



Midwest Laboratories  
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[www.midwestlabs.com](http://www.midwestlabs.com)

28 April 2017

Work Order: 1525789

JASON HAACK  
DIVERSIFIED ENERGY LLC - 41146  
19501 E MAIN STREET STE 200  
PARKER, CO 80138  
RE: DRO GRO Colorado

Enclosed are the results of analyses for samples received by the laboratory on 2017-04-14 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Heather Ramig". The signature is written in a cursive, flowing style.

Heather Ramig  
Project Manager  
[heather@midwestlabs.com](mailto:heather@midwestlabs.com)  
402-829-9891



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DIVERSIFIED ENERGY LLC - 41146  
19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2.8	1525789-01	Solid	2017-04-12 14:00	2017-04-14 13:30
2.9	1525789-02	Solid	2017-04-12 14:00	2017-04-14 13:30
2.11	1525789-03	Solid	2017-04-12 14:00	2017-04-14 13:30
2.5	1525789-04	Solid	2017-04-12 14:00	2017-04-14 13:30

#### Containers used for the following Analyses:

1525789-01 A:	EPA 8260
1525789-02 A:	DRO (Diesel Range Organics), GRO (Gasoline Range Organics)
1525789-03 A:	DRO (Diesel Range Organics), GRO (Gasoline Range Organics)
1525789-04 A:	DRO (Diesel Range Organics), GRO (Gasoline Range Organics)



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PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

Reported:  
2017-04-28 15:57

Sample ID: 2.8  
Laboratory ID: 1525789-01  
Sampled Date/Time: 2017-04-12 14:00

Analyte	Dry Weight Result	Reporting Limit	Units	As Received Result	Method	Prepared	Analyzed	Reviewer	(Container) / Notes
<b>Volatile Organic Compounds</b>									
Dichlorodifluoromethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Chloromethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Vinyl chloride	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Bromomethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Chloroethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Trichlorofluoromethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Acrolein	<	10.0	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Ethanol	<	500	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Acetone	<	10.0	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Ethyl Ether	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,1-Dichloroethene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Iodomethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Acrylonitrile	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Methylene Chloride	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,1,2-Trichloro-1,1,2-trifluoro ethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Carbon disulfide	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
trans-1,2-Dichloroethene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Methyl tert-Butyl Ether	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,1-Dichloroethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Vinyl acetate	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Chloroprene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
2-Butanone	<	10.0	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
cis-1,2-Dichloroethene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Bromochloromethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Chloroform	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2-Dichloroethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,1,1-Trichloroethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Carbon Tetrachloride	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Benzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Dibromomethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2-Dichloropropane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Trichloroethene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Bromodichloromethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
2-Chloroethyl vinyl ether	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
cis-1,3-Dichloropropene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
4-Methyl-2-pentanone	<	10.0	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
trans-1,3-Dichloropropene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,1,2-Trichloroethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Toluene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Ethyl Methacrylate	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Dibromochloromethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
2-Hexanone	<	10.0	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2-Dibromoethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Tetrachloroethene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)

Work Order: 1525789

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19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

Reported:  
2017-04-28 15:57

Sample ID: 2.8  
Laboratory ID: 1525789-01  
Sampled Date/Time: 2017-04-12 14:00

Analyte	Dry Weight Result	Reporting Limit	Units	As Received Result	Method	Prepared	Analyzed	Reviewer	(Container) / Notes
<b>Volatile Organic Compounds</b>									
1,1,1,2-Tetrachloroethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Chlorobenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Ethylbenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
m,p-Xylenes	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Bromoform	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
cis-1,4-Dichloro-2-butene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Styrene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,1,2,2-Tetrachloroethane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
o-Xylene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2,3-Trichloropropane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
trans-1,4-Dichloro-2-butene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Isopropylbenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Bromobenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
n-Propyl Benzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
2-Chlorotoluene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
4-Chlorotoluene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,3,5-Trimethylbenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
tert-Butylbenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2,4-Trimethylbenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
sec-Butylbenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,3-Dichlorobenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,4-Dichlorobenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
p-Isopropyltoluene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2-Dichlorobenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
n-Butyl Benzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2-Dibromo-3-Chloropropane	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2,4-Trichlorobenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Naphthalene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Hexachlorobutadiene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
1,2,3-Trichlorobenzene	<	0.5	ug/g	< ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Total Xylenes	0.0		ug/g	0.0 ug/g	EPA 8260	2017-04-26	2017-04-26	amw7	(A)
Surrogate: Toluene-d8		92 %		78.9-120	EPA 8260	2017-04-26	2017-04-26		(A)
Surrogate: Bromofluorobenzene		82 %		71.8-120	EPA 8260	2017-04-26	2017-04-26		(A)
Surrogate: 1,2-Dichlorobenzene-d4		84 %		80-120	EPA 8260	2017-04-26	2017-04-26		(A)



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19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

**Sample ID: 2.9**  
**Laboratory ID: 1525789-02**  
**Sampled Date/Time: 2017-04-12 14:00**

Analyte	Dry Weight Result	Reporting Limit	Units	As Received Result	Method	Prepared	Analyzed	Reviewer	(Container) / Notes
<b>Petroleum Contamination</b>									
Diesel range organics	77	17	mg/kg	77 mg/kg	DRO (Diesel Range Organics)	2017-04-20	2017-04-27	nmh9	(A)
Surrogate: Nitrobenzene-d5		0.3 %	64.9-120		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)/ SL
Surrogate: 2-Fluorobiphenyl		12 %	61-120.9		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)/ SH
Surrogate: Terphenyl-d14		89 %	48-131.9		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)
GRO	<	0.500	ug/g	< ug/g	GRO (Gasoline Range Organics)	2017-04-21	2017-04-21	amw7	(A)
Surrogate: Bromofluorobenzene		91 %	13.6-189		GRO (Gasoline Range Organics)	2017-04-21	2017-04-21		(A)



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PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

