

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

RECEIVED
8/21/2012

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☒ Site/Facility Closure ☐ Other (describe): _____

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

OGCC Operator Number: 96850

Name of Operator: Williams Production RMT Company

Address: 1058 County Road 215

City: Parachute State: CO Zip: 81635

Contact Name and Telephone:

Karolina Blaney

No: 970-683-2295

Fax: 970-285-9573

API Number: 05-045-14112

County: Garfield

Facility Name: Chevron TR 43-32-597

Facility Number: 324411

Well Name: Chevron TR 43-32-597

Well Number: _____

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NESE 32 5S 97W 6 PM Latitude: 39.568589 Longitude: -108.293951

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Range Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: 56 - Parachute-Irigul-Rohne

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Doe gulch lies approximatley 1720 ft to the west.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):

- ☒ Soils
☐ Vegetation
☐ Groundwater
☐ Surface Water

Extent of Impact:

Please see attached Notice of Completion Report
for Remediation # 5948

How Determined:

Visual observations, field screening, analytical testing

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Please see attached Notice of Completion Report for Remediation # 5948

Describe how source is to be removed:

Please see attached Notice of Completion Report for Remediation # 5948

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Please see attached Notice of Completion Report for Remediation # 5948



REMEDIATION WORKPLAN (Cont.)

WPX
Tracking Number: REM # 5948
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: TR43-32-597
Facility Name & No: Pl # 414587

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Please see attached Notice of Completion Report for Remediation # 5948

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Please see attached Notice of Completion Report for Remediation # 5948

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

Please see attached Notice of Completion Report for Remediation # 5948

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Please see attached Notice of Completion Report for Remediation # 5948

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: November 14, 2011 Date Site Investigation Completed: November 14, 2011 Date Remediation Plan Submitted: May 21, 2012
Remediation Start Date: July 12, 2012 Anticipated Completion Date: June 25, 2012 Actual Completion Date: June 25, 2012

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Karolina Blaney Signed: Karolina Blaney
Title: Environmental Specialist Date: 8/21/12

OGCC Approved: Chris Canfield Title: FOR Date: 08/23/2012
Chris Canfield
EPS NW Region

***WPX ENERGY ROCKY MOUNTAIN LLC
TRAIL RIDGE FIELD
NOTICE OF COMPLETION REPORT FOR
TR 43-32-597 MULTI WELL PIT
REMEDIATION # 5948***

Prepared For:



1058 County Road 215
P.O. Box 370
Parachute, Colorado 81635

Prepared By:



2385 F ½ Road
Grand Junction, CO 81505
Phone: 970-243-3271
Fax: 970-243-3280

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INTRODUCTION

The purpose of this Notice of Completion report – for the closure of the TR 43-32-597 Multi Well Pit (COGCC Facility ID number 324411; hereinafter referred to as TR 43-32-597) – is to provide detailed information and result analysis for the previously submitted and approved remediation number 5948, Colorado Oil and Gas Conservation Commission (COGCC) Site Investigation and Remediation Workplan, Form 27. This report will provide the documentation necessary to demonstrate a comprehensive and diligent investigation of the pit and adjacent environment which was obtained as described and in accordance with all appropriate county, state and federal rules and regulations.

The subject Form 27 was delivered via electronic email on May 21, 2012. Preliminary approval to proceed with closure of the subject pit was issued by the COGCC and obtained by WPX Energy Rocky Mountain, LLC (WPX) on May 21, 2012; at which time the aforementioned remediation number was issued. Closure activities began on November 14, 2011 and were concluded on June 25, 2012. Information included in this report includes but is not limited to; field screening results, laboratory analytical, subliner soil remediation, soil treatment, and liner recycling.

EVACUATION OF PIT CONTENTS

Produced water and free liquids were removed from the pit utilizing a vacuum truck. Once the liquids were removed from the pit the residual pit contents remaining on the liner were removed using a pressure washer. All pit fluids were transported to an approved disposal/evaporation facility located in the Piceance Basin area for further processing.

BACKGROUND SAMPLING

Three grab samples were collected from the uphill undisturbed hillsides surrounding the pad. All three samples were analyzed for arsenic, as well as an additional analysis at one location which included inorganic parameters listed in COGCC Table 910-1. Refer to Table 5 and Appendix 2 for background sampling results.

PIT LINER INVESTIGATION AND INTEGRITY ASSESSMENT

The pit liner system, which contained one layer of 30 mm poly synthetic material, was present within the pit upon pit liner investigation. The liner system revealed no large tears or rips. However, numerous small holes approximately 1 cm in diameter were observed on the liner bottom. The liner holes were documented and mapped accordingly in order to assess soil impacts upon liner removal. It was concluded from the initial pit liner investigation that the integrity of the liner had been compromised and soil impacts were probable. A Form 19 was submitted on November 23, 2011, at which time a spill/release tracking number was assigned (2221323).

PIT LINER REMOVAL

Once the pit liner was cleaned, the liner itself was removed from the pit. A track hoe was utilized to pull the liner off the ground surface and out of the pit. The liner material was moved to an earthen bermed containment cell where it was compacted, bailed and processed for transport to a recycling center.

SUBLINER INVESTIGATION AND ACTIVITIES

After the liner was removed, the pit sub-soils were evaluated for evidence of contamination. In doing so, the pit was divided into a conceptual grid pattern in order to represent a composite characterization of the pit as a whole by investigating individual grid nodes. For each node, soils were visually inspected for impacts and field screened using a MiniRae Lite Photoionizing Detection Unit (PID) and a PetroFlag Hydrocarbon Detection Unit (PetroFlag) in order to determine any areas of impact. In addition, special consideration was paid to areas where holes were observed through a more detailed investigation process utilizing both PID and PetroFlag field screening instruments. Figure 1 and Table 1 outlines the initial sub soil evaluation and field screening results.

FIGURE 1: INITIAL PID FIELD SCREENING RESULTS

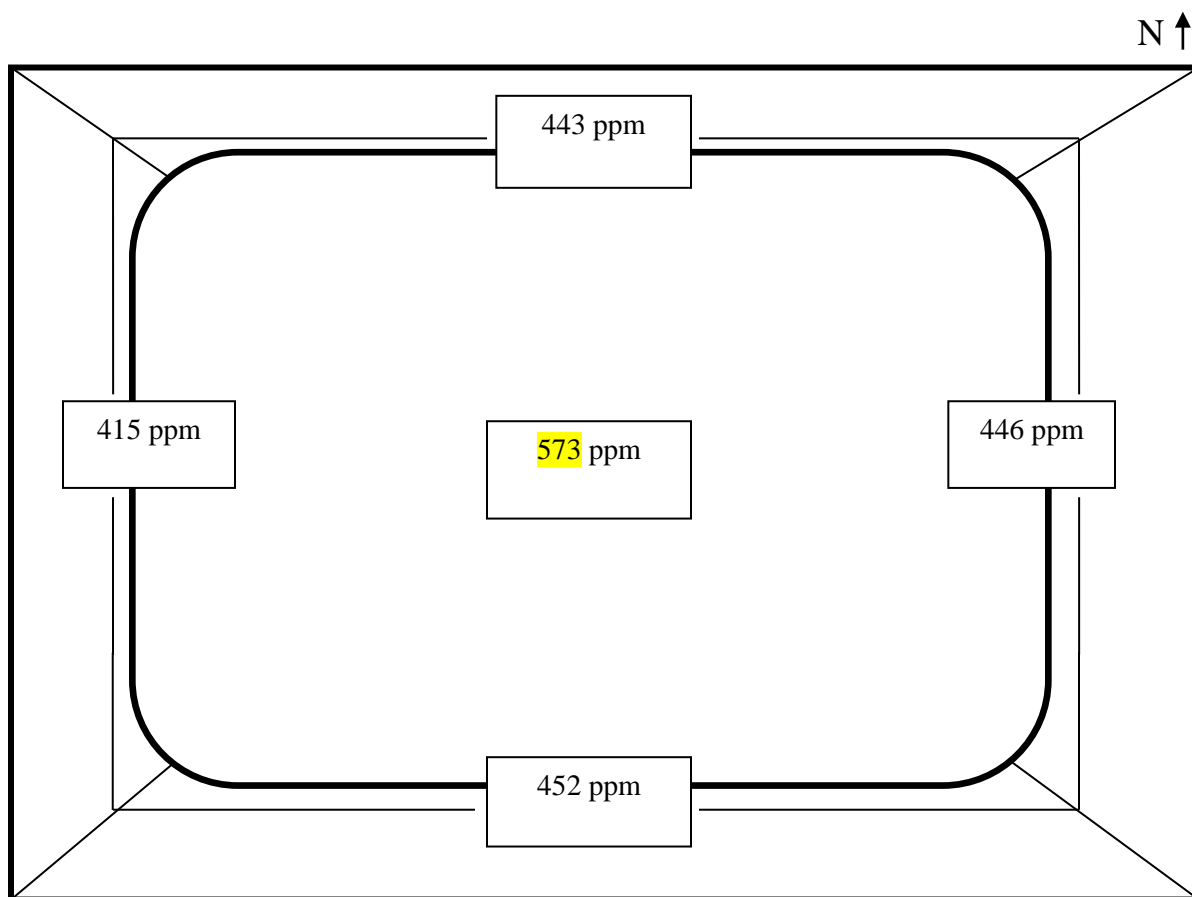


TABLE 1: INITIAL PETROFLAG[®] FIELD SCREENING RESULTS

Sample ID	Result (0-6'')
North Wall	306
South Wall	452
East Wall	484
West Wall	361
Pit Bottom	1921

Note: All results are in mg/kg
Highlighted numbers indicate areas that warranted additional inspection and analysis

Based on the results from the field screening provided in Table 1 and Figure 1, as well as visual observations, it was determined that the soil on the pit bottom contained hydrocarbon concentrations that exceeded constituents set forth in COGCC Table 910-1 standards and remediation was required.

REMEDIATION ACTIVITIES

Pit excavation began on November 14, 2011. Initially the pit was excavated to a depth of approximately one and a half (1.5) feet on the bottom and one (1) foot from each of the four side walls. A trackhoe was utilized to excavate the contaminated soil from the pit bottom and side walls. The excavated material was transferred to a bermed containment cell on the pad surface directly west of the pit pending bioremediation treatment.

After the initial excavation on November 14, 2011, it was decided to postpone further activity until spring due to winter weather and safety concerns. Excavations resumed on May 22, 2012. Field screens were taken prior to round 2 excavations with results still above the COGCC threshold. Another 2 feet of rocky soils were removed from the pit bottom and all 4 side walls of the excavation. A solid layer of sandstone was encountered on the pit bottom which halted excavation activities with the trackhoe. PID results indicated hydrocarbon levels still exceeded COGCC Table 910-1. Areas of staining were present on the

pit bottom and a moderate hydrocarbon odor was observed, indicating that additional excavation was required.

Additional pit excavation was conducted on May 22, 2012. An additional 3 feet of impacted material was removed from the pit bottom and 2 feet removed from the pit walls. At this depth no visual staining was present and no odor of hydrocarbons remained. The soils were very rocky and brown to light brown in color. Field screens were conducted utilizing both PID and Petroflag units with results indicating hydrocarbon concentrations below the 500 mg/kg threshold. Based on these results it was determined that impacted soils had been sufficiently removed at this depth, and no additional excavation was required. At this point, a total of 4 feet of impacted soil was removed from the pit bottom and 3 feet from the four pit walls. Again, the excavated soil was transferred to a bermed containment for further processing. Confirmation samples were collected and analyzed for COGCC Table 910-1 and hydrocarbon concentrations.

Confirmation samples were analyzed at ALS Environmental on June 6, 2012. Results indicated that hydrocarbon levels were still above the COGCC standards on the pit bottom. An additional 2 feet was excavated from the pit bottom and resampled for DRO, the only constituent exceeding. In total, approximately 4 feet of soil was removed from the pit bottom. At this depth no visual signs of impact were observed and field screen results were below the COGCC threshold. Confirmation samples were collected again from the bottom of the lab and submitted to the lab for analysis.

- Confirmation samples were collected in accordance with Rule 905.b. (4), from all four walls at a position that was centered vertically and horizontally. These samples were collected for confirmation of compliance of COGCC Rule 910 for hydrocarbon concentrations; as well as verification of field screening analysis. One (1) additional grab sample was collected from the base of the pit, which included the low point of the base, to demonstrate compliance in accordance with Rule 905.b.(1).
- A Trimble Geo XT 2011 was used to satisfy requirements as outlined in COGCC Rule 215 for collecting GPS locations of each confirmation sample location from the pit walls and pit bottom.
- Visual inspection of the pit bottoms, field screening techniques, and sampling procedures were followed in accordance with WPX Pit Closure Plan (COGCC document #01175818).

SAMPLE ANALYSIS

Sampling was performed in accordance with WPX Pit Closure Plan, Phase IV, Task 2. See attached Table 2 for summary of initial excavation analytical results.

BACKFILL MATERIAL

Material utilized to backfill the pit will be the original excavated soil from construction of the pit. The soil is currently stockpiled on location, directly north of the pit.

MANAGEMENT OF STOCKPILED MATERIAL

Excavated soils from within the pit was placed within a bermed containment cell and treated via bioremediation product and maintenance with water and mixed until hydrocarbon concentrations were below COGCC Table 910-1. Analytical results are presented in Table 5, with raw analytical results available in Appendix 3.

EXCEPTIONS TO COGCC TABLE 910-1

The only exceedances with COGCC Table 910-1 are within the inorganic and arsenic samples. Refer to the Sundry Notice for consideration of background inorganic and arsenic concentrations in the immediate area of the subject facility. Refer to Appendix 4 for submitted Sundry Notice.

ANALYTICAL DATA MANAGEMENT

Refer to Appendix 1 for the raw analytical analysis for samples collected along the pit bottom and side walls. Table 1 includes all analytical results of samples collected within the pit, highlighting areas exceeding COGCC Table 910-1 concentrations. Appendix 2 includes the background samples raw analytical results and Table 3 has all background analytical results. Appendix 3 contains raw analytical for the landfarm confirmation, with sample results provided in Table 5.

Facility Name: TR 43-32-597
Remediation: 5948
Facility ID: 324411

Name of Operator: WPX Energy Rocky Mountain, LLC
Latitude: 39.568589 Longitude -108.293951
Location (QtrQty, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6th PM

COGCC Operator # 96850
County: Garfield

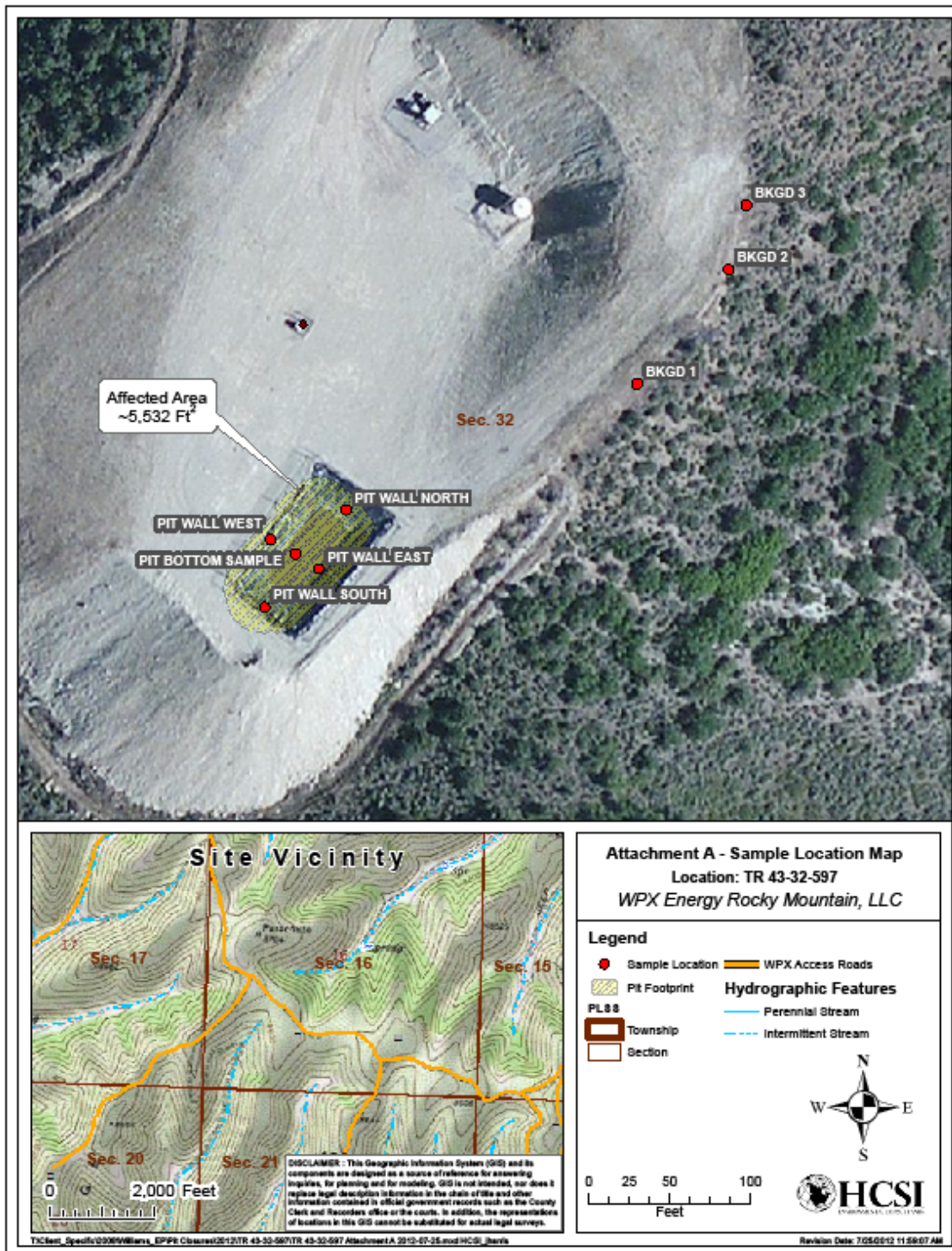
FIGURES

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FIGURE 2: GIS MAP OF SAMPLE LOCATIONS



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FIGURE 3:



Visual representation of the impacted soils on pit bottom and pit walls post excavation

Facility Name: TR 43-32-597
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FIGURE 4:



Visual representation of the soils on pit bottom and pit walls post excavation

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TABLES

Facility Name: TR 43-32-597
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COGCC Operator # 96850
County: Garfield

TABLE 2: EXCAVATION OF PIT BOTTOM AND SIDE WALL ANALYTICAL RESULTS

Pit Bottom and Walls	Sample Locations				
	North Wall	South Wall	East Wall	West Wall	Pit Bottom
TEPH (DRO)	22	240	47	ND	1,700
TVPH (GRO)	ND	ND	ND	ND	ND
BENZENE	ND	ND	ND	ND	ND
TOLUENE	0.160	ND	ND	ND	ND
ETHYLBENZENE	0.039	ND	ND	ND	ND
XYLENE TOTAL	0.460	ND	ND	ND	ND
ACENAPHTHENE	ND	ND	ND	ND	ND
ANTHRACENE	ND	ND	ND	ND	ND
BENZO(A)ANTHRACENE	ND	ND	ND	ND	ND
BENZO(A)PYRENE	ND	ND	ND	ND	ND
BENZO(B)FLUORANTHENE	ND	ND	ND	ND	ND
BENZO(G,H,I)PERYLEN	ND	ND	ND	ND	ND
BENZO(K)FLUORANTHENE	ND	ND	ND	ND	ND
CHRYSENE (mg/kg)	ND	ND	ND	ND	ND
DIBENZO(A,H)ANTHRACENE	ND	ND	ND	ND	ND
FLUORANTHENE	ND	ND	ND	ND	ND
FLUORENE	ND	ND	ND	ND	ND
INDENO(1,2,3-CD)PYRENE	ND	ND	ND	ND	ND
NAPHTHALENE	ND	ND	ND	ND	ND
PYRENE	ND	ND	ND	ND	ND
ARSENIC	-	-	-	-	9.9
BARIUM	-	-	-	-	610
CADMIUM	-	-	-	-	0.42
CHROMIUM	-	-	-	-	41
CHROMIUM (III)	-	-	-	-	41
CHROMIUM (IV)	-	-	-	-	ND
COPPER	-	-	-	-	25
LEAD	-	-	-	-	17
MERCURY	-	-	-	-	0.033
NICKEL	-	-	-	-	26
SELENIUM	-	-	-	-	ND
SILVER	-	-	-	-	ND
ZINC	-	-	-	-	52
ELECTRICAL CONDUCTIVITY (EC) (mmho/cm)	-	-	-	-	5.65
pH	-	-	-	-	8.34
SODIUM ADSORPTION RATIO (SAR)	-	-	-	-	77.1
CALCIUM (ppm)	-	-	-	-	226
MAGNESIUM (ppm)	-	-	-	-	39
SODIUM (ppm)	-	-	-	-	4782

Readings above state limits are highlighted in yellow Note: all results are in, mg/kg = milligram per kilogram, unless noted otherwise. (-) represents analysis not conducted.

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Facility ID: 324411

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Latitude: 39.568589 Longitude -108.293951
Location (QtrQty, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6th PM

COGCC Operator # 96850
County: Garfield

TABLE 3: ADDITIONAL PIT BOTTOM EXCAVATION

	Sample Location
	Pit Bottom @ 3ft
TEPH (DRO)	2,800
TVPH (GRO)	ND

TABLE 4: ADDITIONAL PIT BOTTOM EXCAVATION

	Sample Location
	Pit Bottom
TEPH (DRO)	38
TVPH (GRO)	ND

TABLE 5: BACKGROUND ANALYTICAL RESULTS

	Arsenic (mg/kg)	Conductivity(mmho/cm)	Ph (s.u.)	Sodium Adsorbion Ratio
BKGD 1	8.5	0.27	7.12	0.7
BKGD 2	9.7	-	-	-
BKGD 3	5.9	-	-	-

Readings above state limits are highlighted in yellow

Facility Name: TR 43-32-597
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COGCC Operator # 96850
 County: Garfield

Table 6: Landfarm Analytical Results

	Landfarm
TEPH (DRO)	150
TVPH (GRO)	ND
BENZENE	ND
TOLUENE	ND
ETHYLBENZENE	ND
XYLENE TOTAL	ND
ACENAPHTHENE	ND
ANTHRACENE	ND
BENZO(A)ANTHRACENE	ND
BENZO(A)PYRENE	ND
BENZO(B)FLUORANTHENE	ND
BENZO(G,H,I)PERYLENE	ND
BENZO(K)FLUORANTHENE	ND
CHRYSENE (mg/kg)	ND
DIBENZO(A,H)ANTHRACENE	ND
FLUORANTHENE	ND
FLUORENE	ND
INDENO(1,2,3-CD)PYRENE	ND
NAPHTHALENE	ND
PYRENE	ND
ARSENIC	7.4
BARIUM	640
CADMIUM	0.59
CHROMIUM	35
CHROMIUM (III)	35
CHROMIUM (IV)	ND
COPPER	22
LEAD	16
MERCURY	0.035
NICKEL	25
SELENIUM	ND
SILVER	ND
ZINC	53
ELECTRICAL CONDUCTIVITY (EC) (mmho/cm)	3.11
pH	9.31
SODIUM ADSORPTION RATIO (SAR)	79.6

Facility Name: TR 43-32-597
Remediation: 5948
Facility ID: 324411

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Location (QtrQty, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6th PM

COGCC Operator # 96850
County: Garfield

APPENDIXES

Facility Name: TR 43-32-597
Remediation: 5948
Facility ID: 324411

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Latitude: 39.568589 Longitude -108.293951
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COGCC Operator # 96850
County: Garfield

APPENDIX 1: PIT BOTTOM AND WALL SAMPLING RAW ANALYTICAL RESULTS



12-Jun-2012

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **WPX Energy TR 43-32 Pit 5/29/12**

Work Order: **1206022**

Dear Kris,

ALS Environmental received 8 samples on 01-Jun-2012 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 42.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Group A Campbell Brothers Limited Company

Environmental A small icon of the ALS Environmental logo, featuring a stylized flame inside a triangle.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Work Order: 1206022

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1206022-01	Pit Bottom	Soil		5/29/2012 12:00	6/1/2012 09:30	<input type="checkbox"/>
1206022-02	Pit Wall North	Soil		5/29/2012 12:05	6/1/2012 09:30	<input type="checkbox"/>
1206022-03	Pit Wall South	Soil		5/29/2012 12:10	6/1/2012 09:30	<input type="checkbox"/>
1206022-04	Pit Wall East	Soil		5/29/2012 12:15	6/1/2012 09:30	<input type="checkbox"/>
1206022-05	Pit Wall West	Soil		5/29/2012 12:20	6/1/2012 09:30	<input type="checkbox"/>
1206022-06	BKGD 1	Soil		5/29/2012 12:50	6/1/2012 09:30	<input type="checkbox"/>
1206022-07	BKGD 2	Soil		5/29/2012 12:55	6/1/2012 09:30	<input type="checkbox"/>
1206022-08	BKGD 3	Soil		5/29/2012 13:00	6/1/2012 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Work Order: 1206022

Case Narrative

Batch 41426 MS/MSD data for Metals is not related to this project's samples.

Batch 41428 sample Pit Wall North MSD recovery for m,p-Xylene was slightly below control limits. Both the MS recovery and RPD met quality control criteria. No data requires qualification.

Batch 41445 sample 1206022-01 BTEX analysis had a high surrogate recovery. The sample was ND for all BTEX compounds. No data requires qualification.

Batch 41454 sample 1206022-04 DRO analysis had a high surrogate recovery due to matrix interference. The DRO results may be biased high. Sample 1206022-05 DRO analysis had a high surrogate recovery due to matrix interference, but the DRO was ND. No data requires qualification for this sample.

Batch 41505 sample Pit Bottom MS/MSD recoveries for Hexavalent Chromium were below control limits. The corresponding reporting limit in the parent sample may be biased low.

Batch 41526 MS/MSD data for BTEX is not related to this project's samples.

Batch R105550 sample Pit Bottom MS/MSD recoveries for GRO were above control limits. The parent sample was ND for GRO. No data requires qualification.

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
WorkOrder: 1206022

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry as noted	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Sample ID: Pit Bottom
Collection Date: 5/29/2012 12:00 PM

Work Order: 1206022
Lab ID: 1206022-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	1,700		SW8015M		Prep Date: 6/5/2012	Analyst: CW
<i>Surr: 4-Terphenyl-d14</i>	<i>52.0</i>		5.0	mg/Kg-dry	1	6/7/2012 07:55 PM
			39-115	%REC	1	6/7/2012 07:55 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: JD
<i>Surr: Toluene-d8</i>	<i>102</i>		3.0	mg/Kg-dry	50	6/4/2012 06:34 PM
			50-150	%REC	50	6/4/2012 06:34 PM
MERCURY BY CVAA						
Mercury	0.033		SW7471		Prep Date: 6/4/2012	Analyst: RH
			0.021	mg/Kg-dry	1	6/4/2012 03:02 PM
METALS BY ICP-MS						
Arsenic	9.9		SW6020A		Prep Date: 6/4/2012	Analyst: RH
Barium	610		0.80	mg/Kg-dry	2	6/4/2012 05:14 PM
Cadmium	0.42		8.0	mg/Kg-dry	20	6/5/2012 10:38 AM
Chromium	41		0.32	mg/Kg-dry	2	6/4/2012 05:14 PM
Copper	25		0.80	mg/Kg-dry	2	6/4/2012 05:14 PM
Lead	17		0.80	mg/Kg-dry	2	6/4/2012 05:14 PM
Nickel	26		0.80	mg/Kg-dry	2	6/4/2012 05:14 PM
Selenium	ND		0.80	mg/Kg-dry	2	6/4/2012 05:14 PM
Silver	ND		0.80	mg/Kg-dry	2	6/4/2012 05:14 PM
Zinc	52		1.6	mg/Kg-dry	2	6/4/2012 05:14 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 6/6/12		SUBCONTRACT			Analyst: A&LGL
			as noted		1	6/6/2012
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 6/5/2012	Analyst: CW
Anthracene	ND		180	µg/Kg-dry	10	6/6/2012 10:31 PM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	6/6/2012 12:03 PM
Benzo(a)pyrene	ND		24	µg/Kg-dry	1	6/6/2012 12:03 PM
Benzo(b)fluoranthene	ND		24	µg/Kg-dry	1	6/6/2012 12:03 PM
Benzo(g,h,i)perylene	ND		24	µg/Kg-dry	1	6/6/2012 12:03 PM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	6/6/2012 12:03 PM
Chrysene	ND		36	µg/Kg-dry	1	6/6/2012 12:03 PM
Dibenzo(a,h)anthracene	ND		18	µg/Kg-dry	1	6/6/2012 12:03 PM
Fluoranthene	26		22	µg/Kg-dry	1	6/6/2012 12:03 PM
Fluorene	310		18	µg/Kg-dry	1	6/6/2012 12:03 PM
Indeno(1,2,3-cd)pyrene	ND		180	µg/Kg-dry	10	6/6/2012 10:31 PM
Naphthalene	ND		24	µg/Kg-dry	1	6/6/2012 12:03 PM
Pyrene	ND		18	µg/Kg-dry	1	6/6/2012 12:03 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>107</i>		18	µg/Kg-dry	1	6/6/2012 12:03 PM
			34-140	%REC	1	6/6/2012 12:03 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Sample ID: Pit Bottom
Collection Date: 5/29/2012 12:00 PM

Work Order: 1206022
Lab ID: 1206022-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	79.0		12-100	%REC	10	6/6/2012 10:31 PM
<i>Surr: 2-Fluorophenol</i>	82.0		33-117	%REC	1	6/6/2012 12:03 PM
<i>Surr: 4-Terphenyl-d14</i>	85.5		25-137	%REC	1	6/6/2012 12:03 PM
<i>Surr: Nitrobenzene-d5</i>	70.6		37-107	%REC	1	6/6/2012 12:03 PM
<i>Surr: Phenol-d6</i>	83.5		40-106	%REC	1	6/6/2012 12:03 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 6/4/2012	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	6/7/2012 12:22 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	6/7/2012 12:22 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	6/7/2012 12:22 PM
o-Xylene	ND		36	µg/Kg-dry	1	6/7/2012 12:22 PM
Toluene	ND		36	µg/Kg-dry	1	6/7/2012 12:22 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/7/2012 12:22 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	136	S	70-130	%REC	1	6/7/2012 12:22 PM
<i>Surr: 4-Bromofluorobenzene</i>	110		70-130	%REC	1	6/7/2012 12:22 PM
<i>Surr: Dibromofluoromethane</i>	116		70-130	%REC	1	6/7/2012 12:22 PM
<i>Surr: Toluene-d8</i>	117		70-130	%REC	1	6/7/2012 12:22 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	41			mg/L-dry	1	6/7/2012 01:30 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/6/2012	Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	6/7/2012 11:00 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	17		0.050	% of sample	1	6/1/2012 02:01 PM
PH			SW9045D			Analyst: EE
pH	8.34			s.u.	1	6/1/2012 08:50 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Sample ID: Pit Wall North
Collection Date: 5/29/2012 12:05 PM

Work Order: 1206022
Lab ID: 1206022-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/5/2012	Analyst: CW
DRO (C10-C28)	22		4.9	mg/Kg-dry	1	6/8/2012 08:42 PM
Surr: 4-Terphenyl-d14	62.6		39-115	%REC	1	6/8/2012 08:42 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: JD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/4/2012 06:59 PM
Surr: Toluene-d8	100		50-150	%REC	50	6/4/2012 06:59 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/5/2012	Analyst: CW
Acenaphthene	ND		18	µg/Kg-dry	1	6/6/2012 12:31 PM
Anthracene	ND		18	µg/Kg-dry	1	6/6/2012 12:31 PM
Benzo(a)anthracene	ND		24	µg/Kg-dry	1	6/6/2012 12:31 PM
Benzo(a)pyrene	ND		24	µg/Kg-dry	1	6/6/2012 12:31 PM
Benzo(b)fluoranthene	ND		24	µg/Kg-dry	1	6/6/2012 12:31 PM
Benzo(g,h,i)perylene	ND		35	µg/Kg-dry	1	6/6/2012 12:31 PM
Benzo(k)fluoranthene	ND		35	µg/Kg-dry	1	6/6/2012 12:31 PM
Chrysene	ND		18	µg/Kg-dry	1	6/6/2012 12:31 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	6/6/2012 12:31 PM
Fluoranthene	ND		18	µg/Kg-dry	1	6/6/2012 12:31 PM
Fluorene	ND		18	µg/Kg-dry	1	6/6/2012 12:31 PM
Indeno(1,2,3-cd)pyrene	ND		24	µg/Kg-dry	1	6/6/2012 12:31 PM
Naphthalene	ND		18	µg/Kg-dry	1	6/6/2012 12:31 PM
Pyrene	ND		18	µg/Kg-dry	1	6/6/2012 12:31 PM
Surr: 2,4,6-Tribromophenol	86.8		34-140	%REC	1	6/6/2012 12:31 PM
Surr: 2-Fluorobiphenyl	65.2		12-100	%REC	1	6/6/2012 12:31 PM
Surr: 2-Fluorophenol	78.1		33-117	%REC	1	6/6/2012 12:31 PM
Surr: 4-Terphenyl-d14	78.6		25-137	%REC	1	6/6/2012 12:31 PM
Surr: Nitrobenzene-d5	68.4		37-107	%REC	1	6/6/2012 12:31 PM
Surr: Phenol-d6	75.1		40-106	%REC	1	6/6/2012 12:31 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260		Prep Date: 6/4/2012	Analyst: RS
Benzene	ND		1.2	µg/Kg-dry	1	6/5/2012 09:21 AM
Ethylbenzene	39		2.4	µg/Kg-dry	1	6/5/2012 09:21 AM
m,p-Xylene	390		2.4	µg/Kg-dry	1	6/5/2012 09:21 AM
o-Xylene	64		1.2	µg/Kg-dry	1	6/5/2012 09:21 AM
Toluene	160		1.8	µg/Kg-dry	1	6/5/2012 09:21 AM
Xylenes, Total	460		3.6	µg/Kg-dry	1	6/5/2012 09:21 AM
Surr: 1,2-Dichloroethane-d4	126		70-130	%REC	1	6/5/2012 09:21 AM
Surr: 4-Bromofluorobenzene	114		70-130	%REC	1	6/5/2012 09:21 AM
Surr: Dibromofluoromethane	117		70-130	%REC	1	6/5/2012 09:21 AM
Surr: Toluene-d8	118		70-130	%REC	1	6/5/2012 09:21 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions

Project: WPX Energy TR 43-32 Pit 5/29/12

Sample ID: Pit Wall North

Collection Date: 5/29/2012 12:05 PM

Work Order: 1206022

Lab ID: 1206022-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G			Analyst: CG
Moisture	16		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Sample ID: Pit Wall South
Collection Date: 5/29/2012 12:10 PM

Work Order: 1206022
Lab ID: 1206022-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/5/2012	Analyst: CW
DRO (C10-C28)	240		4.8	mg/Kg-dry	1	6/7/2012 08:21 PM
Surr: 4-Terphenyl-d14	62.1		39-115	%REC	1	6/7/2012 08:21 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: JD
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	6/4/2012 07:23 PM
Surr: Toluene-d8	99.7		50-150	%REC	50	6/4/2012 07:23 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/5/2012	Analyst: CW
Acenaphthene	ND		17	µg/Kg-dry	1	6/6/2012 01:00 AM
Anthracene	ND		17	µg/Kg-dry	1	6/6/2012 01:00 AM
Benzo(a)anthracene	ND		23	µg/Kg-dry	1	6/6/2012 01:00 AM
Benzo(a)pyrene	ND		23	µg/Kg-dry	1	6/6/2012 01:00 AM
Benzo(b)fluoranthene	ND		23	µg/Kg-dry	1	6/6/2012 01:00 AM
Benzo(g,h,i)perylene	ND		35	µg/Kg-dry	1	6/6/2012 01:00 AM
Benzo(k)fluoranthene	ND		35	µg/Kg-dry	1	6/6/2012 01:00 AM
Chrysene	ND		17	µg/Kg-dry	1	6/6/2012 01:00 AM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	6/6/2012 01:00 AM
Fluoranthene	ND		17	µg/Kg-dry	1	6/6/2012 01:00 AM
Fluorene	ND		17	µg/Kg-dry	1	6/6/2012 01:00 AM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	6/6/2012 01:00 AM
Naphthalene	ND		17	µg/Kg-dry	1	6/6/2012 01:00 AM
Pyrene	ND		17	µg/Kg-dry	1	6/6/2012 01:00 AM
Surr: 2,4,6-Tribromophenol	94.2		34-140	%REC	1	6/6/2012 01:00 AM
Surr: 2-Fluorobiphenyl	64.9		12-100	%REC	1	6/6/2012 01:00 AM
Surr: 2-Fluorophenol	75.5		33-117	%REC	1	6/6/2012 01:00 AM
Surr: 4-Terphenyl-d14	82.7		25-137	%REC	1	6/6/2012 01:00 AM
Surr: Nitrobenzene-d5	65.6		37-107	%REC	1	6/6/2012 01:00 AM
Surr: Phenol-d6	74.6		40-106	%REC	1	6/6/2012 01:00 AM
VOLATILE ORGANIC COMPOUNDS						
			SW8260		Prep Date: 6/4/2012	Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	6/6/2012 11:58 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	6/6/2012 11:58 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	6/6/2012 11:58 PM
o-Xylene	ND		35	µg/Kg-dry	1	6/6/2012 11:58 PM
Toluene	ND		35	µg/Kg-dry	1	6/6/2012 11:58 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	6/6/2012 11:58 PM
Surr: 1,2-Dichloroethane-d4	126		70-130	%REC	1	6/6/2012 11:58 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/6/2012 11:58 PM
Surr: Dibromofluoromethane	105		70-130	%REC	1	6/6/2012 11:58 PM
Surr: Toluene-d8	110		70-130	%REC	1	6/6/2012 11:58 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions

Project: WPX Energy TR 43-32 Pit 5/29/12

Sample ID: Pit Wall South

Collection Date: 5/29/2012 12:10 PM

Work Order: 1206022

Lab ID: 1206022-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G			Analyst: CG
Moisture	14		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Sample ID: Pit Wall East
Collection Date: 5/29/2012 12:15 PM

Work Order: 1206022
Lab ID: 1206022-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	47		SW8015M		Prep Date: 6/5/2012	Analyst: CW
			5.1	mg/Kg-dry	1	6/8/2012 08:42 PM
Surr: 4-Terphenyl-d14	165	S	39-115	%REC	1	6/8/2012 08:42 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: JD
			3.0	mg/Kg-dry	50	6/4/2012 08:06 PM
Surr: Toluene-d8	105		50-150	%REC	50	6/4/2012 08:06 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/5/2012	Analyst: CW
Acenaphthene	ND		18	µg/Kg-dry	1	6/6/2012 01:29 AM
Anthracene	ND		18	µg/Kg-dry	1	6/6/2012 01:29 AM
Benzo(a)anthracene	ND		24	µg/Kg-dry	1	6/6/2012 01:29 AM
Benzo(a)pyrene	ND		24	µg/Kg-dry	1	6/6/2012 01:29 AM
Benzo(b)fluoranthene	ND		24	µg/Kg-dry	1	6/6/2012 01:29 AM
Benzo(g,h,i)perylene	ND		36	µg/Kg-dry	1	6/6/2012 01:29 AM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	6/6/2012 01:29 AM
Chrysene	ND		18	µg/Kg-dry	1	6/6/2012 01:29 AM
Dibenzo(a,h)anthracene	ND		22	µg/Kg-dry	1	6/6/2012 01:29 AM
Fluoranthene	ND		18	µg/Kg-dry	1	6/6/2012 01:29 AM
Fluorene	ND		18	µg/Kg-dry	1	6/6/2012 01:29 AM
Indeno(1,2,3-cd)pyrene	ND		24	µg/Kg-dry	1	6/6/2012 01:29 AM
Naphthalene	ND		18	µg/Kg-dry	1	6/6/2012 01:29 AM
Pyrene	ND		18	µg/Kg-dry	1	6/6/2012 01:29 AM
Surr: 2,4,6-Tribromophenol	92.6		34-140	%REC	1	6/6/2012 01:29 AM
Surr: 2-Fluorobiphenyl	64.9		12-100	%REC	1	6/6/2012 01:29 AM
Surr: 2-Fluorophenol	76.8		33-117	%REC	1	6/6/2012 01:29 AM
Surr: 4-Terphenyl-d14	84.9		25-137	%REC	1	6/6/2012 01:29 AM
Surr: Nitrobenzene-d5	66.7		37-107	%REC	1	6/6/2012 01:29 AM
Surr: Phenol-d6	75.2		40-106	%REC	1	6/6/2012 01:29 AM
VOLATILE ORGANIC COMPOUNDS						
			SW8260		Prep Date: 6/4/2012	Analyst: AK
Benzene	ND		37	µg/Kg-dry	1	6/6/2012 11:34 PM
Ethylbenzene	ND		37	µg/Kg-dry	1	6/6/2012 11:34 PM
m,p-Xylene	ND		73	µg/Kg-dry	1	6/6/2012 11:34 PM
o-Xylene	ND		37	µg/Kg-dry	1	6/6/2012 11:34 PM
Toluene	ND		37	µg/Kg-dry	1	6/6/2012 11:34 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/6/2012 11:34 PM
Surr: 1,2-Dichloroethane-d4	122		70-130	%REC	1	6/6/2012 11:34 PM
Surr: 4-Bromofluorobenzene	98.0		70-130	%REC	1	6/6/2012 11:34 PM
Surr: Dibromofluoromethane	103		70-130	%REC	1	6/6/2012 11:34 PM
Surr: Toluene-d8	108		70-130	%REC	1	6/6/2012 11:34 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions

Project: WPX Energy TR 43-32 Pit 5/29/12

Sample ID: Pit Wall East

Collection Date: 5/29/2012 12:15 PM

Work Order: 1206022

Lab ID: 1206022-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G			Analyst: CG
Moisture	18		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions
Project: WPX Energy TR 43-32 Pit 5/29/12
Sample ID: Pit Wall West
Collection Date: 5/29/2012 12:20 PM

Work Order: 1206022
Lab ID: 1206022-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 6/5/2012	Analyst: CW
DRO (C10-C28)	ND		4.9	mg/Kg-dry	1	6/7/2012 08:47 PM
Surr: 4-Terphenyl-d14	130	S	39-115	%REC	1	6/7/2012 08:47 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: JD
GRO (C6-C10)	ND		3.0	mg/Kg-dry	50	6/4/2012 08:31 PM
Surr: Toluene-d8	101		50-150	%REC	50	6/4/2012 08:31 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 6/5/2012	Analyst: CW
Acenaphthene	ND		18	µg/Kg-dry	1	6/6/2012 01:58 AM
Anthracene	ND		18	µg/Kg-dry	1	6/6/2012 01:58 AM
Benzo(a)anthracene	ND		24	µg/Kg-dry	1	6/6/2012 01:58 AM
Benzo(a)pyrene	ND		24	µg/Kg-dry	1	6/6/2012 01:58 AM
Benzo(b)fluoranthene	ND		24	µg/Kg-dry	1	6/6/2012 01:58 AM
Benzo(g,h,i)perylene	ND		35	µg/Kg-dry	1	6/6/2012 01:58 AM
Benzo(k)fluoranthene	ND		35	µg/Kg-dry	1	6/6/2012 01:58 AM
Chrysene	ND		18	µg/Kg-dry	1	6/6/2012 01:58 AM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	6/6/2012 01:58 AM
Fluoranthene	ND		18	µg/Kg-dry	1	6/6/2012 01:58 AM
Fluorene	ND		18	µg/Kg-dry	1	6/6/2012 01:58 AM
Indeno(1,2,3-cd)pyrene	ND		24	µg/Kg-dry	1	6/6/2012 01:58 AM
Naphthalene	ND		18	µg/Kg-dry	1	6/6/2012 01:58 AM
Pyrene	ND		18	µg/Kg-dry	1	6/6/2012 01:58 AM
Surr: 2,4,6-Tribromophenol	93.1		34-140	%REC	1	6/6/2012 01:58 AM
Surr: 2-Fluorobiphenyl	56.9		12-100	%REC	1	6/6/2012 01:58 AM
Surr: 2-Fluorophenol	63.2		33-117	%REC	1	6/6/2012 01:58 AM
Surr: 4-Terphenyl-d14	83.8		25-137	%REC	1	6/6/2012 01:58 AM
Surr: Nitrobenzene-d5	54.6		37-107	%REC	1	6/6/2012 01:58 AM
Surr: Phenol-d6	64.7		40-106	%REC	1	6/6/2012 01:58 AM
VOLATILE ORGANIC COMPOUNDS						
			SW8260		Prep Date: 6/8/2012	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	6/8/2012 09:05 PM
Ethylbenzene	ND		36	µg/Kg-dry	1	6/8/2012 09:05 PM
m,p-Xylene	ND		72	µg/Kg-dry	1	6/8/2012 09:05 PM
o-Xylene	ND		36	µg/Kg-dry	1	6/8/2012 09:05 PM
Toluene	ND		36	µg/Kg-dry	1	6/8/2012 09:05 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	6/8/2012 09:05 PM
Surr: 1,2-Dichloroethane-d4	109		70-130	%REC	1	6/8/2012 09:05 PM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	6/8/2012 09:05 PM
Surr: Dibromofluoromethane	103		70-130	%REC	1	6/8/2012 09:05 PM
Surr: Toluene-d8	104		70-130	%REC	1	6/8/2012 09:05 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions

Project: WPX Energy TR 43-32 Pit 5/29/12

Work Order: 1206022

Sample ID: Pit Wall West

Lab ID: 1206022-05

Collection Date: 5/29/2012 12:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE			A2540 G			Analyst: CG
Moisture	17		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 12-Jun-12**Client:** HRL Compliance Solutions**Project:** WPX Energy TR 43-32 Pit 5/29/12**Work Order:** 1206022**Sample ID:** BKGD 1**Lab ID:** 1206022-06**Collection Date:** 5/29/2012 12:50 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/4/2012	Analyst: RH
Arsenic	8.5		0.84	mg/Kg-dry	2	6/4/2012 05:19 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/6/12			as noted	1	6/6/2012
MOISTURE			A2540 G			Analyst: CG
Moisture	3.1		0.050	% of sample	1	6/1/2012 02:01 PM
PH			SW9045D			Analyst: EE
pH	7.12			s.u.	1	6/1/2012 08:50 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 12-Jun-12**Client:** HRL Compliance Solutions**Project:** WPX Energy TR 43-32 Pit 5/29/12**Work Order:** 1206022**Sample ID:** BKGD 2**Lab ID:** 1206022-07**Collection Date:** 5/29/2012 12:55 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/4/2012	Analyst: RH
Arsenic	9.7		0.80	mg/Kg-dry	2	6/4/2012 05:24 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	6.5		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions

Project: WPX Energy TR 43-32 Pit 5/29/12

Sample ID: BKGD 3

Collection Date: 5/29/2012 01:00 PM

Work Order: 1206022

Lab ID: 1206022-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/4/2012	Analyst: RH
Arsenic	5.9		0.81	mg/Kg-dry	2	6/4/2012 05:29 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	5.6		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Report Number: F12156-0152

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: 1206022-01C & 06B

DATE RECEIVED: 06/04/2012

DATE REPORTED: 06/06/2012

PAGE: 1

P.O. NUMBER: 20-1206022

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
13159	PIT BOTTOM	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	5.65	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	226	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	39	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	4782	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	77.1	-	USDA Handbook 60
13160	BKGD 1	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	0.27	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	40	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	10	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	18	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	0.7	-	USDA Handbook 60

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1206022

Project: WPX Energy TR 43-32 Pit 5/29/12

Batch ID: 41454

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-41454-41454				Units: mg/Kg		Analysis Date: 6/8/2012 06:59 PM		
Client ID:		Run ID: GC8_120608A				SeqNo: 1994651		Prep Date: 6/5/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.042	0	1.667	0	62.6	39-115	0			

LCS		Sample ID: DLCSS1-41454-41454				Units: mg/Kg		Analysis Date: 6/11/2012 09:46 AM		
Client ID:		Run ID: GC8_120611A				SeqNo: 1995028		Prep Date: 6/5/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	122.2	4.2	166.7	0	73.3	60-130	0			
Surr: 4-Terphenyl-d14	1.253	0	1.667	0	75.2	39-115	0			

MS		Sample ID: 1206021-07B MS				Units: mg/Kg		Analysis Date: 6/7/2012 04:54 PM		
Client ID:		Run ID: GC8_120607A				SeqNo: 1994657		Prep Date: 6/5/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	236.4	7.9	316.3	0	74.7	60-130	0			
Surr: 4-Terphenyl-d14	2.615	0	3.163	0	82.6	39-115	0			

MSD		Sample ID: 1206021-07B MSD				Units: mg/Kg		Analysis Date: 6/8/2012 06:59 PM		
Client ID:		Run ID: GC8_120608A				SeqNo: 1994655		Prep Date: 6/5/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	268.5	8.0	320.2	0	83.8	60-130	236.4	12.7	30	
Surr: 4-Terphenyl-d14	3.225	0	3.202	0	101	39-115	2.615	20.9	30	

The following samples were analyzed in this batch:

1206022-01B	1206022-02B	1206022-03B
1206022-04B	1206022-05B	

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **R105550** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: MB-R105550-R105550				Units: µg/L		Analysis Date: 6/4/2012 04:03 PM		
Client ID:		Run ID: GC10_120604A				SeqNo: 1990673		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>103.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-R105550-R105550				Units: µg/L		Analysis Date: 6/4/2012 05:18 PM		
Client ID:		Run ID: GC10_120604A				SeqNo: 1990674		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	25750	200	25000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	<i>87.92</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>87.9</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1206022-01A MS				Units: µg/Kg		Analysis Date: 6/5/2012 07:21 AM		
Client ID: Pit Bottom		Run ID: GC10_120604A				SeqNo: 1991791		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1705000	2,500	1250000	0	136	70-130	0			S
<i>Surr: Toluene-d8</i>	<i>4562</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>91.2</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1206022-01A MSD				Units: µg/Kg		Analysis Date: 6/5/2012 07:46 AM		
Client ID: Pit Bottom		Run ID: GC10_120604A				SeqNo: 1991792		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1651000	2,500	1250000	0	132	70-130	1705000	3.18	30	S
<i>Surr: Toluene-d8</i>	<i>4977</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>99.5</i>	<i>50-150</i>	<i>4562</i>	<i>8.69</i>	<i>30</i>	

The following samples were analyzed in this batch:

1206022-01A	1206022-02A	1206022-03A
1206022-04A	1206022-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41429** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-41429-41429				Units: mg/Kg		Analysis Date: 6/4/2012 02:51 PM		
Client ID:		Run ID: HG1_120604A				SeqNo: 1990356		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.001167	0.020								J

LCS		Sample ID: LCS-41429-41429				Units: mg/Kg		Analysis Date: 6/4/2012 02:53 PM		
Client ID:		Run ID: HG1_120604A				SeqNo: 1990357		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1914	0.020	0.1665		0	115	80-120	0		

MS		Sample ID: 1206060-06AMS				Units: mg/Kg		Analysis Date: 6/4/2012 03:29 PM		
Client ID:		Run ID: HG1_120604A				SeqNo: 1990549		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1513	0.018	0.1523	0.006561	95	75-125		0		

MSD		Sample ID: 1206060-06AMSD				Units: mg/Kg		Analysis Date: 6/4/2012 03:31 PM		
Client ID:		Run ID: HG1_120604A				SeqNo: 1990550		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1753	0.020	0.1635	0.006561	103	75-125	0.1513	14.7	35	

The following samples were analyzed in this batch:

1206022-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41426** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-41426-41426				Units: mg/Kg		Analysis Date: 6/4/2012 02:22 PM		
Client ID:		Run ID: ICPMS2_120604A				SeqNo: 1990339		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	0.001137	0.10								J
Chromium	0.008145	0.25								J
Copper	0.02415	0.25								J
Lead	ND	0.25								
Nickel	0.008085	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-41426-41426				Units: mg/Kg		Analysis Date: 6/4/2012 02:27 PM		
Client ID:		Run ID: ICPMS2_120604A				SeqNo: 1990342		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.5	0.25	5	0	90	80-120	0			
Barium	4.51	0.25	5	0	90.2	80-120	0			
Cadmium	4.646	0.10	5	0	92.9	80-120	0			
Chromium	4.816	0.25	5	0	96.3	80-120	0			
Copper	4.612	0.25	5	0	92.2	80-120	0			
Lead	4.596	0.25	5	0	91.9	80-120	0			
Nickel	4.645	0.25	5	0	92.9	80-120	0			
Selenium	4.196	0.25	5	0	83.9	80-120	0			
Silver	4.238	0.25	5	0	84.8	80-120	0			
Zinc	4.285	0.50	5	0	85.7	80-120	0			

MS		Sample ID: 1205906-01AMS				Units: mg/Kg		Analysis Date: 6/4/2012 03:03 PM		
Client ID:		Run ID: ICPMS2_120604A				SeqNo: 1990354		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8	0.33	6.667	0.01419	120	80-120	0			
Barium	6.306	0.33	6.667	0.4442	87.9	80-120	0			
Cadmium	5.771	0.13	6.667	0.002421	86.5	80-120	0			
Lead	5.828	0.33	6.667	0.002955	87.4	80-120	0			
Silver	4.525	0.33	6.667	0.0006022	67.9	80-120	0			S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41426** Instrument ID **ICPMS2** Method: **SW6020A**

MSD		Sample ID: 1205906-01AMSD				Units: mg/Kg		Analysis Date: 6/4/2012 03:07 PM		
Client ID:		Run ID: ICPMS2_120604A				SeqNo: 1990355		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.865	0.35	7.022	0.01419	112	80-120	8	1.7	25	
Barium	6.268	0.35	7.022	0.4442	82.9	80-120	6.306	0.612	25	
Cadmium	5.795	0.14	7.022	0.002421	82.5	80-120	5.771	0.408	25	
Lead	5.824	0.35	7.022	0.002955	82.9	80-120	5.828	0.0611	25	
Silver	4.551	0.35	7.022	0.0006022	64.8	80-120	4.525	0.586	25	S

The following samples were analyzed in this batch:

1206022-01B	1206022-06A	1206022-07A
1206022-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41453** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKS1-41453-41453				Units: µg/Kg		Analysis Date: 6/5/2012 06:43 PM		
Client ID:		Run ID: SVMS7_120605A				SeqNo: 1991873		Prep Date: 6/5/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2,4,6-Tribromophenol	738.7	0	1667	0	44.3	34-140		0		
Surr: 2-Fluorobiphenyl	1138	0	1667	0	68.3	12-100		0		
Surr: 2-Fluorophenol	1048	0	1667	0	62.9	33-117		0		
Surr: 4-Terphenyl-d14	1224	0	1667	0	73.4	25-137		0		
Surr: Nitrobenzene-d5	1199	0	1667	0	71.9	37-107		0		
Surr: Phenol-d6	1232	0	1667	0	73.9	40-106		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41453** Instrument ID **SVMS7** Method: **SW8270**

LCS		Sample ID: SLCSS1-41453-41453				Units: µg/Kg		Analysis Date: 6/5/2012 07:12 PM		
Client ID:		Run ID: SVMS7_120605A				SeqNo: 1991874		Prep Date: 6/5/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	599	30	666.7	0	89.8	45-110	0			
Anthracene	634.7	30	666.7	0	95.2	55-105	0			
Benzo(a)anthracene	630.7	30	666.7	0	94.6	50-110	0			
Benzo(a)pyrene	618.7	30	666.7	0	92.8	50-110	0			
Benzo(b)fluoranthene	670.3	30	666.7	0	101	45-115	0			
Benzo(g,h,i)perylene	692	30	666.7	0	104	40-125	0			
Benzo(k)fluoranthene	624.3	30	666.7	0	93.6	45-115	0			
Chrysene	629	30	666.7	0	94.3	55-110	0			
Dibenzo(a,h)anthracene	644	30	666.7	0	96.6	40-125	0			
Fluoranthene	674.3	30	666.7	0	101	55-115	0			
Fluorene	604	30	666.7	0	90.6	50-110	0			
Indeno(1,2,3-cd)pyrene	650.7	30	666.7	0	97.6	40-120	0			
Naphthalene	563	30	666.7	0	84.4	40-105	0			
Pyrene	633.3	30	666.7	0	95	45-125	0			
Surr: 2,4,6-Tribromophenol	1430	0	1667	0	85.8	34-140	0			
Surr: 2-Fluorobiphenyl	1230	0	1667	0	73.8	12-100	0			
Surr: 2-Fluorophenol	1384	0	1667	0	83.1	33-117	0			
Surr: 4-Terphenyl-d14	1286	0	1667	0	77.2	25-137	0			
Surr: Nitrobenzene-d5	1318	0	1667	0	79.1	37-107	0			
Surr: Phenol-d6	1335	0	1667	0	80.1	40-106	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41453** Instrument ID **SVMS7** Method: **SW8270**

MS				Sample ID: 1206021-07B MS			Units: µg/Kg		Analysis Date: 6/5/2012 07:41 PM	
Client ID:				Run ID: SVMS7_120605A			SeqNo: 1991875		Prep Date: 6/5/2012	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1028	60	1327	0	77.4	45-110	0			
Anthracene	1229	60	1327	0	92.6	55-105	0			
Benzo(a)anthracene	1195	60	1327	17.91	88.6	50-110	0			
Benzo(a)pyrene	1192	60	1327	24.09	88	50-110	0			
Benzo(b)fluoranthene	1185	60	1327	0	89.3	45-115	0			
Benzo(g,h,i)perylene	1349	60	1327	0	102	40-125	0			
Benzo(k)fluoranthene	1284	60	1327	0	96.7	45-115	0			
Chrysene	1240	60	1327	16.61	92.1	55-110	0			
Dibenzo(a,h)anthracene	1230	60	1327	0	92.7	40-125	0			
Fluoranthene	1291	60	1327	24.75	95.4	55-115	0			
Fluorene	1123	60	1327	0	84.6	50-110	0			
Indeno(1,2,3-cd)pyrene	1249	60	1327	0	94.1	40-120	0			
Naphthalene	961.6	60	1327	0	72.4	40-105	0			
Pyrene	1205	60	1327	20.19	89.3	45-125	0			
Surr: 2,4,6-Tribromophenol	1715	0	3318	0	51.7	34-140	0			
Surr: 2-Fluorobiphenyl	2229	0	3318	0	67.2	12-100	0			
Surr: 2-Fluorophenol	2466	0	3318	0	74.3	33-117	0			
Surr: 4-Terphenyl-d14	2462	0	3318	0	74.2	25-137	0			
Surr: Nitrobenzene-d5	2286	0	3318	0	68.9	37-107	0			
Surr: Phenol-d6	2410	0	3318	0	72.6	40-106	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41453** Instrument ID **SVMS7** Method: **SW8270**

MSD				Sample ID: 1206021-07B MSD			Units: µg/Kg		Analysis Date: 6/5/2012 08:10 PM	
Client ID:				Run ID: SVMS7_120605A			SeqNo: 1991876		Prep Date: 6/5/2012	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1094	59	1308	0	83.6	45-110	1028	6.23	30	
Anthracene	1243	59	1308	0	95	55-105	1229	1.09	30	
Benzo(a)anthracene	1235	59	1308	17.91	93	50-110	1195	3.3	30	
Benzo(a)pyrene	1218	59	1308	24.09	91.3	50-110	1192	2.19	30	
Benzo(b)fluoranthene	1299	59	1308	0	99.3	45-115	1185	9.14	30	
Benzo(g,h,i)perylene	1380	59	1308	0	105	40-125	1349	2.25	30	
Benzo(k)fluoranthene	1216	59	1308	0	93	45-115	1284	5.42	30	
Chrysene	1251	59	1308	16.61	94.4	55-110	1240	0.911	30	
Dibenzo(a,h)anthracene	1262	59	1308	0	96.5	40-125	1230	2.55	30	
Fluoranthene	1294	59	1308	24.75	97	55-115	1291	0.213	30	
Fluorene	1139	59	1308	0	87.1	50-110	1123	1.44	30	
Indeno(1,2,3-cd)pyrene	1284	59	1308	0	98.2	40-120	1249	2.8	30	
Naphthalene	1066	59	1308	0	81.5	40-105	961.6	10.3	30	
Pyrene	1235	59	1308	20.19	92.9	45-125	1205	2.47	30	
Surr: 2,4,6-Tribromophenol	2526	0	3270	0	77.2	34-140	1715	38.2	40	
Surr: 2-Fluorobiphenyl	2377	0	3270	0	72.7	12-100	2229	6.43	40	
Surr: 2-Fluorophenol	2740	0	3270	0	83.8	33-117	2466	10.5	40	
Surr: 4-Terphenyl-d14	2473	0	3270	0	75.6	25-137	2462	0.453	40	
Surr: Nitrobenzene-d5	2516	0	3270	0	76.9	37-107	2286	9.56	40	
Surr: Phenol-d6	2633	0	3270	0	80.5	40-106	2410	8.82	40	

The following samples were analyzed in this batch:

1206022-01B	1206022-02B	1206022-03B
1206022-04B	1206022-05B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41428** Instrument ID **VMS7** Method: **SW8260**

MBLK Sample ID: MBLK-41428-41428				Units: µg/Kg		Analysis Date: 6/4/2012 01:05 PM				
Client ID:		Run ID: VMS7_120604A		SeqNo: 1990295		Prep Date: 6/4/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1010	0	1000	0	101	70-120	0			
Surr: 4-Bromofluorobenzene	906.5	0	1000	0	90.6	75-120	0			
Surr: Dibromofluoromethane	937.5	0	1000	0	93.8	85-115	0			
Surr: Toluene-d8	854.5	0	1000	0	85.4	85-120	0			

LCS Sample ID: LCS-41428-41428				Units: µg/Kg		Analysis Date: 6/4/2012 12:15 PM				
Client ID:		Run ID: VMS7_120604A		SeqNo: 1990208		Prep Date: 6/4/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2219	60	2000	0	111	75-125	0			
Ethylbenzene	2266	60	2000	0	113	75-125	0			
m,p-Xylene	4552	120	4000	0	114	80-125	0			
o-Xylene	2249	60	2000	0	112	75-125	0			
Toluene	2194	60	2000	0	110	70-125	0			
Xylenes, Total	6801	180	6000	0	113	75-125	0			
Surr: 1,2-Dichloroethane-d4	2206	0	2000	0	110	70-120	0			
Surr: 4-Bromofluorobenzene	2077	0	2000	0	104	75-120	0			
Surr: Dibromofluoromethane	2176	0	2000	0	109	85-115	0			
Surr: Toluene-d8	2039	0	2000	0	102	85-120	0			

MS Sample ID: 1206022-02A MS				Units: µg/Kg		Analysis Date: 6/5/2012 01:18 PM				
Client ID: Pit Wall North		Run ID: VMS8_120604B		SeqNo: 1991506		Prep Date: 6/4/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1753	60	2000	0	87.6	75-125	0			
Ethylbenzene	1751	60	2000	32.5	85.9	75-125	0			
m,p-Xylene	3618	120	4000	330.5	82.2	80-125	0			
o-Xylene	1760	60	2000	54	85.3	75-125	0			
Toluene	1847	60	2000	135.5	85.6	70-125	0			
Xylenes, Total	5378	180	6000	384.5	83.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	1618	0	2000	0	80.9	70-130	0			
Surr: 4-Bromofluorobenzene	1457	0	2000	0	72.8	70-130	0			
Surr: Dibromofluoromethane	1510	0	2000	0	75.5	70-130	0			
Surr: Toluene-d8	1488	0	2000	0	74.4	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41428** Instrument ID **VMS7** Method: **SW8260**

MSD				Sample ID: 1206022-02A MSD			Units: µg/Kg		Analysis Date: 6/5/2012 01:44 PM	
Client ID: Pit Wall North				Run ID: VMS8_120604B			SeqNo: 1991507		Prep Date: 6/4/2012	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1725	60	2000	0	86.2	75-125	1753	1.61	30	
Ethylbenzene	1716	60	2000	32.5	84.2	75-125	1751	2.02	30	
m,p-Xylene	3516	120	4000	330.5	79.6	80-125	3618	2.86	30	S
o-Xylene	1731	60	2000	54	83.8	75-125	1760	1.66	30	
Toluene	1799	60	2000	135.5	83.2	70-125	1847	2.63	30	
Xylenes, Total	5247	180	6000	384.5	81	75-125	5378	2.47	30	
Surr: 1,2-Dichloroethane-d4	1572	0	2000	0	78.6	70-130	1618	2.88	30	
Surr: 4-Bromofluorobenzene	1431	0	2000	0	71.6	70-130	1457	1.8	30	
Surr: Dibromofluoromethane	1514	0	2000	0	75.7	70-130	1510	0.265	30	
Surr: Toluene-d8	1450	0	2000	0	72.5	70-130	1488	2.59	30	

The following samples were analyzed in this batch: | 1206022-02A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41445** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: MBLK-41445-41445				Units: µg/Kg		Analysis Date: 6/5/2012 11:15 AM		
Client ID:		Run ID: VMS7_120605A				SeqNo: 1992157		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	954	0	1000	0	95.4	70-130	0			
Surr: 4-Bromofluorobenzene	857	0	1000	0	85.7	70-130	0			
Surr: Dibromofluoromethane	888	0	1000	0	88.8	70-130	0			
Surr: Toluene-d8	817	0	1000	0	81.7	70-130	0			

LCS		Sample ID: LCS-41445-41445				Units: µg/Kg		Analysis Date: 6/5/2012 09:59 AM		
Client ID:		Run ID: VMS7_120605A				SeqNo: 1991214		Prep Date: 6/4/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1873	60	2000	0	93.6	75-125	0			
Ethylbenzene	1906	60	2000	0	95.3	75-125	0			
m,p-Xylene	3822	120	4000	0	95.6	80-125	0			
o-Xylene	1896	60	2000	0	94.8	75-125	0			
Toluene	1847	60	2000	0	92.4	70-125	0			
Xylenes, Total	5718	180	6000	0	95.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	4290	0	4000	0	107	70-130	0			
Surr: 4-Bromofluorobenzene	4130	0	4000	0	103	70-130	0			
Surr: Dibromofluoromethane	4111	0	4000	0	103	70-130	0			
Surr: Toluene-d8	3874	0	4000	0	96.8	70-130	0			

The following samples were analyzed in this batch:

1206022-01A	1206022-03A	1206022-04A
1206022-05A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41526** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-41526-41526				Units: µg/Kg		Analysis Date: 6/8/2012 01:57 PM		
Client ID:		Run ID: VMS9_120608A				SeqNo: 1994892		Prep Date: 6/8/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1035	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	974.5	0	1000	0	97.4	70-130	0			
Surr: Dibromofluoromethane	955.5	0	1000	0	95.6	70-130	0			
Surr: Toluene-d8	1014	0	1000	0	101	70-130	0			

MBLK		Sample ID: MBLK-41526-41526				Units: µg/Kg		Analysis Date: 6/8/2012 01:57 PM		
Client ID:		Run ID: VMS9_120608A				SeqNo: 1994909		Prep Date: 6/8/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1035	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	974.5	0	1000	0	97.4	70-130	0			
Surr: Dibromofluoromethane	955.5	0	1000	0	95.6	70-130	0			
Surr: Toluene-d8	1014	0	1000	0	101	70-130	0			

MBLK		Sample ID: MBLK-41526-41526				Units: µg/Kg		Analysis Date: 6/8/2012 01:34 PM		
Client ID:		Run ID: VMS7_120608A				SeqNo: 1995060		Prep Date: 6/8/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1046	0	1000	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	1000	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	1008	0	1000	0	101	70-130	0			
Surr: Toluene-d8	1010	0	1000	0	101	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41526** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-41526-41526				Units: µg/Kg		Analysis Date: 6/9/2012 12:52 PM		
Client ID:		Run ID: VMS7_120608B				SeqNo: 1995310		Prep Date: 6/8/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1026	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	984	0	1000	0	98.4	70-130	0			
Surr: Dibromofluoromethane	1066	0	1000	0	107	70-130	0			
Surr: Toluene-d8	1040	0	1000	0	104	70-130	0			

LCS		Sample ID: LCS-41526-41526				Units: µg/Kg		Analysis Date: 6/8/2012 12:46 PM		
Client ID:		Run ID: VMS9_120608A				SeqNo: 1994891		Prep Date: 6/8/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	972	30	1000	0	97.2	75-125	0			
Ethylbenzene	1067	30	1000	0	107	75-125	0			
m,p-Xylene	2162	60	2000	0	108	80-125	0			
o-Xylene	1064	30	1000	0	106	75-125	0			
Toluene	980	30	1000	0	98	70-125	0			
Xylenes, Total	3226	90	3000	0	108	75-125	0			
Surr: 1,2-Dichloroethane-d4	1030	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1120	0	1000	0	112	70-130	0			
Surr: Dibromofluoromethane	1000	0	1000	0	100	70-130	0			
Surr: Toluene-d8	997.5	0	1000	0	99.8	70-130	0			

LCS		Sample ID: LCS-41526-41526				Units: µg/Kg		Analysis Date: 6/8/2012 12:46 PM		
Client ID:		Run ID: VMS9_120608A				SeqNo: 1994908		Prep Date: 6/8/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	972	30	1000	0	97.2	75-125	0			
Ethylbenzene	1067	30	1000	0	107	75-125	0			
m,p-Xylene	2162	60	2000	0	108	80-125	0			
o-Xylene	1064	30	1000	0	106	75-125	0			
Toluene	980	30	1000	0	98	70-125	0			
Xylenes, Total	3226	90	3000	0	108	75-125	0			
Surr: 1,2-Dichloroethane-d4	1030	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1120	0	1000	0	112	70-130	0			
Surr: Dibromofluoromethane	1000	0	1000	0	100	70-130	0			
Surr: Toluene-d8	997.5	0	1000	0	99.8	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41526** Instrument ID **VMS9** Method: **SW8260**

LCS Sample ID: LCS-41526-41526				Units: µg/Kg		Analysis Date: 6/8/2012 11:53 AM				
Client ID:		Run ID: VMS7_120608A		SeqNo: 1995057		Prep Date: 6/8/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	936	30	1000	0	93.6	75-125	0			
Ethylbenzene	939	30	1000	0	93.9	75-125	0			
m,p-Xylene	1931	60	2000	0	96.6	80-125	0			
o-Xylene	966.5	30	1000	0	96.6	75-125	0			
Toluene	932	30	1000	0	93.2	70-125	0			
Xylenes, Total	2898	90	3000	0	96.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	1026	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1011	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	1035	0	1000	0	104	70-130	0			
Surr: Toluene-d8	1025	0	1000	0	102	70-130	0			

LCS Sample ID: LCS-41526-41526				Units: µg/Kg		Analysis Date: 6/9/2012 12:02 PM				
Client ID:		Run ID: VMS7_120608B		SeqNo: 1995305		Prep Date: 6/8/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1002	30	1000	0	100	75-125	0			
Ethylbenzene	989.5	30	1000	0	99	75-125	0			
m,p-Xylene	2053	60	2000	0	103	80-125	0			
o-Xylene	1007	30	1000	0	101	75-125	0			
Toluene	963	30	1000	0	96.3	70-125	0			
Xylenes, Total	3060	90	3000	0	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	1044	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	1008	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	1065	0	1000	0	106	70-130	0			
Surr: Toluene-d8	1018	0	1000	0	102	70-130	0			

MS Sample ID: 1206045-09B MS				Units: µg/Kg		Analysis Date: 6/8/2012 10:15 PM				
Client ID:		Run ID: VMS9_120608A		SeqNo: 1994911		Prep Date: 6/8/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	7205	210	7032	0	102	75-125	0			H
Ethylbenzene	7525	210	7032	0	107	75-125	0			H
m,p-Xylene	15230	420	14060	0	108	80-125	0			H
o-Xylene	7605	210	7032	0	108	75-125	0			H
Toluene	7359	210	7032	0	105	70-125	0			H
Xylenes, Total	22840	630	21100	0	108	75-125	0			H
Surr: 1,2-Dichloroethane-d4	7233	0	7032	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	8133	0	7032	0	116	70-130	0			
Surr: Dibromofluoromethane	6772	0	7032	0	96.3	70-130	0			
Surr: Toluene-d8	7405	0	7032	0	105	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41526** Instrument ID **VMS9** Method: **SW8260**

MS				Sample ID: 1206111-01A MS				Units: µg/Kg			Analysis Date: 6/8/2012 09:30 PM			
Client ID:				Run ID: VMS7_120608A				SeqNo: 1995066			Prep Date: 6/8/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	914.5	5.0	1000	0	91.4	75-125	0							
Ethylbenzene	893.5	5.0	1000	0	89.4	75-125	0							
m,p-Xylene	1838	2.5	2000	0	91.9	80-125	0							
o-Xylene	917.5	2.5	1000	0	91.8	75-125	0							
Toluene	898	5.0	1000	0	89.8	70-125	0							
Xylenes, Total	2755	5.0	3000	0	91.8	75-125	0							
Surr: 1,2-Dichloroethane-d4	1067	0	1000	0	107	70-120	0							
Surr: 4-Bromofluorobenzene	1038	0	1000	0	104	75-120	0							
Surr: Dibromofluoromethane	1048	0	1000	0	105	85-115	0							
Surr: Toluene-d8	1023	0	1000	0	102	85-120	0							

MSD				Sample ID: 1206045-09B MSD			Units: µg/Kg		Analysis Date: 6/8/2012 10:39 PM		
Client ID:				Run ID: VMS9_120608A			SeqNo: 1994912		Prep Date: 6/8/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	6920	210	7032	0	98.4	75-125	7205	4.03	30	H	
Ethylbenzene	7352	210	7032	0	105	75-125	7525	2.32	30	H	
m,p-Xylene	14900	420	14060	0	106	80-125	15230	2.19	30	H	
o-Xylene	7423	210	7032	0	106	75-125	7605	2.43	30	H	
Toluene	7198	210	7032	0	102	70-125	7359	2.22	30	H	
Xylenes, Total	22320	630	21100	0	106	75-125	22840	2.27	30	H	
Surr: 1,2-Dichloroethane-d4	7106	0	7032	0	101	70-130	7233	1.77	30		
Surr: 4-Bromofluorobenzene	7908	0	7032	0	112	70-130	8133	2.81	30		
Surr: Dibromofluoromethane	6663	0	7032	0	94.8	70-130	6772	1.62	30		
Surr: Toluene-d8	7205	0	7032	0	102	70-130	7405	2.74	30		

MSD				Sample ID: 1206111-01A MSD				Units: µg/Kg			Analysis Date: 6/8/2012 09:56 PM			
Client ID:				Run ID: VMS7_120608A				SeqNo: 1995069			Prep Date: 6/8/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Benzene	890	5.0	1000	0	89	75-125	914.5	2.72	30					
Ethylbenzene	866	5.0	1000	0	86.6	75-125	893.5	3.13	30					
m,p-Xylene	1788	2.5	2000	0	89.4	80-125	1838	2.76	30					
o-Xylene	903	2.5	1000	0	90.3	75-125	917.5	1.59	30					
Toluene	876.5	5.0	1000	0	87.6	70-125	898	2.42	30					
Xylenes, Total	2690	5.0	3000	0	89.7	75-125	2755	2.37	30					
Surr: 1,2-Dichloroethane-d4	1054	0	1000	0	105	70-120	1067	1.27	30					
Surr: 4-Bromofluorobenzene	1014	0	1000	0	101	75-120	1038	2.29	30					
Surr: Dibromofluoromethane	1042	0	1000	0	104	85-115	1048	0.622	30					
Surr: Toluene-d8	1008	0	1000	0	101	85-120	1023	1.53	30					

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41526** Instrument ID **VMS9** Method: **SW8260**

The following samples were analyzed in this batch:

1206022-05A

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **41505** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-41505-41505				Units: mg/Kg		Analysis Date: 6/7/2012 11:00 PM		
Client ID:		Run ID: WETCHEM_120607A				SeqNo: 1993210		Prep Date: 6/6/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.49

LCS		Sample ID: LCS-41505-41505				Units: mg/Kg		Analysis Date: 6/7/2012 11:00 PM		
Client ID:		Run ID: WETCHEM_120607A				SeqNo: 1993209		Prep Date: 6/6/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.857 0.50 1.992 0 93.2 75-110 0

MS		Sample ID: 1206022-01B MS				Units: mg/Kg		Analysis Date: 6/7/2012 11:00 PM		
Client ID: Pit Bottom		Run ID: WETCHEM_120607A				SeqNo: 1993207		Prep Date: 6/6/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.6443 0.49 1.976 0 32.6 60-130 0 S

MSD		Sample ID: 1206022-01B MSD				Units: mg/Kg		Analysis Date: 6/7/2012 11:00 PM		
Client ID: Pit Bottom		Run ID: WETCHEM_120607A				SeqNo: 1993208		Prep Date: 6/6/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.6443 0.49 1.976 0 32.6 60-130 0.6443 0 30 S

The following samples were analyzed in this batch:

1206022-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **R105486** Instrument ID **WETCHEM** Method: **A4500-H B**

LCS		Sample ID: WLCSW1-060112-R105486				Units: s.u.		Analysis Date: 6/1/2012 08:50 AM		
Client ID:		Run ID: WETCHEM_120601E				SeqNo: 1989618		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.34 0 4.4 0 98.6 90-110 0

LCS		Sample ID: WLCSW1-060112-R105486				Units: s.u.		Analysis Date: 6/1/2012 08:50 AM		
Client ID:		Run ID: WETCHEM_120601E				SeqNo: 1989626		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.34 0 4.4 0 98.6 90-110 0

LCS		Sample ID: WLCSW1-060112-R105486				Units: s.u.		Analysis Date: 6/1/2012 08:50 AM		
Client ID:		Run ID: WETCHEM_120601E				SeqNo: 1989633		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.34 0 4.4 0 98.6 90-110 0

DUP		Sample ID: 1206040-03A DUP				Units: s.u.		Analysis Date: 6/1/2012 08:50 AM		
Client ID:		Run ID: WETCHEM_120601E				SeqNo: 1989624		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 9.52 0 0 0 0 0-0 9.52 0 20

DUP		Sample ID: 1206010-03A DUP				Units: s.u.		Analysis Date: 6/1/2012 08:50 AM		
Client ID:		Run ID: WETCHEM_120601E				SeqNo: 1989630		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.28 0 0 0 0 0-0 7.28 0 20

DUP		Sample ID: 1206023-01A DUP				Units: s.u.		Analysis Date: 6/1/2012 08:50 AM		
Client ID:		Run ID: WETCHEM_120601E				SeqNo: 1989640		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.93 0 0 0 0 0-0 3.93 0 20

The following samples were analyzed in this batch:

1206022-01B 1206022-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206022
Project: WPX Energy TR 43-32 Pit 5/29/12

QC BATCH REPORT

Batch ID: **R105510** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R105510				Units: % of sample		Analysis Date: 6/1/2012 02:01 PM		
Client ID:		Run ID: MOIST_120601B				SeqNo: 1990096		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS		Sample ID: LCS-R105510				Units: % of sample		Analysis Date: 6/1/2012 02:01 PM		
Client ID:		Run ID: MOIST_120601B				SeqNo: 1990094		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1206021-12BDUP				Units: % of sample		Analysis Date: 6/1/2012 02:01 PM		
Client ID:		Run ID: MOIST_120601B				SeqNo: 1990083		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.58 0.050 0 0 0 0-0 2.8 8.18 20

DUP		Sample ID: 1206022-06ADUP				Units: % of sample		Analysis Date: 6/1/2012 02:01 PM		
Client ID: BKGD 1		Run ID: MOIST_120601B				SeqNo: 1990091		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.78 0.050 0 0 0 0-0 3.08 10.2 20

The following samples were analyzed in this batch:

1206022-01B	1206022-02B	1206022-03B
1206022-04B	1206022-05B	1206022-06A
1206022-07A	1206022-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER
#

1206022

PROJECT NAME		WPA Energy TR 43-32 Pit		SAMPLER		Luke Miley		DATE		5/29/12		PAGE		1 of 1	
PROJECT No.		Closure		SITE ID				TURNAROUND		STD		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL Compliance Solutions, Inc.		EDD FORMAT											
SEND REPORT TO		Kris Rowe		PURCHASE ORDER											
ADDRESS		744 Horizon Ct. Suite 140		BILL TO COMPANY		WPA Energy									
CITY / STATE / ZIP		Grand Junction, CO. 81506		INVOICE ATTN TO		Karolina Blaney									
PHONE		970-243-3271		ADDRESS		1058 CR 215									
FAX		970-243-3280		CITY / STATE / ZIP		Parachute, CO 81635									
E-MAIL		Krowe@hrlcomp.com		PHONE		970-683-2295									
				FAX		970-285-9573									
				E-MAIL		Karolina.blaney@williams.com									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	Table 910-1 (see comments)	Arsenic	SAR/EC/pH	Semi Vols-PAH	
1	Pit bottom	S	5/29/12	1200	3	40C		X	X	X	X	X	X		
2	Pit Wall North	S	5/29/12	1205	2	40C		X	X	X			X		
3	Pit Wall South	S	5/29/12	1210	2	40C		X	X	X			X		
4	Pit Wall East	S	5/29/12	1215	2	40C		X	X	X			X		
5	Pit Wall West	S	5/29/12	1220	2	40C		X	X	X			X		
6	BKGD 1	S	5/29/12	1250	2	40C						X	X		
7	BKGD 2	S	5/29/12	1255	1	40C						X			
8	BKGD 3	S	5/29/12	1300	1	40C						X			

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	4.0C	QC PACKAGE (check below)
	Report Barium as total Barium and do not run Boron	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
		<input type="checkbox"/> LEVEL III (Std QC + forms)
		<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

SIGNATURE		PRINTED NAME		DATE		TIME	
RELINQUISHED BY		Luke Miley		5/30/12		1700	
RECEIVED BY		Diane F Shaw		6/1/12		0930	
RELINQUISHED BY							
RECEIVED BY							
RELINQUISHED BY							
RECEIVED BY							



Subcontractor:
A & L Great Lakes Agricultural La
3505 Conestoga Dr
Ft. Wayne, IN 46808

TEL: (260) 483-4759
FAX: (260) 483-5274
Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: 01-Jun-12
COC ID: 3678
Due D 07-Jun-12

Environmental

Salesperson

Debbie Fazio

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	20-1206022	Project Name	1206022	A	Subcontracted Analyses (SUBCONTRACT)											
Work Order		Project Number		B												
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C												
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D												
Address	3352 128th Avenue	Address	3352 128th Avenue	E												
				F												
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G												
Phone	(616) 399-6070	Phone	(616) 399-6070	H												
Fax	(616) 399-6185	Fax	(616) 399-6185	I												
eMail Address	ann.preston@alsglobal.com	eMail CC		J												
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J		
1206022-01C	Pit Bottom	Soil	29/May/2012 12:00	(1) MISC	X											
1206022-06B	BKGD 1	Soil	29/May/2012 12:50	(1) MISC	X											

Comments:

Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by: *Ann Preston* Date/Time: *6/1/12 1400*

Received by:

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 01-Jun-12 09:30

Work Order: 1206022

Received by: DS

Checklist completed by Diane Shaw 01-Jun-12
eSignature Date

Reviewed by: Alex Csaszar 01-Jun-12
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.0 c</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx **NEW Package**
Express **US Airbill**

FedEx
Tracking
Number

8008 9259 7159

0200 Form
ID No.

FedEx Retrieval Copy

1 From
Date 5/30/12

Sender's Name Luke Miley Phone 970 243-3271

Company HCSI

Address 744 Horizon Ct. Ste 140

City Grand Junction State CO ZIP 81506

2 Your Internal Billing Reference

3 To
Recipient's Name Sample Receiving Phone 616 391-6070

Company ALS Group

Address 3352 128th Ave

Address 800-255-3950

City Holland

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Next Business Day

- 06 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 01 ☒ FedEx Priority Overnight
Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 05 ☐ FedEx Standard Overnight
Next business afternoon. * Saturday Delivery NOT available.

2 or 3 Business Days

- 49 ☐ NEW FedEx 2Day A.M.
Second business morning. * Saturday Delivery NOT available.
- 03 ☐ FedEx 2Day
Second business afternoon. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 20 ☐ FedEx Express Saver
Third business day. * Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500.

- 06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 07 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ SATURDAY DELIVERY

☒ No Signature Required
Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

☒ No 04 ☐ Yes
As per attached Shipper's Declaration

06 ☐ Dry Ice
Dry Ice, 9, UN 1845

☐ Cargo Aircraft Only

CUSTODY SEAL
DATE 5/30/12
SIGNATURE

Obtain recip
Acct. No.
Card 5 ☐ Cash/Check

8008 9259 7159

*Our Agency is limited to \$500 unless you declare a higher value. See the current FedEx Services Guide for details.

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25-Jun-2012

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **WPX TR 43-32-597 Pit Closure 6/18/12**

Work Order: **1206670**

Dear Kris,

ALS Environmental received 1 sample on 20-Jun-2012 11:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX TR 43-32-597 Pit Closure 6/18/12
Work Order: 1206670**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1206670-01	Pit Bottom	Soil		6/18/2012 10:00	6/20/2012 11:50	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX TR 43-32-597 Pit Closure 6/18/12
WorkOrder: 1206670

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp**Date:** 25-Jun-12**Client:** HRL Compliance Solutions**Project:** WPX TR 43-32-597 Pit Closure 6/18/12**Work Order:** 1206670**Sample ID:** Pit Bottom**Lab ID:** 1206670-01**Collection Date:** 6/18/2012 10:00 AM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/20/2012	Analyst: CW
DRO (C10-C28)	2,800		11	mg/Kg-dry	2	6/21/2012 07:56 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>88.1</i>		<i>39-115</i>	<i>%REC</i>	<i>2</i>	6/21/2012 07:56 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	22		0.050	% of sample	1	6/20/2012 03:15 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 25-Jun-12

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1206670

Project: WPX TR 43-32-597 Pit Closure 6/18/12

Batch ID: **41809**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-41809-41809				Units: mg/Kg		Analysis Date: 6/21/2012 11:27 AM		
Client ID:		Run ID: GC8_120620A				SeqNo: 2007790		Prep Date: 6/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.29	0	2	0	64.5	39-115	0			

LCS		Sample ID: DLCSS1-41809-41809				Units: mg/Kg		Analysis Date: 6/21/2012 11:52 AM		
Client ID:		Run ID: GC8_120620A				SeqNo: 2007791		Prep Date: 6/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	158.2	5.0	200	0	79.1	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.234	0	2	0	61.7	39-115	0			

MS		Sample ID: 1206566-01A MS				Units: mg/Kg		Analysis Date: 6/21/2012 12:19 PM		
Client ID:		Run ID: GC8_120620A				SeqNo: 2007792		Prep Date: 6/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	651.8	8.0	319	422.8	71.8	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	2.298	0	3.19	0	72	39-115	0			

MSD		Sample ID: 1206566-01A MSD				Units: mg/Kg		Analysis Date: 6/21/2012 12:45 PM		
Client ID:		Run ID: GC8_120620A				SeqNo: 2007793		Prep Date: 6/20/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	701.9	8.2	329.3	422.8	84.7	60-130	651.8	7.4	30	
<i>Surr: 4-Terphenyl-d14</i>	2.427	0	3.293	0	73.7	39-115	2.298	5.45	30	

The following samples were analyzed in this batch: | 1206670-01B |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206670
Project: WPX TR 43-32-597 Pit Closure 6/18/12

QC BATCH REPORT

Batch ID: **R106322** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R106322					Units: % of sample		Analysis Date: 6/20/2012 03:15 PM		
Client ID:	Run ID: MOIST_120620C				SeqNo: 2007346		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS	Sample ID: LCS-R106322					Units: % of sample		Analysis Date: 6/20/2012 03:15 PM		
Client ID:	Run ID: MOIST_120620C				SeqNo: 2007345		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1206641-08BDUP1					Units: % of sample		Analysis Date: 6/20/2012 03:15 PM		
Client ID:	Run ID: MOIST_120620C				SeqNo: 2007325		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 16.15 0.050 0 0 0 0-0 17.23 6.47 20

DUP	Sample ID: 1206641-08BDUP2					Units: % of sample		Analysis Date: 6/20/2012 03:15 PM		
Client ID:	Run ID: MOIST_120620C				SeqNo: 2007326		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 16.66 0.050 0 0 0 0-0 17.23 3.36 20

DUP	Sample ID: 1206648-01ADUP					Units: % of sample		Analysis Date: 6/20/2012 03:15 PM		
Client ID:	Run ID: MOIST_120620C				SeqNo: 2007333		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.59 0.050 0 0 0 0-0 2.68 3.42 20

The following samples were analyzed in this batch:

1206670-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER

1206670

PROJECT NAME		WPX TR 43-32-597 Pit Closure		SAMPLER		Luke Miley		DATE		6/18/2012		PAGE		1 of 1	
PROJECT No.				SITE ID				TURNAROUND		Standard 5 Day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL Compliance Solutions, Inc.		BILL TO COMPANY		WPX Energy									
SEND REPORT TO		Kris Rowe		INVOICE ATTN TO		Karolina Blaney									
ADDRESS		744 Horizon Ct. Suite 140		ADDRESS		1058 County Rd. 215									
CITY/STATE/ZIP		Grand Junction, CO. 81506		CITY/STATE/ZIP		Parachute, CO. 81635									
PHONE		970-243-3271		PHONE		970-683-2295									
FAX		970-243-3280		FAX		970-285-9573									
EMAIL		Krowe@hrlcomp.com		EMAIL		Karolina.Blaney@Williams.com									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	SEMI VOL-S-PAH	TABLE 910-1	SAR/EC/pH	Arsenic	
1	Pit Bottom	S	6/18/2012	1000	3	4°C		x	x	x	x	x	x	x	Per Kris Rowe 6/20/12 NR

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	11.4°C	QC PACKAGE (check below)
		x LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

SIGNATURE	PRINTED NAME	DATE	TIME
<i>[Signature]</i>	Luke Miley	6/18/2012	1700
RELINQUISHED BY	RECEIVED BY		
<i>[Signature]</i>	KEVIN J. FREYER	6/20/12	1150
RELINQUISHED BY	RECEIVED BY		
RELINQUISHED BY	RECEIVED BY		

Alex Csaszar

From: Kris Rowe <krowe@hrlcomp.com>
Sent: Wednesday, June 20, 2012 12:54 PM
To: Alex Csaszar
Cc: Ann Preston; Luke Miley
Subject: WPX RGU 43-32-597 Pit Closure

Follow Up Flag: Follow up
Flag Status: Flagged

Alex,

We submitted some samples yesterday for the WPX TR 43-32-597 Pit Closure and we have all of 910-1 on there, but we only need to run DRO. Do you need us to send you an updated chain of custody?

Kris Rowe
Waste Management Project Manager
HRL Compliance Solutions Inc.
744 Horizon Court, Suite 140
Grand Junction CO 81503
970-261-2015 cell
970-243-3271 office

ALS Group: Click [here](#) to report this email as spam.

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 20-Jun-12 11:50

Work Order: 1206670

Received by: KRW

Checklist completed by Keith Wurenga 20-Jun-12
eSignature Date

Reviewed by: Alex Csaszar 20-Jun-12
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>11.4 C</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:	<u>Melted Ice.</u>		

=====

Client Contacted: HRL

Date Contacted: 20-Jun-12

Person Contacted: Kris Rowe

Contacted By: Alex Csaszar

Regarding: Temp. of cooler.

Comments:

CorrectiveAction:

FedEx *NEW Package*
Express *US Airbill*

FedEx
Tracking
Number

8008 9259 9129

0200 Form
ID No.

FedEx Retrieval Copy

1 From
Date 6/18/12
Sender's Name Luke Miley
Phone 470 343-3271
Company HCSE
Address 744 Horizon Ct Ste. 140
City Grand Junction State CO ZIP 81506
Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To
Recipient's Name Sample Receiving
Phone 616 399-6070
Company ALS Group
Address 3352
We cannot deliver to P.O. boxes or P.O. ZIP codes.
City
Dept./Floor/Suite/Room

Address
Use this line

City

800-255-3950 • 304-255-3900
Quality Environmental Containers

QEC



8008 9259 9129

4 Express Package Service

* To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.

For packages over 150 lbs., use the new
FedEx Express Freight US Airbill.

Next Business Day

☐ 06 FedEx First Overnight
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.

☒ 01 FedEx Priority Overnight
Next business morning.* Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

☐ 05 FedEx Standard Overnight
Next business afternoon.*
Saturday Delivery NOT available.

2 or 3 Business Days

☐ 49 NEW FedEx 2Day A.M.
Second business morning.*
Saturday Delivery NOT available.

☐ 03 FedEx 2Day
Second business afternoon.* Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.

☐ 20 FedEx Express Saver
Third business day.*
Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500.

☐ 06 FedEx Envelope* ☐ 02 FedEx Pak* ☐ 03 FedEx Box ☐ 04 FedEx Tube ☒ 01 Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

☐ No Signature Required
*Package may be left without
obtaining a signature for delivery.

☐ 10 Direct Signature
Someone at recipient's address
may sign for delivery. *Fee applies.*

☐ 34 Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

☐ One box must be checked.

☒ No ☐ 04 Yes
As per attached
Shipper's Declaration

☐ Yes
Shipper's Declaration ☐ 06 Dry Ice

craft Only

Obtain recip.
Acct. No. ☐

☐ 5 Cash/Check

SIGNATURE

DATE

CUSTODY SEAL

For higher value shipments, you declare a higher value. See the current FedEx Service Guide for details.

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02-Jul-2012

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **WPX TR 43-32-597 Pit Closure 6/25/12**

Work Order: **1206853**

Dear Kris,

ALS Environmental received 1 sample on 26-Jun-2012 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Alex Csaszar

Ann Preston
Project Manager



Certificate No: MN331938

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Group A Campbell Brothers Limited Company

Environmental The ALS logo, a stylized blue triangle with a yellow flame inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX TR 43-32-597 Pit Closure 6/25/12
Work Order: 1206853

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1206853-01	Pit Bottom	Soil		6/25/2012 14:00	6/26/2012 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX TR 43-32-597 Pit Closure 6/25/12
WorkOrder: 1206853

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp**Date:** 02-Jul-12**Client:** HRL Compliance Solutions**Project:** WPX TR 43-32-597 Pit Closure 6/25/12**Work Order:** 1206853**Sample ID:** Pit Bottom**Lab ID:** 1206853-01**Collection Date:** 6/25/2012 02:00 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/27/2012	Analyst: CW
DRO (C10-C28)	38		5.2	mg/Kg-dry	1	6/27/2012 06:18 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>49.4</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	6/27/2012 06:18 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	21		0.050	% of sample	1	6/26/2012 02:19 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 02-Jul-12

Client: HRL Compliance Solutions

Work Order: 1206853

Project: WPX TR 43-32-597 Pit Closure 6/25/12

QC BATCH REPORT

Batch ID: **41987B**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-41987-41987B				Units: mg/Kg		Analysis Date: 6/27/2012 05:28 PM		
Client ID:		Run ID: GC8_120627A				SeqNo: 2015378		Prep Date: 6/27/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	0.7303	0	1.667	0	43.8	39-115	0			

LCS		Sample ID: DLCSS1-41987-41987B				Units: mg/Kg		Analysis Date: 6/27/2012 05:28 PM		
Client ID:		Run ID: GC8_120627A				SeqNo: 2015375		Prep Date: 6/27/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	142	4.2	166.7	0	85.2	60-130	0			
Surr: 4-Terphenyl-d14	0.886	0	1.667	0	53.2	39-115	0			

MS		Sample ID: 1206861-01C MS				Units: mg/Kg		Analysis Date: 6/27/2012 05:53 PM		
Client ID:		Run ID: GC8_120627A				SeqNo: 2015379		Prep Date: 6/27/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	262.2	8.2	326.2	0	80.4	60-130	0			
Surr: 4-Terphenyl-d14	1.67	0	3.262	0	51.2	39-115	0			

MSD		Sample ID: 1206861-01C MSD				Units: mg/Kg		Analysis Date: 6/27/2012 05:53 PM		
Client ID:		Run ID: GC8_120627A				SeqNo: 2015376		Prep Date: 6/27/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	267.3	8.1	325.6	0	82.1	60-130	262.2	1.93	30	
Surr: 4-Terphenyl-d14	1.611	0	3.256	0	49.5	39-115	1.67	3.61	30	

The following samples were analyzed in this batch: | 1206853-01A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1206853
Project: WPX TR 43-32-597 Pit Closure 6/25/12

QC BATCH REPORT

Batch ID: **R106610** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R106610				Units: % of sample		Analysis Date: 6/26/2012 02:19 PM		
Client ID:		Run ID: MOIST_120626B				SeqNo: 2013832		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS		Sample ID: LCS-R106610				Units: % of sample		Analysis Date: 6/26/2012 02:19 PM		
Client ID:		Run ID: MOIST_120626B				SeqNo: 2013829		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1206840-08BDUP				Units: % of sample		Analysis Date: 6/26/2012 02:19 PM		
Client ID:		Run ID: MOIST_120626B				SeqNo: 2013799		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 4.97 0.050 0 0 0 -0 0 6.43 25.6 20 R

DUP		Sample ID: 1206855-01BDUP				Units: % of sample		Analysis Date: 6/26/2012 02:19 PM		
Client ID:		Run ID: MOIST_120626B				SeqNo: 2013805		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 8.5 0.050 0 0 0 -0 0 7.96 6.56 20

The following samples were analyzed in this batch:

1206853-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER
#

1206853

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME WPX TR 43-32-597 Pit Closure

SITE ID

Luke Miley

DATE

6/25/2012

TURNAROUND

Standard 5 Day

PROJECT No.

EDD FORMAT

PURCHASE ORDER

COMPANY NAME HRL Compliance Solutions, Inc.

BILL TO COMPANY WPX Energy

SEND REPORT TO Kris Rowe

INVOICE ATTN TO Karolina Blaney

ADDRESS 744 Horizon Ct. Suite 140

ADDRESS 1058 County Rd. 215

CITY / STATE / ZIP Grand Junction, CO. 81506

CITY / STATE / ZIP Parachute, CO. 81635

PHONE 970-243-3271

PHONE 970-683-2295

FAX 970-243-3280

FAX 970-285-9573

E-MAIL Krowe@hrlcomp.com

E-MAIL Karolina.Blaney@Williams.com

Lab ID

Field ID

Matrix

Sample
Date

Sample
Time

Bottles

Pres.

QC

DRO

x

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
4.6'	<input checked="" type="checkbox"/> LEVEL II (Standard QC)
	<input type="checkbox"/> LEVEL III (Std QC + forms)
	<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
	<input type="checkbox"/>
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035	

SIGNATURE	PRINTED NAME	DATE	TIME
	Luke Miley	6/25/2012	1700
RECEIVED BY	Diane F Shaw	6/26/12	1000
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **26-Jun-12 10:00**

Work Order: **1206853**

Received by: **DS**

Checklist completed by Diane Shaw 26-Jun-12
eSignature Date

Reviewed by: Ann Preston 27-Jun-12
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.6 c</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	-		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Facility Name: TR 43-32-597
Remediation: 5948
Facility ID: 324411

Name of Operator: WPX Energy Rocky Mountain, LLC
Latitude: 39.568589 Longitude -108.293951
Location (QtrQty, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6th PM

COGCC Operator # 96850
County: Garfield

APPENDIX 2: BACKGROUND RAW ANALYTICAL RESULTS

ALS Group USA, Corp**Date:** 12-Jun-12**Client:** HRL Compliance Solutions**Project:** WPX Energy TR 43-32 Pit 5/29/12**Work Order:** 1206022**Sample ID:** BKGD 1**Lab ID:** 1206022-06**Collection Date:** 5/29/2012 12:50 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/4/2012	Analyst: RH
Arsenic	8.5		0.84	mg/Kg-dry	2	6/4/2012 05:19 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/6/12			as noted	1	6/6/2012
MOISTURE			A2540 G			Analyst: CG
Moisture	3.1		0.050	% of sample	1	6/1/2012 02:01 PM
PH			SW9045D			Analyst: EE
pH	7.12			s.u.	1	6/1/2012 08:50 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions

Project: WPX Energy TR 43-32 Pit 5/29/12

Sample ID: BKGD 2

Collection Date: 5/29/2012 12:55 PM

Work Order: 1206022

Lab ID: 1206022-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/4/2012	Analyst: RH
Arsenic	9.7		0.80	mg/Kg-dry	2	6/4/2012 05:24 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	6.5		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 12-Jun-12

Client: HRL Compliance Solutions

Project: WPX Energy TR 43-32 Pit 5/29/12

Sample ID: BKGD 3

Collection Date: 5/29/2012 01:00 PM

Work Order: 1206022

Lab ID: 1206022-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/4/2012	Analyst: RH
Arsenic	5.9		0.81	mg/Kg-dry	2	6/4/2012 05:29 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	5.6		0.050	% of sample	1	6/1/2012 02:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Report Number: F12156-0152

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274

www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: 1206022-01C & 06B

DATE RECEIVED: 06/04/2012

DATE REPORTED: 06/06/2012

PAGE: 1

P.O. NUMBER: 20-1206022

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
13159	PIT BOTTOM	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	5.65	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	226	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	39	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	4782	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	77.1	-	USDA Handbook 60
13160	BKGD 1	Sat'd Paste Extraction with DIW			USDA Handbook 60
		Conductivity (ECe)	0.27	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	40	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	10	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	18	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	0.7	-	USDA Handbook 60

Facility Name: TR 43-32-597
Remediation: 5948
Facility ID: 324411

Name of Operator: WPX Energy Rocky Mountain, LLC
Latitude: 39.568589 Longitude -108.293951
Location (QtrQty, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6th PM

COGCC Operator # 96850
County: Garfield

APPENDIX 3: LANDFARM RAW ANALYTICAL DATA



20-Jul-2012

Kris Rowe
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **WPX TR 43-32 7/12/12**

Work Order: **1207389**

Dear Kris,

ALS Environmental received 1 sample on 14-Jul-2012 10:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 25.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN331938

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: WPX TR 43-32 7/12/12
Work Order: 1207389**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1207389-01	Landfarm	Soil		7/12/2012 09:54	7/14/2012 10:30	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: WPX TR 43-32 7/12/12
Work Order: 1207389

Case Narrative

Batch 42340 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 42397 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch R107481 sample Landfarm MS/MSD recoveries for GRO were above control limits. The parent samples was ND for GRO. No data requires qualification.

