

April 17, 2018

SRC Energy

Dave Castro

5400 W 11th Street

Greely

CO 80634

Project Name - Opdyke TB Vault Pit

Project Number - [none]

Attached are your analytical results for Opdyke TB Vault Pit received by Origins Laboratory, Inc. April 12, 2018. This project is associated with Origins project number Y804225-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



SRC Energy
5400 W 11th Street
Greely CO 80634

Dave Castro
Project Number: [none]
Project: Opdyke TB Vault Pit

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSS@2.5'	Y804225-01	Soil	April 12, 2018 10:54	04/12/2018 16:16
BSS@5'	Y804225-02	Soil	April 12, 2018 10:59	04/12/2018 16:16

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SRC Energy
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 Greeley CO 80634

Dave Castro
 Project Number: [none]
 Project: Opdyke TB Vault Pit

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52225

page 1 of 1



Client: SRC Energy, Inc.
 Address: 5400 W. 11th St., Ste. C, Greeley, CO 80634
 Telephone Number: 970-475-5245
 Email Address: dcastro@srcenergy.com

Project Manager: Dave Castro
 Project Name: Opdyke TB Vault Pit
 Project Number:
 Samples Collected By: dcastro@srcenergy.com

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
SSS @ 2.5'	4/11/18	10:54	2	X				X			X X X X	1
BSS @ 5'	4/11/18	10:59	2	X				X			X X X	2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: Dave Castro
 Date: 4/12/18
 Time: 16:16

Received By: [Signature]
 Date: 4/12/18
 Time: 16:16

Turnaround Time:
 Same Day 24 Hr
 48 Hr 72 Hr
 Standard

5.4 Date Results Needed

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Dave Castro
 Project Number: [none]
 Project: Opdyke TB Vault Pit

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4804225

Client: SRC Energy

Client Project ID: Opdyke TB Vault Pit

Checklist Completed by: D. Lee

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4-12-18

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: / 5.4 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: 5003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}	<input checked="" type="checkbox"/>			pH
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ SO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 4/13/18

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 Greeley CO 80634

Dave Castro
 Project Number: [none]
 Project: Opdyke TB Vault Pit

SSS@2.5'

4/12/2018 10:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804225-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8D1603	04/16/2018	04/16/2018	U
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Surrogate: o-Terphenyl	89.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8D1606	04/16/2018	04/17/2018	U
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Benzene	ND	0.002	"	"	"	"	"	U
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Toluene	ND	0.002	"	"	"	"	"	U
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Ethylbenzene	ND	0.002	"	"	"	"	"	U
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Xylenes, total	ND	0.002	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130			"	"	"	
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Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	
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pH in Soil by EPA 9045D

pH	8.82		pH Units	1	B8D1607	04/16/2018	04/16/2018	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.167		mmhos/cm	"	B8D1608	"	"	
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SRC Energy
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 Greeley CO 80634

Dave Castro
 Project Number: [none]
 Project: Opdyke TB Vault Pit

BSS@5'
4/12/2018 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y804225-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8D1603	04/16/2018	04/16/2018	U
<i>Surrogate: o-Terphenyl</i>	89.4 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8D1606	04/16/2018	04/17/2018	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	92.6 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.3 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.0 %	70-130			"	"	"	

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

Blank (B8D1606-BLK1)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	50		ug/kg	62.5		80.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

Blank (B8D1606-BLK2)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	49		ug/kg	62.5		78.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

LCS (B8D1606-BS1)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Benzene	0.119	0.002	mg/kg	0.100		119	77.1-124			
Toluene	0.118	0.002	"	0.100		118	74.5-128			
Ethylbenzene	0.114	0.002	"	0.100		114	66.4-127			
m,p-Xylene	0.217	0.004	"	0.200		109	76.6-124			
o-Xylene	0.114	0.002	"	0.100		114	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

LCS (B8D1606-BS2)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Benzene	0.106	0.002	mg/kg	0.100		106	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.192	0.004	"	0.200		96.1	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

Matrix Spike (B8D1606-MS1)	Source: Y804192-01			Prepared: 04/16/2018 Analyzed: 04/16/2018						
Benzene	0.128	0.002	mg/kg	0.100	ND	128	71.8-126			QM-07
Toluene	0.127	0.002	"	0.100	ND	127	65.1-130			
Ethylbenzene	0.125	0.002	"	0.100	ND	125	62.2-130			
m,p-Xylene	0.233	0.004	"	0.200	ND	117	46.5-137			
o-Xylene	0.122	0.002	"	0.100	ND	122	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

Matrix Spike (B8D1606-MS2)	Source: Y804192-02			Prepared: 04/16/2018 Analyzed: 04/16/2018						
Benzene	0.116	0.002	mg/kg	0.100	ND	116	71.8-126			
Toluene	0.109	0.002	"	0.100	ND	109	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.7	62.2-130			
m,p-Xylene	0.178	0.004	"	0.200	ND	89.0	46.5-137			
o-Xylene	0.098	0.002	"	0.100	0.0007	97.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