**Sample ID: 2.11**  
**Laboratory ID: 1525789-03**  
**Sampled Date/Time: 2017-04-12 14:00**

Analyte	Dry Weight Result	Reporting Limit	Units	As Received Result	Method	Prepared	Analyzed	Reviewer	(Container) / Notes
<b>Petroleum Contamination</b>									
Diesel range organics	1830	166	mg/kg	1830	mg/kg DRO (Diesel Range Organics)	2017-04-20	2017-04-27	nmh9	(A)
Surrogate: Nitrobenzene-d5		89 %	64.9-120		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)
Surrogate: 2-Fluorobiphenyl		100 %	61-120.9		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)
Surrogate: Terphenyl-d14		262 %	48-131.9		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)
GRO	<	0.500	ug/g	<	ug/g GRO (Gasoline Range Organics)	2017-04-21	2017-04-21	amw7	(A)
Surrogate: Bromofluorobenzene		89 %	13.6-189		GRO (Gasoline Range Organics)	2017-04-21	2017-04-21		(A)



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Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

**Sample ID: 2.5**  
**Laboratory ID: 1525789-04**  
**Sampled Date/Time: 2017-04-12 14:00**

Analyte	Dry Weight Result	Reporting Limit	Units	As Received Result	Method	Prepared	Analyzed	Reviewer	(Container) / Notes
<b>Petroleum Contamination</b>									
Diesel range organics	<	166	mg/kg	< mg/kg	DRO (Diesel Range Organics)	2017-04-20	2017-04-27	nmh9	(A)
Surrogate: Nitrobenzene-d5		89 %	64.9-120		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)
Surrogate: 2-Fluorobiphenyl		4 %	61-120.9		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)
Surrogate: Terphenyl-d14		74 %	48-131.9		DRO (Diesel Range Organics)	2017-04-20	2017-04-27		(A)
GRO	<	0.500	ug/g	< ug/g	GRO (Gasoline Range Organics)	2017-04-21	2017-04-21	amw7	(A)
Surrogate: Bromofluorobenzene		89 %	13.6-189		GRO (Gasoline Range Organics)	2017-04-21	2017-04-21		(A)



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**Reported:**  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B702955

#### Blank (B702955-BLK1)

Prepared & Analyzed: 2017-04-26

Dichlorodifluoromethane	<	0.5	ug/g
Chloromethane	<	0.5	ug/g
Vinyl chloride	<	0.5	ug/g
Bromomethane	<	0.5	ug/g
Chloroethane	<	0.5	ug/g
Trichlorofluoromethane	<	0.5	ug/g
Ethanol	<	500	ug/g
Acrolein	<	10.0	ug/g
Acetone	<	10.0	ug/g
Ethyl Ether	<	0.5	ug/g
1,1-Dichloroethene	<	0.5	ug/g
Iodomethane	<	0.5	ug/g
Acrylonitrile	<	0.5	ug/g
Methylene Chloride	<	0.5	ug/g
1,1,2-Trichloro-1,1,2-trifluoroethane	<	0.5	ug/g
Carbon disulfide	<	0.5	ug/g
trans-1,2-Dichloroethene	<	0.5	ug/g
Methyl tert-Butyl Ether	<	0.5	ug/g
1,1-Dichloroethane	<	0.5	ug/g
Vinyl acetate	<	0.5	ug/g
Chloroprene	<	0.5	ug/g
2-Butanone	<	10.0	ug/g
cis-1,2-Dichloroethene	<	0.5	ug/g
Bromochloromethane	<	0.5	ug/g
Chloroform	<	0.5	ug/g
1,2-Dichloroethane	<	0.5	ug/g
1,1,1-Trichloroethane	<	0.5	ug/g
Carbon Tetrachloride	<	0.5	ug/g
Benzene	<	0.5	ug/g
Dibromomethane	<	0.5	ug/g
1,2-Dichloropropane	<	0.5	ug/g
Trichloroethene	<	0.5	ug/g
Bromodichloromethane	<	0.5	ug/g
2-Chloroethyl vinyl ether	<	0.5	ug/g
cis-1,3-Dichloropropene	<	0.5	ug/g
4-Methyl-2-pentanone	<	10.0	ug/g
trans-1,3-Dichloropropene	<	0.5	ug/g
1,1,2-Trichloroethane	<	0.5	ug/g
Toluene	<	0.5	ug/g
Ethyl Methacrylate	<	0.5	ug/g
Dibromochloromethane	<	0.5	ug/g

Work Order: 1525789

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Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B702955</b>										
<b>Blank (B702955-BLK1)</b>										
Prepared & Analyzed: 2017-04-26										
2-Hexanone	<	10.0	ug/g							
1,2-Dibromoethane	<	0.5	ug/g							
Tetrachloroethene	<	0.5	ug/g							
1,1,1,2-Tetrachloroethane	<	0.5	ug/g							
Chlorobenzene	<	0.5	ug/g							
Ethylbenzene	<	0.5	ug/g							
m,p-Xylenes	<	0.5	ug/g							
Bromoform	<	0.5	ug/g							
cis-1,4-Dichloro-2-butene	<	0.5	ug/g							
Styrene	<	0.5	ug/g							
1,1,2,2-Tetrachloroethane	<	0.5	ug/g							
o-Xylene	<	0.5	ug/g							
1,2,3-Trichloropropane	<	0.5	ug/g							
trans-1,4-Dichloro-2-butene	<	0.5	ug/g							
Isopropylbenzene	<	0.5	ug/g							
Bromobenzene	<	0.5	ug/g							
n-Propyl Benzene	<	0.5	ug/g							
2-Chlorotoluene	<	0.5	ug/g							
4-Chlorotoluene	<	0.5	ug/g							
1,3,5-Trimethylbenzene	<	0.5	ug/g							
tert-Butylbenzene	<	0.5	ug/g							
1,2,4-Trimethylbenzene	<	0.5	ug/g							
sec-Butylbenzene	<	0.5	ug/g							
1,3-Dichlorobenzene	<	0.5	ug/g							
1,4-Dichlorobenzene	<	0.5	ug/g							
p-Isopropyltoluene	<	0.5	ug/g							
1,2-Dichlorobenzene	<	0.5	ug/g							
n-Butyl Benzene	<	0.5	ug/g							
1,2-Dibromo-3-Chloropropane	<	0.5	ug/g							
1,2,4-Trichlorobenzene	<	0.5	ug/g							
Naphthalene	<	0.5	ug/g							
Hexachlorobutadiene	<	0.5	ug/g							
1,2,3-Trichlorobenzene	<	0.5	ug/g							
Total Xylenes	0.0		ug/g							
Surrogate: Toluene-d8	0.242		ug/g	0.250		97	78.9-120			
Surrogate: Bromofluorobenzene	0.212		ug/g	0.250		85	71.8-120			
Surrogate: 1,2-Dichlorobenzene-d4	0.234		ug/g	0.250		93	80-120			



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DIVERSIFIED ENERGY LLC - 41146  
19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B702955

#### LCS (B702955-BS1)

Prepared & Analyzed: 2017-04-26

Dichlorodifluoromethane	1.3	0.5	ug/g	1.00		126	36-120			
Chloromethane	1.0	0.5	ug/g	1.00		98	43.5-120			
Vinyl chloride	1.2	0.5	ug/g	1.00		115	12.6-120			
Bromomethane	0.7	0.5	ug/g	1.00		75	8.36-120			
Chloroethane	1.0	0.5	ug/g	1.00		101	19.7-120			
Trichlorofluoromethane	1.1	0.5	ug/g	1.00		114	57.2-120			
Acrolein	1.9	10.0	ug/g	2.00		94	17.3-134			
Acetone	1.8	10.0	ug/g	2.00		92	35.3-120			
Ethyl Ether	1.0	0.5	ug/g	1.00		96	39.2-120			
1,1-Dichloroethene	1.1	0.5	ug/g	1.00		115	60.8-120			
Iodomethane	0.8	0.5	ug/g	1.00		79	37.7-120			
Acrylonitrile	1.0	0.5	ug/g	1.00		95	39.4-120			
Methylene Chloride	1.0	0.5	ug/g	1.00		99	55.9-120			
1,1,2-Trichloro-1,1,2-trifluoroethane	1.3	0.5	ug/g	1.00		128	57.5-120			
Carbon disulfide	1.1	0.5	ug/g	1.00		112	55.1-120			
trans-1,2-Dichloroethene	1.1	0.5	ug/g	1.00		107	58.3-120			
Methyl tert-Butyl Ether	1.0	0.5	ug/g	1.00		96	40.2-120			
1,1-Dichloroethane	1.0	0.5	ug/g	1.00		103	54.5-120			
Vinyl acetate	1.0	0.5	ug/g	1.00		102	13.5-120			
Chloroprene	1.1	0.5	ug/g	1.00		115	64.1-120			
2-Butanone	1.9	10.0	ug/g	2.00		96	38.2-120			
cis-1,2-Dichloroethene	1.0	0.5	ug/g	1.00		102	51.5-120			
Bromochloromethane	1.0	0.5	ug/g	1.00		101	46.8-120			
Chloroform	1.0	0.5	ug/g	1.00		101	54.4-120			
1,2-Dichloroethane	1.0	0.5	ug/g	1.00		99	46.8-120			
1,1,1-Trichloroethane	1.1	0.5	ug/g	1.00		112	63.6-120			
Carbon Tetrachloride	1.2	0.5	ug/g	1.00		121	62.4-120			
Benzene	1.0	0.5	ug/g	1.00		104	54.3-120			
Dibromomethane	1.0	0.5	ug/g	1.00		102	56.2-120			
1,2-Dichloropropane	1.0	0.5	ug/g	1.00		102	58.5-120			
Trichloroethene	1.1	0.5	ug/g	1.00		110	68.8-120			
Bromodichloromethane	1.0	0.5	ug/g	1.00		102	57.1-120			
2-Chloroethyl vinyl ether	1.1	0.5	ug/g	1.00		110	32.1-120			
cis-1,3-Dichloropropene	1.1	0.5	ug/g	1.00		106	54.1-120			
4-Methyl-2-pentanone	1.9	10.0	ug/g	2.00		96	36.8-120			
trans-1,3-Dichloropropene	1.1	0.5	ug/g	1.00		106	51-120			
1,1,2-Trichloroethane	1.0	0.5	ug/g	1.00		104	51.6-120			
Toluene	1.1	0.5	ug/g	1.00		108	66.4-120			
Ethyl Methacrylate	1.1	0.5	ug/g	1.00		107	42.1-120			
Dibromochloromethane	1.1	0.5	ug/g	1.00		105	52.4-120			
2-Hexanone	2.0	10.0	ug/g	2.00		99	30.2-120			

Work Order: 1525789

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19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B702955</b>										
<b>LCS (B702955-BS1)</b>										
Prepared & Analyzed: 2017-04-26										
1,2-Dibromoethane	1.1	0.5	ug/g	1.00		106	50.2-120			
Tetrachloroethene	1.2	0.5	ug/g	1.00		117	62.2-122			
1,1,1,2-Tetrachloroethane	1.1	0.5	ug/g	1.00		106	56.3-120			
Chlorobenzene	1.1	0.5	ug/g	1.00		107	64.9-120			
Ethylbenzene	1.1	0.5	ug/g	1.00		112	72-120			
m,p-Xylenes	2.3	0.5	ug/g	2.00		114	72.4-120			
Bromoform	1.1	0.5	ug/g	1.00		107	19.1-120			
cis-1,4-Dichloro-2-butene	1.1	0.5	ug/g	1.00		110	51.5-120			
Styrene	1.1	0.5	ug/g	1.00		110	67-120			
1,1,1,2,2-Tetrachloroethane	1.1	0.5	ug/g	1.00		108	51.5-120			
o-Xylene	1.1	0.5	ug/g	1.00		110	70.8-120			
1,2,3-Trichloropropane	1.1	0.5	ug/g	1.00		107	53.2-120			
trans-1,4-Dichloro-2-butene	1.1	0.5	ug/g	1.00		112	48.3-120			
Isopropylbenzene	1.1	0.5	ug/g	1.00		113	76-120			
Bromobenzene	1.1	0.5	ug/g	1.00		109	60.1-120			
n-Propyl Benzene	1.2	0.5	ug/g	1.00		119	78-120			
2-Chlorotoluene	1.1	0.5	ug/g	1.00		113	71.1-120			
4-Chlorotoluene	1.1	0.5	ug/g	1.00		112	68.6-120			
1,3,5-Trimethylbenzene	1.1	0.5	ug/g	1.00		115	75.6-120			
tert-Butylbenzene	1.2	0.5	ug/g	1.00		120	78-120			
1,2,4-Trimethylbenzene	1.1	0.5	ug/g	1.00		114	73.3-120			
sec-Butylbenzene	1.2	0.5	ug/g	1.00		122	76-120			
1,3-Dichlorobenzene	1.1	0.5	ug/g	1.00		115	65.4-120			
1,4-Dichlorobenzene	1.1	0.5	ug/g	1.00		107	74.2-120			
p-Isopropyltoluene	1.1	0.5	ug/g	1.00		115	79.5-120			
1,2-Dichlorobenzene	1.1	0.5	ug/g	1.00		106	70.3-120			
n-Butyl Benzene	1.2	0.5	ug/g	1.00		115	76.3-125			
1,2-Dibromo-3-Chloropropane	1.1	0.5	ug/g	1.00		106	43.7-120			
1,2,4-Trichlorobenzene	1.2	0.5	ug/g	1.00		119	39.7-126			
Naphthalene	1.2	0.5	ug/g	1.00		122	28.2-120			
Hexachlorobutadiene	1.2	0.5	ug/g	1.00		119	59-148			
1,2,3-Trichlorobenzene	1.5	0.5	ug/g	1.00		146	26.3-136			
Surrogate: Toluene-d8	0.244		ug/g	0.250		98	78.9-120			
Surrogate: Bromofluorobenzene	0.244		ug/g	0.250		98	71.8-120			
Surrogate: 1,2-Dichlorobenzene-d4	0.236		ug/g	0.250		94	80-120			



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19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

Reported:  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B702955

#### Matrix Spike (B702955-MS1)

Source: 1526072-06

Prepared & Analyzed: 2017-04-26

Dichlorodifluoromethane	1.2	0.5	ug/g	1.00	<	121	36-120			
Chloromethane	1.1	0.5	ug/g	1.00	<	113	43.5-120			
Vinyl chloride	1.2	0.5	ug/g	1.00	<	125	12.6-120			
Bromomethane	0.9	0.5	ug/g	1.00	<	88	8.36-120			
Chloroethane	1.0	0.5	ug/g	1.00	<	104	19.7-120			
Trichlorofluoromethane	1.2	0.5	ug/g	1.00	<	116	57.2-120			
Acrolein	1.9	10.0	ug/g	2.00	<	94	17.3-134			
Acetone	1.8	10.0	ug/g	2.00	<	91	35.3-120			
Ethyl Ether	1.0	0.5	ug/g	1.00	<	98	39.3-120			
1,1-Dichloroethene	1.2	0.5	ug/g	1.00	<	116	60.8-120			
Iodomethane	0.8	0.5	ug/g	1.00	<	76	37.7-120			
Acrylonitrile	1.0	0.5	ug/g	1.00	<	95	39.4-120			
Methylene Chloride	1.0	0.5	ug/g	1.00	<	101	55.9-120			
1,1,2-Trichloro-1,1,2-trifluoroethane	1.3	0.5	ug/g	1.00	<	126	57.5-120			
Carbon disulfide	1.2	0.5	ug/g	1.00	<	117	55.1-120			
trans-1,2-Dichloroethene	1.1	0.5	ug/g	1.00	<	111	58.3-120			
Methyl tert-Butyl Ether	0.9	0.5	ug/g	1.00	<	93	40.2-120			
1,1-Dichloroethane	1.1	0.5	ug/g	1.00	<	109	54.5-120			
Vinyl acetate	1.0	0.5	ug/g	1.00	<	101	13.5-120			
Chloroprene	1.2	0.5	ug/g	1.00	<	120	64.1-120			
2-Butanone	1.9	10.0	ug/g	2.00	<	95	38.2-120			
cis-1,2-Dichloroethene	1.1	0.5	ug/g	1.00	<	107	51.5-120			
Bromochloromethane	1.0	0.5	ug/g	1.00	<	104	46.8-120			
Chloroform	1.1	0.5	ug/g	1.00	<	106	54.4-120			
1,2-Dichloroethane	1.0	0.5	ug/g	1.00	<	101	46.8-120			
1,1,1-Trichloroethane	1.2	0.5	ug/g	1.00	<	115	63.6-120			
Carbon Tetrachloride	1.2	0.5	ug/g	1.00	<	123	62.4-120			
Benzene	1.1	0.5	ug/g	1.00	<	111	54.3-120			
Dibromomethane	1.0	0.5	ug/g	1.00	<	100	56.2-120			
1,2-Dichloropropane	1.0	0.5	ug/g	1.00	<	104	58.5-120			
Trichloroethene	1.1	0.5	ug/g	1.00	<	111	68.8-120			
Bromodichloromethane	1.0	0.5	ug/g	1.00	<	103	57.1-120			
2-Chloroethyl vinyl ether	1.0	0.5	ug/g	1.00	<	103	32.1-120			
cis-1,3-Dichloropropene	1.0	0.5	ug/g	1.00	<	105	54.1-120			
4-Methyl-2-pentanone	1.8	10.0	ug/g	2.00	<	90	36.8-120			
trans-1,3-Dichloropropene	1.0	0.5	ug/g	1.00	<	103	51-120			
1,1,2-Trichloroethane	1.0	0.5	ug/g	1.00	<	101	51.6-120			
Toluene	1.1	0.5	ug/g	1.00	<	110	66.4-120			
Ethyl Methacrylate	1.0	0.5	ug/g	1.00	<	100	42.1-120			
Dibromochloromethane	1.0	0.5	ug/g	1.00	<	103	52.4-120			
2-Hexanone	1.8	10.0	ug/g	2.00	<	91	30.2-120			

Work Order: 1525789

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DIVERSIFIED ENERGY LLC - 41146  
19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

Reported:  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B702955

##### Matrix Spike (B702955-MS1)

Source: 1526072-06

Prepared & Analyzed: 2017-04-26

1,2-Dibromoethane	1.0	0.5	ug/g	1.00	<	102	50.2-120			
Tetrachloroethene	1.2	0.5	ug/g	1.00	<	116	62.2-122			
1,1,1,2-Tetrachloroethane	1.0	0.5	ug/g	1.00	<	104	56.3-120			
Chlorobenzene	1.1	0.5	ug/g	1.00	<	109	64.9-120			
Ethylbenzene	1.1	0.5	ug/g	1.00	<	114	72-120			
m,p-Xylenes	2.3	0.5	ug/g	2.00	<	116	72.4-120			
Bromoform	1.1	0.5	ug/g	1.00	<	105	49.1-120			
cis-1,4-Dichloro-2-butene	1.0	0.5	ug/g	1.00	<	103	51.5-120			
Styrene	1.1	0.5	ug/g	1.00	<	110	67-120			
1,1,2,2-Tetrachloroethane	1.0	0.5	ug/g	1.00	<	104	51.5-120			
o-Xylene	1.1	0.5	ug/g	1.00	<	113	70.8-120			
1,2,3-Trichloropropane	1.0	0.5	ug/g	1.00	<	101	53.2-120			
trans-1,4-Dichloro-2-butene	1.1	0.5	ug/g	1.00	<	105	48.3-120			
Isopropylbenzene	1.1	0.5	ug/g	1.00	<	114	76-120			
Bromobenzene	1.1	0.5	ug/g	1.00	<	108	60.1-120			
n-Propyl Benzene	1.2	0.5	ug/g	1.00	<	119	78-120			
2-Chlorotoluene	1.1	0.5	ug/g	1.00	<	113	71.1-120			
4-Chlorotoluene	1.1	0.5	ug/g	1.00	<	112	68.6-120			
1,3,5-Trimethylbenzene	1.1	0.5	ug/g	1.00	<	115	75.6-120			
tert-Butylbenzene	1.2	0.5	ug/g	1.00	<	120	78-120			
1,2,4-Trimethylbenzene	1.1	0.5	ug/g	1.00	<	114	73.3-120			
sec-Butylbenzene	1.2	0.5	ug/g	1.00	<	121	76-120			
1,3-Dichlorobenzene	1.1	0.5	ug/g	1.00	<	111	65.4-120			
1,4-Dichlorobenzene	1.1	0.5	ug/g	1.00	<	106	74.2-120			
p-Isopropyltoluene	1.2	0.5	ug/g	1.00	<	116	79.5-120			
1,2-Dichlorobenzene	1.0	0.5	ug/g	1.00	<	103	70.3-120			
n-Butyl Benzene	1.2	0.5	ug/g	1.00	<	116	76.3-125			
1,2-Dibromo-3-Chloropropane	1.0	0.5	ug/g	1.00	<	101	43.7-120			
1,2,4-Trichlorobenzene	1.2	0.5	ug/g	1.00	<	121	39.7-126			
Naphthalene	1.3	0.5	ug/g	1.00	<	128	28.2-123			
Hexachlorobutadiene	1.2	0.5	ug/g	1.00	<	123	59-148			
1,2,3-Trichlorobenzene	1.6	0.5	ug/g	1.00	<	157	26.3-136			
Surrogate: Toluene-d8	0.240		ug/g	0.250		96	78.9-120			
Surrogate: Bromofluorobenzene	0.239		ug/g	0.250		96	71.8-120			
Surrogate: 1,2-Dichlorobenzene-d4	0.224		ug/g	0.250		89	80-120			



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Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B702955

##### Matrix Spike Dup (B702955-MSD1)

Source: 1526072-06

Prepared & Analyzed: 2017-04-26

Dichlorodifluoromethane	1.2	0.5	ug/g	1.00	<	116	36-120	4	20	
Chloromethane	1.0	0.5	ug/g	1.00	<	105	43.5-120	8	20	
Vinyl chloride	1.2	0.5	ug/g	1.00	<	119	12.6-120	5	20	
Bromomethane	0.8	0.5	ug/g	1.00	<	84	8.36-120	5	20	
Chloroethane	1.0	0.5	ug/g	1.00	<	98	19.7-120	6	20	
Trichlorofluoromethane	1.1	0.5	ug/g	1.00	<	112	57.2-120	4	20	
Acrolein	1.8	10.0	ug/g	2.00	<	89	17.3-134	5	20	
Acetone	1.6	10.0	ug/g	2.00	<	81	35.3-120	12	20	
Ethyl Ether	0.9	0.5	ug/g	1.00	<	92	39.3-120	6	20	
1,1-Dichloroethene	1.1	0.5	ug/g	1.00	<	112	60.8-120	4	20	
Iodomethane	0.8	0.5	ug/g	1.00	<	79	37.7-120	4	20	
Acrylonitrile	0.9	0.5	ug/g	1.00	<	89	39.4-120	6	20	
Methylene Chloride	1.0	0.5	ug/g	1.00	<	96	55.9-120	5	20	
1,1,2-Trichloro-1,1,2-trifluoroethane	1.2	0.5	ug/g	1.00	<	121	57.5-120	4	20	
Carbon disulfide	1.1	0.5	ug/g	1.00	<	111	55.1-120	5	20	
trans-1,2-Dichloroethene	1.1	0.5	ug/g	1.00	<	106	58.3-120	4	20	
Methyl tert-Butyl Ether	0.9	0.5	ug/g	1.00	<	91	40.2-120	3	20	
1,1-Dichloroethane	1.0	0.5	ug/g	1.00	<	103	54.5-120	5	20	
Vinyl acetate	1.0	0.5	ug/g	1.00	<	97	13.5-120	3	20	
Chloroprene	1.1	0.5	ug/g	1.00	<	113	64.1-120	6	20	
2-Butanone	1.8	10.0	ug/g	2.00	<	88	38.2-120	8	20	
cis-1,2-Dichloroethene	1.0	0.5	ug/g	1.00	<	102	51.5-120	5	20	
Bromochloromethane	1.0	0.5	ug/g	1.00	<	98	46.8-120	6	20	
Chloroform	1.0	0.5	ug/g	1.00	<	101	54.4-120	5	20	
1,2-Dichloroethane	1.0	0.5	ug/g	1.00	<	95	46.8-120	5	20	
1,1,1-Trichloroethane	1.1	0.5	ug/g	1.00	<	110	63.6-120	5	20	
Carbon Tetrachloride	1.2	0.5	ug/g	1.00	<	118	62.4-120	4	20	
Benzene	1.0	0.5	ug/g	1.00	<	104	54.3-120	6	20	
Dibromomethane	1.0	0.5	ug/g	1.00	<	95	56.2-120	5	20	
1,2-Dichloropropane	1.0	0.5	ug/g	1.00	<	99	58.5-120	5	20	
Trichloroethene	1.1	0.5	ug/g	1.00	<	109	68.8-120	2	20	
Bromodichloromethane	1.0	0.5	ug/g	1.00	<	99	57.1-120	4	20	
2-Chloroethyl vinyl ether	1.0	0.5	ug/g	1.00	<	103	32.1-120	0.5	20	
cis-1,3-Dichloropropene	1.0	0.5	ug/g	1.00	<	101	54.1-120	4	20	
4-Methyl-2-pentanone	1.7	10.0	ug/g	2.00	<	86	36.8-120	5	20	
trans-1,3-Dichloropropene	1.0	0.5	ug/g	1.00	<	99	51-120	5	20	
1,1,2-Trichloroethane	1.0	0.5	ug/g	1.00	<	97	51.6-120	5	20	
Toluene	1.1	0.5	ug/g	1.00	<	106	66.4-120	4	20	
Ethyl Methacrylate	1.0	0.5	ug/g	1.00	<	95	42.1-120	5	20	
Dibromochloromethane	1.0	0.5	ug/g	1.00	<	98	52.4-120	5	20	
2-Hexanone	1.7	10.0	ug/g	2.00	<	86	30.2-120	6	20	

Work Order: 1525789

The result(s) issued on this report only reflect the analysis of the sample(s) submitted. For applicable test parameters, Midwest Laboratories is in compliance with NELAC requirements. Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.



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DIVERSIFIED ENERGY LLC - 41146  
19501 E MAIN STREET STE 200  
PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### Volatile Organic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B702955

##### Matrix Spike Dup (B702955-MSD1)

Source: 1526072-06

Prepared & Analyzed: 2017-04-26

1,2-Dibromoethane	1.0	0.5	ug/g	1.00	<	97	50.2-120	5	20	
Tetrachloroethene	1.1	0.5	ug/g	1.00	<	112	62.2-122	4	20	
1,1,1,2-Tetrachloroethane	1.0	0.5	ug/g	1.00	<	100	56.3-120	4	20	
Chlorobenzene	1.1	0.5	ug/g	1.00	<	106	64.9-120	2	20	
Ethylbenzene	1.1	0.5	ug/g	1.00	<	112	72-120	2	20	
m,p-Xylenes	2.3	0.5	ug/g	2.00	<	113	72.4-120	2	20	
Bromoform	1.0	0.5	ug/g	1.00	<	101	49.1-120	4	20	
cis-1,4-Dichloro-2-butene	1.0	0.5	ug/g	1.00	<	99	51.5-120	4	20	
Styrene	1.1	0.5	ug/g	1.00	<	107	67-120	3	20	
1,1,2,2-Tetrachloroethane	1.0	0.5	ug/g	1.00	<	99	51.5-120	5	20	
o-Xylene	1.1	0.5	ug/g	1.00	<	110	70.8-120	3	20	
1,2,3-Trichloropropane	0.9	0.5	ug/g	1.00	<	95	53.2-120	6	20	
trans-1,4-Dichloro-2-butene	1.0	0.5	ug/g	1.00	<	100	48.3-120	6	20	
Isopropylbenzene	1.1	0.5	ug/g	1.00	<	111	76-120	3	20	
Bromobenzene	1.0	0.5	ug/g	1.00	<	104	60.1-120	4	20	
n-Propyl Benzene	1.2	0.5	ug/g	1.00	<	116	78-120	3	20	
2-Chlorotoluene	1.1	0.5	ug/g	1.00	<	110	71.1-120	3	20	
4-Chlorotoluene	1.1	0.5	ug/g	1.00	<	108	68.6-120	4	20	
1,3,5-Trimethylbenzene	1.1	0.5	ug/g	1.00	<	111	75.6-120	3	20	
tert-Butylbenzene	1.1	0.5	ug/g	1.00	<	115	78-120	4	20	
1,2,4-Trimethylbenzene	1.1	0.5	ug/g	1.00	<	109	73.3-120	4	20	
sec-Butylbenzene	1.2	0.5	ug/g	1.00	<	116	76-120	4	20	
1,3-Dichlorobenzene	1.1	0.5	ug/g	1.00	<	106	65.4-120	5	20	
1,4-Dichlorobenzene	1.0	0.5	ug/g	1.00	<	105	74.2-120	0.7	20	
p-Isopropyltoluene	1.2	0.5	ug/g	1.00	<	116	79.5-120	0.3	20	
1,2-Dichlorobenzene	1.0	0.5	ug/g	1.00	<	102	70.3-120	1	20	
n-Butyl Benzene	1.1	0.5	ug/g	1.00	<	114	76.3-125	2	20	
1,2-Dibromo-3-Chloropropane	1.0	0.5	ug/g	1.00	<	98	43.7-120	3	20	
1,2,4-Trichlorobenzene	1.2	0.5	ug/g	1.00	<	117	39.7-126	3	20	
Naphthalene	1.2	0.5	ug/g	1.00	<	124	28.2-123	3	20	
Hexachlorobutadiene	1.2	0.5	ug/g	1.00	<	123	59-148	0.3	20	
1,2,3-Trichlorobenzene	1.6	0.5	ug/g	1.00	<	156	26.3-136	0.7	20	
Surrogate: Toluene-d8	0.240		ug/g	0.250		96	78.9-120			
Surrogate: Bromofluorobenzene	0.237		ug/g	0.250		95	71.8-120			
Surrogate: 1,2-Dichlorobenzene-d4	0.226		ug/g	0.250		90	80-120			



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PARKER, CO 80138

Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### Petroleum Contamination - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B702708

##### Blank (B702708-BLK1)

Prepared: 2017-04-20 Analyzed: 2017-04-26

Diesel range organics	<	2	mg/kg							
Surrogate: Nitrobenzene-d5	1.54		mg/kg	1.67		93	64.9-120			
Surrogate: 2-Fluorobiphenyl	1.55		mg/kg	1.67		93	61-120.9			
Surrogate: Terphenyl-d14	1.59		mg/kg	1.67		95	48-131.9			

##### LCS (B702708-BS1)

Prepared: 2017-04-20 Analyzed: 2017-04-26

Diesel range organics	166	2	mg/kg	167		100	77.9-120			
Surrogate: Nitrobenzene-d5	1.46		mg/kg	1.67		88	64.9-120			
Surrogate: 2-Fluorobiphenyl	1.50		mg/kg	1.67		90	61-120.9			
Surrogate: Terphenyl-d14	0.756		mg/kg	1.67		45	48-131.9			

##### LCS Dup (B702708-BSD1)

Prepared: 2017-04-20 Analyzed: 2017-04-26

Diesel range organics	161	2	mg/kg	167		97	77.9-120	3	200	
Surrogate: Nitrobenzene-d5	1.42		mg/kg	1.67		85	64.9-120			
Surrogate: 2-Fluorobiphenyl	1.45		mg/kg	1.67		87	61-120.9			
Surrogate: Terphenyl-d14	0.716		mg/kg	1.67		43	48-131.9			

##### Matrix Spike (B702708-MS1)

Source: 1525910-06

Prepared: 2017-04-20 Analyzed: 2017-04-26

Diesel range organics	171	2	mg/kg	167	0.7	102	77.9-120			
Surrogate: Nitrobenzene-d5	1.49		mg/kg	1.67		89	64.9-120			
Surrogate: 2-Fluorobiphenyl	1.53		mg/kg	1.67		92	61-120.9			
Surrogate: Terphenyl-d14	0.707		mg/kg	1.67		42	48-131.9			

##### Matrix Spike Dup (B702708-MSD1)

Source: 1525910-06

Prepared: 2017-04-20 Analyzed: 2017-04-26

Diesel range organics	177	2	mg/kg	167	0.7	106	77.9-120	4	200	
Surrogate: Nitrobenzene-d5	1.54		mg/kg	1.67		92	64.9-120			
Surrogate: 2-Fluorobiphenyl	1.58		mg/kg	1.67		95	61-120.9			
Surrogate: Terphenyl-d14	0.799		mg/kg	1.67		48	48-131.9			





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Project: DRO GRO Colorado

Project Manager: JASON HAACK

**Reported:**  
2017-04-28 15:57

### Petroleum Contamination - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B702802</b>										
<b>Blank (B702802-BLK1)</b>				Prepared & Analyzed: 2017-04-21						
GRO	<	0.500	ug/g							
Surrogate: Bromofluorobenzene	0.0970		ug/g	0.100		97	13.6-189			
<b>LCS (B702802-BS1)</b>				Prepared & Analyzed: 2017-04-21						
GRO	1.07	0.500	ug/g	1.10		97	80-120			
Surrogate: Bromofluorobenzene	0.0966		ug/g	0.100		97	13.6-189			
<b>Matrix Spike (B702802-MS1)</b>				Source: 1525910-06		Prepared & Analyzed: 2017-04-21				
GRO	1.05	0.500	ug/g	1.10	<	95	80-120			
Surrogate: Bromofluorobenzene	0.0969		ug/g	0.100		97	13.6-189			
<b>Matrix Spike Dup (B702802-MSD1)</b>				Source: 1525910-06		Prepared & Analyzed: 2017-04-21				
GRO	1.04	0.500	ug/g	1.10	<	94	80-120	1	20	
Surrogate: Bromofluorobenzene	0.0957		ug/g	0.100		96	13.6-189			

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## Certified Analyses included in this Report

Method	Analyte	Certifications
<i>EPA 8260 in Solid</i>	Dichlorodifluoromethane	FL-B
	Chloromethane	FL-B
	Vinyl chloride	FL-B
	Bromomethane	FL-B
	Chloroethane	FL-B
	Trichlorofluoromethane	FL-B
	Acrolein	FL-B
	Ethanol	FL-B
	Acetone	FL-B
	Ethyl Ether	FL-B
	1,1-Dichloroethene	FL-B
	Iodomethane	FL-B
	Acrylonitrile	FL-B
	Methylene Chloride	FL-B
	1,1,2-Trichloro-1,1,2-trifluoroethane	FL-B
	Carbon disulfide	FL-B
	trans-1,2-Dichloroethene	FL-B
	Methyl tert-Butyl Ether	FL-B
	1,1-Dichloroethane	FL-B
	Vinyl acetate	FL-B
	Chloroprene	FL-B
	2-Butanone	FL-B
	cis-1,2-Dichloroethene	FL-B
	Bromochloromethane	FL-B
	Chloroform	FL-B
	1,2-Dichloroethane	FL-B
	1,1,1-Trichloroethane	FL-B
	Carbon Tetrachloride	FL-B
	Benzene	IA,FL-B
	Dibromomethane	FL-B
	1,2-Dichloropropane	FL-B
	Trichloroethene	FL-B
	Bromodichloromethane	FL-B
	2-Chloroethyl vinyl ether	FL-B
	cis-1,3-Dichloropropene	FL-B
	4-Methyl-2-pentanone	FL-B
	trans-1,3-Dichloropropene	FL-B
	1,1,2-Trichloroethane	FL-B
	Toluene	IA,FL-B
	Ethyl Methacrylate	FL-B
	Dibromochloromethane	FL-B
	2-Hexanone	FL-B
	1,2-Dibromoethane	FL-B
	Tetrachloroethene	FL-B
	1,1,1,2-Tetrachloroethane	FL-B
	Chlorobenzene	FL-B
	Ethylbenzene	IA,FL-B



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**Reported:**  
2017-04-28 15:57

**EPA 8260 in Solid**

m,p-Xylenes	IA,FL-B
Bromoform	FL-B
cis-1,4-Dichloro-2-butene	FL-B
Styrene	FL-B
1,1,2,2-Tetrachloroethane	FL-B
o-Xylene	IA,FL-B
1,2,3-Trichloropropane	FL-B
trans-1,4-Dichloro-2-butene	FL-B
Isopropylbenzene	FL-B
Bromobenzene	FL-B
n-Propyl Benzene	FL-B
2-Chlorotoluene	FL-B
4-Chlorotoluene	FL-B
1,3,5-Trimethylbenzene	FL-B
tert-Butylbenzene	FL-B
1,2,4-Trimethylbenzene	FL-B
sec-Butylbenzene	FL-B
1,3-Dichlorobenzene	FL-B
1,4-Dichlorobenzene	FL-B
p-Isopropyltoluene	FL-B
1,2-Dichlorobenzene	FL-B
n-Butyl Benzene	FL-B
1,2-Dibromo-3-Chloropropane	FL-B
1,2,4-Trichlorobenzene	FL-B
Naphthalene	FL-B
Hexachlorobutadiene	FL-B
1,2,3-Trichlorobenzene	FL-B
Total Xylenes	IA,FL-B

**GRO (Gasoline Range Organics) in Solid**

GRO KS

**Non-Certified Analyses included in this Report**

Method	Analyte
DRO (Diesel Range Organics) in Solid	Diesel range organics

Code	Description	Number	Expires
FL	Florida Department of Health	E87918	06/30/2017
FL-B	Florida Department of Health	E871122	06/30/2017
IA	Iowa Department of Natural Resources	064	05/01/2017
KS	Kansas Department of Health and Environment	E-10402	04/30/2017
OK	Oklahoma Department of Environmental Quality	2016-085	08/31/2017
TX	Texas Commission on Environmental Quality	T104704416-13-5	07/31/2017
UT	State of Utah Department of Health	NE000012013-3 Pending	07/31/2016
WA	State of Washington Department of Ecology	C912	06/07/2017



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**Reported:**  
2017-04-28 15:57

### Notes and Definitions

SL Surrogate is low due to matrix interference.

