for TPH (500 mg/kg). These six grids were sampled again on May 15, 2012 to establish a baseline for the 2012 remedial activities. The reported concentrations of TPH in the May 2012 samples varied from the November 2011 results by approximately 10%. This variability is consistent with the range expected for soil sampling, suggesting that the starting TPH concentrations for 2012 are consistent with the end of 2011. A review of the May 2012 sample results indicates that five grids (L1, G2, G3, G5, and G6) remain above the COGCC action level for TPH. These results suggest that approximately 2,200 CY of the landfarm soil has achieved the remediation goal for TPH and approximately 400 CY have reported TPH concentrations that are above the remediation goal for TPH.

Because of the cold winter season in this area, the active treatment period for the landfarm is approximately seven months (April to November).

2.0 Scope of Work

Consistent with the approved work plan, this section outlines a scope of work for site closure that includes returning approximate 2,200 CY of treated soil to the pits and off-site disposal of the approximate 400 CY of soil that exceeds the action level for TPH.

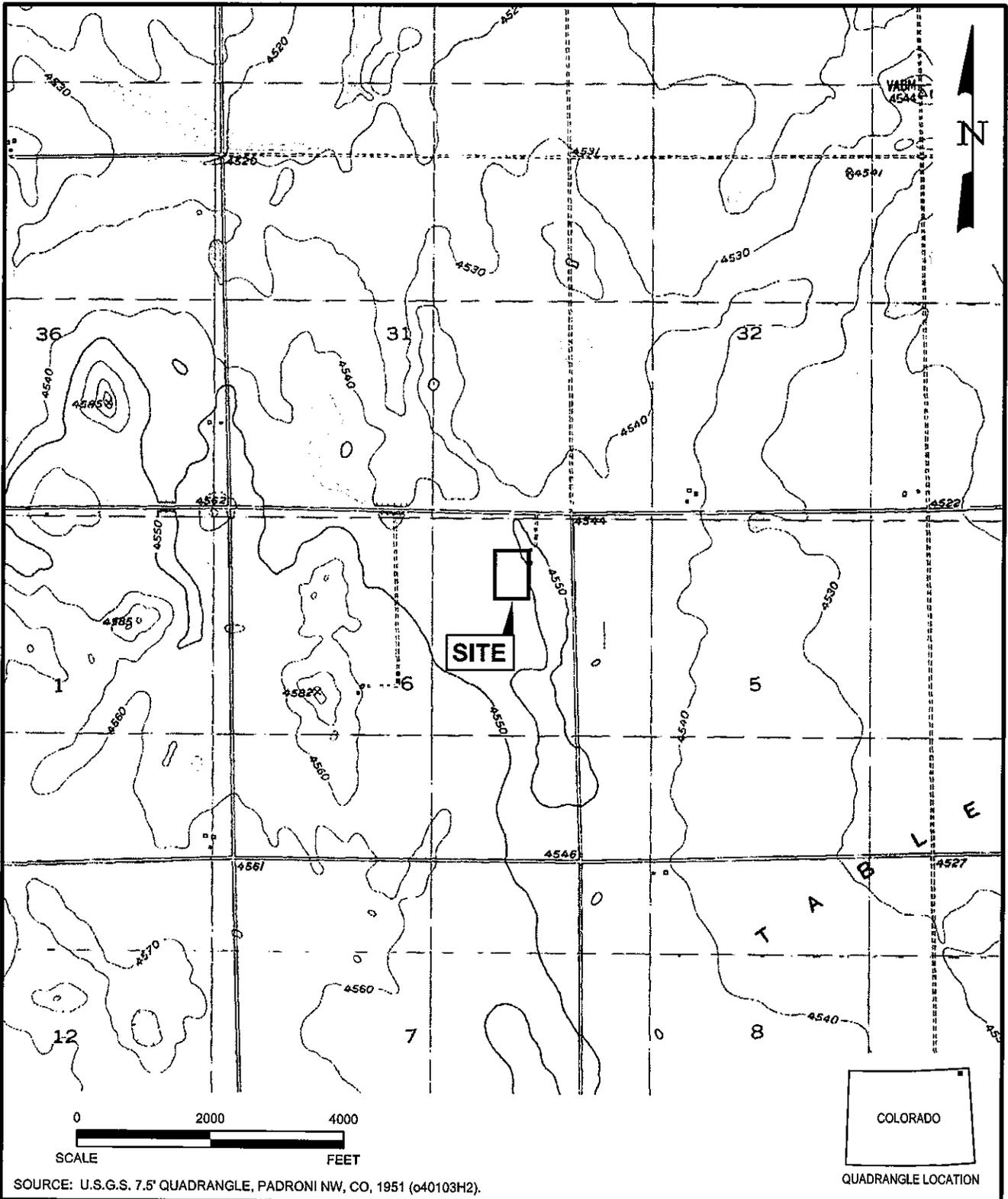
The proposed site closure includes the following steps:

- Collect one soil sample in each of the 57 grids of the landfarm to confirm the reported concentrations of TPH and volumes of TPH-affected and treated soil;
- Excavate and load only the grids with TPH-affected soils (TPH \geq 500 mg/kg) in the landfarm and the associated sand drainage layer, and transport and dispose of the affected soils and sand to the approved off-site landfill, Waste Management's Buffalo Ridge Landfill in Keensburg, CO;
- Excavate and load the treated soils (TPH < 500 mg/kg) in the landfarm and associated landfarm construction material, including the sand drainage layer and clay liner, and transport and place these materials in the Main Pit, Skimmer Pit and Overflow Pit;
- The treated soils, sand layer and clay liner will be excavated one layer at a time, in a manner that facilitates segregation and layered backfilling of this material in the pits in the following sequence: treated soil on the bottom, overlain by sand, overlain by clay;
- Backfill the Main, Skimmer, and Overflow Pits with topsoil from surrounding berm, grade and slope to drain;
- Perform confirmation sampling in the excavated landfarm area, in compliance with Rule 907(e)2, to confirm the limits of the excavation are below COGCC Table 910-1 limits for TPH and that no significant releases have occurred from the landfarm during its operation;
- Upon receipt that the confirmation samples are below COGCC Table 910-1 limits, backfill the landfarm with the on-site stockpiled topsoil originally removed from the landfarm for its construction and restore area to original grade;
- Hydroseed disturbed areas, including the landfarm and three pits, upon completion of work with native seed for growing season.

These steps are consistent with COGCC-approved procedures.

Figures

July 31, 2012
Project No. 0104362



ERM-Southwest, Inc. TX PE Firm No. 2393

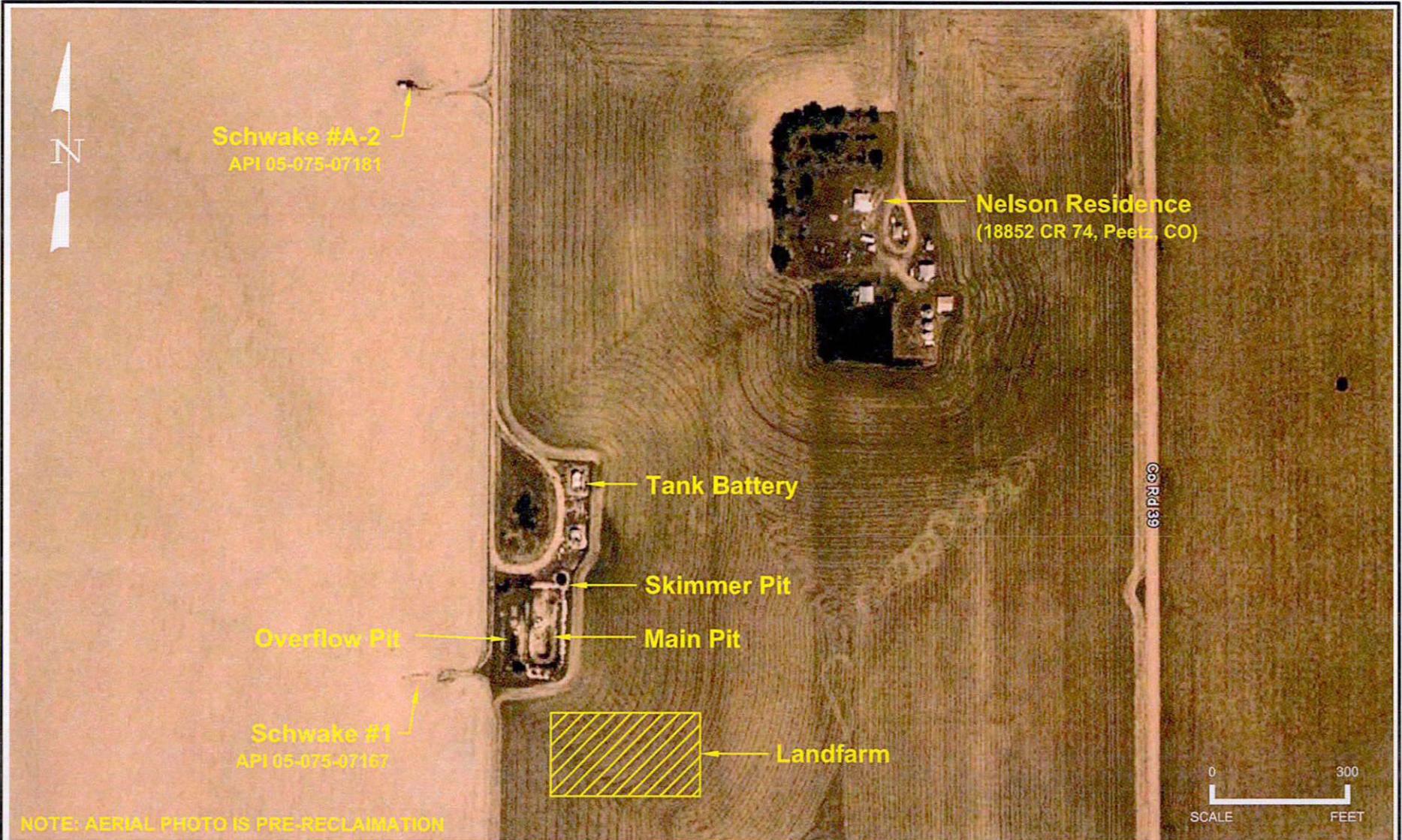
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Environmental Resources Management

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FIGURE 1
 SITE LOCATION MAP
 Facility ID 100305
 Peetz West (68300)
 Logan County, Colorado





ERM-Southwest, Inc. TX PE Firm No. 2393

Environmental Resources Management

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FIGURE 2
 SITE LAYOUT MAP
 Facility ID 100305
 Peetz West (68300)
 Logan County, Colorado



A1	A2
328.68	81.4
B1	B2
149	90.8
C1	C2
50.4	151
D1	D2
163	232

J1	J2
3160	345
43300	
197	
	K1
	408
	L1
	3570
	4880

North



Key

G5
Composite TPH Sample
Results

2510-5/5/11
1040-7/19/11
936-8/19/11
876-11/17/11
792-5/15/2012

E1	E2	E3	E4	E5	E6	E7	E8	E9
273	137	123	730.93	707	581.68	283	167	70.9
			61.1	138	29.3			
F1	F2	F3	F4	F5	F6	F7	F8	F9
154	203	224	567	132	153	210	144	90.5
			392					
G1	G2	G3	G4	G5	G6	G7	G8	G9
2270	969	4657.9	4849.7	2510	2377.99	7115.3	548	960
9420	8880	19000	266	2040	3740	445	24500	460
531	735	1440	266	875	1070		202	
302	782	1670		865	943			
H1	H2	H3	H4	H5	H6	H7	H8	H9
729.4	521.68	910.2	443	118	156	330	754.17	224
155	74.0	149					29900	
							1530	
							120	
I1	I2	I3	I4	I5	I6	I7	I8	I9
553.49	783	647	496.51	416.37	203.33	437.5	399	327
280	212	286						

NOT TO SCALE

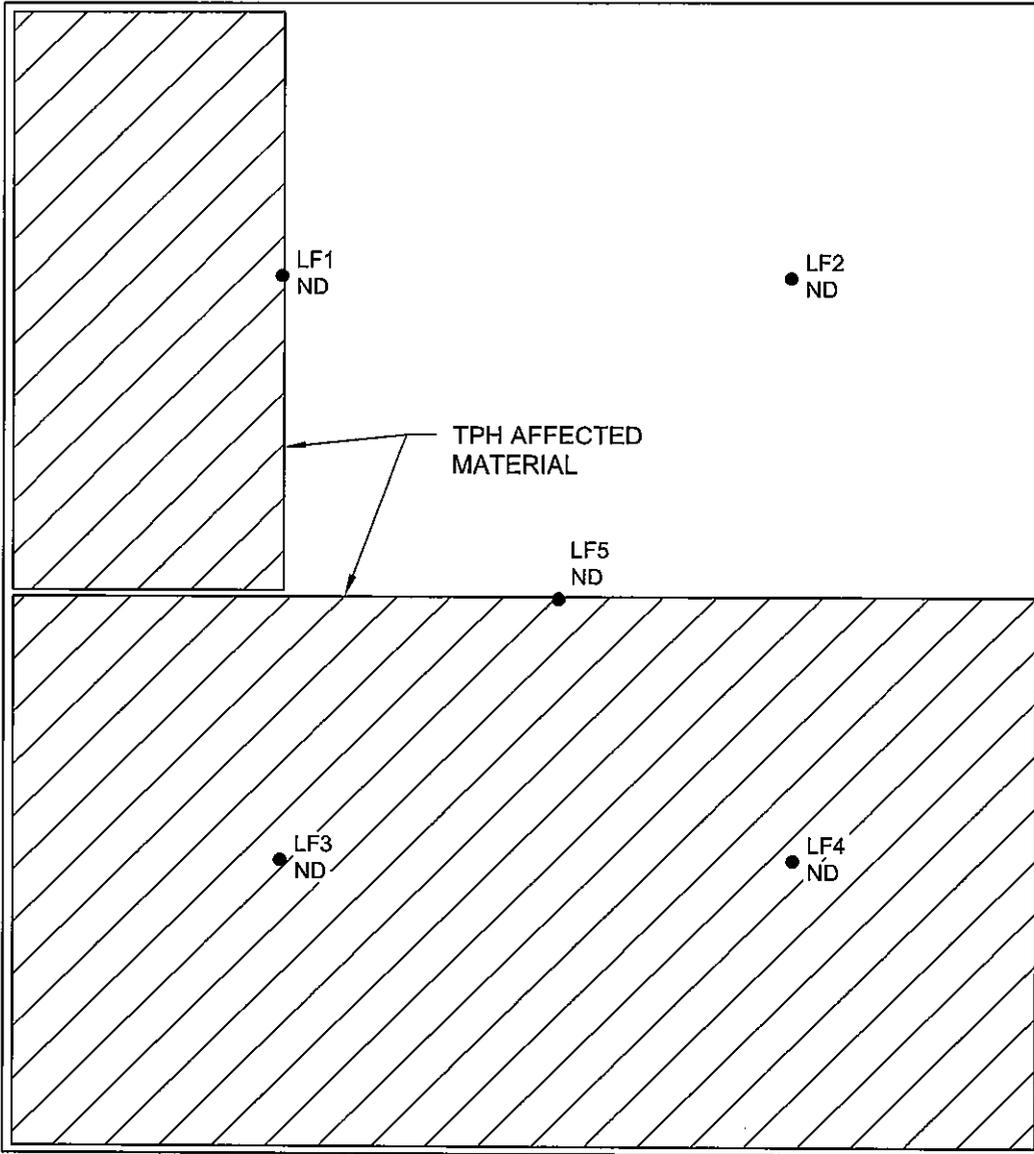
Environmental Resources Management

FIGURE 3
REPORTED CONCENTRATIONS OF TPH IN LANDFARM
Facility ID 100305
Peetz West (68300)
Logan County, Colorado



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LEGEND

LF1 ● PRE-CONSTRUCTION LANDFARM CONFIRMATION SOIL SAMPLE LOCATION WITH TOTAL PETROLEUM HYDROCARBON (TPH) RESULT IN mg/kg

ND NOT DETECTED



Environmental Resources Management

FIGURE 4
LANDFARM LAYOUT
Facility ID 100305
Peetz West (68300)
Logan County, Colorado



ERM-Southwest, Inc. TX PE Firm No. 2393

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Table

July 31, 2012
Project No. 0104362

TABLE 1

Summary of Soil Analytical Results

Schwake A-2 tank Battery Landfarm
Peetz, Colorado

Sample ID:		A1			A2			B1			B2			C1			C2			D1			
Sample Date		5/5/2011			5/5/2011			5/5/2011			5/5/2011			5/5/2011			5/5/2011			5/5/2011			
COGCC		Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
Analysis	Units																						
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	ND	0.058		ND	0.056		ND	0.06		ND	0.06		ND	0.058		ND	0.062		ND	0.059	
Toluene	mg/kg	85	ND	0.12		ND	0.11		ND	0.12		ND	0.12		ND	0.12		ND	0.12		ND	0.12	
Ethylbenzene	mg/kg	100	ND	0.12		ND	0.11		ND	0.12		ND	0.12		ND	0.12		ND	0.12		ND	0.12	
Xylene (Total)	mg/kg	175	ND	0.23		ND	0.23		ND	0.24		ND	0.24		ND	0.23		ND	0.25		ND	0.24	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	—	6.68	12	J	ND	11		ND	12		ND	12		ND	12		ND	12		ND	12	
TPH-DRO	mg/kg	—	322	14		81.4	14		149	15		90.8	15		50.4	14		151	15		163	15	
TPH	mg/kg	500	328.68			81.4			149			90.8			50.4			151			163		
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	ND	0.061		ND	0.059		ND	0.06		ND	0.057		ND	0.058		NA	—		ND	0.061	
Toluene	mg/kg	85	ND	0.12		ND	0.12		ND	0.12		0.186	0.11		ND	0.12		NA	—		ND	0.12	
Ethylbenzene	mg/kg	100	ND	0.12		ND	0.12		ND	0.12		0.1	0.11	J	ND	0.12		NA	—		ND	0.12	
Xylene (Total)	mg/kg	175	ND	0.24		ND	0.24		ND	0.24		0.181	0.23	J	ND	0.23		NA	—		ND	0.24	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	—	ND	12		ND	12		ND	12		ND	11		5.93	12	J	ND	12		ND	12	
TPH-DRO	mg/kg	—	232	15		273	15		137	15		123	14		725	14		61.1	15		707	15	
TPH	mg/kg	500	232			273			137			123			730.93			61.1			707		
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	NA	—		ND	0.059		NA	—		ND	0.063		ND	0.059		ND	0.57		ND	0.63	
Toluene	mg/kg	85	NA	—		ND	0.12		NA	—		ND	0.13		ND	0.12		ND	0.11		ND	0.13	
Ethylbenzene	mg/kg	100	NA	—		ND	0.12		NA	—		ND	0.13		ND	0.12		ND	0.11		ND	0.13	
Xylene (Total)	mg/kg	175	NA	—		ND	0.24		NA	—		ND	0.25		ND	0.24		ND	0.23		ND	0.25	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	—	ND	12		7.68	12	J	11	5.4		ND	13		ND	12		ND	11		ND	13	
TPH-DRO	mg/kg	—	138	15		574	15		29.3	14		283	15		167	15		70.9	14		154	15	
TPH	mg/kg	500	138			581.68			40.3			283			167			70.9			154		

NOTES:

- Analytical results are summarized in this table from a laboratory analytical reports and compared to COGCC regulatory limits listed in Table 910-1.
- The complete analytical reports are provided as an Appendix A.
- NA = Not Available.
- ND = Not Detected above standard detection limits.
- RL = Laboratory reporting limit.
- Qual. = Qualifier: J = estimated value
- Reported concentrations of TPH above the regulatory limit are shown in bold.

TABLE 1 (Cont'd.)

Summary of Soil Analytical Results

Schwake A-2 tank Battery Landfarm

Peetz, Colorado

Sample ID:		F2			F3			F4			F5			F6			F7					
Sample Date		5/5/2011			5/5/2011			5/5/2011			7/19/2011			5/5/2011			5/5/2011					
COGCC		Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.		
Analysis	Units																					
<i>Volatile Organic Compounds</i>																						
Benzene	mg/kg	0.170	ND	0.057		ND	0.061		ND	0.056		NA	---		ND	0.058		ND	0.057		ND	0.062
Toluene	mg/kg	85	ND	0.11		ND	0.12		ND	0.11		NA	---		ND	0.12		ND	0.11		ND	0.12
Ethylbenzene	mg/kg	100	ND	0.11		ND	0.12		ND	0.11		NA	---		ND	0.12		ND	0.11		ND	0.12
Xylene (Total)	mg/kg	175	ND	0.23		ND	0.24		ND	0.23		NA	---		ND	0.23		ND	0.23		ND	0.25
<i>Total Petroleum Hydrocarbons</i>																						
TPH-GRO	mg/kg	---	ND	11		ND	12		ND	11		ND	12		ND	12		ND	11		ND	12
TPH-DRO	mg/kg	---	203	14		224	15		567	14		392	15		132	14		153	14		210	15
TPH	mg/kg	500	203			224			567			392			132			153			210	

Sample ID:		F8			F9			G1			G2												
Sample Date		5/5/2011			5/5/2011			5/5/2011			7/19/2011			8/19/2011			11/17/2011			5/5/2011			
COGCC		Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
Analysis	Units																						
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	ND	0.06		ND	0.061		ND	0.06		NA	---		NA	---		NA	---		ND	0.059	
Toluene	mg/kg	85	ND	0.12		ND	0.12		ND	0.12		NA	---		NA	---		NA	---		ND	0.12	
Ethylbenzene	mg/kg	100	ND	0.12		ND	0.12		ND	0.12		NA	---		NA	---		NA	---		ND	0.12	
Xylene (Total)	mg/kg	175	ND	0.24		ND	0.25		ND	0.24		NA	---		NA	---		NA	---		ND	0.23	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	---	ND	12		ND	12		10.0	12	J	ND	12		ND	10		ND	13		ND	12	
TPH-DRO	mg/kg	---	144	15		90.5	15		2260	15		9420	370		531	14		302	72		859	15	
TPH	mg/kg	500	144			90.5			2270			9420			531			302			859		

Sample ID:		G2			G3																		
Sample Date		7/19/2011			8/19/2011			11/17/2011			5/15/2012			5/5/2011			7/19/2011			8/19/2011			
COGCC		Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
Analysis	Units																						
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	NA	---		NA	---		NA	---		NA	---		ND	0.06		NA	---		NA	---	
Toluene	mg/kg	85	NA	---		NA	---		NA	---		NA	---		ND	0.12		NA	---		NA	---	
Ethylbenzene	mg/kg	100	NA	---		NA	---		NA	---		NA	---		ND	0.12		NA	---		NA	---	
Xylene (Total)	mg/kg	175	NA	---		NA	---		NA	---		NA	---		ND	0.24		NA	---		NA	---	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	---	ND	11		ND	10		ND	12		ND	13		27.9	12		ND	11		ND	10	
TPH-DRO	mg/kg	---	8080	710		751	14		720	72		792	160		4630	29		16000	350		4560	68	
TPH	mg/kg	500	8080			751			720			792			4657.9			16000			4560		

NOTES:

- Analytical results are summarized in this table from a laboratory analytical reports and compared to COGCC regulatory limits listed in Table 910-1.
- The complete analytical reports are provided as an Appendix A.
- NA = Not Available.
- ND = Not Detected above standard detection limits.
- RL = Laboratory reporting limit.
- Qual. = Qualifier: J = estimated value
- Reported concentrations of TPH above the regulatory limit are shown in bold.