Matrix Spike Dup (B8D1606-MSD1)	Source: Y804192-01			Prepared: 04/16/2018 Analyzed: 04/16/2018						
Benzene	0.126	0.002	mg/kg	0.100	ND	126	71.8-126	1.78	11.3	
Toluene	0.125	0.002	"	0.100	ND	125	65.1-130	1.64	15.4	
Ethylbenzene	0.124	0.002	"	0.100	ND	124	62.2-130	0.547	19.6	
m,p-Xylene	0.224	0.004	"	0.200	ND	112	46.5-137	4.23	19.2	
o-Xylene	0.122	0.002	"	0.100	ND	122	54.2-134	0.181	17.9	
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1606 - EPA 5030 (soil)

Matrix Spike Dup (B8D1606-MSD2)	Source: Y804192-02			Prepared: 04/16/2018 Analyzed: 04/16/2018						
Benzene	0.114	0.002	mg/kg	0.100	ND	114	71.8-126	1.59	11.3	
Toluene	0.108	0.002	"	0.100	ND	108	65.1-130	0.775	15.4	
Ethylbenzene	0.097	0.002	"	0.100	ND	96.7	62.2-130	0.0414	19.6	
m,p-Xylene	0.178	0.004	"	0.200	ND	89.2	46.5-137	0.146	19.2	
o-Xylene	0.098	0.002	"	0.100	0.0007	97.1	54.2-134	0.102	17.9	
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	70-130			

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 Greeley CO 80634

Dave Castro
 Project Number: [none]
 Project: Opdyke TB Vault Pit

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1603 - EPA 3550B

Blank (B8D1603-BLK1)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 37 " 50.0 74.2 59-131

Blank (B8D1603-BLK2)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 56 " 50.0 111 59-131

LCS (B8D1603-BS1)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Diesel (C10-C28) 1020 50.0 mg/kg 1000 102 64-121

Surrogate: o-Terphenyl 49 " 50.0 98.0 59-131

LCS (B8D1603-BS2)

Prepared: 04/16/2018 Analyzed: 04/16/2018

Diesel (C10-C28) 931 50.0 mg/kg 1000 93.1 64-121

Surrogate: o-Terphenyl 58 " 50.0 116 59-131

Matrix Spike (B8D1603-MS1)

Source: Y804223-01

Prepared: 04/16/2018 Analyzed: 04/16/2018

Diesel (C10-C28) 977 50.0 mg/kg 1000 ND 97.7 53-125

Surrogate: o-Terphenyl 44 " 50.0 88.7 59-131

Matrix Spike (B8D1603-MS2)

Source: Y804224-01

Prepared: 04/16/2018 Analyzed: 04/17/2018

Diesel (C10-C28) 918 50.0 mg/kg 1000 ND 91.8 53-125

Surrogate: o-Terphenyl 55 " 50.0 110 59-131

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 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1603 - EPA 3550B

Matrix Spike Dup (B8D1603-MSD1)		Source: Y804223-01			Prepared: 04/16/2018 Analyzed: 04/16/2018					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125	2.81	20	
Surrogate: o-Terphenyl	47		"	50.0		93.4	59-131			
Matrix Spike Dup (B8D1603-MSD2)		Source: Y804224-01			Prepared: 04/16/2018 Analyzed: 04/17/2018					
Diesel (C10-C28)	958	50.0	mg/kg	1000	ND	95.8	53-125	4.29	20	
Surrogate: o-Terphenyl	57		"	50.0		114	59-131			

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Dave Castro
 Project Number: [none]
 Project: Opdyke TB Vault Pit

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8D1607 - NO PREP										
Duplicate (B8D1607-DUP1)			Source: Y804223-01			Prepared: 04/16/2018 Analyzed: 04/16/2018				
pH	8.62		pH Units		9.21			6.62	25	
Batch B8D1608 - NO PREP										
Blank (B8D1608-BLK1)			Prepared: 04/16/2018 Analyzed: 04/16/2018							
Specific Conductance (EC)	0.00230		mmhos/cm							
Duplicate (B8D1608-DUP1)			Source: Y804223-01			Prepared: 04/16/2018 Analyzed: 04/16/2018				
Specific Conductance (EC)	0.0488		mmhos/cm		0.0448			8.55	25	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SRC Energy
5400 W 11th Street
Greely CO 80634

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Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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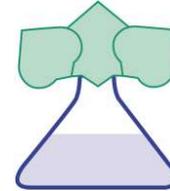
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95029

ORIGINS LABORATORY INC

1725 ELK PLACE

DENVER CO 80211

NAME : ORIGINS LAB

DATE RECEIVED: 04/13/2018

DATE REPORTED: 04/17/2018

SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS						
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm		
2545546	Y804225	01	0-8														

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
2545546																		

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A		
2545546	2.43	1.27	0.44	0.32	1	0										

SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
2545546	Y804225	01								lbs/A						

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab