



12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

Chris Hines
Hunter Ridge Energy Services, LLC- CO
143 Diamond Avenue
Parachute, CO 81635

Report Summary

Wednesday September 11, 2013

Report Number: L654394


Samples Received: 08/28/13

Client Project: J25 CDP

Description: J25 CDP Spill

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Chris Hines
 Hunter Ridge Energy Services, LLC-
 143 Diamond Avenue
 Parachute, CO 81635

September 11, 2013

Date Received : August 28, 2013
 Description : J25 CDP Spill
 Sample ID : 082713-J25 CDP (SPILL POR) 6IN
 Collected By : Matt Kasten
 Collection Date : 08/27/13 12:55

ESC Sample # : L654394-01
 Site ID : J25 CDP
 Project # : J25 CDP

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	09/04/13	1
Chromium,Trivalent	48.	2.0	mg/kg	Calc.	09/11/13	1
ORP	220		mV	2580 B-2011	09/05/13	1
pH	7.6		su	9045D	09/03/13	1
Sodium Adsorption Ratio	2.9			Calc.	09/07/13	1
Specific Conductance	710		umhos/cm	9050AMod	08/30/13	1
Mercury	BDL	0.020	mg/kg	7471	09/03/13	1
Arsenic	7.4	1.0	mg/kg	6010B	09/03/13	1
Barium	700	0.25	mg/kg	6010B	09/03/13	1
Cadmium	BDL	0.25	mg/kg	6010B	09/07/13	1
Chromium	48.	0.50	mg/kg	6010B	09/03/13	1
Copper	11.	1.0	mg/kg	6010B	09/03/13	1
Lead	8.0	0.25	mg/kg	6010B	09/07/13	1
Nickel	19.	1.0	mg/kg	6010B	09/03/13	1
Selenium	BDL	1.0	mg/kg	6010B	09/03/13	1
Silver	BDL	0.50	mg/kg	6010B	09/03/13	1
Zinc	45.	1.5	mg/kg	6010B	09/03/13	1
Benzene	BDL	0.0025	mg/kg	8021/8015	08/29/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/29/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/29/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/29/13	5
TPH (GC/FID) Low Fraction	0.53	0.50	mg/kg	GRO	08/29/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.2		% Rec.	8021/8015	08/29/13	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	08/29/13	5
TPH (GC/FID) High Fraction	9.6	4.0	mg/kg	3546/DRO	09/01/13	1
Surrogate recovery(%)						
o-Terphenyl	67.7		% Rec.	3546/DRO	09/01/13	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L654394-01 (PH) - 7.6@21.4c



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Collected By : Matt Kasten
Collection Date : 08/27/13 12:55

ESC Sample # : L654394-01
Site ID : J25 CDP
Project # : J25 CDP

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
Surrogate Recovery						
Nitrobenzene-d5	99.1		% Rec.	8270C-SIM	09/06/13	1
2-Fluorobiphenyl	89.2		% Rec.	8270C-SIM	09/06/13	1
p-Terphenyl-d14	92.4		% Rec.	8270C-SIM	09/06/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 09/11/13 11:36 Printed: 09/11/13 11:43
L654394-01 (PH) - 7.6@21.4c



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 Parachute, CO 81635

September 11, 2013

Date Received : August 28, 2013
 Description : J25 CDP Spill
 Sample ID : 082713-J25 CDP (SPILL MID) 6IN
 Collected By : Matt Kasten
 Collection Date : 08/27/13 13:00

ESC Sample # : L654394-02
 Site ID : J25 CDP
 Project # : J25 CDP

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	08/29/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/29/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/29/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/29/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/29/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8021/8015	08/29/13	5
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	08/29/13	5
TPH (GC/FID) High Fraction	8.0	4.0	mg/kg	3546/DRO	09/04/13	1
Surrogate recovery(%)						
o-Terphenyl	79.2		% Rec.	3546/DRO	09/04/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
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September 11, 2013

Date Received : August 28, 2013
 Description : J25 CDP Spill
 Sample ID : 082713-J25 CDP (SPILL W) 6IN
 Collected By : Matt Kasten
 Collection Date : 08/27/13 13:05

ESC Sample # : L654394-03
 Site ID : J25 CDP
 Project # : J25 CDP

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	09/04/13	1
Chromium,Trivalent	39.	2.0	mg/kg	Calc.	09/11/13	1
ORP	220		mV	2580 B-2011	09/05/13	1
pH	8.3		su	9045D	09/03/13	1
Sodium Adsorption Ratio	3.3			Calc.	09/07/13	1
Specific Conductance	300		umhos/cm	9050AMod	08/30/13	1
Mercury	BDL	0.020	mg/kg	7471	09/03/13	1
Arsenic	11.	1.0	mg/kg	6010B	09/03/13	1
Barium	510	0.25	mg/kg	6010B	09/03/13	1
Cadmium	0.27	0.25	mg/kg	6010B	09/07/13	1
Chromium	39.	0.50	mg/kg	6010B	09/03/13	1
Copper	16.	1.0	mg/kg	6010B	09/03/13	1
Lead	8.5	0.25	mg/kg	6010B	09/07/13	1
Nickel	18.	1.0	mg/kg	6010B	09/03/13	1
Selenium	BDL	1.0	mg/kg	6010B	09/03/13	1
Silver	BDL	0.50	mg/kg	6010B	09/03/13	1
Zinc	48.	1.5	mg/kg	6010B	09/03/13	1
Benzene	BDL	0.0025	mg/kg	8021/8015	08/30/13	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/30/13	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/30/13	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/30/13	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/30/13	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.8		% Rec.	8021/8015	08/30/13	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	08/30/13	5
TPH (GC/FID) High Fraction	6.9	4.0	mg/kg	3546/DRO	09/04/13	1
Surrogate recovery(%)						
o-Terphenyl	82.0		% Rec.	3546/DRO	09/04/13	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L654394-03 (PH) - 8.3@21.2c



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 Collection Date : 08/27/13 13:05

ESC Sample # : L654394-03
 Site ID : J25 CDP
 Project # : J25 CDP

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Naphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
Phenanthrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	09/06/13	1
1-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
2-Methylnaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	09/06/13	1
Surrogate Recovery						
Nitrobenzene-d5	97.8		% Rec.	8270C-SIM	09/06/13	1
2-Fluorobiphenyl	87.8		% Rec.	8270C-SIM	09/06/13	1
p-Terphenyl-d14	96.4		% Rec.	8270C-SIM	09/06/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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 L654394-03 (PH) - 8.3@21.2c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L654394-03	WG680162	SAMP	Cadmium	R2810368	P1
	WG680162	SAMP	Lead	R2810368	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/11/13 at 11:43:35

TSR Signing Reports: 358
RX - Priority Rush

Sample: L654394-01 Account: HUNTERCO Received: 08/28/13 09:30 Due Date: 09/10/13 00:00 RPT Date: 09/11/13 11:36

Sample: L654394-02 Account: HUNTERCO Received: 08/28/13 09:30 Due Date: 09/05/13 00:00 RPT Date: 09/11/13 11:36

Sample: L654394-03 Account: HUNTERCO Received: 08/28/13 09:30 Due Date: 09/10/13 00:00 RPT Date: 09/11/13 11:36