TABLE 1 (Cont'd.)

Summary of Soil Analytical Results

Schwake A-2 tank Battery Landfarm
Peetz, Colorado

Sample ID:		G3						G4						G5									
Sample Date		11/17/2011			5/15/2012			5/5/2011			7/19/2011			5/5/2011			7/19/2011			8/19/2011			
Analysis	Units	Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	NA	---		NA	---		ND	0.061		NA	---		ND	0.057		NA	---		NA	---	
Toluene	mg/kg	85	NA	---		NA	---		ND	0.12		NA	---		ND	0.11		NA	---		NA	---	
Ethylbenzene	mg/kg	100	NA	---		NA	---		ND	0.12		NA	---		ND	0.11		NA	---		NA	---	
Xylene (Total)	mg/kg	175	NA	---		NA	---		ND	0.24		NA	---		ND	0.23		NA	---		NA	---	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	---	ND	12		ND	11		19.7	12		ND	12		ND	11		ND	11		ND	10	
TPH-DRO	mg/kg	---	1440	15		1670	140		4830	30		266	15		2510	14		1040	29		936	14	
TPH	mg/kg	500	1440			1670			4849.7			266			2510			1040			936		

Sample ID:		G5						G6															
Sample Date		11/17/2011			5/15/2012			5/5/2011			7/19/2011			8/19/2011			11/17/2011			5/15/2012			
Analysis	Units	Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	NA	---		NA	---		ND	0.06		NA	---		NA	---		NA	---		NA	---	
Toluene	mg/kg	85	NA	---		NA	---		ND	0.12		NA	---		NA	---		NA	---		NA	---	
Ethylbenzene	mg/kg	100	NA	---		NA	---		ND	0.12		NA	---		NA	---		NA	---		NA	---	
Xylene (Total)	mg/kg	175	NA	---		NA	---		ND	0.24		NA	---		NA	---		NA	---		NA	---	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	---	ND	11		ND	11		7.99	12	J	ND	11		ND	10		ND	12		ND	11	
TPH-DRO	mg/kg	---	876	71		855	140		2370	15		3710	71		602	14		1070	72		943	140	
TPH	mg/kg	500	876			855			2378			3710			602			1070			943		

Sample ID:		G7						G8						G9									
Sample Date		5/5/2011			7/19/2011			5/5/2011			7/19/2011			8/19/2011			5/5/2011			7/19/2011			
Analysis	Units	Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
<i>Volatile Organic Compounds</i>																							
Benzene	mg/kg	0.170	ND	0.056		NA	---		ND	0.057		NA	---		NA	---		ND	0.06		NA	---	
Toluene	mg/kg	85	ND	0.11		NA	---		ND	0.11		NA	---		NA	---		ND	0.12		NA	---	
Ethylbenzene	mg/kg	100	0.0611	0.11	J	NA	---		ND	0.11		NA	---		NA	---		ND	0.12		NA	---	
Xylene (Total)	mg/kg	175	0.324	0.22		NA	---		ND	0.23		NA	---		NA	---		ND	0.24		NA	---	
<i>Total Petroleum Hydrocarbons</i>																							
TPH-GRO	mg/kg	---	15.3	11		ND	12		ND	11		ND	12		ND	10		ND	12		ND	12	
TPH-DRO	mg/kg	---	7100	210		445	30		548	14		24600	870		202	14		860	15		460	29	
TPH	mg/kg	500	7115.3			445			548			24600			202			860			460		

NOTES:

- Analytical results are summarized in this table from a laboratory analytical reports and compared to COGCC regulatory limits listed in Table 910-1.
- The complete analytical reports are provided as an Appendix A.
- NA = Not Available.
- ND = Not Detected above standard detection limits.
- RL = Laboratory reporting limit.
- Qual. = Qualifier: J = estimated value
- Reported concentrations of TPH above the regulatory limit are shown in bold.

TABLE 1 (Cont'd.)

Summary of Soil Analytical Results

Schwake A-2 tank Battery Landfarm
Peetz, Colorado

Sample ID:		H1						H2						H3						H4					
Sample Date		5/5/2011			7/19/2011			5/15/2012			7/19/2011			5/5/2011			7/19/2011			5/5/2011					
Analysis	Units	Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.		
<i>Volatile Organic Compounds</i>																									
Benzene	mg/kg	0.170	ND	0.059		NA	---		ND	0.061		NA	---		ND	0.061		NA	---		ND	0.058			
Toluene	mg/kg	85	ND	0.12		NA	---		ND	0.12		NA	---		ND	0.12		NA	---		ND	0.12			
Ethylbenzene	mg/kg	100	ND	0.12		NA	---		ND	0.12		NA	---		ND	0.12		NA	---		ND	0.12			
Xylene (Total)	mg/kg	175	ND	0.24		NA	---		ND	0.24		NA	---		ND	0.24		NA	---		ND	0.23			
<i>Total Petroleum Hydrocarbons</i>																									
TPH-GRO	mg/kg	---	10.4	12	J	ND	12		6.68	12	J	ND	12		12.2	12		ND	12		ND	12			
TPH-DRO	mg/kg	---	719	15		155	15		515	15		74.0	15		898	15		149	15		443	14			
TPH	mg/kg	500	729.4			155			521.68			74			910.2			149			443				

Sample ID:		H5						H6						H7						H8					
Sample Date		5/5/2011			5/5/2011			5/5/2011			5/5/2011			7/19/2011			8/19/2011			11/17/2011					
Analysis	Units	Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.		
<i>Volatile Organic Compounds</i>																									
Benzene	mg/kg	0.170	ND	0.06		ND	0.057		ND	0.056		ND	0.058		NA	---		NA	---		NA	---			
Toluene	mg/kg	85	ND	0.12		ND	0.11		ND	0.11		ND	0.12		NA	---		NA	---		NA	---			
Ethylbenzene	mg/kg	100	ND	0.12		ND	0.11		ND	0.11		ND	0.12		NA	---		NA	---		NA	---			
Xylene (Total)	mg/kg	175	ND	0.24		ND	0.23		ND	0.23		ND	0.23		NA	---		NA	---		NA	---			
<i>Total Petroleum Hydrocarbons</i>																									
TPH-GRO	mg/kg	---	ND	12		ND	11		ND	11		7.17	12	J	ND	12		ND	10		ND	10			
TPH-DRO	mg/kg	---	118	15		156	14		330	14		747	14		29600	2200		1530	13		120	14			
TPH	mg/kg	500	118			156			330			754.17			29600			1530			120				

Sample ID:		H9						I1						I2						I3					
Sample Date		5/5/2011			5/5/2011			7/19/2011			5/5/2011			7/19/2011			5/5/2011			7/19/2011					
Analysis	Units	Limit	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.		
<i>Volatile Organic Compounds</i>																									
Benzene	mg/kg	0.170	ND	0.057		ND	0.058		NA	---		ND	0.057		NA	---		ND	0.059		NA	---			
Toluene	mg/kg	85	0.07	0.11		ND	0.12		NA	---		ND	0.11		NA	---		ND	0.12		NA	---			
Ethylbenzene	mg/kg	100	ND	0.11		ND	0.12		NA	---		ND	0.11		NA	---		ND	0.12		NA	---			
Xylene (Total)	mg/kg	175	ND	0.23		ND	0.23		NA	---		ND	0.23		NA	---		ND	0.24		NA	---			
<i>Total Petroleum Hydrocarbons</i>																									
TPH-GRO	mg/kg	---	ND	11		7.44	12		ND	12		ND	11		ND	11		ND	12		ND	11			
TPH-DRO	mg/kg	---	224	14		546	14		260	15		783	14		212	14		647	15		286	14			
TPH	mg/kg	500	224			553.44			260			783			212			647			286				

NOTES:

- Analytical results are summarized in this table from a laboratory analytical reports and compared to COGCC regulatory limits listed in Table 910-1.
- The complete analytical reports are provided as an Appendix A.
- NA = Not Available.
- ND = Not Detected above standard detection limits.
- RL = Laboratory reporting limit.
- Qual. = Qualifier: J = estimated value
- Reported concentrations of TPH above the regulatory limit are shown in bold.

TABLE 1 (Cont'd.)

Summary of Soil Analytical Results

Schwabe A-2 tank Battery Landfarm
Peetz, Colorado

Analysis	Units	Sample ID: I4			I5			I6			I7			I8			I9			J1		
		Limit	Sample Date		Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
			5/5/2011	5/5/2011																		
<i>Volatile Organic Compounds</i>																						
Benzene	mg/kg	0.170	ND	0.06		ND	0.058		ND	0.062		ND	0.058		ND	0.058		ND	0.054		NA	---
Toluene	mg/kg	85	ND	0.12		ND	0.12		ND	0.12		ND	0.12		ND	0.12		ND	0.11		NA	---
Ethylbenzene	mg/kg	100	ND	0.12		ND	0.12		ND	0.12		ND	0.12		ND	0.12		ND	0.11		NA	---
Xylene (Total)	mg/kg	175	ND	0.24		ND	0.23		ND	0.25		ND	0.23		ND	0.23		ND	0.22		NA	---
<i>Total Petroleum Hydrocarbons</i>																						
TPH-GRO	mg/kg	---	7.51	12		6.37	12	J	7.33	12	J	10.5	12	J	ND	12		ND	11		ND	11
TPH-DRO	mg/kg	---	459	15		410	14		196	15		427	14		399	14		327	14		3160	140
TPH	mg/kg	500	466.51			416.37			203.33			437.5			399			327			3160	

Analysis	Units	Sample ID: J1			J1			J2			K1			L1			L1					
		Limit	Sample Date		Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.	Result	RL	Qual.
			8/19/2011	11/17/2011																		
<i>Volatile Organic Compounds</i>																						
Benzene	mg/kg	0.170	NA	---		NA	---		NA	---		NA	---		NA	---		NA	---			
Toluene	mg/kg	85	NA	---		NA	---		NA	---		NA	---		NA	---		NA	---			
Ethylbenzene	mg/kg	100	NA	---		NA	---		NA	---		NA	---		NA	---		NA	---			
Xylene (Total)	mg/kg	175	NA	---		NA	---		NA	---		NA	---		NA	---		NA	---			
<i>Total Petroleum Hydrocarbons</i>																						
TPH-GRO	mg/kg	---	ND	11		ND	12		ND	11		ND	11		ND	12		ND	11			
TPH-DRO	mg/kg	---	43300	1100		197	14		345	71		406	70		3570	72		4880	140			
TPH	mg/kg	500	43300			197			345			406			3570			4880				

NOTES:

- Analytical results are summarized in this table from a laboratory analytical reports and compared to COGCC regulatory limits listed in Table 910-1.
- The complete analytical reports are provided as an Appendix A.
- NA = Not Available.
- ND = Not Detected above standard detection limits.
- RL = Laboratory reporting limit.
- Qual. = Qualifier: J = estimated value
- Reported concentrations of TPH above the regulatory limit are shown in bold.

Analytical Lab Reports
Appendix A

July 31, 2012
Project No. 0104362



07/13/12

Technical Report for

ERM-Rocky Mountain, Inc.

Landfarm, Peetz, CO

Accutest Job Number: D23238

Sampling Date: 05/05/11

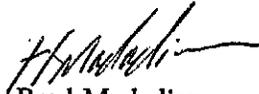
Report to:

chris.thebo@erm.com

Total number of pages in report: 250



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

ERM-Rocky Mountain, Inc.

Job No: D23238

Landfarm, Peetz, CO

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D23238-1	05/05/11	06:45 GT	05/05/11	SO	Soil	A1
D23238-2	05/05/11	06:50 GT	05/05/11	SO	Soil	A2
D23238-3	05/05/11	07:05 GT	05/05/11	SO	Soil	B1
D23238-4	05/05/11	07:15 GT	05/05/11	SO	Soil	B2
D23238-5	05/05/11	08:15 GT	05/05/11	SO	Soil	C1
D23238-6	05/05/11	08:16 GT	05/05/11	SO	Soil	C11
D23238-7	05/05/11	08:20 GT	05/05/11	SO	Soil	C2
D23238-8	05/05/11	08:25 GT	05/05/11	SO	Soil	D1
D23238-9	05/05/11	08:27 GT	05/05/11	SO	Soil	D2
D23238-10	05/05/11	08:30 GT	05/05/11	SO	Soil	D22
D23238-11	05/05/11	08:40 GT	05/05/11	SO	Soil	E1
D23238-12	05/05/11	08:45 GT	05/05/11	SO	Soil	E2
D23238-13	05/05/11	08:50 GT	05/05/11	SO	Soil	F1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary
(continued)

ERM-Rocky Mountain, Inc.
Landfarm, Peetz, CO

Job No: D23238

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D23238-14	05/05/11	08:53 GT	05/05/11	SO	Soil	H1
D23238-15	05/05/11	08:55 GT	05/05/11	SO	Soil	F2
D23238-16	05/05/11	09:00 GT	05/05/11	SO	Soil	G1
D23238-17	05/05/11	09:05 GT	05/05/11	SO	Soil	G2
D23238-18	05/05/11	09:10 GT	05/05/11	SO	Soil	F11
D23238-19	05/05/11	09:15 GT	05/05/11	SO	Soil	H2
D23238-20	05/05/11	09:20 GT	05/05/11	SO	Soil	I1
D23238-21	05/05/11	09:25 GT	05/05/11	SO	Soil	I2
D23238-22	05/05/11	09:35 GT	05/05/11	SO	Soil	E3
D23238-23	05/05/11	09:40 GT	05/05/11	SO	Soil	E4
D23238-24	05/05/11	09:45 GT	05/05/11	SO	Soil	F3
D23238-25	05/05/11	09:50 GT	05/05/11	SO	Soil	F4
D23238-26	05/05/11	09:55 GT	05/05/11	SO	Soil	G3

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

ERM-Rocky Mountain, Inc.

Job No: D23238

Landfarm, Peetz, CO

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D23238-27	05/05/11	10:00 GT	05/05/11	SO	Soil	G4
D23238-28	05/05/11	10:05 GT	05/05/11	SO	Soil	H3
D23238-29	05/05/11	10:10 GT	05/05/11	SO	Soil	H4
D23238-30	05/05/11	10:15 GT	05/05/11	SO	Soil	I3
D23238-31	05/05/11	10:20 GT	05/05/11	SO	Soil	I4
D23238-32	05/05/11	10:25 GT	05/05/11	SO	Soil	E5
D23238-33	05/05/11	10:30 GT	05/05/11	SO	Soil	E6
D23238-34	05/05/11	10:32 GT	05/05/11	SO	Soil	F5
D23238-35	05/05/11	10:35 GT	05/05/11	SO	Soil	F6
D23238-36	05/05/11	10:40 GT	05/05/11	SO	Soil	G5
D23238-37	05/05/11	10:45 GT	05/05/11	SO	Soil	G6
D23238-38	05/05/11	10:50 GT	05/05/11	SO	Soil	H5
D23238-39	05/05/11	10:55 GT	05/05/11	SO	Soil	H6

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

ERM-Rocky Mountain, Inc.

Job No: D23238

Landfarm, Peetz, CO

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D23238-40	05/05/11	11:00 GT	05/05/11	SO	Soil	I5
D23238-41	05/05/11	11:05 GT	05/05/11	SO	Soil	I6
D23238-42	05/05/11	11:10 GT	05/05/11	SO	Soil	E7
D23238-43	05/05/11	11:15 GT	05/05/11	SO	Soil	E8
D23238-44	05/05/11	11:16 GT	05/05/11	SO	Soil	E88
D23238-45	05/05/11	11:20 GT	05/05/11	SO	Soil	F7
D23238-46	05/05/11	11:25 GT	05/05/11	SO	Soil	F8
D23238-47	05/05/11	11:45 GT	05/05/11	SO	Soil	G7
D23238-48	05/05/11	11:50 GT	05/05/11	SO	Soil	G8
D23238-49	05/05/11	11:55 GT	05/05/11	SO	Soil	H7
D23238-50	05/05/11	12:00 GT	05/05/11	SO	Soil	H8
D23238-51	05/05/11	12:30 GT	05/05/11	SO	Soil	I7
D23238-52	05/05/11	12:35 GT	05/05/11	SO	Soil	I8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

ERM-Rocky Mountain, Inc.
Landfarm, Peetz, CO

Job No: D23238

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D23238-53	05/05/11	12:40	GT	05/05/11	SO Soil	E9
D23238-54	05/05/11	12:45	GT	05/05/11	SO Soil	F9
D23238-55	05/05/11	12:50	GT	05/05/11	SO Soil	G9
D23238-56	05/05/11	12:55	GT	05/05/11	SO Soil	H9
D23238-57	05/05/11	12:58	GT	05/05/11	SO Soil	I9
D23238-58	05/05/11	12:47	GT	05/05/11	SO Soil	G99
D23238-59	05/05/11	13:02	GT	05/05/11	SO Soil	I99

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM-Rocky Mountain, Inc.

Job No D23238

Site: Schwake Landfarm, Peetz, CO

Report Dat 5/19/2011 9:02:26 AM

On 05/05/2011, 59 samples, 0 Trip Blanks, and 0 Field Blanks were received at Accutest Mountain States (AMS) at a temperature of 1.0°C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D23238 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix SO	Batch ID: V3V630
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-49MS and D23238-49MSD were used as the QC samples indicated.
- Samples D23235-1MS, D23235-1MSD, D23289-1MS, D23289-1MSD, and D23238-57 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: V3V631
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-18MS and D23238-18MSD were used as the QC samples indicated.
- Samples D23235-1MS, D23235-1MSD, D23289-1MS, D23289-1MSD, and D23238-57 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: V3V634
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-1MS and D23238-1MSD were used as the QC samples indicated.
- Samples D23235-1MS, D23235-1MSD, D23289-1MS, D23289-1MSD, and D23238-57 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: V3V643
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- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-19MS and D23238-19MSD were used as the QC samples indicated.
- Samples DD23235-1MS, D23235-1MSD, D23289-1MS, 23289-1MSD, and D23238-57 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: V5V894
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- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23235-1MS and D23235-1MSD were used as the QC samples indicated.
- Samples D23235-1MS, D23235-1MSD, D23289-1MS, D23289-1MSD, and D23238-57 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: V5V895
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- All samples were analyzed within the recommended method holding time.

Volatiles by GCMS By Method SW846 8260B

Matrix SO	Batch ID: V5V895
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- Samples D23238-35MS and D23238-35MSD were used as the QC samples indicated.
- The method blank for this batch meets method specific criteria.
- Samples D23235-1MS, D23235-1MSD, D23289-1MS, D23289-1MSD, and D23238-57 have surrogates outside control limits. Probable cause due to matrix interference.

Volatiles by GC By Method SW846 8015B

Matrix SO	Batch ID: GGB618
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- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-1MS and D23238-1MSD were used as the QC samples indicated.

Matrix SO	Batch ID: GGB619
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- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-21MS and D23238-21MSD were used as the QC samples indicated.

Matrix SO	Batch ID: GGB620
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- All samples were analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-41MS and D23238-41MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP3622
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- All samples were extracted and analyzed within the recommended method holding time.
- Samples D23190-1MS and D23190-1MSD were used as the QC samples indicated.
- The method blank for this batch meets method specific criteria.
- The matrix spike duplicate (MSD) recovery of TPH-DRO (C10-C28) is outside control limits. Probable cause due to matrix interference. Refer to the lab control or spike blank for recovery information.
- Sample OP3648-MSD has the surrogate outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: OP3623
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- All samples were extracted and analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-11MS and D23238-11MSD were used as the QC samples indicated.
- Sample OP3648-MSD has the surrogate outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: OP3626
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- All samples were extracted and analyzed within the recommended method holding time.
- The method blank for this batch meets method specific criteria.
- Samples D23238-40MS and D23238-40MSD were used as the QC samples indicated.
- Sample OP3648-MSD has the surrogate outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: OP3633
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- All samples were extracted and analyzed within the recommended method holding time.
- Samples D23275-1MS and D23275-1MSD were used as the QC samples indicated.
- The method blank for this batch meets method specific criteria.
- The RPD for the MS and MSD recoveries of TPH-DRO (C10-C28) is outside control limits for sample OP3633-MSD. The high RPD is due to possible sample nonhomogeneity.
- Sample OP3648-MSD has the surrogate outside control limits. Probable cause due to matrix interference.

Matrix SO	Batch ID: OP3648
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- All samples were extracted and analyzed within the recommended method holding time.
- Samples D23388-1MS and D23388-1MSD were used as the QC samples indicated.
- The method blank for this batch meets method specific criteria.
- The RPD for the MS and MSD recoveries of TPH-DRO (C10-C28) is outside control limits for sample OP3648-MSD. Probable cause due to sample homogeneity.
- Sample OP3648-MSD has the surrogate outside control limits. Probable cause due to matrix interference.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN9485
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- The data for SM19 2540B M meets quality control requirements.