Client: HRL Compliance Solutions
Project: WPX TR 43-32 7/12/12
WorkOrder: 1207389

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MLQ	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry as noted	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 20-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 43-32 7/12/12

Sample ID: Landfarm

Collection Date: 7/12/2012 09:54 AM

Work Order: 1207389

Lab ID: 1207389-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	150		SW8015M		Prep Date: 7/18/2012	Analyst: CW
<i>Surr: 4-Terphenyl-d14</i>	75.9		5.0	mg/Kg-dry	1	7/19/2012 11:01 AM
			39-115	%REC	1	7/19/2012 11:01 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: CW
<i>Surr: Toluene-d8</i>	84.8		3.0	mg/Kg-dry	50	7/19/2012 09:54 AM
			50-150	%REC	50	7/19/2012 09:54 AM
MERCURY BY CVAA						
Mercury	0.035		SW7471		Prep Date: 7/17/2012	Analyst: RH
			0.022	mg/Kg-dry	1	7/17/2012 05:00 PM
METALS BY ICP-MS						
Arsenic	7.4		SW6020A		Prep Date: 7/16/2012	Analyst: RH
Barium	640		0.78	mg/Kg-dry	2	7/16/2012 07:59 PM
Cadmium	0.59		7.8	mg/Kg-dry	20	7/18/2012 12:57 AM
Chromium	35		0.31	mg/Kg-dry	2	7/16/2012 07:59 PM
Copper	22		0.78	mg/Kg-dry	2	7/16/2012 07:59 PM
Lead	16		0.78	mg/Kg-dry	2	7/16/2012 07:59 PM
Nickel	25		0.78	mg/Kg-dry	2	7/16/2012 07:59 PM
Selenium	ND		0.78	mg/Kg-dry	2	7/16/2012 07:59 PM
Silver	ND		0.78	mg/Kg-dry	2	7/16/2012 07:59 PM
Zinc	53		1.6	mg/Kg-dry	2	7/16/2012 07:59 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 7/18/12		SUBCONTRACT			Analyst: A&LGL
			as noted		1	7/20/2012
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 7/18/2012	Analyst: RM
Anthracene	ND		18	µg/Kg-dry	1	7/20/2012 12:01 PM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	7/20/2012 12:01 PM
Benzo(a)pyrene	ND		24	µg/Kg-dry	1	7/20/2012 12:01 PM
Benzo(b)fluoranthene	ND		24	µg/Kg-dry	1	7/20/2012 12:01 PM
Benzo(g,h,i)perylene	ND		24	µg/Kg-dry	1	7/20/2012 12:01 PM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	7/20/2012 12:01 PM
Chrysene	ND		36	µg/Kg-dry	1	7/20/2012 12:01 PM
Dibenzo(a,h)anthracene	ND		18	µg/Kg-dry	1	7/20/2012 12:01 PM
Fluoranthene	ND		21	µg/Kg-dry	1	7/20/2012 12:01 PM
Fluorene	ND		18	µg/Kg-dry	1	7/20/2012 12:01 PM
Indeno(1,2,3-cd)pyrene	ND		18	µg/Kg-dry	1	7/20/2012 12:01 PM
Naphthalene	ND		24	µg/Kg-dry	1	7/20/2012 12:01 PM
Pyrene	ND		18	µg/Kg-dry	1	7/20/2012 12:01 PM
<i>Surr: 2-Fluorobiphenyl</i>	61.8		18	µg/Kg-dry	1	7/20/2012 12:01 PM
			12-100	%REC	1	7/20/2012 12:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 20-Jul-12

Client: HRL Compliance Solutions

Project: WPX TR 43-32 7/12/12

Sample ID: Landfarm

Collection Date: 7/12/2012 09:54 AM

Work Order: 1207389

Lab ID: 1207389-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Terphenyl-d14	112		25-137	%REC	1	7/20/2012 12:01 PM
Surr: Nitrobenzene-d5	73.8		37-107	%REC	1	7/20/2012 12:01 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 7/16/2012	Analyst: AK
Benzene	ND		36	µg/Kg-dry	1	7/20/2012 05:35 AM
Ethylbenzene	ND		36	µg/Kg-dry	1	7/20/2012 05:35 AM
m,p-Xylene	ND		72	µg/Kg-dry	1	7/20/2012 05:35 AM
o-Xylene	ND		36	µg/Kg-dry	1	7/20/2012 05:35 AM
Toluene	ND		36	µg/Kg-dry	1	7/20/2012 05:35 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	7/20/2012 05:35 AM
Surr: 1,2-Dichloroethane-d4	99.3		70-130	%REC	1	7/20/2012 05:35 AM
Surr: 4-Bromofluorobenzene	99.6		70-130	%REC	1	7/20/2012 05:35 AM
Surr: Dibromofluoromethane	96.8		70-130	%REC	1	7/20/2012 05:35 AM
Surr: Toluene-d8	104		70-130	%REC	1	7/20/2012 05:35 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	35			mg/kg-dry	1	7/20/2012 07:08 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 7/17/2012	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	7/18/2012 11:00 AM
MOISTURE			A2540 G			Analyst: CG
Moisture	17		0.050	% of sample	1	7/16/2012 03:56 PM
PH			SW9045D			Analyst: KV
pH	9.31			s.u.	1	7/16/2012 11:00 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Report Number: F12200-0136

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: PROJECT 1207389

DATE RECEIVED: 07/18/2012

DATE REPORTED: 07/20/2012

PAGE: 1

P.O. NUMBER: 20-1207389

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
65271	LANDFARM	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	3.11	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	30	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	6	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	1830	ppm	USDA Handbook 60
		Sodium Adsorption Ratio (SAR)	79.6	-	USDA Handbook 60

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42383** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-42383-42383				Units: mg/Kg		Analysis Date: 7/18/2012 06:15 PM		
Client ID:		Run ID: GC8_120718A				SeqNo: 2030766		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.158	0	1.667	0	69.5	39-115	0			

LCS		Sample ID: DLCSS1-42383-42383				Units: mg/Kg		Analysis Date: 7/18/2012 06:44 PM		
Client ID:		Run ID: GC8_120718A				SeqNo: 2030767		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	135	4.2	166.7	0	81	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.201	0	1.667	0	72.1	39-115	0			

MS		Sample ID: 1207398-04B MS				Units: mg/Kg		Analysis Date: 7/18/2012 07:13 PM		
Client ID:		Run ID: GC8_120718A				SeqNo: 2030768		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	396.7	12	490.8	65.08	67.6	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	3.403	0	4.908	0	69.3	39-115	0			

MSD		Sample ID: 1207398-04B MSD				Units: mg/Kg		Analysis Date: 7/18/2012 07:42 PM		
Client ID:		Run ID: GC8_120718A				SeqNo: 2030769		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	377.8	12	482.4	65.08	64.8	60-130	396.7	4.87	30	
<i>Surr: 4-Terphenyl-d14</i>	3.041	0	4.824	0	63	39-115	3.403	11.2	30	

The following samples were analyzed in this batch: | 1207389-01B |

Client: HRL Compliance Solutions
 Work Order: 1207389
 Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **R107481** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-R107481-R107481				Units: µg/L		Analysis Date: 7/19/2012 09:29 AM		
Client ID:		Run ID: GC9_120719A				SeqNo: 2031231		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>85.71</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>85.7</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-R107481-R107481				Units: µg/L		Analysis Date: 7/19/2012 09:05 AM		
Client ID:		Run ID: GC9_120719A				SeqNo: 2031230		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	9301	200	10000	0	93	70-130	0			
<i>Surr: Toluene-d8</i>	<i>86.21</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>86.2</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1207389-01A MS				Units: µg/Kg		Analysis Date: 7/19/2012 06:20 PM		
Client ID: Landfarm		Run ID: GC9_120719A				SeqNo: 2031246		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	691500	2,500	500000	0	138	70-130	0			S
<i>Surr: Toluene-d8</i>	<i>4542</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>90.8</i>	<i>50-150</i>	<i>0</i>			

MSD		Sample ID: 1207389-01A MSD				Units: µg/Kg		Analysis Date: 7/19/2012 06:45 PM		
Client ID: Landfarm		Run ID: GC9_120719A				SeqNo: 2031247		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	660800	2,500	500000	0	132	70-130	691500	4.54	30	S
<i>Surr: Toluene-d8</i>	<i>4618</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>92.4</i>	<i>50-150</i>	<i>4542</i>	<i>1.66</i>	<i>30</i>	

The following samples were analyzed in this batch:

1207389-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42365** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-42365-42365				Units: mg/Kg		Analysis Date: 7/17/2012 04:49 PM		
Client ID:		Run ID: HG1_120717B				SeqNo: 2028772		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-42365-42365				Units: mg/Kg		Analysis Date: 7/17/2012 04:51 PM		
Client ID:		Run ID: HG1_120717B				SeqNo: 2028773		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1855 0.020 0.1665 0 111 80-120 0

MS		Sample ID: 1207405-01AMS				Units: mg/Kg		Analysis Date: 7/17/2012 05:07 PM		
Client ID:		Run ID: HG1_120717B				SeqNo: 2028780		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1752 0.017 0.145 0.0175 109 75-125 0

MSD		Sample ID: 1207405-01AMSD				Units: mg/Kg		Analysis Date: 7/17/2012 05:09 PM		
Client ID:		Run ID: HG1_120717B				SeqNo: 2028781		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1815 0.018 0.1523 0.0175 108 75-125 0.1752 3.53 35

The following samples were analyzed in this batch:

1207389-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42340** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-42340-42340				Units: mg/Kg		Analysis Date: 7/16/2012 05:17 PM		
Client ID:		Run ID: ICPMS2_120716A				SeqNo: 2028196		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	0.03702	0.25								J
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	0.0236	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.07075	0.50								J

LCS		Sample ID: LCS-42340-42340				Units: mg/Kg		Analysis Date: 7/16/2012 05:27 PM		
Client ID:		Run ID: ICPMS2_120716A				SeqNo: 2028198		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.76	0.25	5	0	95.2	80-120	0			
Barium	4.951	0.25	5	0	99	80-120	0			
Cadmium	5.135	0.10	5	0	103	80-120	0			
Chromium	4.898	0.25	5	0	98	80-120	0			
Copper	4.895	0.25	5	0	97.9	80-120	0			
Lead	5.01	0.25	5	0	100	80-120	0			
Nickel	4.842	0.25	5	0	96.8	80-120	0			
Selenium	4.884	0.25	5	0	97.7	80-120	0			
Silver	4.938	0.25	5	0	98.8	80-120	0			
Zinc	4.807	0.50	5	0	96.1	80-120	0			

MS		Sample ID: 1207249-08AMS				Units: mg/Kg		Analysis Date: 7/16/2012 06:58 PM		
Client ID:		Run ID: ICPMS2_120716A				SeqNo: 2028216		Prep Date: 7/16/2012		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	16.76	1.3	6.305	11.23	87.7	80-120	0			
Barium	97.07	1.3	6.305	97.36	-4.46	80-120	0			SO
Cadmium	6.265	0.50	6.305	0.3235	94.2	80-120	0			
Chromium	13.39	1.3	6.305	8.727	73.9	80-120	0			S
Copper	9.576	1.3	6.305	4.064	87.4	80-120	0			
Lead	19.8	1.3	6.305	14.82	78.8	80-120	0			S
Nickel	12.14	1.3	6.305	6.858	83.7	80-120	0			
Selenium	6.472	1.3	6.305	0.8909	88.5	80-120	0			
Silver	5.334	1.3	6.305	0.03738	84	80-120	0			
Zinc	36.85	2.5	6.305	33.43	54.2	80-120	0			SO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42340** Instrument ID **ICPMS2** Method: **SW6020A**

MSD		Sample ID: 1207249-08AMSD				Units: mg/Kg		Analysis Date: 7/16/2012 07:18 PM		
Client ID:		Run ID: ICPMS2_120716A				SeqNo: 2028220		Prep Date: 7/16/2012		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.34	1.4	6.935	11.23	103	80-120	16.76	9.01	25	
Barium	104.9	1.4	6.935	97.36	109	80-120	97.07	7.73	25	O
Cadmium	7.836	0.55	6.935	0.3235	108	80-120	6.265	22.3	25	
Chromium	15.09	1.4	6.935	8.727	91.8	80-120	13.39	12	25	
Copper	10.58	1.4	6.935	4.064	93.9	80-120	9.576	9.93	25	
Lead	22.07	1.4	6.935	14.82	105	80-120	19.8	10.9	25	
Nickel	13.42	1.4	6.935	6.858	94.6	80-120	12.14	10	25	
Selenium	7.62	1.4	6.935	0.8909	97	80-120	6.472	16.3	25	
Silver	6.183	1.4	6.935	0.03738	88.6	80-120	5.334	14.7	25	
Zinc	40.69	2.8	6.935	33.43	105	80-120	36.85	9.92	25	O

The following samples were analyzed in this batch: 1207389-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1207389
 Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42382** Instrument ID **SVMS7** Method: **SW8270**

MBLK		Sample ID: SBLKS1-42382-42382				Units: µg/Kg		Analysis Date: 7/19/2012 02:46 PM		
Client ID:		Run ID: SVMS7_120719A				SeqNo: 2031789		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	1267	0	1667	0	76	12-100	0			
Surr: 4-Terphenyl-d14	1215	0	1667	0	72.9	25-137	0			
Surr: Nitrobenzene-d5	1299	0	1667	0	77.9	37-107	0			

LCS		Sample ID: SLCSS1-42382-42382				Units: µg/Kg		Analysis Date: 7/19/2012 12:49 PM		
Client ID:		Run ID: SVMS7_120719A				SeqNo: 2031784		Prep Date: 7/18/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	626	30	666.7	0	93.9	45-110	0			
Anthracene	666	30	666.7	0	99.9	55-105	0			
Benzo(a)anthracene	612.3	30	666.7	0	91.8	50-110	0			
Benzo(a)pyrene	602	30	666.7	0	90.3	50-110	0			
Benzo(b)fluoranthene	703.7	30	666.7	0	106	45-115	0			
Benzo(g,h,i)perylene	512	30	666.7	0	76.8	40-125	0			
Benzo(k)fluoranthene	653	30	666.7	0	97.9	45-115	0			
Chrysene	693	30	666.7	0	104	55-110	0			
Dibenzo(a,h)anthracene	507	30	666.7	0	76	40-125	0			
Fluoranthene	765.3	30	666.7	0	115	55-115	0			
Fluorene	628	30	666.7	0	94.2	50-110	0			
Indeno(1,2,3-cd)pyrene	532.3	30	666.7	0	79.8	40-120	0			
Naphthalene	598.7	30	666.7	0	89.8	40-105	0			
Pyrene	703.7	30	666.7	0	106	45-125	0			
Surr: 2-Fluorobiphenyl	1065	0	1667	0	63.9	12-100	0			
Surr: 4-Terphenyl-d14	1547	0	1667	0	92.8	25-137	0			
Surr: Nitrobenzene-d5	1256	0	1667	0	75.3	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1207389
 Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: 42382 Instrument ID SVMS7 Method: SW8270

MS Sample ID: 1207398-04B MS				Units: µg/Kg			Analysis Date: 7/19/2012 01:18 PM			
Client ID:		Run ID: SVMS7_120719A		SeqNo: 2031785		Prep Date: 7/18/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1580	88	1949	0	81	45-110	0			
Anthracene	1747	88	1949	0	89.6	55-105	0			
Benzo(a)anthracene	1631	88	1949	0	83.6	50-110	0			
Benzo(a)pyrene	1592	88	1949	0	81.6	50-110	0			
Benzo(b)fluoranthene	1958	88	1949	0	100	45-115	0			
Benzo(g,h,i)perylene	1315	88	1949	0	67.4	40-125	0			
Benzo(k)fluoranthene	1693	88	1949	0	86.8	45-115	0			
Chrysene	1758	88	1949	0	90.2	55-110	0			
Dibenzo(a,h)anthracene	1303	88	1949	0	66.8	40-125	0			
Fluoranthene	2036	88	1949	0	104	55-115	0			
Fluorene	1700	88	1949	0	87.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1356	88	1949	0	69.5	40-120	0			
Naphthalene	1522	88	1949	0	78.1	40-105	0			
Pyrene	1772	88	1949	0	90.9	45-125	0			
Surr: 2-Fluorobiphenyl	2648	0	4873	0	54.3	12-100	0			
Surr: 4-Terphenyl-d14	4137	0	4873	0	84.9	25-137	0			
Surr: Nitrobenzene-d5	3205	0	4873	0	65.8	37-107	0			

MSD Sample ID: 1207398-04B MSD				Units: µg/Kg			Analysis Date: 7/19/2012 01:47 PM			
Client ID:		Run ID: SVMS7_120719A		SeqNo: 2031786		Prep Date: 7/18/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1713	85	1891	0	90.5	45-110	1580	8.06	30	
Anthracene	1860	85	1891	0	98.3	55-105	1747	6.29	30	
Benzo(a)anthracene	1713	85	1891	0	90.5	50-110	1631	4.9	30	
Benzo(a)pyrene	1683	85	1891	0	89	50-110	1592	5.59	30	
Benzo(b)fluoranthene	2096	85	1891	0	111	45-115	1958	6.78	30	
Benzo(g,h,i)perylene	1456	85	1891	0	77	40-125	1315	10.2	30	
Benzo(k)fluoranthene	1826	85	1891	0	96.5	45-115	1693	7.56	30	
Chrysene	1843	85	1891	0	97.4	55-110	1758	4.71	30	
Dibenzo(a,h)anthracene	1400	85	1891	0	74	40-125	1303	7.13	30	
Fluoranthene	2090	85	1891	0	110	55-115	2036	2.61	30	
Fluorene	1795	85	1891	0	94.9	50-110	1700	5.44	30	
Indeno(1,2,3-cd)pyrene	1452	85	1891	0	76.7	40-120	1356	6.82	30	
Naphthalene	1578	85	1891	0	83.4	40-105	1522	3.6	30	
Pyrene	2053	85	1891	0	109	45-125	1772	14.7	30	
Surr: 2-Fluorobiphenyl	2998	0	4728	0	63.4	12-100	2648	12.4	40	
Surr: 4-Terphenyl-d14	4765	0	4728	0	101	25-137	4137	14.1	40	
Surr: Nitrobenzene-d5	3344	0	4728	0	70.7	37-107	3205	4.25	40	

The following samples were analyzed in this batch: 1207389-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1207389
 Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42332** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-42332-42332				Units: µg/Kg		Analysis Date: 7/16/2012 12:32 PM		
Client ID:		Run ID: VMS9_120716A				SeqNo: 2028041		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	961.5	0	1000	0	96.2	70-130	0			
Surr: 4-Bromofluorobenzene	899.5	0	1000	0	90	70-130	0			
Surr: Dibromofluoromethane	950	0	1000	0	95	70-130	0			
Surr: Toluene-d8	914.5	0	1000	0	91.4	70-130	0			

MBLK		Sample ID: MBLK-42332-42332				Units: µg/Kg		Analysis Date: 7/17/2012 01:19 AM		
Client ID:		Run ID: VMS9_120716B				SeqNo: 2028434		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	895	0	1000	0	89.5	70-130	0			
Surr: 4-Bromofluorobenzene	895.5	0	1000	0	89.6	70-130	0			
Surr: Dibromofluoromethane	869.5	0	1000	0	87	70-130	0			
Surr: Toluene-d8	1084	0	1000	0	108	70-130	0			

MBLK		Sample ID: MBLK-42332-42332				Units: µg/Kg		Analysis Date: 7/18/2012 12:01 PM		
Client ID:		Run ID: VMS7_120717B				SeqNo: 2029320		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1009	0	1000	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	994.5	0	1000	0	99.4	70-130	0			
Surr: Dibromofluoromethane	970	0	1000	0	97	70-130	0			
Surr: Toluene-d8	988	0	1000	0	98.8	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1207389
 Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42332** Instrument ID **VMS9** Method: **SW8260**

MBLK		Sample ID: MBLK-42332-42332				Units: µg/Kg		Analysis Date: 7/20/2012 04:22 AM		
Client ID:		Run ID: VMS6_120719B				SeqNo: 2031717		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	962	0	1000	0	96.2	70-130	0			
Surr: 4-Bromofluorobenzene	984	0	1000	0	98.4	70-130	0			
Surr: Dibromofluoromethane	957.5	0	1000	0	95.8	70-130	0			
Surr: Toluene-d8	998.5	0	1000	0	99.8	70-130	0			

LCS		Sample ID: LCS-42332-42332				Units: µg/Kg		Analysis Date: 7/16/2012 11:16 AM		
Client ID:		Run ID: VMS9_120716A				SeqNo: 2028040		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	951.5	30	1000	0	95.2	75-125	0			
Ethylbenzene	992	30	1000	0	99.2	75-125	0			
m,p-Xylene	2021	60	2000	0	101	80-125	0			
o-Xylene	982	30	1000	0	98.2	75-125	0			
Toluene	998.5	30	1000	0	99.8	70-125	0			
Xylenes, Total	3003	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	948.5	0	1000	0	94.8	70-130	0			
Surr: 4-Bromofluorobenzene	966.5	0	1000	0	96.6	70-130	0			
Surr: Dibromofluoromethane	983	0	1000	0	98.3	70-130	0			
Surr: Toluene-d8	1018	0	1000	0	102	70-130	0			

LCS		Sample ID: LCS-42332-42332				Units: µg/Kg		Analysis Date: 7/17/2012 12:03 PM		
Client ID:		Run ID: VMS9_120716B				SeqNo: 2028435		Prep Date: 7/16/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	892	30	1000	0	89.2	75-125	0			
Ethylbenzene	1047	30	1000	0	105	75-125	0			
m,p-Xylene	2106	60	2000	0	105	80-125	0			
o-Xylene	1040	30	1000	0	104	75-125	0			
Toluene	1088	30	1000	0	109	70-125	0			
Xylenes, Total	3146	90	3000	0	105	75-125	0			
Surr: 1,2-Dichloroethane-d4	894.5	0	1000	0	89.4	70-130	0			
Surr: 4-Bromofluorobenzene	1011	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	919	0	1000	0	91.9	70-130	0			
Surr: Toluene-d8	1131	0	1000	0	113	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42332** Instrument ID **VMS9** Method: **SW8260**

LCS Sample ID: LCS-42332-42332				Units: µg/Kg		Analysis Date: 7/17/2012 10:46 PM				
Client ID:		Run ID: VMS7_120717B		SeqNo: 2029319		Prep Date: 7/16/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1008	30	1000	0	101	75-125	0			
Ethylbenzene	1020	30	1000	0	102	75-125	0			
m,p-Xylene	2019	60	2000	0	101	80-125	0			
o-Xylene	1000	30	1000	0	100	75-125	0			
Toluene	1022	30	1000	0	102	70-125	0			
Xylenes, Total	3020	90	3000	0	101	75-125	0			
Surr: 1,2-Dichloroethane-d4	971.5	0	1000	0	97.2	70-130	0			
Surr: 4-Bromofluorobenzene	934.5	0	1000	0	93.4	70-130	0			
Surr: Dibromofluoromethane	980.5	0	1000	0	98	70-130	0			
Surr: Toluene-d8	979	0	1000	0	97.9	70-130	0			

LCS Sample ID: LCS-42332-42332				Units: µg/Kg		Analysis Date: 7/20/2012 03:10 AM				
Client ID:		Run ID: VMS6_120719B		SeqNo: 2031716		Prep Date: 7/16/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	937	30	1000	0	93.7	75-125	0			
Ethylbenzene	983.5	30	1000	0	98.4	75-125	0			
m,p-Xylene	1994	60	2000	0	99.7	80-125	0			
o-Xylene	988.5	30	1000	0	98.8	75-125	0			
Toluene	980.5	30	1000	0	98	70-125	0			
Xylenes, Total	2983	90	3000	0	99.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	991	0	1000	0	99.1	70-130	0			
Surr: 4-Bromofluorobenzene	1038	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1028	0	1000	0	103	70-130	0			
Surr: Toluene-d8	1026	0	1000	0	103	70-130	0			

MS Sample ID: 1207389-01A MS				Units: µg/Kg		Analysis Date: 7/20/2012 12:03 PM				
Client ID: Landfarm		Run ID: VMS6_120719B		SeqNo: 2031720		Prep Date: 7/16/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	911	30	1000	0	91.1	75-125	0			
Ethylbenzene	953	30	1000	0	95.3	75-125	0			
m,p-Xylene	1931	60	2000	0	96.6	80-125	0			
o-Xylene	964	30	1000	0	96.4	75-125	0			
Toluene	950	30	1000	0	95	70-125	0			
Xylenes, Total	2895	90	3000	0	96.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	944.5	0	1000	0	94.4	70-130	0			
Surr: 4-Bromofluorobenzene	1010	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	991.5	0	1000	0	99.2	70-130	0			
Surr: Toluene-d8	1001	0	1000	0	100	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42332** Instrument ID **VMS9** Method: **SW8260**

MSD				Sample ID: 1207389-01A MSD				Units: µg/Kg			Analysis Date: 7/20/2012 12:27 PM		
Client ID: Landfarm				Run ID: VMS6_120719B				SeqNo: 2031721		Prep Date: 7/16/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	914.5	30	1000	0	91.4	75-125	911	0.383	30				
Ethylbenzene	953	30	1000	0	95.3	75-125	953	0	30				
m,p-Xylene	1900	60	2000	0	95	80-125	1931	1.62	30				
o-Xylene	944	30	1000	0	94.4	75-125	964	2.1	30				
Toluene	950.5	30	1000	0	95	70-125	950	0.0526	30				
Xylenes, Total	2844	90	3000	0	94.8	75-125	2895	1.78	30				
Surr: 1,2-Dichloroethane-d4	969	0	1000	0	96.9	70-130	944.5	2.56	30				
Surr: 4-Bromofluorobenzene	1031	0	1000	0	103	70-130	1010	2.06	30				
Surr: Dibromofluoromethane	1024	0	1000	0	102	70-130	991.5	3.18	30				
Surr: Toluene-d8	1034	0	1000	0	103	70-130	1001	3.29	30				

The following samples were analyzed in this batch: | 1207389-01A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **42397** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-42397-42397				Units: mg/Kg		Analysis Date: 7/18/2012 11:00 AM		
Client ID:		Run ID: WETCHEM_120718G				SeqNo: 2029403		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-42397-42397				Units: mg/Kg		Analysis Date: 7/18/2012 11:00 AM		
Client ID:		Run ID: WETCHEM_120718G				SeqNo: 2029402		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.908 0.50 1.992 0 95.8 75-110 0

MS		Sample ID: 1207354-03B MS				Units: mg/Kg		Analysis Date: 7/18/2012 11:00 AM		
Client ID:		Run ID: WETCHEM_120718G				SeqNo: 2029398		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.689 0.49 1.969 0 35 60-130 0 S

MSD		Sample ID: 1207354-03B MSD				Units: mg/Kg		Analysis Date: 7/18/2012 11:00 AM		
Client ID:		Run ID: WETCHEM_120718G				SeqNo: 2029399		Prep Date: 7/17/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.5952 0.50 1.984 0 30 60-130 0.689 14.6 30 S

The following samples were analyzed in this batch:

1207389-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **R107276** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-R107276-R107276					Units: s.u.			Analysis Date: 7/16/2012 11:00 AM		
Client ID:				Run ID: WETCHEM_120716E				SeqNo: 2027348			Prep Date:			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		4.5	0	4.4	0	102	90-110	0							

DUP		Sample ID: 1207383-01A DUP				Units: s.u.		Analysis Date: 7/16/2012 11:00 AM		
Client ID:		Run ID: WETCHEM_120716E		SeqNo: 2027350		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.76	0	0	0	0	0-0	7.76	0	20	

The following samples were analyzed in this batch:

1207389-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1207389
Project: WPX TR 43-32 7/12/12

QC BATCH REPORT

Batch ID: **R107326** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R107326					Units: % of sample			Analysis Date: 7/16/2012 03:56 PM		
Client ID:		Run ID: MOIST_120716C					SeqNo: 2028193		Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

LCS		Sample ID: LCS-R107326					Units: % of sample		Analysis Date: 7/16/2012 03:56 PM		
Client ID:			Run ID: MOIST_120716C			SeqNo: 2028191		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1207400-01BDUP					Units: % of sample		Analysis Date: 7/16/2012 03:56 PM		
Client ID:			Run ID: MOIST_120716C			SeqNo: 2028178		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 13.86 0.050 0 0 0 0-0 14.04 1.29 20

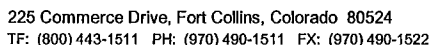
DUP		Sample ID: 1207400-03BDUP				Units: % of sample		Analysis Date: 7/16/2012 03:56 PM		
Client ID:		Run ID: MOIST_120716C			SeqNo: 2028181		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 9.21 0.050 0 0 0 0-0 9.24 0.325 20

The following samples were analyzed in this batch:



1207389-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



1207389

Form 202r8

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Casey Richardson	7/13/2012	1700
RECEIVED BY		MIKE ARNOLD	7/14/12	1030
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



Environmental

Subcontractor:

A & L Great Lakes Agricultural Lab

3505 Conestoga Dr

TEL: (260) 483-4759

FAX: (260) 483-5274

Ft. Wayne, IN 46808

Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: 16-Jul-12

COC ID: 3755

Due D 20-Jul-12

Salesperson **Bruce Schlatter**

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	1207389	A	Subcontracted Analyses (SUBCONTRACT) <i>SAR-EC</i>										
Work Order		Project Number		B											
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C											
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D											
Address	3352 128th Avenue	Address	3352 128th Avenue	E											
				F											
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G											
Phone	(616) 399-6070	Phone	(616) 399-6070	H											
Fax	(616) 399-6185	Fax	(616) 399-6185	I											
eMail Address	ann.preston@alsglobal.com	eMail CC		J											
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J	
1207389-01C	Landfarm	Soil	12/Jul/2012 9:54	(1) MISC	X										

Comments:

Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by:

Date/Time

Received by:

Date/Time

Cooler IDs

Report/QC Level

Std

Relinquished by:

Date/Time

Received by:

Date/Time

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 14-Jul-12 10:30

Work Order: 1207389

Received by: MA

Checklist completed by Diane Shaw 16-Jul-12
eSignature Date

Reviewed by: Ann Preston 16-Jul-12
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>7/16/2012 8:37:40 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

CUSTODY SEAL

DATE 7.13.12

SIGNATURE *Catch*Daily Environmental Containers
800-255-3950 • 304-255-1212FedEx
ExpressNEW Package
US AirbillFedEx
Tracking
Number

8001 2142 0462

0200

Copy

1 From [REDACTED]
Date 7.13.12
Sender's Name ARY RICHARDSON Phone 470 242-3271
Company HCSI
Address 2385 [REDACTED]
City GRAND JCT State CO ZIP 81505

2 Your Internal Billing Reference

3 To: Recipient's Name SAMPLE RECEIVING Phone 616 219-6070
Company ALS GROUP
Address 2382 12th AVE
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address [REDACTED]
Use this one for the HOLD location address or for continuation of your shipping address.
City WILLIAM State MI ZIP 49424

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.
HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

Package size to 150 lbs.
For packages over 150 lbs., use the new
FedEx Express Mailbox US Adult.

06 ☐ FedEx First Overnight
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY delivery is selected.

03 ☒ FedEx Priority Overnight
Next business morning. Friday shipments will be
delivered on Monday unless SATURDAY delivery
is selected.

05 ☐ FedEx Standard Overnight
Next business afternoon.
Saturday Delivery NOT available.

491 ☐ NEW FedEx 2Day AM
Second business morning.
Saturday Delivery NOT available.

03 ☐ FedEx 2Day
Second business afternoon. This only applies if
will be delivered on Monday unless SATURDAY
Delivery is selected.

20 ☐ FedEx Express Saver
Third business day.
Saturday Delivery NOT available.

5 Packaging

Declared value limit \$500

06 ☐ FedEx Envelope 02 ☐ FedEx Pak 03 ☐ FedEx Box 04 ☐ FedEx Tube 07 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☒ SATURDAY DELIVERY

☒ No Signature Required
Package must be sealed and
labeled with a restricted delivery.

10 ☐ Direct Signature
Someone at the point of delivery
must sign for delivery. Fee applies.

34 ☐ Indirect Signature
If no one is available at the point of
delivery, someone at a registered
address may sign for delivery. For
registered deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes
If yes, please attach
dangerous goods label.

☐ Shipper's Declaration 06 ☐ Dry Ice
Dry Ice: 1000 lbs.

Dangerous goods labels are required on all dangerous goods shipped in FedEx packaging
or placed on FedEx containers or equipment.

Cargo Aircraft Only

7 Payment Bill to

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip.
Acct. No.

1 ☐ Sender
Acct. Pay Section
1 will bill.

2 ☒ Recipient

3 ☐ Third Party

4 ☐ Credit Card

5 ☐ Cash/Check

Total Packages 31 Total Weight 31 lbs.

Credit Card Auth.

Our rate is based on SIF. Please declare a higher value. See the current FedEx Service Guide for details.

612

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8001 2142 0462

Facility Name: TR 43-32-597
Remediation: 5948
Facility ID: 324411

Name of Operator: WPX Energy Rocky Mountain, LLC
Latitude: 39.568589 Longitude -108.293951
Location (QtrQty, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6th PM

COGCC Operator # 96850
County: Garfield

APPENDIX 4: SUNDRY NOTICE FORM 4 FOR BACKGROUND ARSENIC CONSIDERATIONS

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 96850	4. Contact Name Karolina Blaney	Complete the Attachment Checklist OP OGCC
2. Name of Operator: WPX Energy Rocky Mountain	Phone: 970-683-2295	
3. Address: 1058 County Road 215	Fax: 970-285-9573	
City: Parachute State: CO Zip: 81635		
5. API Number 05-045-14112	OGCC Facility ID Number 324411	Survey Plat
6. Well/Facility Name: Chevron TR 43-32-597	7. Well/Facility Number 43-32-597	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6 PM		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Trail Ridge	Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number: _____		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer _____	
Latitude _____	Distance to nearest property line _____ Distance to nearest bldg, public rd, utility or RR _____
Longitude _____	Distance to nearest lease line _____ Is location in a High Density Area (rule 603b)? Yes/No <input type="checkbox"/>
Ground Elevation _____	Distance to nearest well same formation _____ Surface owner consultation date: _____
GPS DATA:	
Date of Measurement _____ PDOP Reading _____ Instrument Operator's Name _____	
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation _____ Formation Code _____ Spacing order number _____ Unit Acreage _____ Unit configuration _____	Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME NUMBER
Effective Date: _____	From: _____
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To: _____
	Effective Date: _____
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned: _____
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection: _____	MIT required if shut in longer than two years. Date of last MIT _____
<input type="checkbox"/> SPUD DATE: _____	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries	
Method used _____ Cementing tool setting/perf depth _____ Cement volume _____ Cement top _____ Cement bottom _____ Date _____	
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately _____ <input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done	
Approximate Start Date: _____	Date Work Completed: _____	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Background	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Karolina Blaney Date: 8/21/2012 Email: Karolina.Blaney@williams.com
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | |
|--|---------------------------------|
| 1. OGCC Operator Number: 96850 | API Number: N/A |
| 2. Name of Operator: WPX Energy Rocky Mountain | OGCC Facility ID # 324411 |
| 3. Well/Facility Name: Chevron TR 43-32-597 | Well/Facility Number: 43-32-597 |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESE, Sec 32, T5S, R97W, 6th PM | |

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

This COGCC Form 4 is being submitted as a request to consider the background concentration levels for arsenic at the Chevron TR 43-32-597 well pad relative to the clouse of the reserve and completions pit at the subject facility in accordance with footnote 1 to the COGCC Table 9101-1.

The request is based on the analytical results below (see attached analytical)

Grab samples were collected from the lowest point of the pit bottom, approximately 20' to 20.6' below pad grade within the production pit.

Pit Bottom - 9.9 mg/kg

Three (3) grab samples were collected from nearby non-impacted, native soil from surface to 6" below to establish the background arsenic concentrations.

BKGD 1 - 8.5 mg/kg

BKGD 2 - 9.7 mg/kg

BKGD 3 - 5.9 mg/kg

WPX is requesting this approval in order to proceed with closure and reclamation of the production pit on the TR 43-32-597 well pad.