SH Surrogate is high due to sample contamination interference.

< Less than reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

EPA 624, EPA 8260, OA-1, and GRO analyses are conducted in the facility located at 13606 B Street, Omaha, NE 68144. All other analyses are conducted in the main facility located at 13611 B Street, Omaha, NE 68144.



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## CHAIN OF CUSTODY

Lab Work Order Number: 1525789  
Date Generated: 04/10/2017


Page 1 of 1


Client Name DIVERSIFIED ENERGY LLC - 41146		Project Name DRO GRO Colorado	Requested Analyses (Test Names)										Copy To
Client Contact JASON HAAK		Project Description Dirt Remediation	DRO GRO, BTEX	EPA 8260, EPA 8270	EC, SAR, PH	Arsenic							
Address 19501 E MAIN STREET STE 200		Purchase Order Number Bingman 174											
City PARKER		Midwest Labs Contact Heather Ramig											
State/Zip CO, 80138		Regulatory (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No											
Phone 3039950826	Fax 0	Regulatory Agency COGCC											
Sampler Name (printed) JASON HAAK		Sample Type (Circle One - See Below) <input checked="" type="radio"/> S <input type="radio"/> W <input type="radio"/> S/H <input type="radio"/> U <input type="radio"/> P											<input checked="" type="checkbox"/> MWL Receiving

Lab ID	Sample Name or Field ID	Sampled Date	Sampled Time	Sample Code	Matrix Code	Container Count	1	1	1	1							Sample Comments
01	01 = 2.8				S	2	1	0	1	1							* SPLIT to Special D for EC, pH, SAR and Arsenic total of 3 samples
02	02 = 2.9				S	2	0	0	0	0							
03	03 = 2.11				S	2	1	0	1	1							
04	04 = 2.5				S	2	1	0	1	1							
05	<del>05</del>				S	2	0	1	0	0							
06	<del>06</del>				S	1	0	0	0	0							



HOBKORDED  
**1525789**  
**COC**  
Sticker #: 1





2658849-851  
Samples: Page:  
3 1/4  
Calvin J Sterkel Colombo  
2017 04 18 16:39

Relinquished By <b>JASON HODGE</b>		Date/Time <b>4/12/17</b>	Received By <b>[Signature]</b>	Date/Time <b>4/14/17 1330</b>	Lab Internal Use Only Temperature Upon Receipt: <b>4.8~</b> Cooler Numbers: _____ Notes: _____
Relinquished By <b>[Signature]</b>		Date/Time	Received By	Date/Time	
Comments: <b>COGCC Inspector Witness Soil Samples</b>					

Page

Matrix Codes: S=Solid

Matrix Codes: S=Solid

Sample Type Codes: D = Drinking Water (Safe Drinking Water Act), G = Groundwater, W = Wastewater (Clean Water Act), S/H = Solid/Hazardous Waste (RCRA), U = Underground Storage Tank (UST), P = Process Water

Chain of Custody will have a signature upon receipt but no subsequent signatures.

**Preservation Codes:** 1=Cool 6°C



Work Order 152578



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UNRECORDED  
1525789  
COC  
Sticker #: 2



# Regulatory

This sheet **MUST** be filled out before samples can be processed. To ensure that holding times are met, it is your responsibility that a completed form comes attached to the Chain of Custody. **Samples must be received on ice.**

Is this sample for regulatory/permit reporting?



Yes



No

What city/state was your sample collected in?

Maybell, Colorado

COGCC

What agency/state are you reporting to?

What type of sample? (Circle One)

Drinking Water

Ground Water

Wastewater

Solid waste

Hazardous Waste

UST

Storm Water

Process Water



2658849-851  
Samples: Page:  
3 2/4  
Calvin J Sterkel Colombo  
2017 04 18 16:39

SEE REVERSE SIDE FOR SAMPLING INSTRUCTIONS

RC FORM 14-2 Effective 07/01/16

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Wb-1525789

ELEMENT 01A = 8200 + ~~8200~~ = 2.8  
E-01

VERT.

2658849

01B = pH, SAR, EC, Arsenic = SE

2658850

02B = pH, SAR, EC, Arsenic = S

E-02 03A = DRO/GRO = 2.9

E-03 04A = DRO/GRO = 2.11

E-04 05A = DRO/GRO = 2.5

05B = pH SAR EC Arsenic = SW

2658851



WORKORDER:  
1525789  
COC  
Sticker #: 3



2658849-851  
Samples: Page:  
3 3/4  
Calvin J Sterkel Colombo  
2017 04 18 16:39

WR

4/14/17

- waiting on client

- Reminded 4/17/17



# Sample Acceptance Checklist

Document Number: RC CHKLIST 001

Revision No.: 3

Effective Date: 1/31/17

Page 1 of 1



WORKORDER:  
**1525789**  
**COC**  
Sticker #: 4



Lab Number: \_\_\_\_\_

Thermometer Used: ☐ Therm Fisher IR 11

Sample Temperature (°C): 4.8

Cooler Intact: ☒ Yes ☐ No

Received on Ice: ☒ Yes ☐ No

Hand Delivered: ☐ Yes ☒ No

Date & Initials of person accepting samples: 4/14/17

Comments:

Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Chain of Custody complete?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	
Sample ID(s):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sample Location(s):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Client Contact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Analysis Requested:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sampler name on COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Date & Time of collection:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	
Sample labels match COC?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	
Written in indelible ink?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Labels indicate proper preservation?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Chain of Custody relinquished with signature?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Samples arrived within hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Sufficient volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Appropriate containers used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Headspace in VOA vials?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Trip Blank present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	

Client Notification/Resolution:

Date/Time Contacted: \_\_\_\_\_

Person Contacted: \_\_\_\_\_ Contacted By: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_



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Samples: Page: \_\_\_\_\_  
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Calvin J. Sterkel, Colombr  
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