Matrix SO	Batch ID: GN9497
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- The data for SM19 2540B M meets quality control requirements.

Matrix SO	Batch ID: GN9527
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- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Job Number: D23238
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 05/05/11



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D23238-1	A1					
TPH-GRO (C6-C10)		6.68 J	12	5.8	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		322	14	9.4	mg/kg	SW846-8015B
D23238-2	A2					
TPH-DRO (C10-C28)		81.4	14	9.2	mg/kg	SW846-8015B
D23238-3	B1					
TPH-DRO (C10-C28)		149	15	9.5	mg/kg	SW846-8015B
D23238-4	B2					
TPH-DRO (C10-C28)		90.8	15	9.5	mg/kg	SW846-8015B
D23238-5	C1					
TPH-DRO (C10-C28)		50.4	14	9.4	mg/kg	SW846-8015B
D23238-6	C11					
TPH-DRO (C10-C28)		46.7	15	9.5	mg/kg	SW846-8015B
D23238-7	C2					
TPH-DRO (C10-C28)		151	15	9.8	mg/kg	SW846-8015B
D23238-8	D1					
TPH-DRO (C10-C28)		163	15	9.5	mg/kg	SW846-8015B
D23238-9	D2					
TPH-DRO (C10-C28)		232	15	9.6	mg/kg	SW846-8015B
D23238-10	D22					
Toluene		123	120	59	ug/kg	SW846 8260B
Ethylbenzene		30.2 J	120	29	ug/kg	SW846 8260B
Xylene (total)		80.7 J	240	59	ug/kg	SW846 8260B
TPH-DRO (C10-C28)		296	15	9.5	mg/kg	SW846-8015B

Summary of Hits

Job Number: D23238
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 05/05/11

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D23238-11	E1					
TPH-DRO (C10-C28)		273	15	9.5	mg/kg	SW846-8015B
D23238-12	E2					
TPH-DRO (C10-C28)		137	15	9.6	mg/kg	SW846-8015B
D23238-13	F1					
TPH-DRO (C10-C28)		154	15	9.8	mg/kg	SW846-8015B
D23238-14	H1					
TPH-GRO (C6-C10)		10.4 J	12	5.9	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		719	15	9.5	mg/kg	SW846-8015B
D23238-15	F2					
TPH-DRO (C10-C28)		203	14	9.3	mg/kg	SW846-8015B
D23238-16	G1					
TPH-GRO (C6-C10)		10.0 J	12	6.0	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		2260	15	9.6	mg/kg	SW846-8015B
D23238-17	G2					
TPH-DRO (C10-C28)		859	15	9.4	mg/kg	SW846-8015B
D23238-18	F11					
TPH-DRO (C10-C28)		134	15	9.5	mg/kg	SW846-8015B
D23238-19	H2					
TPH-GRO (C6-C10)		6.68 J	12	6.1	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		515	15	9.6	mg/kg	SW846-8015B
D23238-20	I1					
TPH-GRO (C6-C10)		7.44 J	12	5.8	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		546	14	9.3	mg/kg	SW846-8015B

Summary of Hits

Job Number: D23238
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 05/05/11



Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
D23238-21	I2					
TPH-DRO (C10-C28)		783	14	9.3	mg/kg	SW846-8015B
D23238-22	E3					
Toluene		186	110	57	ug/kg	SW846 8260B
Ethylbenzene		56.0 J	110	29	ug/kg	SW846 8260B
Xylene (total)		181 J	230	57	ug/kg	SW846 8260B
TPH-DRO (C10-C28)		123	14	9.3	mg/kg	SW846-8015B
D23238-23	E4					
TPH-GRO (C6-C10)		5.93 J	12	5.8	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		725	14	9.3	mg/kg	SW846-8015B
D23238-24	F3					
TPH-DRO (C10-C28)		224	15	9.6	mg/kg	SW846-8015B
D23238-25	F4					
TPH-DRO (C10-C28)		567	14	9.2	mg/kg	SW846-8015B
D23238-26	G3					
TPH-GRO (C6-C10)		27.9	12	6.0	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		4630	29	19	mg/kg	SW846-8015B
D23238-27	G4					
TPH-GRO (C6-C10)		19.7	12	6.1	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		4830	30	19	mg/kg	SW846-8015B
D23238-28	H3					
TPH-GRO (C6-C10)		12.2	12	6.1	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		898	15	9.6	mg/kg	SW846-8015B
D23238-29	H4					
TPH-DRO (C10-C28)		443	14	9.4	mg/kg	SW846-8015B

Summary of Hits

Job Number: D23238
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 05/05/11



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D23238-30	I3					
TPH-DRO (C10-C28)		647	15	9.5	mg/kg	SW846-8015B
D23238-31	I4					
TPH-GRO (C6-C10)		7.51 J	12	6.0	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		459	15	9.5	mg/kg	SW846-8015B
D23238-32	E5					
TPH-DRO (C10-C28)		707	15	9.6	mg/kg	SW846-8015B
D23238-33	E6					
TPH-GRO (C6-C10)		7.68 J	12	5.9	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		574	15	9.5	mg/kg	SW846-8015B
D23238-34	F5					
TPH-DRO (C10-C28)		132	14	9.4	mg/kg	SW846-8015B
D23238-35	F6					
TPH-DRO (C10-C28)		153	14	9.2	mg/kg	SW846-8015B
D23238-36	G5					
TPH-DRO (C10-C28)		2510	14	9.3	mg/kg	SW846-8015B
D23238-37	G6					
TPH-GRO (C6-C10)		7.99 J	12	6.0	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		2370	15	9.6	mg/kg	SW846-8015B
D23238-38	H5					
TPH-DRO (C10-C28)		118	15	9.6	mg/kg	SW846-8015B
D23238-39	H6					
TPH-DRO (C10-C28)		156	14	9.3	mg/kg	SW846-8015B

Summary of Hits

Job Number: D23238
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 05/05/11



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D23238-40	I5					
TPH-GRO (C6-C10)		6.37 J	12	5.8	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		410	14	9.4	mg/kg	SW846-8015B
D23238-41	I6					
TPH-GRO (C6-C10)		7.33 J	12	6.2	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		196	15	9.7	mg/kg	SW846-8015B
D23238-42	E7					
TPH-DRO (C10-C28)		283	15	9.8	mg/kg	SW846-8015B
D23238-43	E8					
TPH-DRO (C10-C28)		167	15	9.5	mg/kg	SW846-8015B
D23238-44	E88					
TPH-DRO (C10-C28)		114	14	9.2	mg/kg	SW846-8015B
D23238-45	F7					
TPH-DRO (C10-C28)		210	15	9.7	mg/kg	SW846-8015B
D23238-46	F8					
TPH-DRO (C10-C28)		144	15	9.5	mg/kg	SW846-8015B
D23238-47	G7					
Ethylbenzene		61.1 J	110	28	ug/kg	SW846 8260B
Xylene (total)		324	220	56	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		15.3	11	5.6	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		7100	210	140	mg/kg	SW846-8015B
D23238-48	G8					
TPH-DRO (C10-C28)		548	14	9.3	mg/kg	SW846-8015B
D23238-49	H7					
TPH-DRO (C10-C28)		330	14	9.2	mg/kg	SW846-8015B

Summary of Hits

Job Number: D23238
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 05/05/11



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D23238-50	H8					
TPH-GRO (C6-C10)		7.17 J	12	5.8	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		747	14	9.3	mg/kg	SW846-8015B
D23238-51	I7					
TPH-GRO (C6-C10)		10.5 J	12	5.8	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		427	14	9.3	mg/kg	SW846-8015B
D23238-52	I8					
TPH-DRO (C10-C28)		399	14	9.4	mg/kg	SW846-8015B
D23238-53	E9					
TPH-DRO (C10-C28)		70.9	14	9.3	mg/kg	SW846-8015B
D23238-54	F9					
TPH-DRO (C10-C28)		90.5	15	9.7	mg/kg	SW846-8015B
D23238-55	G9					
TPH-DRO (C10-C28)		860	15	9.5	mg/kg	SW846-8015B
D23238-56	H9					
Toluene		69.0 J	110	57	ug/kg	SW846 8260B
TPH-DRO (C10-C28)		224	14	9.3	mg/kg	SW846-8015B
D23238-57	I9					
TPH-DRO (C10-C28)		327	14	9.0	mg/kg	SW846-8015B
D23238-58	G99					
TPH-DRO (C10-C28)		372	14	9.4	mg/kg	SW846-8015B
D23238-59	I99					
TPH-DRO (C10-C28)		497	14	9.3	mg/kg	SW846-8015B



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: A1		Date Sampled: 05/05/11
Lab Sample ID: D23238-1		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.5
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11324.D	1	05/11/11	DC	n/a	n/a	V3V634
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	26	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%
17060-07-0	1,2-Dichloroethane-D4	90%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: A1		Date Sampled: 05/05/11
Lab Sample ID: D23238-1		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.5
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10613.D	1	05/06/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.68	12	5.8	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: A1		Date Sampled: 05/05/11
Lab Sample ID: D23238-1		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.5
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06665.D	1	05/10/11	JB	05/06/11	OP3622	GFD290
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	322	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	91%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: A2		Date Sampled: 05/05/11
Lab Sample ID: D23238-2		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.9
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11299.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	56	25	ug/kg	
108-88-3	Toluene	ND	110	56	ug/kg	
100-41-4	Ethylbenzene	ND	110	28	ug/kg	
1330-20-7	Xylene (total)	ND	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%
17060-07-0	1,2-Dichloroethane-D4	90%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: A2	Date Sampled: 05/05/11
Lab Sample ID: D23238-2	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 93.9
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10616.D	1	05/06/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	93%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: A2		Date Sampled: 05/05/11
Lab Sample ID: D23238-2		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.9
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06666.D	1	05/10/11	JB	05/06/11	OP3622	GFD290
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	81.4	14	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	81%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: B1		Date Sampled: 05/05/11
Lab Sample ID: D23238-3		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11298.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	83%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: B1		Date Sampled: 05/05/11
Lab Sample ID: D23238-3		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10617.D	1	05/06/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	95%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: B1		Date Sampled: 05/05/11
Lab Sample ID: D23238-3		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06667.D	1	05/10/11	JB	05/06/11	OP3622	GFD290
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	149	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: B2		Date Sampled: 05/05/11
Lab Sample ID: D23238-4		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.0
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11297.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	81%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: B2		Date Sampled: 05/05/11
Lab Sample ID: D23238-4		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.0
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10618.D	1	05/06/11	BR	n/a	n/a	GGB618
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: B2		Date Sampled: 05/05/11
Lab Sample ID: D23238-4		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06668.D	1	05/10/11	JB	05/06/11	OP3622	GFD290
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	90.8	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	82%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

44
4

Report of Analysis

Client Sample ID: C1		Date Sampled: 05/05/11
Lab Sample ID: D23238-5		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.2
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11296.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	25	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	88%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: C1		Date Sampled: 05/05/11
Lab Sample ID: D23238-5		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.2
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10619.D	1	05/06/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: C1		Date Sampled: 05/05/11
Lab Sample ID: D23238-5		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.2
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06669.D	1	05/10/11	JB	05/06/11	OP3622	GFD290
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRÓ (C10-C28)	50.4	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	89%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: C11		Date Sampled: 05/05/11
Lab Sample ID: D23238-6		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11295.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	87%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: C11		
Lab Sample ID: D23238-6		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 90.7
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10620.D	1	05/06/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	94%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: C11		Date Sampled: 05/05/11
Lab Sample ID: D23238-6		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06670.D	1	05/10/11	JB	05/06/11	OP3622	GFD290
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	46.7	15	9.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		61-142%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: C2		Date Sampled: 05/05/11
Lab Sample ID: D23238-7		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.6
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11294.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	62	27	ug/kg	
108-88-3	Toluene	ND	120	62	ug/kg	
100-41-4	Ethylbenzene	ND	120	31	ug/kg	
1330-20-7	Xylene (total)	ND	250	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: C2		Date Sampled: 05/05/11
Lab Sample ID: D23238-7		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.6
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10621.D	1	05/06/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	84%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: C2		Date Sampled: 05/05/11
Lab Sample ID: D23238-7		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.6
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06671.D	1	05/10/11	JB	05/06/11	OP3622	GFD290
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	151	15	9.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: D1	Date Sampled: 05/05/11
Lab Sample ID: D23238-8	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 91.3
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11293.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: D1		
Lab Sample ID: D23238-8		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 91.3
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10622.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	95%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: D1		Date Sampled: 05/05/11
Lab Sample ID: D23238-8		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01966.D	1	05/10/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	163	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: D2		Date Sampled: 05/05/11
Lab Sample ID: D23238-9		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.8
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11292.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.08 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	61	27	ug/kg	
108-88-3	Toluene	ND	120	61	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: D2		Date Sampled: 05/05/11
Lab Sample ID: D23238-9		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10623.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	91%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: D2	
Lab Sample ID: D23238-9	Date Sampled: 05/05/11
Matrix: SO - Soil	Date Received: 05/05/11
Method: SW846-8015B SW846 3546	Percent Solids: 89.8
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01967.D	1	05/10/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	232	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: D22		Date Sampled: 05/05/11
Lab Sample ID: D23238-10		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.5
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11291.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	123	120	59	ug/kg	
100-41-4	Ethylbenzene	30.2	120	29	ug/kg	J
1330-20-7	Xylene (total)	80.7	240	59	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	83%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

4.10
4

Client Sample ID: D22		Date Sampled: 05/05/11
Lab Sample ID: D23238-10		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.5
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10624.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: D22	
Lab Sample ID: D23238-10	Date Sampled: 05/05/11
Matrix: SO - Soil	Date Received: 05/05/11
Method: SW846-8015B SW846 3546	Percent Solids: 91.5
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01968.D	1	05/10/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	296	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	98%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: E1		Date Sampled: 05/05/11
Lab Sample ID: D23238-11		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.4
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11290.D	1	05/11/11	DC	n/a	n/a	V3V631
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	240	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	81%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.11
4

Report of Analysis

Client Sample ID: E1		Date Sampled: 05/05/11
Lab Sample ID: D23238-11		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.4
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10626.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	87%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.11
4

Report of Analysis

Client Sample ID: E1		Date Sampled: 05/05/11
Lab Sample ID: D23238-11		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.4
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01965.D	1	05/10/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	273	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.11
4

Report of Analysis

Client Sample ID: E2		Date Sampled: 05/05/11
Lab Sample ID: D23238-12		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.5
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11289.D	1	05/10/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	27	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.12
4

Report of Analysis

4.12
4

Client Sample ID: E2	Date Sampled: 05/05/11
Lab Sample ID: D23238-12	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 90.5
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10627.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	93%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E2		Date Sampled: 05/05/11
Lab Sample ID: D23238-12		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.5
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01969.D	1	05/11/11	JB	05/09/11	OP3623	GF1129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	137	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.12
4

Report of Analysis

Client Sample ID: F1		Date Sampled: 05/05/11
Lab Sample ID: D23238-13		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.0
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11288.D	1	05/10/11	DC	n/a	n/a	V3V631
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	63	28	ug/kg	
108-88-3	Toluene	ND	130	63	ug/kg	
100-41-4	Ethylbenzene	ND	130	32	ug/kg	
1330-20-7	Xylene (total)	ND	250	63	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%
17060-07-0	1,2-Dichloroethane-D4	88%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID: F1		Date Sampled: 05/05/11
Lab Sample ID: D23238-13		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.0
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10628.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	13	6.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID: F1		Date Sampled: 05/05/11
Lab Sample ID: D23238-13		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01970.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	154	15	9.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		61-142%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID: H1		Date Sampled: 05/05/11
Lab Sample ID: D23238-14		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11287.D	1	05/10/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%
17060-07-0	1,2-Dichloroethane-D4	90%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.14
4

Report of Analysis

Client Sample ID: H1		Date Sampled: 05/05/11
Lab Sample ID: D23238-14		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10629.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.4	12	5.9	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	98%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.14
4

Report of Analysis

Client Sample ID: H1		Date Sampled: 05/05/11
Lab Sample ID: D23238-14		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01971.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	719	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.14
4

Report of Analysis

Client Sample ID: F2		Date Sampled: 05/05/11
Lab Sample ID: D23238-15		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11286.D	1	05/10/11	DC	n/a	n/a	V3V631
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	95%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.15
4

Report of Analysis

4.15
4

Client Sample ID: F2		Date Sampled: 05/05/11
Lab Sample ID: D23238-15		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10630.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	95%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: F2		Date Sampled: 05/05/11
Lab Sample ID: D23238-15		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01972.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	203	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	91%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.15
4

Report of Analysis

Client Sample ID: G1		Date Sampled: 05/05/11
Lab Sample ID: D23238-16		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11285.D	1	05/10/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%
17060-07-0	1,2-Dichloroethane-D4	87%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.16 4

Report of Analysis

Client Sample ID: G1		Date Sampled: 05/05/11
Lab Sample ID: D23238-16		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10631.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.0	12	6.0	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	87%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.16
4

Report of Analysis

4.16
4

Client Sample ID: G1		Date Sampled: 05/05/11
Lab Sample ID: D23238-16		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01973.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2260	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	73%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G2		Date Sampled: 05/05/11
Lab Sample ID: D23238-17		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.6
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11284.D	1	05/10/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	90%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.17
4

Report of Analysis

4.17
4

Client Sample ID: G2		Date Sampled: 05/05/11
Lab Sample ID: D23238-17		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.6
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10632.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	85%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G2		Date Sampled: 05/05/11
Lab Sample ID: D23238-17		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.6
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01974.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	859	15	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.17
4

Report of Analysis

Client Sample ID: F11		Date Sampled: 05/05/11
Lab Sample ID: D23238-18		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11281.D	1	05/10/11	DC	n/a	n/a	V3V631
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	88%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.18
4

Client Sample ID: F11		Date Sampled: 05/05/11
Lab Sample ID: D23238-18		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10633.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: F11		Date Sampled: 05/05/11
Lab Sample ID: D23238-18		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01976.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	134	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	97%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.18
4

Report of Analysis

Client Sample ID: H2		Date Sampled: 05/05/11
Lab Sample ID: D23238-19		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.9
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11448.D	1	05/17/11	DC	n/a	n/a	V3V643
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	61	27	ug/kg	
108-88-3	Toluene	ND	120	61	ug/kg	
100-41-4	Ethylbenzene	ND	120	31	ug/kg	
1330-20-7	Xylene (total)	ND	240	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%
17060-07-0	1,2-Dichloroethane-D4	93%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID: H2		Date Sampled: 05/05/11
Lab Sample ID: D23238-19		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10634.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.68	12	6.1	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	87%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

Client Sample ID: H2		Date Sampled: 05/05/11
Lab Sample ID: D23238-19		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.9
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01977.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	515	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I1	Lab Sample ID: D23238-20	Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8260B		Percent Solids: 92.7
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15292.D	1	05/11/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	25	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	73%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	120%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.20
4

Report of Analysis

Client Sample ID: I1		
Lab Sample ID: D23238-20		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 92.7
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10635.D	1	05/07/11	BR	n/a	n/a	GGB618
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	7.44	12	5.8	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.20
4

Client Sample ID: I1							
Lab Sample ID: D23238-20					Date Sampled: 05/05/11		
Matrix: SO - Soil					Date Received: 05/05/11		
Method: SW846-8015B SW846 3546					Percent Solids: 92.7		
Project: Landfarm, Peetz, CO							

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01978.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	546	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	82%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I2		Date Sampled: 05/05/11
Lab Sample ID: D23238-21		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.5
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	SV15291.D	1	05/11/11	DC	n/a	n/a	V5V895
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	28	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	73%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%
17060-07-0	1,2-Dichloroethane-D4	119%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.21
4

Client Sample ID: I2		Date Sampled: 05/05/11
Lab Sample ID: D23238-21		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.5
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10639.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I2		
Lab Sample ID: D23238-21		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846-8015B SW846 3546		Percent Solids: 93.5
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01979.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	783	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.21
4

Report of Analysis

4.22
4

Client Sample ID: E3		Date Sampled: 05/05/11
Lab Sample ID: D23238-22		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15290.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	186	110	57	ug/kg	
100-41-4	Ethylbenzene	56.0	110	29	ug/kg	J
1330-20-7	Xylene (total)	181	230	57	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	73%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%
17060-07-0	1,2-Dichloroethane-D4	113%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.22
4

Client Sample ID: E3		Date Sampled: 05/05/11
Lab Sample ID: D23238-22		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10642.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	97%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E3		Date Sampled: 05/05/11
Lab Sample ID: D23238-22		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01980.D	1	05/11/11	JB	05/09/11	OP3623	GF1129
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	123	14	9.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		61-142%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: E4	Date Sampled: 05/05/11
Lab Sample ID: D23238-23	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 93.0
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15289.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	25	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	72%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	121%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.23
4

Report of Analysis

4.23
4

Client Sample ID: E4	Date Sampled: 05/05/11
Lab Sample ID: D23238-23	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 93.0
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10643.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	5.93	12	5.8	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	97%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E4		Date Sampled: 05/05/11
Lab Sample ID: D23238-23		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Pectz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01981.D	1	05/11/11	JB	05/09/11	OP3623	GF1129
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	725	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	91%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.23
4

Report of Analysis

Client Sample ID: F3	Date Sampled: 05/05/11
Lab Sample ID: D23238-24	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 90.0
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15288.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	61	27	ug/kg	
108-88-3	Toluene	ND	120	61	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	76%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%
17060-07-0	1,2-Dichloroethane-D4	118%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.24
4

Report of Analysis

4.24
4

Client Sample ID: F3		Date Sampled: 05/05/11
Lab Sample ID: D23238-24		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.0
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10644.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	97%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: F3		Date Sampled: 05/05/11
Lab Sample ID: D23238-24		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI01982.D	1	05/11/11	JB	05/09/11	OP3623	GFI129
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	224	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.24
4

Report of Analysis

Client Sample ID: F4	Date Sampled: 05/05/11
Lab Sample ID: D23238-25	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 93.7
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15287.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	56	25	ug/kg	
108-88-3	Toluene	ND	110	56	ug/kg	
100-41-4	Ethylbenzene	ND	110	28	ug/kg	
1330-20-7	Xylene (total)	ND	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	74%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%
17060-07-0	1,2-Dichloroethane-D4	111%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: F4		Date Sampled: 05/05/11
Lab Sample ID: D23238-25		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10645.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	98%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: F4	Date Sampled: 05/05/11
Lab Sample ID: D23238-25	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 93.7
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02034.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	567	14	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected	MDL - Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

4.25
4

Report of Analysis

Client Sample ID: G3		Date Sampled: 05/05/11
Lab Sample ID: D23238-26		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15286.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	74%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%
17060-07-0	1,2-Dichloroethane-D4	124%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.26
4

Report of Analysis

4.26
4

Client Sample ID: G3		Date Sampled: 05/05/11
Lab Sample ID: D23238-26		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10646.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	27.9	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	108%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G3		Date Sampled: 05/05/11
Lab Sample ID: D23238-26		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02094.D	2	05/17/11	JB	05/09/11	OP3626	GFI135
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	4630	29	19	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	81%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.26
4

Report of Analysis

Client Sample ID: G4		Date Sampled: 05/05/11
Lab Sample ID: D23238-27		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.9
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15285.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	61	27	ug/kg	
108-88-3	Toluene	ND	120	61	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	73%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%
17060-07-0	1,2-Dichloroethane-D4	121%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.27
4

Report of Analysis

4.27
4

Client Sample ID: G4		Date Sampled: 05/05/11
Lab Sample ID: D23238-27		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10647.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	19.7	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	107%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G4	Date Sampled: 05/05/11
Lab Sample ID: D23238-27	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 89.9
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02095.D	2	05/17/11	JB	05/09/11	OP3626	GFI135
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	4830	30	19	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	67%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.27
4

Report of Analysis

Client Sample ID: H3		Date Sampled: 05/05/11
Lab Sample ID: D23238-28		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.9
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15284.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	61	27	ug/kg	
108-88-3	Toluene	ND	120	61	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	73%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	126%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.28
4

Client Sample ID: H3		Date Sampled: 05/05/11
Lab Sample ID: D23238-28		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10648.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	12.2	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	105%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.28
4

Client Sample ID: H3	Date Sampled: 05/05/11
Lab Sample ID: D23238-28	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 89.9
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02037.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	898	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H4		Date Sampled: 05/05/11
Lab Sample ID: D23238-29		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.0
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15283.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	26	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	73%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%
17060-07-0	1,2-Dichloroethane-D4	116%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.29
4

Report of Analysis

Client Sample ID: H4		Date Sampled: 05/05/11
Lab Sample ID: D23238-29		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.0
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10649.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	99%		60-140%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.29
4

Report of Analysis

Client Sample ID: H4		Date Sampled: 05/05/11
Lab Sample ID: D23238-29		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02038.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	443	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	96%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I3		Date Sampled: 05/05/11
Lab Sample ID: D23238-30		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.5
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15282.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	240	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	76%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%
17060-07-0	1,2-Dichloroethane-D4	125%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I3		
Lab Sample ID: D23238-30		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 91.5
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10650.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.30
4

Report of Analysis

4.30
4

Client Sample ID: I3		Date Sampled: 05/05/11
Lab Sample ID: D23238-30		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.5
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02039.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	647	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	96%		61-142%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I4		Date Sampled: 05/05/11
Lab Sample ID: D23238-31		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15281.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	76%		70-130%
460-00-4	4-Bromofluorobenzene	94%		70-130%
17060-07-0	1,2-Dichloroethane-D4	126%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I4		Date Sampled: 05/05/11
Lab Sample ID: D23238-31		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10652.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	7.51	12	6.0	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.31
4

Report of Analysis

Client Sample ID: I4		Date Sampled: 05/05/11
Lab Sample ID: D23238-31		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02040.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	459	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	97%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.31
4

Report of Analysis

Client Sample ID: E5	Date Sampled: 05/05/11
Lab Sample ID: D23238-32	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 89.8
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15280.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	61	27	ug/kg	
108-88-3	Toluene	ND	120	61	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	76%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	124%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.32
4

Client Sample ID: E5	Date Sampled: 05/05/11
Lab Sample ID: D23238-32	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 89.8
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10653.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	101%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E5		Date Sampled: 05/05/11
Lab Sample ID: D23238-32		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02041.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	707	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.32
4

Report of Analysis

Client Sample ID: E6	Date Sampled: 05/05/11
Lab Sample ID: D23238-33	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 91.2
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15279.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	74%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	119%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.33
4

Client Sample ID: E6	Date Sampled: 05/05/11
Lab Sample ID: D23238-33	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 91.2
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10654.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	7.68	12	5.9	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: E6	Date Sampled: 05/05/11
Lab Sample ID: D23238-33	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 91.2
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02042.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	574	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: F5	Date Sampled: 05/05/11
Lab Sample ID: D23238-34	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 92.3
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15278.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	26	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	76%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	118%		70-130%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.34
4

Report of Analysis

Client Sample ID: F5	Date Sampled: 05/05/11
Lab Sample ID: D23238-34	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 92.3
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10655.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	95%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: F5		Date Sampled: 05/05/11
Lab Sample ID: D23238-34		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02044.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	132	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.34
4

Report of Analysis

Client Sample ID: F6		Date Sampled: 05/05/11
Lab Sample ID: D23238-35		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15275.D	1	05/10/11	DC	n/a	n/a	V5V895
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	28	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	74%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%
17060-07-0	1,2-Dichloroethane-D4	126%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.35
4

Report of Analysis

Client Sample ID: F6		Date Sampled: 05/05/11
Lab Sample ID: D23238-35		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10656.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	98%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: F6		Date Sampled: 05/05/11
Lab Sample ID: D23238-35		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02045.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	153	14	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.35
4

Report of Analysis

Client Sample ID: G5		
Lab Sample ID: D23238-36		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8260B		Percent Solids: 93.2
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11274.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	28	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.36
4

Report of Analysis

Client Sample ID: G5		Date Sampled: 05/05/11
Lab Sample ID: D23238-36		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.2
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10657.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	86%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.36
4

Report of Analysis

Client Sample ID: G5		Date Sampled: 05/05/11
Lab Sample ID: D23238-36		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.2
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02050.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2510	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	79%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.36
4

Report of Analysis

Client Sample ID: G6	Date Sampled: 05/05/11
Lab Sample ID: D23238-37	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 90.1
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11273.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	27	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.37
4

Report of Analysis

Client Sample ID: G6		Date Sampled: 05/05/11
Lab Sample ID: D23238-37		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10658.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	7.99	12	6.0	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	90%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.37
4

Report of Analysis

Client Sample ID: G6		Date Sampled: 05/05/11
Lab Sample ID: D23238-37		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.1
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02051.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	2370	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	85%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.37
4

Report of Analysis

Client Sample ID: H5		Date Sampled: 05/05/11
Lab Sample ID: D23238-38		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11272.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	80%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%
17060-07-0	1,2-Dichloroethane-D4	87%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.38
4

Report of Analysis

Client Sample ID: H5		Date Sampled: 05/05/11
Lab Sample ID: D23238-38		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10659.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	98%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.38
4

Report of Analysis

Client Sample ID: H5		Date Sampled: 05/05/11
Lab Sample ID: D23238-38		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02052.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	118	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	97%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.38
4

Report of Analysis

Client Sample ID: H6	
Lab Sample ID: D23238-39	Date Sampled: 05/05/11
Matrix: SO - Soil	Date Received: 05/05/11
Method: SW846 8260B	Percent Solids: 92.8
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11271.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H6		Date Sampled: 05/05/11
Lab Sample ID: D23238-39		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GBI0660.D	1	05/07/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.39
4

Report of Analysis

Client Sample ID: H6	Date Sampled: 05/05/11
Lab Sample ID: D23238-39	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 92.8
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02053.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	156	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.39
4

Report of Analysis

Client Sample ID: I5		Date Sampled: 05/05/11
Lab Sample ID: D23238-40		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.4
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11267.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	26	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: I5		
Lab Sample ID: D23238-40		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 92.4
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10661.D	1	05/08/11	BR	n/a	n/a	GGB619
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.37	12	5.8	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	91%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: I5		Date Sampled: 05/05/11
Lab Sample ID: D23238-40		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.4
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02033.D	1	05/13/11	JB	05/09/11	OP3626	GF1133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	410	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	87%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.40
4

Report of Analysis

Client Sample ID: I6		Date Sampled: 05/05/11
Lab Sample ID: D23238-41		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11266.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	62	27	ug/kg	
108-88-3	Toluene	ND	120	62	ug/kg	
100-41-4	Ethylbenzene	ND	120	31	ug/kg	
1330-20-7	Xylene (total)	ND	250	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.41
4

Report of Analysis

Client Sample ID: I6	Date Sampled: 05/05/11
Lab Sample ID: D23238-41	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 88.7
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10666.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	7.33	12	6.2	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	104%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.41
4

Report of Analysis

Client Sample ID: I6		Date Sampled: 05/05/11
Lab Sample ID: D23238-41		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02054.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	196	15	9.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	99%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.41
4

Report of Analysis

Client Sample ID: E7		Date Sampled: 05/05/11
Lab Sample ID: D23238-42		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.4
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11265.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	63	28	ug/kg	
108-88-3	Toluene	ND	130	63	ug/kg	
100-41-4	Ethylbenzene	ND	130	32	ug/kg	
1330-20-7	Xylene (total)	ND	250	63	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	83%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.42
4

Report of Analysis

Client Sample ID: E7		Date Sampled: 05/05/11
Lab Sample ID: D23238-42		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.4
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10669.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	13	6.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	93%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.42
4

Report of Analysis

Client Sample ID: E7		Date Sampled: 05/05/11
Lab Sample ID: D23238-42		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 88.4
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02055.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	283	15	9.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.42
4

Report of Analysis

Client Sample ID: E8		Date Sampled: 05/05/11
Lab Sample ID: D23238-43		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.3
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11264.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%
17060-07-0	1,2-Dichloroethane-D4	87%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.43
4

Report of Analysis

Client Sample ID: E8		Date Sampled: 05/05/11
Lab Sample ID: D23238-43		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10670.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.43
4

Report of Analysis

Client Sample ID: E8		Date Sampled: 05/05/11
Lab Sample ID: D23238-43		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 91.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02056.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	167	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.43
4

Report of Analysis

Client Sample ID: E88		Date Sampled: 05/05/11
Lab Sample ID: D23238-44		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11263.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	28	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%
17060-07-0	1,2-Dichloroethane-D4	86%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.44
4

Report of Analysis

Client Sample ID: E88		Date Sampled: 05/05/11
Lab Sample ID: D23238-44		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10671.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.44
4

Report of Analysis

Client Sample ID: E88		Date Sampled: 05/05/11
Lab Sample ID: D23238-44		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI02057.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	114	14	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	94%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.44
4

Report of Analysis

Client Sample ID: F7		
Lab Sample ID: D23238-45		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8260B		Percent Solids: 89.3
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11262.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	62	27	ug/kg	
108-88-3	Toluene	ND	120	62	ug/kg	
100-41-4	Ethylbenzene	ND	120	31	ug/kg	
1330-20-7	Xylene (total)	ND	250	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	84%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%
17060-07-0	1,2-Dichloroethane-D4	91%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.45
4

Report of Analysis

Client Sample ID: F7		Date Sampled: 05/05/11
Lab Sample ID: D23238-45		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10672.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	94%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.45
4

Report of Analysis

Client Sample ID: F7		Date Sampled: 05/05/11
Lab Sample ID: D23238-45		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06727.D	1	05/11/11	JB	05/10/11	OP3633	GFD292
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	210	15	9.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	89%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.45
4

Report of Analysis

Client Sample ID: F8		Date Sampled: 05/05/11
Lab Sample ID: D23238-46		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11261.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: F8		Date Sampled: 05/05/11
Lab Sample ID: D23238-46		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10673.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.46
4

Report of Analysis

Client Sample ID: F8		Date Sampled: 05/05/11
Lab Sample ID: D23238-46		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06728.D	1	05/11/11	JB	05/10/11	OP3633	GFD292
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	144	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.46
4

Report of Analysis

Client Sample ID: G7		Date Sampled: 05/05/11
Lab Sample ID: D23238-47		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 94.1
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11260.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.03 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	56	25	ug/kg	
108-88-3	Toluene	ND	110	56	ug/kg	
100-41-4	Ethylbenzene	61.1	110	28	ug/kg	J
1330-20-7	Xylene (total)	324	220	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%
17060-07-0	1,2-Dichloroethane-D4	93%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.47
4

Report of Analysis

Client Sample ID: G7		
Lab Sample ID: D23238-47		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 94.1
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10674.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	15.3	11	5.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	103%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.47
4

Report of Analysis

Client Sample ID: G7		Date Sampled: 05/05/11
Lab Sample ID: D23238-47		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 94.1
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06774.D	10	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	3.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	7100	210	140	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	67%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.47
4

Report of Analysis

Client Sample ID: G8		Date Sampled: 05/05/11
Lab Sample ID: D23238-48		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.1
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11259.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics.

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%
17060-07-0	1,2-Dichloroethane-D4	86%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.48
4

Report of Analysis

Client Sample ID: G8		Date Sampled: 05/05/11
Lab Sample ID: D23238-48		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10675.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	97%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.48
4

Report of Analysis

Client Sample ID: G8		Date Sampled: 05/05/11
Lab Sample ID: D23238-48		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.1
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06775.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	548	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.48
4

Report of Analysis

Client Sample ID: H7		Date Sampled: 05/05/11
Lab Sample ID: D23238-49		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 94.0
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V11256.D	1	05/10/11	DC	n/a	n/a	V3V630
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	56	25	ug/kg	
108-88-3	Toluene	ND	110	56	ug/kg	
100-41-4	Ethylbenzene	ND	110	28	ug/kg	
1330-20-7	Xylene (total)	ND	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	78%		70-130%
17060-07-0	1,2-Dichloroethane-D4	89%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.49
4

Report of Analysis

Client Sample ID: H7		Date Sampled: 05/05/11
Lab Sample ID: D23238-49		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 94.0
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10676.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.49
4

Report of Analysis

Client Sample ID: H7		Date Sampled: 05/05/11
Lab Sample ID: D23238-49		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 94.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06776.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	330	14	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.49
4

Report of Analysis

Client Sample ID: H8		Date Sampled: 05/05/11
Lab Sample ID: D23238-50		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.6
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15267.D	1	05/10/11	DC	n/a	n/a	V5V894
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	25	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	76%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%
17060-07-0	1,2-Dichloroethane-D4	127%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H8		Date Sampled: 05/05/11
Lab Sample ID: D23238-50		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.6
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10677.D	1	05/10/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	7.17	12	5.8	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	84%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.50
4

Report of Analysis

Client Sample ID: H8		Date Sampled: 05/05/11
Lab Sample ID: D23238-50		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.6
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06777.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	747	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	85%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.50
4

Report of Analysis

Client Sample ID: I7		Date Sampled: 05/05/11
Lab Sample ID: D23238-51		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15266.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	25	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%
17060-07-0	1,2-Dichloroethane-D4	125%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.51
4

Report of Analysis

Client Sample ID: 17		
Lab Sample ID: D23238-51		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 92.7
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10679.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.5	12	5.8	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	94%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.51
4

Report of Analysis

Client Sample ID: I7		Date Sampled: 05/05/11
Lab Sample ID: D23238-51		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06778.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	427	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.51
4

Report of Analysis

Client Sample ID: I8		Date Sampled: 05/05/11
Lab Sample ID: D23238-52		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.4
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15265.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	58	25	ug/kg	
108-88-3	Toluene	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	82%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%
17060-07-0	1,2-Dichloroethane-D4	129%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.52
4

Report of Analysis

Client Sample ID: I8		Date Sampled: 05/05/11
Lab Sample ID: D23238-52		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.4
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10680.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	85%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.52
4

Report of Analysis

Client Sample ID: I8		Date Sampled: 05/05/11
Lab Sample ID: D23238-52		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.4
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06779.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	399	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	84%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.52
4

Report of Analysis

Client Sample ID: E9		Date Sampled: 05/05/11
Lab Sample ID: D23238-53		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.9
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15264.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%
17060-07-0	1,2-Dichloroethane-D4	118%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.53
4

Report of Analysis

Client Sample ID: E9		Date Sampled: 05/05/11
Lab Sample ID: D23238-53		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10681.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	96%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.53
4

Report of Analysis

Client Sample ID: E9	Date Sampled: 05/05/11
Lab Sample ID: D23238-53	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 92.9
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06780.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	70.9	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.53
4

Report of Analysis

Client Sample ID: F9		Date Sampled: 05/05/11
Lab Sample ID: D23238-54		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.3
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15263.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.07 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	61	27	ug/kg	
108-88-3	Toluene	ND	120	61	ug/kg	
100-41-4	Ethylbenzene	ND	120	31	ug/kg	
1330-20-7	Xylene (total)	ND	250	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	122%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.54
4

Report of Analysis

Client Sample ID: F9		Date Sampled: 05/05/11
Lab Sample ID: D23238-54		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 89.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10682.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	95%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.54
4

Report of Analysis

Client Sample ID: F9	Date Sampled: 05/05/11
Lab Sample ID: D23238-54	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 89.3
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06781.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	90.5	15	9.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	83%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.54
4

Report of Analysis

Client Sample ID: G9	Date Sampled: 05/05/11
Lab Sample ID: D23238-55	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 90.9
Method: SW846 8260B	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15262.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	60	26	ug/kg	
108-88-3	Toluene	ND	120	60	ug/kg	
100-41-4	Ethylbenzene	ND	120	30	ug/kg	
1330-20-7	Xylene (total)	ND	240	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%
17060-07-0	1,2-Dichloroethane-D4	116%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: G9		Date Sampled: 05/05/11
Lab Sample ID: D23238-55		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10683.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	91%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: G9		Date Sampled: 05/05/11
Lab Sample ID: D23238-55		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 90.9
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06782.D	1	05/12/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	860	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: H9		Date Sampled: 05/05/11
Lab Sample ID: D23238-56		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15261.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	69.0	110	57	ug/kg	J
100-41-4	Ethylbenzene	ND	110	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	79%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%
17060-07-0	1,2-Dichloroethane-D4	128%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H9		Date Sampled: 05/05/11
Lab Sample ID: D23238-56		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10684.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	88%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.56
4

Report of Analysis

Client Sample ID: H9		Date Sampled: 05/05/11
Lab Sample ID: D23238-56		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06784.D	1	05/13/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	224	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	82%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.56
4

Report of Analysis

Client Sample ID: I9		Date Sampled: 05/05/11
Lab Sample ID: D23238-57		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 95.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15260.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	54	24	ug/kg	
108-88-3	Toluene	ND	110	54	ug/kg	
100-41-4	Ethylbenzene	ND	110	27	ug/kg	
1330-20-7	Xylene (total)	ND	220	54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	81%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%
17060-07-0	1,2-Dichloroethane-D4	135% ^a		70-130%

(a) Surrogate is high; no hits for reported compounds.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.57
4

Report of Analysis

Client Sample ID: I9		
Lab Sample ID: D23238-57		Date Sampled: 05/05/11
Matrix: SO - Soil		Date Received: 05/05/11
Method: SW846 8015B		Percent Solids: 95.7
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10685.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	87%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.57
4

Report of Analysis

Client Sample ID: I9		Date Sampled: 05/05/11
Lab Sample ID: D23238-57		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 95.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06785.D	1	05/13/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	327	14	9.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	92%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.57
4

Report of Analysis

Client Sample ID: G99		Date Sampled: 05/05/11
Lab Sample ID: D23238-58		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.0
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15259.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	59	26	ug/kg	
108-88-3	Toluene	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	120	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	59	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	77%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%
17060-07-0	1,2-Dichloroethane-D4	114%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.58
4



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Report of Analysis

Client Sample ID: G99	Date Sampled: 05/05/11
Lab Sample ID: D23238-58	Date Received: 05/05/11
Matrix: SO - Soil	Percent Solids: 92.0
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

4.58
4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10686.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	91%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G99		Date Sampled: 05/05/11
Lab Sample ID: D23238-58		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06786.D	1	05/13/11	JB	05/12/11	OP3648	GFD296
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	372	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	85%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.58
4

Report of Analysis

4.59
4

Client Sample ID: I99		Date Sampled: 05/05/11
Lab Sample ID: D23238-59		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846 8260B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V15258.D	1	05/09/11	DC	n/a	n/a	V5V894
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	57	25	ug/kg	
108-88-3	Toluene	ND	110	57	ug/kg	
100-41-4	Ethylbenzene	ND	110	29	ug/kg	
1330-20-7	Xylene (total)	ND	230	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	78%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%
17060-07-0	1,2-Dichloroethane-D4	116%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 199		Date Sampled: 05/05/11
Lab Sample ID: D23238-59		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB10687.D	1	05/11/11	BR	n/a	n/a	GGB620
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	88%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I99		Date Sampled: 05/05/11
Lab Sample ID: D23238-59		Date Received: 05/05/11
Matrix: SO - Soil		Percent Solids: 92.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD06787.D	1	05/13/11	JB	05/12/11	OP3648	GFD296
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	497	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	91%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D23238 Client: ERM Immediate Client Services Action Required: No
 Date / Time Received: 5/5/2011 5:00:00 PM No. Coolers: 3 Client Service Action Required at Login: No
 Project: SEKWATER LAND FARM Airbill #'s: HD

Cooler Security

	Y or N			Y or N	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cooler Temperature

	Y or N	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	<u>Infrared gun</u>	
3. Cooler media:	<u>Ice (bag)</u>	

Quality Control Preservation

	Y	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation

	Y	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Condition

	Y	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>	

Sample Integrity - Instructions

	Y	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

5.1
5

Job Change Order: D23238_5/9/2011

Requested Date: 5/9/2011 Received Date: 5/5/2011
Account Name: ERM-Rocky Mountain, Inc. Due Date: 5/19/2011
Project Description: Schwake Landfarm, Peetz, CO Deliverable: COMMBIN
CSR: AK TAT (Days): 14

Sample #: D23238-all Change: As per client, please log in for V8260BTX. Please keep original Due Date.

Above Changes Gabe Touma **Date:** 5/9/2011

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service
Page 1 of 1

**D23238: Chain of Custody
Page 7 of 7**

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

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Method Blank Summary

Page 1 of 1

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V894-MB1	5V15249.D	1	05/09/11	DC	n/a	n/a	V5V894

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	82%	70-130%
460-00-4	4-Bromofluorobenzene	85%	70-130%
17060-07-0	1,2-Dichloroethane-D4	111%	70-130%

6.1.1

6

Method Blank Summary

Page 1 of 1

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V630-MB1	3V11254.D	1	05/10/11	DC	n/a	n/a	V3V630

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-36, D23238-37, D23238-38, D23238-39, D23238-40, D23238-41, D23238-42, D23238-43, D23238-44, D23238-45, D23238-46, D23238-47, D23238-48, D23238-49

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	50	ug/kg	

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	82% 70-130%
460-00-4	4-Bromofluorobenzene	79% 70-130%
17060-07-0	1,2-Dichloroethane-D4	95% 70-130%

6.1.2



Method Blank Summary

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Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V895-MB1	5V15273.D	1	05/10/11	DC	n/a	n/a	V5V895

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-20, D23238-21, D23238-22, D23238-23, D23238-24, D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	83%	70-130%
460-00-4	4-Bromofluorobenzene	93%	70-130%
17060-07-0	1,2-Dichloroethane-D4	123%	70-130%

6.1.3



Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V631-MB1	3V11279.D	1	05/10/11	DC	n/a	n/a	V3V631

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7, D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	83%	70-130%
460-00-4	4-Bromofluorobenzene	81%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-130%

6.1.4

6

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V634-MB1	3V11317A.D1		05/11/11	DC	n/a	n/a	V3V634

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	79%	70-130%
460-00-4	4-Bromofluorobenzene	77%	70-130%
17060-07-0	1,2-Dichloroethane-D4	92%	70-130%

6.1.5

6

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V643-MB1	3V11444.D	1	05/17/11	DC	n/a	n/a	V3V643

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	83%	70-130%
460-00-4	4-Bromofluorobenzene	83%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-130%

6.1.6
6

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V894-BS1	5V15250.D	1	05/09/11	DC	n/a	n/a	V5V894

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	57.0	114	68-130
100-41-4	Ethylbenzene	50	54.7	109	70-130
108-88-3	Toluene	50	52.6	105	70-130
1330-20-7	Xylene (total)	100	103	103	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	86%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%
17060-07-0	1,2-Dichloroethane-D4	119%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V630-BS1	3V11255.D	1	05/10/11	DC	n/a	n/a	V3V630

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-36, D23238-37, D23238-38, D23238-39, D23238-40, D23238-41, D23238-42, D23238-43, D23238-44, D23238-45, D23238-46, D23238-47, D23238-48, D23238-49

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	45.7	91	68-130
100-41-4	Ethylbenzene	50	45.5	91	70-130
108-88-3	Toluene	50	44.9	90	70-130
1330-20-7	Xylene (total)	100	82.6	83	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	83%	70-130%
460-00-4	4-Bromofluorobenzene	83%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V895-BS1	5V15274.D	1	05/10/11	DC	n/a	n/a	V5V895

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-20, D23238-21, D23238-22, D23238-23, D23238-24, D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	61.1	122	68-130
100-41-4	Ethylbenzene	50	57.6	115	70-130
108-88-3	Toluene	50	54.5	109	70-130
1330-20-7	Xylene (total)	100	109	109	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	80%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	118%	70-130%

* = Outside of Control Limits.

6.2.3

6

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V631-BS1	3V11280.D	1	05/10/11	DC	n/a	n/a	V3V631

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7, D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	55.0	110	68-130
100-41-4	Ethylbenzene	50	55.9	112	70-130
108-88-3	Toluene	50	53.7	107	70-130
1330-20-7	Xylene (total)	100	100	100	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	82%	70-130%
460-00-4	4-Bromofluorobenzene	84%	70-130%
17060-07-0	1,2-Dichloroethane-D4	95%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V634-BS1	3V11318A.D1		05/11/11	DC	n/a	n/a	V3V634

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	45.8	92	68-130
100-41-4	Ethylbenzene	50	46.9	94	70-130
108-88-3	Toluene	50	45.2	90	70-130
1330-20-7	Xylene (total)	100	86.5	87	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	81%	70-130%
460-00-4	4-Bromofluorobenzene	85%	70-130%
17060-07-0	1,2-Dichloroethane-D4	88%	70-130%

* = Outside of Control Limits.

6.2.5
6

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V643-BS1	3V11445.D	1	05/17/11	DC	n/a	n/a	V3V643

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-19

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	44.2	88	68-130
100-41-4	Ethylbenzene	50	45.5	91	70-130
108-88-3	Toluene	50	44.0	88	70-130
1330-20-7	Xylene (total)	100	83.2	83	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	82%	70-130%
460-00-4	4-Bromofluorobenzene	85%	70-130%
17060-07-0	1,2-Dichloroethane-D4	93%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V643-BS1	3V11447.D	I	05/17/11	DC	n/a	n/a	V3V643

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-19

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	83%	70-130%
460-00-4	4-Bromofluorobenzene	85%	70-130%
17060-07-0	1,2-Dichloroethane-D4	90%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23235-1MS	5V15252.D	1	05/09/11	DC	n/a	n/a	V5V894
D23235-1MSD	5V15253.D	1	05/09/11	DC	n/a	n/a	V5V894
D23235-1	5V15251.D	1	05/09/11	DC	n/a	n/a	V5V894

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	D23235-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	62.2	J	4020	5370	132	5180	127	4	55-140/30
100-41-4	Ethylbenzene	444		4020	5120	116	5000	113	2	56-139/30
108-88-3	Toluene	98.7	J	4020	4530	110	4430	108	2	57-144/30
1330-20-7	Xylene (total)	1230		8030	9920	108	9840	107	1	51-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23235-1	Limits
2037-26-5	Toluene-D8	78%	79%	79%	70-130%
460-00-4	4-Bromofluorobenzene	137%* a	135%* a	120%	70-130%
17060-07-0	1,2-Dichloroethane-D4	130%	112%	128%	70-130%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-49MS	3V11257.D	1	05/10/11	DC	n/a	n/a	V3V630
D23238-49MSD	3V11258.D	1	05/10/11	DC	n/a	n/a	V3V630
D23238-49	3V11256.D	1	05/10/11	DC	n/a	n/a	V3V630

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-36, D23238-37, D23238-38, D23238-39, D23238-40, D23238-41, D23238-42, D23238-43, D23238-44, D23238-45, D23238-46, D23238-47, D23238-48, D23238-49

CAS No.	Compound	D23238-49 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	2810	2720	97	2630	93	3	55-140/30
100-41-4	Ethylbenzene	ND	2810	2750	98	2760	98	0	56-139/30
108-88-3	Toluene	ND	2810	2660	95	2610	93	2	57-144/30
1330-20-7	Xylene (total)	ND	5630	4980	88	5000	89	0	51-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-49	Limits
2037-26-5	Toluene-D8	81%	83%	81%	70-130%
460-00-4	4-Bromofluorobenzene	84%	86%	78%	70-130%
17060-07-0	1,2-Dichloroethane-D4	90%	87%	89%	70-130%

* = Outside of Control Limits.

6.3.2


Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-35MS	5V15276.D	1	05/10/11	DC	n/a	n/a	V5V895
D23238-35MSD	5V15277.D	1	05/10/11	DC	n/a	n/a	V5V895
D23238-35	5V15275.D	1	05/10/11	DC	n/a	n/a	V5V895

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-20, D23238-21, D23238-22, D23238-23, D23238-24, D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35

CAS No.	Compound	D23238-35 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	2830	3550	125	3630	128	2	55-140/30
100-41-4	Ethylbenzene	ND	2830	3340	118	3400	120	2	56-139/30
108-88-3	Toluene	ND	2830	3170	112	3230	114	2	57-144/30
1330-20-7	Xylene (total)	ND	5660	6470	114	6520	115	1	51-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-35	Limits
2037-26-5	Toluene-D8	76%	75%	74%	70-130%
460-00-4	4-Bromofluorobenzene	99%	97%	88%	70-130%
17060-07-0	1,2-Dichloroethane-D4	113%	118%	126%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-18MS	3V11282.D	1	05/10/11	DC	n/a	n/a	V3V631
D23238-18MSD	3V11283.D	1	05/10/11	DC	n/a	n/a	V3V631
D23238-18	3V11281.D	1	05/10/11	DC	n/a	n/a	V3V631

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7, D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18

CAS No.	Compound	D23238-18 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	2980	3160	106	3210	108	2	55-140/30
100-41-4	Ethylbenzene	ND	2980	3250	109	3320	111	2	56-139/30
108-88-3	Toluene	ND	2980	3030	102	3120	105	3	57-144/30
1330-20-7	Xylene (total)	ND	5960	5970	100	6010	101	1	51-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-18	Limits
2037-26-5	Toluene-D8	79%	81%	78%	70-130%
460-00-4	4-Bromofluorobenzene	93%	88%	83%	70-130%
17060-07-0	1,2-Dichloroethane-D4	89%	93%	88%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-1MS	3V11325.D	1	05/11/11	DC	n/a	n/a	V3V634
D23238-1MSD	3V11326.D	1	05/11/11	DC	n/a	n/a	V3V634
D23238-1	3V11324.D	1	05/11/11	DC	n/a	n/a	V3V634

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-1

CAS No.	Compound	D23238-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	2900	2830	97	2990	103	5	55-140/30
100-41-4	Ethylbenzene	ND	2900	2940	101	3110	107	6	56-139/30
108-88-3	Toluene	ND	2900	2740	94	2900	100	6	57-144/30
1330-20-7	Xylene (total)	ND	5810	5380	93	5700	98	6	51-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-1	Limits
2037-26-5	Toluene-D8	80%	80%	80%	70-130%
460-00-4	4-Bromofluorobenzene	91%	90%	85%	70-130%
17060-07-0	1,2-Dichloroethane-D4	89%	85%	90%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-19MS	3V11453.D	1	05/17/11	DC	n/a	n/a	V3V643
D23238-19MSD	3V11454.D	1	05/17/11	DC	n/a	n/a	V3V643
D23238-19	3V11448.D	1	05/17/11	DC	n/a	n/a	V3V643

The QC reported here applies to the following samples:

Method: SW846 8260B

D23238-19

CAS No.	Compound	D23238-19 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	3050	3040	100	3050	100	0	55-140/30
100-41-4	Ethylbenzene	ND	3050	3110	102	3120	102	0	56-139/30
108-88-3	Toluene	ND	3050	2970	97	2970	97	0	57-144/30
1330-20-7	Xylene (total)	ND	6110	5790	95	5820	95	1	51-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-19	Limits
2037-26-5	Toluene-D8	82%	82%	80%	70-130%
460-00-4	4-Bromofluorobenzene	89%	89%	88%	70-130%
17060-07-0	1,2-Dichloroethane-D4	91%	89%	93%	70-130%

* = Outside of Control Limits.

6.3.6
6

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

7

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB618-MB	GB10612.D	1	05/06/11	BR	n/a	n/a	GGB618

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-1, D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7, D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18, D23238-19, D23238-20

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	102% 60-140%

7.1.1

7

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB619-MB	GB10637.D	1	05/07/11	BR	n/a	n/a	GGB619

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-21, D23238-22, D23238-23, D23238-24, D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35, D23238-36, D23238-37, D23238-38, D23238-39, D23238-40

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Result	Limits
120-82-1	1,2,4-Trichlorobenzene	96%	60-140%

7.1.2
7

Method Blank Summary

Page 1 of 1

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB620-MB	GB10664.D	1	05/10/11	BR	n/a	n/a	GGB620

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-41, D23238-42, D23238-43, D23238-44, D23238-45, D23238-46, D23238-47, D23238-48, D23238-49, D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Result	Limits
120-82-1	1,2,4-Trichlorobenzene	110%	60-140%

7.1.3
7

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB618-BS	GB10611.D	1	05/06/11	BR	n/a	n/a	GGB618

The QC reported here applies to the following samples: Method: SW846 8015B

D23238-1, D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7, D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18, D23238-19, D23238-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	111	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	108%	60-140%

7.2.1
7

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB619-BS	GB10638.D	1	05/07/11	BR	n/a	n/a	GGB619

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-21, D23238-22, D23238-23, D23238-24, D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35, D23238-36, D23238-37, D23238-38, D23238-39, D23238-40

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	121	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	100%	60-140%

7.2.2
7

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB620-BS	GB10665.D	1	05/10/11	BR	n/a	n/a	GGB620

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-41, D23238-42, D23238-43, D23238-44, D23238-45, D23238-46, D23238-47, D23238-48, D23238-49, D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	116	105	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	110%	60-140%

7.2.3
7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-1MS	GB10614.D	1	05/06/11	BR	n/a	n/a	GGB618
D23238-1MSD	GB10615.D	1	05/06/11	BR	n/a	n/a	GGB618
D23238-1	GB10613.D	1	05/06/11	BR	n/a	n/a	GGB618

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-1, D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7, D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18, D23238-19, D23238-20

CAS No.	Compound	D23238-1 mg/kg	Spike Q	mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	6.68	J	128	130	97	125	93	4	62-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-1	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	109%	100%	60-140%

7.3.1
7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-21MS	GB10640.D	1	05/07/11	BR	n/a	n/a	GGB619
D23238-21MSD	GB10641.D	1	05/07/11	BR	n/a	n/a	GGB619
D23238-21	GB10639.D	1	05/07/11	BR	n/a	n/a	GGB619

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-21, D23238-22, D23238-23, D23238-24, D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35, D23238-36, D23238-37, D23238-38, D23238-39, D23238-40

CAS No.	Compound	D23238-21 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	124	133	107	121	97	9	62-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-21	Limits
120-82-1	1,2,4-Trichlorobenzene	100%	97%	92%	60-140%

7.3.2

7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D23238-41MS	GB10667.D	1	05/10/11	BR	n/a	n/a	GGB620
D23238-41MSD	GB10668.D	1	05/10/11	BR	n/a	n/a	GGB620
D23238-41	GB10666.D	1	05/10/11	BR	n/a	n/a	GGB620

The QC reported here applies to the following samples:

Method: SW846 8015B

D23238-41, D23238-42, D23238-43, D23238-44, D23238-45, D23238-46, D23238-47, D23238-48, D23238-49, D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	D23238-41 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD	
	TPH-GRO (C6-C10)	7.33	J	137	142	98	133	92	7	62-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23238-41	Limits
120-82-1	1,2,4-Trichlorobenzene	111%	102%	104%	60-140%

7.3.3
7

* = Outside of Control Limits.



GC Semi-volatiles

QC Data Summaries



Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3622-MB	FD06650.D	1	05/09/11	JB	05/06/11	OP3622	GFD290

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-1, D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Results	Limits
84-15-1	o-Terphenyl	93%	63-130%

8.1.1
8

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3623-MB	FI01961.D	1	05/10/11	JB	05/09/11	OP3623	GFI129

The QC reported here applies to the following samples: Method: SW846-8015B

D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18, D23238-19, D23238-20, D23238-21, D23238-22, D23238-23, D23238-24

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	95%	63-130%

8.1.2
8

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3626-MB	FI02029.D	1	05/12/11	JB	05/09/11	OP3626	GFI133

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35, D23238-36, D23238-37, D23238-38, D23238-39, D23238-40, D23238-41, D23238-42, D23238-43, D23238-44

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	96% 61-142%

8.1.3

8

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3633-MB	FI01996.D	1	05/11/11	JB	05/10/11	OP3633	GF1131

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-45, D23238-46

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	89% 61-142%

8.1.4
8

Method Blank Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3648-MB	FD06769.D	1	05/12/11	JB	05/12/11	OP3648	GFD296

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-47, D23238-48, D23238-49, D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	105% 61-142%

8.1.5
8

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3622-BS	FD06651.D	1	05/09/11	JB	05/06/11	OP3622	GFD290

The QC reported here applies to the following samples: **Method:** SW846-8015B

D23238-1, D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	497	75	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	87%	63-130%

8.2.1
8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3623-BS	FI01962.D	1	05/10/11	JB	05/09/11	OP3623	GFI129

The QC reported here applies to the following samples: Method: SW846-8015B

D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18, D23238-19, D23238-20, D23238-21, D23238-22, D23238-23, D23238-24

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	579	87	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	98%	63-130%

8.2.2
8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3626-BS	FI02030.D	1	05/12/11	JB	05/09/11	OP3626	GFI133

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35, D23238-36, D23238-37, D23238-38, D23238-39, D23238-40, D23238-41, D23238-42, D23238-43, D23238-44

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	567	85	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	98%	61-142%

8.2.3

8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3633-BS	FI01997.D	1	05/11/11	JB	05/10/11	OP3633	GFI131

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-45, D23238-46

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	479	72	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	85%	61-142%

8.2.4
8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3648-BS	FD06770.D	1	05/12/11	JB	05/12/11	OP3648	GFD296

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-47, D23238-48, D23238-49, D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	565	85	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	93%	61-142%

8.2.5
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3622-MS	FD06652.D	1	05/09/11	JB	05/06/11	OP3622	GFD290
OP3622-MSD	FD06653.D	1	05/09/11	JB	05/06/11	OP3622	GFD290
D23190-1	FD06654.D	1	05/09/11	JB	05/06/11	OP3622	GFD290

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-1, D23238-2, D23238-3, D23238-4, D23238-5, D23238-6, D23238-7

CAS No.	Compound	D23190-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	143	734	655	70	614	64* a	6	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D23190-1	Limits
84-15-1	o-Terphenyl	82%	76%	77%	63-130%

(a) Outside control limits due to possible matrix interference.

8.3.1
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3623-MS	FI01963.D	1	05/10/11	JB	05/09/11	OP3623	GF1129
OP3623-MSD	FI01964.D	1	05/10/11	JB	05/09/11	OP3623	GF1129
D23238-11	FI01965.D	1	05/10/11	JB	05/09/11	OP3623	GF1129

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-8, D23238-9, D23238-10, D23238-11, D23238-12, D23238-13, D23238-14, D23238-15, D23238-16, D23238-17, D23238-18, D23238-19, D23238-20, D23238-21, D23238-22, D23238-23, D23238-24

CAS No.	Compound	D23238-11 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	273	728	927	90	806	73	14	24-157/35
CAS No.	Surrogate Recoveries	MS	MSD	D23238-11	Limits				
84-15-1	o-Terphenyl	90%	98%	95%	61-142%				

8.3.2

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3626-MS	FI02031.D	1	05/12/11	JB	05/09/11	OP3626	GFI133
OP3626-MSD	FI02032.D	1	05/13/11	JB	05/09/11	OP3626	GFI133
D23238-40	FI02033.D	1	05/13/11	JB	05/09/11	OP3626	GFI133

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-25, D23238-26, D23238-27, D23238-28, D23238-29, D23238-30, D23238-31, D23238-32, D23238-33, D23238-34, D23238-35, D23238-36, D23238-37, D23238-38, D23238-39, D23238-40, D23238-41, D23238-42, D23238-43, D23238-44

CAS No.	Compound	D23238-40 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	410	722	1110	97	1160	104	4	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D23238-40	Limits
84-15-1	o-Terphenyl	88%	93%	87%	61-142%

8.3.3
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3633-MS	FI01998.D	1	05/11/11	JB	05/10/11	OP3633	GFI131
OP3633-MSD	FI01999.D	1	05/11/11	JB	05/10/11	OP3633	GFI131
D23275-1	FI02000.D	1	05/11/11	JB	05/10/11	OP3633	GFI131

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-45, D23238-46

CAS No.	Compound	D23275-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	466	702	797	47	1190	104	40* a	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D23275-1	Limits
84-15-1	o-Terphenyl	99%	86%	96%	61-142%

(a) High RPD due to possible sample nonhomogeneity.

8.3.4
8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D23238
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3648-MS	FD06816.D	5	05/16/11	JB	05/12/11	OP3648	GFD297
OP3648-MSD	FD06817.D	1	05/16/11	JB	05/12/11	OP3648	GFD297
D23388-1	FD06818.D	5	05/16/11	JB	05/12/11	OP3648	GFD297

The QC reported here applies to the following samples:

Method: SW846-8015B

D23238-47, D23238-48, D23238-49, D23238-50, D23238-51, D23238-52, D23238-53, D23238-54, D23238-55, D23238-56, D23238-57, D23238-58, D23238-59

CAS No.	Compound	D23388-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	5400	742	6070	90	3350	-277* a	58*	24-157/35

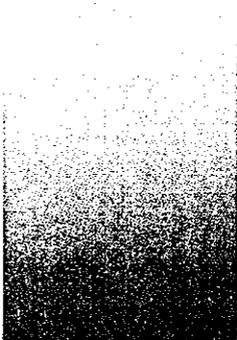
CAS No.	Surrogate Recoveries	MS	MSD	D23388-1	Limits
84-15-1	o-Terphenyl	82%	38%*	82%	61-142%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.



07/13/12



Technical Report for

ERM-Rocky Mountain, Inc.

Landfarm, Peetz, CO

0104362

Accutest Job Number: D25646

Sampling Date: 07/19/11

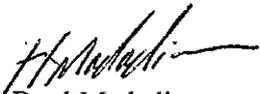
Report to:

chris.thebo@erm.com

Total number of pages in report: 76



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)
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Test results relate only to samples analyzed.

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Sample Summary

ERM-Rocky Mountain, Inc.

Job No: D25646

Landfarm, Peetz, CO
Project No: 0104362

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D25646-1	07/19/11	07:30 GT	07/19/11	SO	Soil	E6
D25646-2	07/19/11	07:40 GT	07/19/11	SO	Soil	E5
D25646-3	07/19/11	07:50 GT	07/19/11	SO	Soil	E4
D25646-4	07/19/11	07:55 GT	07/19/11	SO	Soil	F4
D25646-5	07/19/11	08:00 GT	07/19/11	SO	Soil	G4
D25646-6	07/19/11	08:10 GT	07/19/11	SO	Soil	G3
D25646-7	07/19/11	08:15 GT	07/19/11	SO	Soil	G2
D25646-8	07/19/11	08:20 GT	07/19/11	SO	Soil	G1
D25646-9	07/19/11	08:25 GT	07/19/11	SO	Soil	H3
D25646-10	07/19/11	08:30 GT	07/19/11	SO	Soil	H2
D25646-11	07/19/11	08:35 GT	07/19/11	SO	Soil	H1
D25646-12	07/19/11	08:40 GT	07/19/11	SO	Soil	I1
D25646-13	07/19/11	08:45 GT	07/19/11	SO	Soil	I2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary
(continued)

ERM-Rocky Mountain, Inc.

Job No: D25646

Landfarm, Peetz, CO
Project No: 0104362

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D25646-14	07/19/11	08:50	GT	07/19/11	SO Soil	I3
D25646-15	07/19/11	08:55	GT	07/19/11	SO Soil	G5
D25646-16	07/19/11	09:00	GT	07/19/11	SO Soil	G6
D25646-17	07/19/11	09:05	GT	07/19/11	SO Soil	G7
D25646-18	07/19/11	09:10	GT	07/19/11	SO Soil	G8
D25646-19	07/19/11	09:15	GT	07/19/11	SO Soil	G9
D25646-20	07/19/11	09:20	GT	07/19/11	SO Soil	H8
D25646-21	07/19/11	09:30	GT	07/19/11	SO Soil	J1
D25646-22	07/19/11	09:35	GT	07/19/11	SO Soil	J2
D25646-23	07/19/11	07:45	GT	07/19/11	SO Soil	E55
D25646-24	07/19/11	08:05	GT	07/19/11	SO Soil	G44

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM-Rocky Mountain, Inc.

Job No D25646

Site: Landfarm, Pectz, CO

Report Dat 7/28/2011 3:00:22 PM

On 07/19/2011, 24 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 1.8 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D25646 was assigned to the project. The lab sample IDs, client sample IDs, and dates of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8015B

Matrix SO	Batch ID: GGB684
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) D25646-1MS, D25646-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix SO	Batch ID: GGB685
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D25646-19MS, D25646-19MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP4105
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D25640-1MS, D25640-1MSD were used as the QC samples indicated.

Matrix SO	Batch ID: OP4113
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D25712-1MS, D25712-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN10632
------------------	--------------------------

- The data for SM19 2540B M meets quality control requirements.

Matrix SO	Batch ID: GN10652
------------------	--------------------------

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Job Number: D25646
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 07/19/11



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D25646-1	E6					
TPH-DRO (C10-C28)		29.3	14	9.1	mg/kg	SW846-8015B
D25646-2	E5					
TPH-DRO (C10-C28)		138	15	9.6	mg/kg	SW846-8015B
D25646-3	E4					
TPH-DRO (C10-C28)		61.1	15	9.7	mg/kg	SW846-8015B
D25646-4	F4					
TPH-DRO (C10-C28)		392	15	9.6	mg/kg	SW846-8015B
D25646-5	G4					
TPH-DRO (C10-C28)		266	15	9.6	mg/kg	SW846-8015B
D25646-6	G3					
TPH-DRO (C10-C28)		16000	350	230	mg/kg	SW846-8015B
D25646-7	G2					
TPH-DRO (C10-C28)		8080	710	460	mg/kg	SW846-8015B
D25646-8	G1					
TPH-DRO (C10-C28)		9420	370	240	mg/kg	SW846-8015B
D25646-9	H3					
TPH-DRO (C10-C28)		149	15	9.5	mg/kg	SW846-8015B
D25646-10	H2					
TPH-DRO (C10-C28)		74.0	15	9.6	mg/kg	SW846-8015B
D25646-11	H1					
TPH-DRO (C10-C28)		155	15	9.5	mg/kg	SW846-8015B

Summary of Hits

Job Number: D25646
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 07/19/11



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D25646-12	I1					
TPH-DRO (C10-C28)		260	15	9.6	mg/kg	SW846-8015B
D25646-13	I2					
TPH-DRO (C10-C28)		212	14	9.3	mg/kg	SW846-8015B
D25646-14	I3					
TPH-DRO (C10-C28)		286	14	9.4	mg/kg	SW846-8015B
D25646-15	G5					
TPH-DRO (C10-C28)		1040	29	19	mg/kg	SW846-8015B
D25646-16	G6					
TPH-DRO (C10-C28)		3710	71	46	mg/kg	SW846-8015B
D25646-17	G7					
TPH-DRO (C10-C28)		445	30	19	mg/kg	SW846-8015B
D25646-18	G8					
TPH-DRO (C10-C28)		24600	870	570	mg/kg	SW846-8015B
D25646-19	G9					
TPH-DRO (C10-C28)		460	29	19	mg/kg	SW846-8015B
D25646-20	H8					
TPH-DRO (C10-C28)		29600	2200	1400	mg/kg	SW846-8015B
D25646-21	J1					
TPH-DRO (C10-C28)		3160	140	89	mg/kg	SW846-8015B
D25646-22	J2					
TPH-DRO (C10-C28)		345	71	46	mg/kg	SW846-8015B

Summary of Hits

Job Number: D25646
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 07/19/11



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D25646-23	E55					
TPH-DRO (C10-C28)		120	15	9.5	mg/kg	SW846-8015B
D25646-24	G44					
TPH-DRO (C10-C28)		300	36	23	mg/kg	SW846-8015B



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: E6	Date Sampled: 07/19/11
Lab Sample ID: D25646-1	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 95.3
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11891.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	81%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: E6		Date Sampled: 07/19/11
Lab Sample ID: D25646-1		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 95.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08002.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	29.3	14	9.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: E5	Date Sampled: 07/19/11
Lab Sample ID: D25646-2	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 90.5
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11897.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	75%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: E5	Date Sampled: 07/19/11
Lab Sample ID: D25646-2	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 90.5
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08003.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	138	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	84%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: E4		Date Sampled: 07/19/11
Lab Sample ID: D25646-3		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 89.2
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11898.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	79%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: E4		Date Sampled: 07/19/11
Lab Sample ID: D25646-3		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 89.2
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08004.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	61.1	15	9.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	82%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: F4		Date Sampled: 07/19/11
Lab Sample ID: D25646-4		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11899.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	77%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: F4		Date Sampled: 07/19/11
Lab Sample ID: D25646-4		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08005.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	392	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: G4		Date Sampled: 07/19/11
Lab Sample ID: D25646-5		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11900.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	73%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: G4	Date Sampled: 07/19/11
Lab Sample ID: D25646-5	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 90.1
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08006.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	266	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	84%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: G3		Date Sampled: 07/19/11
Lab Sample ID: D25646-6		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 95.9
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11901.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	70%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: G3	Date Sampled: 07/19/11
Lab Sample ID: D25646-6	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 95.9
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI03337.D	10	07/27/11	CS	07/20/11	OP4105	GFI219
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	16000	350	230	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	68%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: G2		Date Sampled: 07/19/11
Lab Sample ID: D25646-7		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11902.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	73%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: G2		Date Sampled: 07/19/11
Lab Sample ID: D25646-7		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 93.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08008.D	20	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	8080	710	460	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	75%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: G1		Date Sampled: 07/19/11
Lab Sample ID: D25646-8		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11903.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	73%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: G1		Date Sampled: 07/19/11
Lab Sample ID: D25646-8		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08010.D	10	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	9420	370	240	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	111%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: H3		Date Sampled: 07/19/11
Lab Sample ID: D25646-9		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11904.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	73%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: H3		Date Sampled: 07/19/11
Lab Sample ID: D25646-9		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08011.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	149	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	80%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9 4

Report of Analysis

4.10
4

Client Sample ID: H2		Date Sampled: 07/19/11
Lab Sample ID: D25646-10		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 89.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11906.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	78%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.10
4

Client Sample ID: H2		Date Sampled: 07/19/11
Lab Sample ID: D25646-10		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 89.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08012.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	74.0	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	80%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H1	Date Sampled: 07/19/11
Lab Sample ID: D25646-11	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 91.2
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11907.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	76%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.11
4

Report of Analysis

Client Sample ID: H1		Date Sampled: 07/19/11
Lab Sample ID: D25646-11		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 91.2
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08013.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	155	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I1		
Lab Sample ID: D25646-12		Date Sampled: 07/19/11
Matrix: SO - Soil		Date Received: 07/19/11
Method: SW846 8015B		Percent Solids: 90.0
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11908.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	77%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.12
4

Report of Analysis

4.12
4

Client Sample ID: I1		Date Sampled: 07/19/11
Lab Sample ID: D25646-12		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.0
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08014.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	260	15	9.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I2		Date Sampled: 07/19/11
Lab Sample ID: D25646-13		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 93.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11909.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	77%		60-140%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: I2		Date Sampled: 07/19/11
Lab Sample ID: D25646-13		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 93.1
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08025.D	1	07/21/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	212	14	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	80%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID: I3		Date Sampled: 07/19/11
Lab Sample ID: D25646-14		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 92.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11910.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	75%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.14
4

Report of Analysis

Client Sample ID: I3		Date Sampled: 07/19/11
Lab Sample ID: D25646-14		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 92.1
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08026.D	1	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	286	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.14
4

Report of Analysis

Client Sample ID: G5	Date Sampled: 07/19/11
Lab Sample ID: D25646-15	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 92.2
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11911.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	72%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.15
4

Report of Analysis

4.15
4

Client Sample ID: G5		Date Sampled: 07/19/11
Lab Sample ID: D25646-15		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 92.2
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08027.D	2	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1040	29	19	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.16
4

Client Sample ID: G6		Date Sampled: 07/19/11
Lab Sample ID: D25646-16		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 94.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11912.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	72%		60-140%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G6		Date Sampled: 07/19/11
Lab Sample ID: D25646-16		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 94.1
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI03335.D	5	07/27/11	CS	07/21/11	OP4113	GFI219
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	3710	71	46	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	65%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.17
4

Client Sample ID: G7		Date Sampled: 07/19/11
Lab Sample ID: D25646-17		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 88.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11913.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	72%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G7		Date Sampled: 07/19/11
Lab Sample ID: D25646-17		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 88.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08030.D	2	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	445	30	19	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: G8		Date Sampled: 07/19/11
Lab Sample ID: D25646-18		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 91.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11914.D	1	07/20/11	SK	n/a	n/a	GGB684
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	82%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.18
4

Report of Analysis

Client Sample ID: G8	Date Sampled: 07/19/11
Lab Sample ID: D25646-18	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 91.8
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08031.D	10	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	6.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	24600	870	570	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	65%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.18
4

Report of Analysis

Client Sample ID: G9		Date Sampled: 07/19/11
Lab Sample ID: D25646-19		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.4
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11918.D	1	07/20/11	SK	n/a	n/a	GGB685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	70%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.19
4

Report of Analysis

4.19
4

Client Sample ID: G9		Date Sampled: 07/19/11
Lab Sample ID: D25646-19		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 90.4
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08032.D	2	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	460	29	19	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	73%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: H8		Date Sampled: 07/19/11
Lab Sample ID: D25646-20		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 91.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11921.D	1	07/21/11	SK	n/a	n/a	GGB685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	72%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.20
4

Report of Analysis

Client Sample ID: H8	Date Sampled: 07/19/11
Lab Sample ID: D25646-20	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 91.3
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08033.D	20	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

Run #	Initial Weight	Final Volume
Run #1	16.0 g	8.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	29600	2200	1400	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	116%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.20
4

Report of Analysis

4.21
4

Client Sample ID: J1		Date Sampled: 07/19/11
Lab Sample ID: D25646-21		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 96.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11922.D	1	07/21/11	SK	n/a	n/a	GGB685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	72%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

4.21
4

Client Sample ID: J1	Date Sampled: 07/19/11
Lab Sample ID: D25646-21	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 96.8
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08034.D	10	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	3160	140	89	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	62%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: J2		Date Sampled: 07/19/11
Lab Sample ID: D25646-22		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 94.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11923.D	1	07/21/11	SK	n/a	n/a	GGB685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	73%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
4

Report of Analysis

Client Sample ID: J2		Date Sampled: 07/19/11
Lab Sample ID: D25646-22		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 94.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08035.D	5	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	345	71	46	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	74%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.22
 4

Report of Analysis

Client Sample ID: E55		Date Sampled: 07/19/11
Lab Sample ID: D25646-23		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 91.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11924.D	1	07/21/11	SK	n/a	n/a	GGB685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	80%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.23
4

Report of Analysis

Client Sample ID: E55	Date Sampled: 07/19/11
Lab Sample ID: D25646-23	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 91.3
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08036.D	1	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	120	15	9.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.23
4

Report of Analysis

Client Sample ID: G44	Date Sampled: 07/19/11
Lab Sample ID: D25646-24	Date Received: 07/19/11
Matrix: SO - Soil	Percent Solids: 73.9
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB11925.D	1	07/21/11	SK	n/a	n/a	GGB685
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	17	8.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	70%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.24 4

Report of Analysis

Client Sample ID: G44		Date Sampled: 07/19/11
Lab Sample ID: D25646-24		Date Received: 07/19/11
Matrix: SO - Soil		Percent Solids: 73.9
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD08037.D	2	07/22/11	CS	07/21/11	OP4113	GFD355
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	300	36	23	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	71%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.24
4



Misc. Forms



Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D25646 Client: ERM Immediate Client Services Action Required: No
 Date / Time Received: 7/19/2011 1:00:00 PM No. Coolers: 1 Client Service Action Required at Login: No
 Project: PEETZ Airbill #'s: HD

Cooler Security Y or N Y or N
 1. Custody Seals Present: 3. COC Present:
 2. Custody Seals Intact: 4. Smpl Dates/Time OK

Cooler Temperature Y or N
 1. Temp criteria achieved:
 2. Cooler temp verification: Infrared gun
 3. Cooler media: Ice (bag)

Quality Control Preservation Y or N N/A
 1. Trip Blank present / cooler:
 2. Trip Blank listed on COC:
 3. Samples preserved properly:
 4. VOCs headspace free:

Sample Integrity - Documentation Y or N
 1. Sample labels present on bottles:
 2. Container labeling complete:
 3. Sample container label / COC agree:

Sample Integrity - Condition Y or N
 1. Sample recvd within HT:
 2. All containers accounted for:
 3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A
 1. Analysis requested is clear:
 2. Bottles received for unspecified tests
 3. Sufficient volume rec'd for analysis:
 4. Compositing instructions clear:
 5. Filtering instructions clear:

Comments

Accutest Laboratories
 V:(303) 425-6021

4036 Youngfield Street
 F:(303) 425-6854

Wheat Ridge, CO
 www.accutest.com

5.1
5

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB684-MB	GB11889.D	1	07/20/11	SK	n/a	n/a	GGB684

The QC reported here applies to the following samples:

Method: SW846 8015B

D25646-1, D25646-2, D25646-3, D25646-4, D25646-5, D25646-6, D25646-7, D25646-8, D25646-9, D25646-10, D25646-11, D25646-12, D25646-13, D25646-14, D25646-15, D25646-16, D25646-17, D25646-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Result	Limits
120-82-1	1,2,4-Trichlorobenzene	83%	60-140%

6.1.1
6

Method Blank Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB685-MB	GB11916.D	1	07/20/11	SK	n/a	n/a	GGB685

The QC reported here applies to the following samples: Method: SW846 8015B

D25646-19, D25646-20, D25646-21, D25646-22, D25646-23, D25646-24

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	77%	60-140%

6.1.2
6

Blank Spike Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB684-BS	GB11890.D	1	07/20/11	SK	n/a	n/a	GGB684

The QC reported here applies to the following samples:

Method: SW846 8015B

D25646-1, D25646-2, D25646-3, D25646-4, D25646-5, D25646-6, D25646-7, D25646-8, D25646-9, D25646-10, D25646-11, D25646-12, D25646-13, D25646-14, D25646-15, D25646-16, D25646-17, D25646-18

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	114	104	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	96%	60-140%

6.2.1
6

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB685-BS	GB11917.D	1	07/20/11	SK	n/a	n/a	GGB685

The QC reported here applies to the following samples:

Method: SW846 8015B

D25646-19, D25646-20, D25646-21, D25646-22, D25646-23, D25646-24

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	115	105	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	85%	60-140%

* = Outside of Control Limits.

6.2.2
6

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D25646-1MS	GB11892.D	1	07/20/11	SK	n/a	n/a	GGB684
D25646-1MSD	GB11893.D	1	07/20/11	SK	n/a	n/a	GGB684
D25646-1	GB11891.D	1	07/20/11	SK	n/a	n/a	GGB684

The QC reported here applies to the following samples:

Method: SW846 8015B

D25646-1, D25646-2, D25646-3, D25646-4, D25646-5, D25646-6, D25646-7, D25646-8, D25646-9, D25646-10, D25646-11, D25646-12, D25646-13, D25646-14, D25646-15, D25646-16, D25646-17, D25646-18

CAS No.	Compound	D25646-1 mg/kg	Spike Q mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	119	119	100	118	99	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D25646-1	Limits
120-82-1	1,2,4-Trichlorobenzene	82%	79%	81%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D25646-19MS	GB11919.D	1	07/20/11	SK	n/a	n/a	GGB685
D25646-19MSD	GB11920.D	1	07/21/11	SK	n/a	n/a	GGB685
D25646-19	GB11918.D	1	07/20/11	SK	n/a	n/a	GGB685

The QC reported here applies to the following samples:

Method: SW846 8015B

D25646-19, D25646-20, D25646-21, D25646-22, D25646-23, D25646-24

CAS No.	Compound	D25646-19 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	132	135	103	137	104	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D25646-19	Limits
120-82-1	1,2,4-Trichlorobenzene	80%	79%	70%	60-140%

* = Outside of Control Limits.

6.3.2
6

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

7

Method Blank Summary

Page 1 of 1

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4105-MB	FD07989.D	1	07/21/11	CS	07/20/11	OP4105	GFD354

The QC reported here applies to the following samples:

Method: SW846-8015B

D25646-1, D25646-2, D25646-3, D25646-4, D25646-5, D25646-6, D25646-7, D25646-8, D25646-9, D25646-10, D25646-11, D25646-12

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	85%	61-142%

7.1.1

7

Method Blank Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4113-MB	FD08018.D	1	07/21/11	CS	07/21/11	OP4113	GFD355

The QC reported here applies to the following samples:

Method: SW846-8015B

D25646-13, D25646-14, D25646-15, D25646-16, D25646-17, D25646-18, D25646-19, D25646-20, D25646-21, D25646-22, D25646-23, D25646-24

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	76% 61-142%

7.1.2
7

Blank Spike Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4105-BS	FD07990.D	1	07/21/11	CS	07/20/11	OP4105	GFD354

The QC reported here applies to the following samples:

Method: SW846-8015B

D25646-1, D25646-2, D25646-3, D25646-4, D25646-5, D25646-6, D25646-7, D25646-8, D25646-9, D25646-10, D25646-11, D25646-12

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	448	67	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	79%	61-142%

7.2.1
7

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4113-BS	FD08019.D	1	07/21/11	CS	07/21/11	OP4113	GFD355

The QC reported here applies to the following samples:

Method: SW846-8015B

D25646-13, D25646-14, D25646-15, D25646-16, D25646-17, D25646-18, D25646-19, D25646-20, D25646-21, D25646-22, D25646-23, D25646-24

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	477	72	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	80%	61-142%

7.2.2
7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4105-MS	FD07991.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
OP4105-MSD	FD07992.D	1	07/21/11	CS	07/20/11	OP4105	GFD354
D25640-1	FD07993.D	1	07/21/11	CS	07/20/11	OP4105	GFD354

The QC reported here applies to the following samples:

Method: SW846-8015B

D25646-1, D25646-2, D25646-3, D25646-4, D25646-5, D25646-6, D25646-7, D25646-8, D25646-9, D25646-10, D25646-11, D25646-12

CAS No.	Compound	D25640-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	164	904	553	43	606	49	9	24-157/35
CAS No.	Surrogate Recoveries	MS	MSD	D25640-1	Limits				
84-15-1	o-Terphenyl	66%	71%	65%	61-142%				

7.3.1
7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D25646
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4113-MS	FD08020.D	1	07/21/11	CS	07/21/11	OP4113	GFD355
OP4113-MSD	FD08021.D	1	07/21/11	CS	07/21/11	OP4113	GFD355
D25712-1	FD08022.D	1	07/21/11	CS	07/21/11	OP4113	GFD355

The QC reported here applies to the following samples:

Method: SW846-8015B

D25646-13, D25646-14, D25646-15, D25646-16, D25646-17, D25646-18, D25646-19, D25646-20, D25646-21, D25646-22, D25646-23, D25646-24

CAS No.	Compound	D25712-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	292	745	855	76	1010	97	17	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D25712-1	Limits
84-15-1	o-Terphenyl	67%	70%	67%	61-142%

7.3.2
7

* = Outside of Control Limits.



07/13/12

Technical Report for

ERM-Rocky Mountain, Inc.

Landfarm, Peetz, CO

Schwake 0104362

Accutest Job Number: D26810

Sampling Date: 08/19/11

Report to:

chris.thebo@erm.com

Total number of pages in report: 35



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)
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Test results relate only to samples analyzed.

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Sample Summary

ERM-Rocky Mountain, Inc.

Job No: D26810

Landfarm, Peetz, CO

Project No: Schwake 0104362

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D26810-1	08/19/11	13:35 GT	08/19/11	SO	Soil	G1
D26810-2	08/19/11	13:40 GT	08/19/11	SO	Soil	G2
D26810-3	08/19/11	13:45 GT	08/19/11	SO	Soil	G3
D26810-4	08/19/11	13:10 GT	08/19/11	SO	Soil	G5
D26810-5	08/19/11	13:15 GT	08/19/11	SO	Soil	G6
D26810-6	08/19/11	13:25 GT	08/19/11	SO	Soil	G8
D26810-7	08/19/11	13:05 GT	08/19/11	SO	Soil	J1
D26810-8	08/19/11	13:20 GT	08/19/11	SO	Soil	H8
D26810-9	08/19/11	13:22 GT	08/19/11	SO	Soil	H88

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM-Rocky Mountain, Inc.

Job No D26810

Site: Landfarm, Peetz, CO

Report Date 8/30/2011 4:38:50 PM

On 08/19/2011, 9 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D26810 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8015B

Matrix SO	Batch ID: GGB712
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D26439-1RMS, D26439-1RMSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP4332
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D26843-1MS, D26843-1MSD were used as the QC samples indicated.
- The matrix spike duplicate (MSD) recovery(s) of TPH-DRO (C10-C28) are outside control limits. Probable cause due to matrix interference.
- The RPD(s) for the MS and MSD recoveries of TPH-DRO (C10-C28) are outside control limits for sample OP4332-MSD. High RPD due to possible sample nonhomogeneity.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN11193
------------------	--------------------------

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Job Number: D26810
Account: ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO
Collected: 08/19/11



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D26810-1	G1					
TPH-DRO (C10-C28)		531	14	8.9	mg/kg	SW846-8015B
D26810-2	G2					
TPH-DRO (C10-C28)		751	14	8.9	mg/kg	SW846-8015B
D26810-3	G3					
TPH-DRO (C10-C28)		4560	68	44	mg/kg	SW846-8015B
D26810-4	G5					
TPH-DRO (C10-C28)		936	14	8.8	mg/kg	SW846-8015B
D26810-5	G6					
TPH-DRO (C10-C28)		602	14	8.9	mg/kg	SW846-8015B
D26810-6	G8					
TPH-DRO (C10-C28)		202	14	8.8	mg/kg	SW846-8015B
D26810-7	J1					
TPH-DRO (C10-C28)		43300	1100	720	mg/kg	SW846-8015B
D26810-8	H8					
TPH-DRO (C10-C28)		1530	13	8.8	mg/kg	SW846-8015B
D26810-9	H88					
TPH-DRO (C10-C28)		416	13	8.7	mg/kg	SW846-8015B



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: G1		Date Sampled: 08/19/11
Lab Sample ID: D26810-1		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 97.2
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12521.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	74%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: G1		Date Sampled: 08/19/11
Lab Sample ID: D26810-1		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 97.2
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09454.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	531	14	8.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	106%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: G2		Date Sampled: 08/19/11
Lab Sample ID: D26810-2		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 97.3
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12524.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	74%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: G2		Date Sampled: 08/19/11
Lab Sample ID: D26810-2		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 97.3
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09455.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	751	14	8.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	96%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: G3		Date Sampled: 08/19/11
Lab Sample ID: D26810-3		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 98.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12525.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	74%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: G3		Date Sampled: 08/19/11
Lab Sample ID: D26810-3		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 98.1
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09493.D	5	08/24/11	KV	08/23/11	OP4332	GFD413
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	4560	68	44	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	83%		61-142%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: G5		Date Sampled: 08/19/11
Lab Sample ID: D26810-4		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 97.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12526.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	73%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: G5		Date Sampled: 08/19/11
Lab Sample ID: D26810-4		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 97.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09457.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	936	14	8.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	91%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: G6	Date Sampled: 08/19/11
Lab Sample ID: D26810-5	Date Received: 08/19/11
Matrix: SO - Soil	Percent Solids: 96.9
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12529.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	72%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: G6		Date Sampled: 08/19/11
Lab Sample ID: D26810-5		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 96.9
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09458.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	602	14	8.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	86%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: G8		Date Sampled: 08/19/11
Lab Sample ID: D26810-6		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 98.1
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12530.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	76%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: G8	Date Sampled: 08/19/11
Lab Sample ID: D26810-6	Date Received: 08/19/11
Matrix: SO - Soil	Percent Solids: 98.1
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09460.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	202	14	8.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	92%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: J1		Date Sampled: 08/19/11
Lab Sample ID: D26810-7		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 95.8
Method: SW846 8015B		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12531.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	67%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: J1		Date Sampled: 08/19/11
Lab Sample ID: D26810-7		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 95.8
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09494.D	10	08/24/11	KV	08/23/11	OP4332	GFD413
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	8.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	43300	1100	720	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	126%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: H8	Date Sampled: 08/19/11
Lab Sample ID: D26810-8	Date Received: 08/19/11
Matrix: SO - Soil	Percent Solids: 98.7
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12532.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	74%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: H8		Date Sampled: 08/19/11
Lab Sample ID: D26810-8		Date Received: 08/19/11
Matrix: SO - Soil		Percent Solids: 98.7
Method: SW846-8015B SW846 3546		
Project: Landfarm, Peetz, CO		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09462.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1530	13	8.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: H88	Date Sampled: 08/19/11
Lab Sample ID: D26810-9	Date Received: 08/19/11
Matrix: SO - Soil	Percent Solids: 98.8
Method: SW846 8015B	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB12533.D	1	08/23/11	SK	n/a	n/a	GGB712
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	74%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: H88	Date Sampled: 08/19/11
Lab Sample ID: D26810-9	Date Received: 08/19/11
Matrix: SO - Soil	Percent Solids: 98.8
Method: SW846-8015B SW846 3546	
Project: Landfarm, Peetz, CO	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD09463.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	416	13	8.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	109%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Mountain States
4036 Youngfield Street Wheat Ridge, Co 80033
TEL: 303-425-6921 877-737-4521
FAX: 303-425-6921

FED-EX Tracking #	Order Control #
Accutest Order #	Accutest Job # D26810

Client/Reporting Information		Project Information										Matrix Codes							
Company Name: EKM		Project Name: Schunke Landfarm										DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB- Trip Blank							
Street Address: 6455 S. Yosemite St 9W		City: Peetz																	
City: Freemont CO 80011		Billing Information (if different from Report to)										TPH GPO TPH DRO							
Project Contact: Gabe Touma		Company Name:																	
Phone #: 720 468 2420		Street Address:																	
Fax #: 720 468 2420		City: State: Zip:																	
Signature: GT		Client PO#: 0104362																	
Phone #: 720 468 2420		Project Manager: Dennis Schilly										LAB USE ONLY 01 02 03 04 05 06 07 08 09							
Accutest Sample #		Field ID / Point of Collection		Collection		Sampled by		Matrix		# of bottles				Number of preserved bottles					
		G-1		1335 8/19/11		GT S		1		<input checked="" type="checkbox"/> TPH GPO <input checked="" type="checkbox"/> TPH DRO									
		G-2		1340															
		G-3		1345															
		G-5		1310															
		G-6		1315															
		G-8		1325															
		G-1		1305															
		H8		1320															
		H88		1322															

5.1 5

Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day / SH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY	Approved By (Accutest PM) / Date: _____	<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> State Forms <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> EOD Format <input type="checkbox"/> Commercial "B" + Narrative <input type="checkbox"/> PDF <input type="checkbox"/> FULLT1 (Level 3+4)	Comments / Special Instructions: _____
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Emergency & Rush T/A data available via LabLink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: 1	Date Time: 8/19/11 1800	Received By: 1	Date Time: 8/19/11 1800
Relinquished by: 2	Date Time:	Received By: 2	Date Time:
Relinquished by: 3	Date Time:	Received By: 3	Date Time:
Relinquished by: 4	Date Time:	Received By: 4	Date Time:
Relinquished by: 5	Date Time:	Received By: 5	Date Time:

Custody Seal # **HD** Intact Not Intact Preserved where applicable On Ice Cooler Temp: **3.3**

D26810: Chain of Custody
Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D26810 Client: ERM Immediate Client Services Action Required: No
 Date / Time Received: 8/19/2011 6:00:00 PM No. Coolers: 1 Client Service Action Required at Login: No
 Project: SCHWAKE LANDFARM Airbill #s: HD

Cooler Security Y or N Y or N
 1. Custody Seals Present: 3. COC Present:
 2. Custody Seals Intact: 4. Smp'l Dates/Time OK

Cooler Temperature Y or N
 1. Temp criteria achieved:
 2. Cooler temp verification: Infrared gun
 3. Cooler media: Ice (bag)

Quality Control Preservation Y or N N/A
 1. Trip Blank present / cooler:
 2. Trip Blank listed on COC:
 3. Samples preserved properly:
 4. VOCs headspace free:

Sample Integrity - Documentation Y or N
 1. Sample labels present on bottles:
 2. Container labeling complete:
 3. Sample container label / COC agree:

Sample Integrity - Condition Y or N
 1. Sample recvd within HT:
 2. All containers accounted for:
 3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A
 1. Analysis requested is clear:
 2. Bottles received for unspecified tests:
 3. Sufficient volume rec'd for analysis:
 4. Compositing instructions clear:
 5. Filtering instructions clear:

Comments

Accutest Laboratories
V:(903) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

5.1
5

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: D26810
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB712-MB	GB12512.D	1	08/23/11	SK	n/a	n/a	GGB712

The QC reported here applies to the following samples:

Method: SW846 8015B

D26810-1, D26810-2, D26810-3, D26810-4, D26810-5, D26810-6, D26810-7, D26810-8, D26810-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	78% 60-140%

6.1.1
6

Blank Spike Summary

Job Number: D26810
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB712-BS	GB12513.D	1	08/23/11	SK	n/a	n/a	GGB712

The QC reported here applies to the following samples: Method: SW846 8015B

D26810-1, D26810-2, D26810-3, D26810-4, D26810-5, D26810-6, D26810-7, D26810-8, D26810-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	119	108	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	89%	60-140%

6.2.1

6

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D26810
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D26439-1RMS	GB12515.D	1	08/23/11	SK	n/a	n/a	GGB712
D26439-1RMSD	GB12516.D	1	08/23/11	SK	n/a	n/a	GGB712
D26439-1R	GB12514.D	1	08/23/11	SK	n/a	n/a	GGB712

The QC reported here applies to the following samples:

Method: SW846 8015B

D26810-1, D26810-2, D26810-3, D26810-4, D26810-5, D26810-6, D26810-7, D26810-8, D26810-9

CAS No.	Compound	D26439-1R mg/kg	Spike Q mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	110	111	101	112	102	1	70-130/30
CAS No.	Surrogate Recoveries	MS	MSD	D26439-1R		Limits			
120-82-1	1,2,4-Trichlorobenzene	72%	73%	67%		60-140%			

* = Outside of Control Limits.

6.3.1
6



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

7

Method Blank Summary

Job Number: D26810
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4332-MB	FD09445.D	1	08/23/11	KV	08/23/11	OP4332	GFD410

The QC reported here applies to the following samples: **Method:** SW846-8015B

D26810-1, D26810-2, D26810-3, D26810-4, D26810-5, D26810-6, D26810-7, D26810-8, D26810-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	89% 61-142%

7.1.1
7

Blank Spike Summary

Job Number: D26810
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4332-BS	FD09446.D	1	08/23/11	KV	08/23/11	OP4332	GFD410

The QC reported here applies to the following samples:

Method: SW846-8015B

D26810-1, D26810-2, D26810-3, D26810-4, D26810-5, D26810-6, D26810-7, D26810-8, D26810-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	548	82	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	99%	61-142%

7.2.1
7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D26810
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Landfarm, Peetz, CO

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4332-MS	FD09447.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
OP4332-MSD	FD09448.D	1	08/23/11	KV	08/23/11	OP4332	GFD410
D26843-1	FD09450.D	1	08/23/11	KV	08/23/11	OP4332	GFD410

The QC reported here applies to the following samples: Method: SW846-8015B

D26810-1, D26810-2, D26810-3, D26810-4, D26810-5, D26810-6, D26810-7, D26810-8, D26810-9

CAS No.	Compound	D26843-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	643	735	949	42	571	-10* ^a	50* ^b	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D26843-1	Limits
84-15-1	o-Terphenyl	84%	85%	87%	61-142%

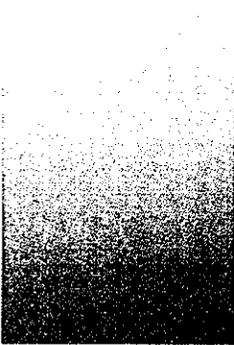
- (a) Outside control limits due to possible matrix interference.
- (b) High RPD due to possible sample nonhomogeneity.

* = Outside of Control Limits.

7.3.1 7



07/13/12



Technical Report for

ERM-Rocky Mountain, Inc.

Schwake Tank Battery

Accutest Job Number: D29606

Sampling Date: 11/17/11

Report to:

chris.thebo@erm.com

Total number of pages in report: 47



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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Sample Summary

ERM-Rocky Mountain, Inc.

Job No: D29606

Schwake Tank Battery

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D29606-1	11/17/11	13:15 GT	11/17/11	SO	Soil	G1
D29606-2	11/17/11	13:20 GT	11/17/11	SO	Soil	G2
D29606-3	11/17/11	13:25 GT	11/17/11	SO	Soil	G3
D29606-4	11/17/11	13:30 GT	11/17/11	SO	Soil	G5
D29606-5	11/17/11	13:35 GT	11/17/11	SO	Soil	G6
D29606-6	11/17/11	13:40 GT	11/17/11	SO	Soil	H8
D29606-7	11/17/11	13:45 GT	11/17/11	SO	Soil	J1
D29606-8	11/17/11	13:50 GT	11/17/11	SO	Soil	K1
D29606-9	11/17/11	13:55 GT	11/17/11	SO	Soil	G11
D29606-10	11/17/11	14:00 GT	11/17/11	SO	Soil	L1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM-Rocky Mountain, Inc.

Job No D29606

Site: Schwake Tank Battery

Report Date 12/8/2011 10:55:52 AM

On 11/17/2011, 10 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.1 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D29606 was assigned to the project. The lab sample IDs, client sample IDs, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8015B

Matrix SO	Batch ID: GGB794
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) D29577-IMS, D29577-IMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix SO	Batch ID: GGB795
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29637-IMS, D29637-IMSD were used as the QC samples indicated.

Matrix SO	Batch ID: GGB796
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29717-IMS, D29717-IMSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP4881
------------------	-------------------------

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29629-IMS, D29629-IMSD were used as the QC samples indicated.

Matrix SO	Batch ID: OP4904
------------------	-------------------------

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29708-3MS, D29708-3MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN12618
------------------	--------------------------

- The data for SM19 2540B M meets quality control requirements.

Matrix SO	Batch ID: GN12621
------------------	--------------------------

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Page 1 of 1

Job Number: D29606
Account: ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery
Collected: 11/17/11



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D29606-1	G1					
TPH-DRO (C10-C28)		302	72	47	mg/kg	SW846-8015B
D29606-2	G2					
TPH-DRO (C10-C28)		720	72	47	mg/kg	SW846-8015B
D29606-3	G3					
TPH-DRO (C10-C28)		1440	15	9.4	mg/kg	SW846-8015B
D29606-4	G5					
TPH-DRO (C10-C28)		876	71	46	mg/kg	SW846-8015B
D29606-5	G6					
TPH-DRO (C10-C28)		1070	72	47	mg/kg	SW846-8015B
D29606-6	H8					
TPH-DRO (C10-C28)		120	14	9.1	mg/kg	SW846-8015B
D29606-7	J1					
TPH-DRO (C10-C28)		197	14	9.4	mg/kg	SW846-8015B
D29606-8	K1					
TPH-DRO (C10-C28)		406	70	46	mg/kg	SW846-8015B
D29606-9	G11					
TPH-DRO (C10-C28)		470	15	9.4	mg/kg	SW846-8015B
D29606-10	L1					
TPH-DRO (C10-C28)		3570	72	47	mg/kg	SW846-8015B



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: G1		Date Sampled: 11/17/11
Lab Sample ID: D29606-1		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 92.9
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB13999.D	1	11/22/11	SK	n/a	n/a	GGB794
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.5 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	13	6.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	82%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: G1		Date Sampled: 11/17/11
Lab Sample ID: D29606-1		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 92.9
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11821:D	5	11/30/11	TR	11/23/11	OP4904	GFD603
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	302	72	47	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: G2	Date Sampled: 11/17/11
Lab Sample ID: D29606-2	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 92.6
Method: SW846 8015B	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14000.D	1	11/22/11	SK	n/a	n/a	GGB794
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.7 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	85%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: G2	Date Sampled: 11/17/11
Lab Sample ID: D29606-2	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 92.6
Method: SW846-8015B SW846 3546	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11822.D	5	11/30/11	TR	11/23/11	OP4904	GFD603
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	720	72	47	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	92%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: G3		Date Sampled: 11/17/11
Lab Sample ID: D29606-3		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 91.6
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14001.D	1	11/22/11	SK	n/a	n/a	GGB794
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	85%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: G3	Date Sampled: 11/17/11
Lab Sample ID: D29606-3	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 91.6
Method: SW846-8015B SW846 3546	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11593.D	1	11/21/11	TR	11/19/11	OP4881	GFD588
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1440	15	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	71%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: G5		Date Sampled: 11/17/11
Lab Sample ID: D29606-4		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 94.2
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14002.D	1	11/22/11	SK	n/a	n/a	GGB794
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.3 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	84%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: G5	Date Sampled: 11/17/11
Lab Sample ID: D29606-4	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 94.2
Method: SW846-8015B SW846 3546	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11823.D	5	11/30/11	TR	11/23/11	OP4904	GFD603
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	876	71	46	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: G6	Date Sampled: 11/17/11
Lab Sample ID: D29606-5	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 92.1
Method: SW846 8015B	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14003.D	1	11/22/11	SK	n/a	n/a	GGB794
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	87%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: G6	Date Sampled: 11/17/11
Lab Sample ID: D29606-5	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 92.1
Method: SW846-8015B SW846 3546	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11824.D	5	11/30/11	TR	11/23/11	OP4904	GFD603
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1070	72	47	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: H8		Date Sampled: 11/17/11
Lab Sample ID: D29606-6		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 94.8
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14018.D	1	11/22/11	SK	n/a	n/a	GGB795
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	91%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: H8		Date Sampled: 11/17/11
Lab Sample ID: D29606-6		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 94.8
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11597.D	1	11/21/11	TR	11/19/11	OP4881	GFD588
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	120	14	9.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	114%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: J1	Date Sampled: 11/17/11
Lab Sample ID: D29606-7	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 92.2
Method: SW846 8015B	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14019.D	I	11/22/11	SK	n/a	n/a	GGB795
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	89%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: J1		Date Sampled: 11/17/11
Lab Sample ID: D29606-7		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 92.2
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11598.D	1	11/21/11	TR	11/19/11	OP4881	GFD588
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	197	14	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	98%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.7
4

Report of Analysis

Client Sample ID: K1		Date Sampled: 11/17/11
Lab Sample ID: D29606-8		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 94.9
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14062.D	1	11/24/11	SK	n/a	n/a	GGB796
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.2 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	89%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: K1		Date Sampled: 11/17/11
Lab Sample ID: D29606-8		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 94.9
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11825.D	5	11/30/11	TR	11/23/11	OP4904	GFD603
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	406	70	46	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	72%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.8
4

Report of Analysis

Client Sample ID: G11	Date Sampled: 11/17/11
Lab Sample ID: D29606-9	Date Received: 11/17/11
Matrix: SO - Soil	Percent Solids: 91.9
Method: SW846 8015B	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14063.D	1	11/24/11	SK	n/a	n/a	GGB796
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	86%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: G11		Date Sampled: 11/17/11
Lab Sample ID: D29606-9		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 91.9
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11600.D	1	11/21/11	TR	11/19/11	OP4881	GFD588
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	470	15	9.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	102%		61-142%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.9
4

Report of Analysis

Client Sample ID: L1		Date Sampled: 11/17/11
Lab Sample ID: D29606-10		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 93.1
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14064.D	1	11/24/11	SK	n/a	n/a	GGB796
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.9 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	5.9	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	85%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4

Report of Analysis

Client Sample ID: L1		Date Sampled: 11/17/11
Lab Sample ID: D29606-10		Date Received: 11/17/11
Matrix: SO - Soil		Percent Solids: 93.1
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11826.D	5	11/30/11	TR	11/23/11	OP4904	GFD603
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	3570	72	47	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	53%		43-136%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.10
4



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4036 Youngfield Street
 Wheat Ridge, CO 80033-3882
 303-425-8021; 877-737-4521
 FAX: 303-425-6854
 www.accutest.com

Client/Reporting Information
 Company: ERM, West, LLC
 Street: 6455 Vasconite St, Ste 90
 City: Village State: CO ZIP: 80111
 Contact: Gabe Touma E-Mail: Gabe.Touma@erm.com
 Phone: 7204682429 Fax: _____
 Sampler: Gabe Touma Phone: 7204682429

Billing Information (if different from reporting)
 Company: _____
 Street: _____
 City: _____ State: _____ ZIP: _____
 Attention: _____
 Client PO #: _____
 Accutest Quote/Bottle Order #: _____

Project Information
 Accutest Job #: D29606
 PWSID or Project#: 010436
 System Name: Schwake Land Farm
 System Address: CR 74
 City: Reed State: CO ZIP: _____
 Contact Person: _____
 Tel: _____ Email: _____

Turn Around Time (Business Days)
 Std 10 business Days
 5 Day Rush
 3 Day Rush
 2 Day Rush
 1 Day Rush

PHASE II - Drinking Water Analysis (check analysis) Soils

State Form Information			No. of Containers	Analytes																		Subcontracted Analysis	Lab Use Only												
State Forms Required	Yes	No		THM 524.2	VOC 524.2	Halocetic Acids 552.2	EDB/DIBP 504.1	Pesticides / PCBs 508	Herbicides 515.4	SOC 525.2 (3 analytes only)	OP Pesticides 525.2	Carbamates 531.1	Glyphosate 547	Endothal 548.1	Diquat 549.2	Nitrite-N	Nitrate-N	Fluoride	Alkalinity	Langlier Index	TOC			DOC	Cyanide	SUNA	UV254	11 Inorganic Metals *	Lead & Copper	Total Calcium (pla)	Gross-A + Total Solid	Gross-A+B	Ra 226	Ra 228	Uranium
Compliance Samples	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>																															
Mall Forms to State	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>																															
Fax	<input type="checkbox"/>	PDF	<input type="checkbox"/>	EDD	<input type="checkbox"/>																														
Sample Location or ID	Date	Time																																	
G-1	11/17/11	1315																																01	
G-2		1320																																02	
G-3		1325																																03	
G-5		1330																																04	
G-6		1335																																05	
H-8		1340																																06	
J-1		1345																																07	
K-1		1350																																08	
G-11		1355																																09	
L-1		1400																																10	

Instructions: _____
 * Inorganic Metals Include: Sb, As, Ba, Be, Cd, Cr, Hg, Ni, Se, Na, Ti

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By:	Date/Time	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
1 <u>[Signature]</u>	11/17/11 1700	2 <u>[Signature]</u>	11/17 17:00	3 _____	_____	4 _____	_____
Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time	Received By:	Date/Time
2 _____	_____	3 _____	_____	4 _____	_____	5 _____	_____

Custody Seal: HD Intact Not Intact Preserved where applicable Cooler Temp: 2.1 On Ice Location: _____

5.1
5

D29606: Chain of Custody
 Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D29606 Client: ERM WEST INC. Immediate Client Services Action Required: No
 Date / Time Received: 11/17/2011 5:00:00 PM No. Coolers: 1 Client Service Action Required at Login: No
 Project: 010436 Airbill #'s: HD

Cooler Security Y or N Y or N
 1. Custody Seals Present: 3. COC Present:
 2. Custody Seals Intact: 4. Smpl Dates/Time OK

Cooler Temperature Y or N
 1. Temp criteria achieved:
 2. Cooler temp verification: Infrared gun
 3. Cooler media: Ice (bag)

Quality Control Preservation Y or N N/A
 1. Trip Blank present / cooler:
 2. Trip Blank listed on COC:
 3. Samples preserved properly:
 4. VOCs headspace free:

Sample Integrity - Documentation Y or N
 1. Sample labels present on bottles:
 2. Container labeling complete:
 3. Sample container label / COC agree:

Sample Integrity - Condition Y or N
 1. Sample recvd within HT:
 2. All containers accounted for:
 3. Condition of sample: Intact

Sample Integrity - Instructions Y or N N/A
 1. Analysis requested is clear:
 2. Bottles received for unspecified tests
 3. Sufficient volume rec'd for analysis:
 4. Compositing instructions clear:
 5. Filtering instructions clear:

Comments

Accutest Laboratories 4036 Youngfield Street Wheat Ridge, CO
 V:(303) 425-6021 F: (303) 425-6654 www.accutest.com

5.1
5



GC Volatiles



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB794-MB	GB13979.D	1	11/21/11	SK	n/a	n/a	GGB794

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-1, D29606-2, D29606-3, D29606-4, D29606-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	97%	60-140%

6.1.1
6

Method Blank Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB795-MB	GB14007.D	1	11/22/11	SK	n/a	n/a	GGB795

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-6, D29606-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	94%	60-140%

6.1.2
6

Method Blank Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB796-MB	GB14037.D	1	11/23/11	SK	n/a	n/a	GGB796

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-8, D29606-9, D29606-10

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	95%	60-140%

6.1.3
6

Blank Spike Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB794-BS	GB13980.D	1	11/21/11	SK	n/a	n/a	GGB794

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-1, D29606-2, D29606-3, D29606-4, D29606-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	110	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	60-140%

* = Outside of Control Limits.

6.2.1
6

Blank Spike Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB795-BS	GB14008.D	1	11/22/11	SK	n/a	n/a	GGB795

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-6, D29606-7

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	111	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	60-140%

6.2.2
6

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB796-BS	GB14038.D	1	11/23/11	SK	n/a	n/a	GGB796

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-8, D29606-9, D29606-10

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	115	105	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	106%	60-140%

* = Outside of Control Limits.

6.2.3
6

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29577-1MS	GB13982.D	1	11/21/11	SK	n/a	n/a	GGB794
D29577-1MSD	GB13983.D	1	11/21/11	SK	n/a	n/a	GGB794
D29577-1	GB13981.D	1	11/21/11	SK	n/a	n/a	GGB794

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-1, D29606-2, D29606-3, D29606-4, D29606-5

CAS No.	Compound	D29577-1 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD	
	TPH-GRO (C6-C10)	12.2	J	154	162	97	159	95	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D29577-1	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	107%	87%	60-140%

6.3.1
6

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29637-1MS	GB14010.D	1	11/22/11	SK	n/a	n/a	GGB795
D29637-1MSD	GB14011.D	1	11/22/11	SK	n/a	n/a	GGB795
D29637-1	GB14009.D	1	11/22/11	SK	n/a	n/a	GGB795

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-6, D29606-7

CAS No.	Compound	D29637-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	156	163	105	160	103	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D29637-1	Limits
120-82-1	1,2,4-Trichlorobenzene	115%	106%	94%	60-140%

* = Outside of Control Limits.

6.3.2
6

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29717-1MS	GB14040.D	1	11/23/11	SK	n/a	n/a	GGB796
D29717-1MSD	GB14041.D	1	11/23/11	SK	n/a	n/a	GGB796
D29717-1	GB14039.D	1	11/23/11	SK	n/a	n/a	GGB796

The QC reported here applies to the following samples:

Method: SW846 8015B

D29606-8, D29606-9, D29606-10

CAS No.	Compound	D29717-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	176	180	103	182	104	1	70-130/30
CAS No.	Surrogate Recoveries	MS	MSD	D29717-1		Limits			
120-82-1	1,2,4-Trichlorobenzene	105%	107%	95%		60-140%			

* = Outside of Control Limits.

6.3.3
6



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

7

Method Blank Summary

Page 1 of 1

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4881-MB	FD11580.D	1	11/21/11	TR	11/19/11	OP4881	GFD588

The QC reported here applies to the following samples:

Method: SW846-8015B

D29606-3, D29606-6, D29606-7, D29606-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	109% 61-142%

7.1.1
7

Method Blank Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4904-MB	FD11816.D	1	11/30/11	TR	11/23/11	OP4904	GFD603

The QC reported here applies to the following samples:

Method: SW846-8015B

D29606-1, D29606-2, D29606-4, D29606-5, D29606-8, D29606-10

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	85% 61-142%

7.1.2
7

Blank Spike Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4881-BS	FD11581.D	1	11/21/11	TR	11/19/11	OP4881	GFD588

The QC reported here applies to the following samples:

Method: SW846-8015B

D29606-3, D29606-6, D29606-7, D29606-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	518	78	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	99%	61-142%

7.2.1
7

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4904-BS	FD11817.D	1	11/30/11	TR	11/23/11	OP4904	GFD603

The QC reported here applies to the following samples:

Method: SW846-8015B

D29606-1, D29606-2, D29606-4, D29606-5, D29606-8, D29606-10

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	560	84	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	93%	61-142%

* = Outside of Control Limits.

7.22
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4881-MS	FD11582.D	1	11/21/11	TR	11/19/11	OP4881	GFD588
OP4881-MSD	FD11583.D	1	11/21/11	TR	11/19/11	OP4881	GFD588
D29629-1	FD11584.D	1	11/21/11	TR	11/19/11	OP4881	GFD588

The QC reported here applies to the following samples:

Method: SW846-8015B

D29606-3, D29606-6, D29606-7, D29606-9

CAS No.	Compound	D29629-1 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND	779	652	84	636	82	2	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D29629-1	Limits
84-15-1	o-Terphenyl	104%	101%	80%	61-142%

7.3.1
7

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29606
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4904-MS	FD11818.D	1	11/30/11	TR	11/23/11	OP4904	GFD603
OP4904-MSD	FD11819.D	1	11/30/11	TR	11/23/11	OP4904	GFD603
D29708-3	FD11820.D	1	11/30/11	TR	11/23/11	OP4904	GFD603

The QC reported here applies to the following samples:

Method: SW846-8015B

D29606-1, D29606-2, D29606-4, D29606-5, D29606-8, D29606-10

CAS No.	Compound	D29708-3 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND	758	550	73	490	65	12	24-157/35
CAS No.	Surrogate Recoveries	MS	MSD	D29708-3		Limits			
84-15-1	o-Terphenyl	75%	68%	77%		61-142%			

* = Outside of Control Limits.

7.3.2
7



07/13/12

Technical Report for

ERM-Rocky Mountain, Inc.

Schwake Tank Battery

0104362

Accutest Job Number: D34523

Sampling Date: 05/15/12

Report to:

chris.thebo@erm.com

Total number of pages in report: 29



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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Sample Summary

ERM-Rocky Mountain, Inc.

Job No: D34523

Schwake Tank Battery
Project No: 0104362

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D34523-1	05/15/12	13:10 GT	05/15/12	SO	Soil	L1
D34523-2	05/15/12	13:20 GT	05/15/12	SO	Soil	G2
D34523-3	05/15/12	13:30 GT	05/15/12	SO	Soil	G3
D34523-4	05/15/12	13:40 GT	05/15/12	SO	Soil	G5
D34523-5	05/15/12	13:50 GT	05/15/12	SO	Soil	G6
D34523-6	05/15/12	13:45 GT	05/15/12	SO	Soil	G55

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM-Rocky Mountain, Inc.

Job No D34523

Site: Schwake Tank Battery

Report Date 5/25/2012 3:44:21 PM

On 05/15/2012, 6 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.7 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D34523 was assigned to the project. The lab sample IDs, client sample IDs, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8015B

Matrix SO	Batch ID: GGB892
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D34531-1MS, D34531-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP5909
------------------	-------------------------

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D34531-2MS, D34531-2MSD were used as the QC samples indicated.
- Sample(s) D34523-1 have surrogates outside control limits. Probable cause due to matrix interference.
- D34523-1 for o-Terphenyl: Outside control limits due to possible matrix interference.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GNI4992
------------------	--------------------------

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Summary of Hits

Job Number: D34523
Account: ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery
Collected: 05/15/12



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D34523-1	L1					
TPH-DRO (C10-C28)		4880	140	90	mg/kg	SW846-8015B
D34523-2	G2					
TPH-DRO (C10-C28)		792	160	100	mg/kg	SW846-8015B
D34523-3	G3					
TPH-DRO (C10-C28)		1670	140	92	mg/kg	SW846-8015B
D34523-4	G5					
TPH-DRO (C10-C28)		885	140	90	mg/kg	SW846-8015B
D34523-5	G6					
TPH-DRO (C10-C28)		943	140	91	mg/kg	SW846-8015B
D34523-6	G55					
TPH-DRO (C10-C28)		969	14	9.1	mg/kg	SW846-8015B



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: L1		Date Sampled: 05/15/12
Lab Sample ID: D34523-1		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 96.3
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16026.D	1	05/16/12	SK	n/a	n/a	GGB892
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	84%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: L1		Date Sampled: 05/15/12
Lab Sample ID: D34523-1		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 96.3
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH004567.D	10	05/23/12	AW	05/18/12	OP5909	GFH253
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	4880	140	90	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	36% ^a		43-136%		

(a) Outside control limits due to possible matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: G2		Date Sampled: 05/15/12
Lab Sample ID: D34523-2		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 84.7
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16028.D	1	05/17/12	SK	n/a	n/a	GGB892
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	13	6.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	84%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: G2	Date Sampled: 05/15/12
Lab Sample ID: D34523-2	Date Received: 05/15/12
Matrix: SO - Soil	Percent Solids: 84.7
Method: SW846-8015B SW846 3546	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH004569.D	10	05/23/12	AW	05/18/12	OP5909	GFH253
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	792	160	100	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	63%		43-136%		

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: G3		Date Sampled: 05/15/12
Lab Sample ID: D34523-3		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 93.8
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16029.D	1	05/17/12	SK	n/a	n/a	GGB892
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	79%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: G3		Date Sampled: 05/15/12
Lab Sample ID: D34523-3		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 93.8
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH004571.D	10	05/23/12	AW	05/18/12	OP5909	GFH253
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	1670	140	92	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	50%		43-136%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.3
4

Report of Analysis

Client Sample ID: G5		Date Sampled: 05/15/12
Lab Sample ID: D34523-4		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 96.2
Method: SW846 8015B		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16030.D	1	05/17/12	SK	n/a	n/a	GGB892
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	80%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: G5		Date Sampled: 05/15/12
Lab Sample ID: D34523-4		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 96.2
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH004573.D	10	05/23/12	AW	05/18/12	OP5909	GFH253
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	885	140	90	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	62%		43-136%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

Report of Analysis

Client Sample ID: G6	Date Sampled: 05/15/12
Lab Sample ID: D34523-5	Date Received: 05/15/12
Matrix: SO - Soil	Percent Solids: 95.0
Method: SW846 8015B	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16031.D	1	05/17/12	SK	n/a	n/a	GGB892
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	79%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: G6		Date Sampled: 05/15/12
Lab Sample ID: D34523-5		Date Received: 05/15/12
Matrix: SO - Soil		Percent Solids: 95.0
Method: SW846-8015B SW846 3546		
Project: Schwake Tank Battery		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH004575.D	10	05/23/12	AW	05/18/12	OP5909	GFH253
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	943	140	91	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	74%		43-136%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.5
4

Report of Analysis

Client Sample ID: G55	Date Sampled: 05/15/12
Lab Sample ID: D34523-6	Date Received: 05/15/12
Matrix: SO - Soil	Percent Solids: 95.6
Method: SW846 8015B	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16032.D	1	05/17/12	SK	n/a	n/a	GGB892
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	82%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4

Report of Analysis

Client Sample ID: G55	Date Sampled: 05/15/12
Lab Sample ID: D34523-6	Date Received: 05/15/12
Matrix: SO - Soil	Percent Solids: 95.6
Method: SW846-8015B SW846 3546	
Project: Schwake Tank Battery	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH004577.D	1	05/23/12	AW	05/18/12	OP5909	GFH253
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	969	14	9.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	101%		43-136%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.6
4



Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Mountain States
4036 Youngfield Street West Ridge, Co 80035
TEL: 303-425-6021 877-737-4521
FAX: 303-425-6021

FED-EX Tracking #
Accutest Order # **D34523**
Accutest Job #

Company Name ERM, West - inc.		Project Name Schewaka Landfarm		Request Analysis (see TEST CODE sheet)										Matrix Codes	
Street Address 6455 S. Yosemite St, #900		Street CR 74		Billing Information (If different from Report to)										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SCD - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
City Golden, CO		City Peet 3		Company Name											
State CO		State CO		Street Address											
Zip 80102		Zip 80102		City State Zip											
Project Contact Gabe Touma @ERM.com		Project 0104362		Client PO#											
Phone #		Phone #		Attention:											
Sample Name(s) Gabe Touma		Project Manager Dennis Schiller		PO#											
Account Sample #		Collection		Number of preserved Bottles										LAB USE ONLY	
Field ID / Point of Collection		DATE		Date		Time		Sampled by		Mark		# of bottles		<input type="checkbox"/> FCI <input type="checkbox"/> HACH <input type="checkbox"/> HRO3 <input type="checkbox"/> HRO3A <input type="checkbox"/> HRO3B <input type="checkbox"/> HRO3C <input type="checkbox"/> HRO3D <input type="checkbox"/> HRO3E <input type="checkbox"/> HRO3F <input type="checkbox"/> HRO3G <input type="checkbox"/> HRO3H <input type="checkbox"/> HRO3I <input type="checkbox"/> HRO3J <input type="checkbox"/> HRO3K <input type="checkbox"/> HRO3L <input type="checkbox"/> HRO3M <input type="checkbox"/> HRO3N <input type="checkbox"/> HRO3O <input type="checkbox"/> HRO3P <input type="checkbox"/> HRO3Q <input type="checkbox"/> HRO3R <input type="checkbox"/> HRO3S <input type="checkbox"/> HRO3T <input type="checkbox"/> HRO3U <input type="checkbox"/> HRO3V <input type="checkbox"/> HRO3W <input type="checkbox"/> HRO3X <input type="checkbox"/> HRO3Y <input type="checkbox"/> HRO3Z <input type="checkbox"/> HRO3AA <input type="checkbox"/> HRO3AB <input type="checkbox"/> HRO3AC <input type="checkbox"/> HRO3AD <input type="checkbox"/> HRO3AE <input type="checkbox"/> HRO3AF <input type="checkbox"/> HRO3AG <input type="checkbox"/> HRO3AH <input type="checkbox"/> HRO3AI <input type="checkbox"/> HRO3AJ <input type="checkbox"/> HRO3AK <input type="checkbox"/> HRO3AL <input type="checkbox"/> HRO3AM <input type="checkbox"/> HRO3AN <input type="checkbox"/> HRO3AO <input type="checkbox"/> HRO3AP <input type="checkbox"/> HRO3AQ <input type="checkbox"/> HRO3AR <input type="checkbox"/> HRO3AS <input type="checkbox"/> HRO3AT <input type="checkbox"/> HRO3AU <input type="checkbox"/> HRO3AV <input type="checkbox"/> HRO3AW <input type="checkbox"/> HRO3AX <input type="checkbox"/> HRO3AY <input type="checkbox"/> HRO3AZ <input type="checkbox"/> HRO3BA <input type="checkbox"/> HRO3BB <input type="checkbox"/> HRO3BC <input type="checkbox"/> HRO3BD <input type="checkbox"/> HRO3BE <input 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type="checkbox"/> HRO3CK <input type="checkbox"/> HRO3CL <input type="checkbox"/> HRO3CM <input type="checkbox"/> HRO3CN <input type="checkbox"/> HRO3CO <input type="checkbox"/> HRO3CP <input type="checkbox"/> HRO3CQ <input type="checkbox"/> HRO3CR <input type="checkbox"/> HRO3CS <input type="checkbox"/> HRO3CT <input type="checkbox"/> HRO3CU <input type="checkbox"/> HRO3CV <input type="checkbox"/> HRO3CW <input type="checkbox"/> HRO3CX <input type="checkbox"/> HRO3CY <input type="checkbox"/> HRO3CZ <input type="checkbox"/> HRO3DA <input type="checkbox"/> HRO3DB <input type="checkbox"/> HRO3DC <input type="checkbox"/> HRO3DD <input type="checkbox"/> HRO3DE <input type="checkbox"/> HRO3DF <input type="checkbox"/> HRO3DG <input type="checkbox"/> HRO3DH <input type="checkbox"/> HRO3DI <input type="checkbox"/> HRO3DJ <input type="checkbox"/> HRO3DK <input type="checkbox"/> HRO3DL <input type="checkbox"/> HRO3DM <input type="checkbox"/> HRO3DN <input type="checkbox"/> HRO3DO <input 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Emergency & Rush TJA data available VIA Lablink				Commercial "A" = Results Only Commercial "B" = Results + QC Summary											

<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RW SH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY				Comments / Special Instructions									
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Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:
1	5/15/11 4:35	1 Jacob B...	5/15/11	2		
Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:
3		3		4		
Relinquished by:	Date/Time:	Received By:	Date/Time:	Custody Seal #	Intact	Not Intact
5		5		HD	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Preserved where applicable: On Ice: Cooler Temp: 2.7

5.1
5



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D34523 Client: ERM WEST - INC Immediate Client Services Action Required: No
 Date / Time Received: 5/15/2012 4:35:00 PM No. Coolers: 1 Client Service Action Required at Login: No
 Project: SCHWAKA LANDFARM Airbill #'s: HD

Cooler Security

	Y or N			Y or N	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. SmpI Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Cooler Temperature

	Y or N	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	<u>Infrared gun</u>	
3. Cooler media:	<u>Ice (bag)</u>	

Quality Control Preservation

	Y	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation

	Y	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Sample Integrity - Condition

	Y	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>	

Sample Integrity - Instructions

	Y	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories V:(303) 425-6021 4036 Youngfield Street F: (303) 425-8854 Wheat Ridge, CO www.accutest.com

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5



GC Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D34523
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB892-MB	GB16017.D	1	05/16/12	SK	n/a	n/a	GGB892

The QC reported here applies to the following samples:

Method: SW846 8015B

D34523-1, D34523-2, D34523-3, D34523-4, D34523-5, D34523-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	92% 60-140%

6.1.1
6

Blank Spike Summary

Job Number: D34523
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB892-BS	GB16018.D	I	05/16/12	SK	n/a	n/a	GGB892

The QC reported here applies to the following samples:

Method: SW846 8015B

D34523-1, D34523-2, D34523-3, D34523-4, D34523-5, D34523-6

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	125	114	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	98%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D34523
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D34531-1MS	GB16020.D	1	05/16/12	SK	n/a	n/a	GGB892
D34531-1MSD	GB16021.D	1	05/16/12	SK	n/a	n/a	GGB892
D34531-1	GB16019.D	1	05/16/12	SK	n/a	n/a	GGB892

The QC reported here applies to the following samples:

Method: SW846 8015B

D34523-1, D34523-2, D34523-3, D34523-4, D34523-5, D34523-6

CAS No.	Compound	D34531-1 mg/kg	Spike Q mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	136	156	115	155	114	1	70-130/30
CAS No.	Surrogate Recoveries	MS	MSD	D34531-1		Limits			
120-82-1	1,2,4-Trichlorobenzene	101%	92%	91%		60-140%			

* = Outside of Control Limits.

6.3.1
6



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

7

Method Blank Summary

Job Number: D34523
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5909-MB	FH004377.D 1		05/20/12	AW	05/18/12	OP5909	GFH243

The QC reported here applies to the following samples:

Method: SW846-8015B

D34523-1, D34523-2, D34523-3, D34523-4, D34523-5, D34523-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	93%	43-136%

7.1.1
7

Blank Spike Summary

Job Number: D34523
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5909-BS	FH004379.D 1		05/20/12	AW	05/18/12	OP5909	GFH243

The QC reported here applies to the following samples:

Method: SW846-8015B

D34523-1, D34523-2, D34523-3, D34523-4, D34523-5, D34523-6

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	587	88	58-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	122%	43-136%

* = Outside of Control Limits.

7.2.1
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D34523
Account: ERMCOGV ERM-Rocky Mountain, Inc.
Project: Schwake Tank Battery

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5909-MS	FH004381.D	1	05/20/12	AW	05/18/12	OP5909	GFH243
OP5909-MSD	FH004383.D	1	05/20/12	AW	05/18/12	OP5909	GFH243
D34531-2	FH004385.D	1	05/20/12	AW	05/18/12	OP5909	GFH243

The QC reported here applies to the following samples:

Method: SW846-8015B

D34523-1, D34523-2, D34523-3, D34523-4, D34523-5, D34523-6

CAS No.	Compound	D34531-2 mg/kg	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	552	758	1090	108	1070	105	2	20-183/43

CAS No.	Surrogate Recoveries	MS	MSD	D34531-2	Limits
84-15-1	o-Terphenyl	98%	91%	92%	43-136%

7.3.1
7

* = Outside of Control Limits.