



June 04, 2019

CGRS, Inc

Drezden Kinnaird

1301 Academy Court

Fort Collins CO 80524

Project Name - Snyder

Project Number - 17721aa

Attached are your analytical results for Snyder received by Origins Laboratory, Inc. May 29, 2019. This project is associated with Origins project number Y905395-01.

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



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

CGRS, Inc  
1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-E	Y905395-01	Soil	May 25, 2019 14:00	05/29/2019 09:10
SS-W	Y905395-02	Soil	May 25, 2019 14:20	05/29/2019 09:10
SS-N	Y905395-03	Soil	May 25, 2019 14:40	05/29/2019 09:10
SS-S	Y905395-04	Soil	May 25, 2019 15:00	05/29/2019 09:10
SS-BG	Y905395-05	Soil	May 25, 2019 15:20	05/29/2019 09:10
SS-C	Y905395-06	Soil	May 25, 2019 15:40	05/29/2019 09:10

Origins Laboratory, Inc.



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CGRS, Inc  
1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

www.originslaboratory.com

1905395

page 1 of 1

Client: CGRS

Address:

Telephone Number:

Email Address: DKINNARD@CGRS.COM  
KWILSON@CGRS.COM

Project Manager: DREZDEN KINNARD

Project Name: SNYDER

Project Number: 17721aa

Samples Collected By: ELIZABETH WILSON

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other		FE
SS-E	5/25/19	14:00	2	X				X		X	X	X	1
SS-W		14:20	1										2
SS-N		14:40	1										3
SS-S		14:00	1										4
SS-PG		15:20	1										5
SS-C		15:40	1										6
													7
													8
													9
													10

Relinquished By: Elizabeth Wilson Date: 5/29/19 Time: 0910

Relinquished By: Date: Date: Time: Time:

Received By: Date: 5-29-19 Time: 910

Received By: Date: Date: Time: Time:

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

Temp Received: 3.0 Date Results Needed

CGRS, Inc  
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Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y905395

Client: CGRS Inc.

Client Project ID: Snyder

Checklist Completed by: JG

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

Date/time completed: 5/29/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 3.0 °C / °C / °C / °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> 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 (Project Manager) JG

Date/Time Reviewed 5/30/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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CGRS, Inc  
1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

## SS-E

5/25/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y905395-01 (Soil)

### BTEX by EPA 8260D

Benzene	ND	0.050	mg/kg	25	B9E2906	JTD	05/29/2019	05/30/2019	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

### GRO (TVPH)/DRO (TEPH) by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9E2902	JTD	05/29/2019	05/29/2019	U
Diesel (C10-C28)	305	50.0	"	"	"	JTD	"	"	

Surrogate: o-Terphenyl	82.9 %	50-150			"	"	"
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### Metals (Saturated Paste Prep)

Calcium	1.54	me/L	1	'[none]'		05/30/2019	06/04/2019
Magnesium	0.70	"	"	"		"	"
Sodium	32.45	"	"	"		"	"

### pH in Soil by EPA 9045D

pH	7.70	pH Units	1	B9E2903	OLAB	05/29/2019	05/29/2019
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Project: Snyder

SS-E

5/25/2019 2:00:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.  
Y905395-01 (Soil)

SAR by 20B Saturated Paste

SAR	30.66			1	'[none]'		05/30/2019	06/04/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.340	0.00500	mmhos/cm	1	B9E2904	OLAB	05/29/2019	05/29/2019	
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Project: Snyder

## SS-W

5/25/2019 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y905395-02 (Soil)

### BTEX by EPA 8260D

Benzene	ND	0.050	mg/kg	25	B9E2906	KDK	05/29/2019	05/29/2019	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"
Surrogate: Toluene-d8	96.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130			"	"	"

### GRO (TVPH)/DRO (TEPH) by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9E2902	JTD	05/29/2019	05/29/2019	U
Diesel (C10-C28)	165	50.0	"	"	"	JTD	"	"	

Surrogate: o-Terphenyl	79.2 %	50-150			"	"	"
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### Metals (Saturated Paste Prep)

Calcium	1.30	me/L	1	'[none]'		05/30/2019	06/04/2019
Magnesium	0.74	"	"	"		"	"
Sodium	23.89	"	"	"		"	"

### pH in Soil by EPA 9045D

pH	8.61	pH Units	1	B9E2903	OLAB	05/29/2019	05/29/2019
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Origins Laboratory, Inc.



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Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

**SS-W**

**5/25/2019 2:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y905395-02 (Soil)**

**SAR by 20B Saturated Paste**

SAR	23.65			1	'[none]'		05/30/2019	06/04/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.355	0.00500	mmhos/cm	1	B9E2904	OLAB	05/29/2019	05/29/2019	
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Origins Laboratory, Inc.



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Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

## SS-N

5/25/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y905395-03 (Soil)

### BTEX by EPA 8260D

Benzene	ND	0.050	mg/kg	25	B9E2906	JTD	05/29/2019	05/30/2019	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.050	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

### GRO (TVPH)/DRO (TEPH) by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9E2902	JTD	05/29/2019	05/29/2019	U
Diesel (C10-C28)	789	50.0	"	"	"	JTD	"	"	

Surrogate: o-Terphenyl	90.0 %	50-150			"	"	"
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### Metals (Saturated Paste Prep)

Calcium	1.00	me/L	1	'[none]'		05/30/2019	06/04/2019
Magnesium	0.40	"	"	"		"	"
Sodium	21.77	"	"	"		"	"

### pH in Soil by EPA 9045D

pH	8.29	pH Units	1	B9E2903	OLAB	05/29/2019	05/29/2019
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Origins Laboratory, Inc.



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1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

SS-N

5/25/2019 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y905395-03 (Soil)

SAR by 20B Saturated Paste

SAR	26.02			1	'[none]'		05/30/2019	06/04/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.425	0.00506	mmhos/cm	1	B9E2904	OLAB	05/29/2019	05/29/2019	
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Origins Laboratory, Inc.



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Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

## SS-S

5/25/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y905395-04 (Soil)

### BTEX by EPA 8260D

Benzene	ND	0.002	mg/kg	1	B9E2906	KDK	05/29/2019	05/29/2019	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"

### GRO (TVPH)/DRO (TEPH) by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9E2902	JTD	05/29/2019	05/29/2019	U
Diesel (C10-C28)	588	50.0	"	"	"	JTD	"	"	

Surrogate: o-Terphenyl	82.1 %	50-150			"	"	"
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### Metals (Saturated Paste Prep)

Calcium	1.20	me/L	1	'[none]'		05/30/2019	06/04/2019
Magnesium	0.36	"	"	"		"	"
Sodium	12.95	"	"	"		"	"

### pH in Soil by EPA 9045D

pH	8.43	pH Units	1	B9E2903	OLAB	05/29/2019	05/29/2019
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Origins Laboratory, Inc.



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Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

SS-S

5/25/2019 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y905395-04 (Soil)

SAR by 20B Saturated Paste

SAR	14.66			1	'[none]'		05/30/2019	06/04/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.474	0.00504	mmhos/cm	1	B9E2904	OLAB	05/29/2019	05/29/2019	
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Origins Laboratory, Inc.



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1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

## SS-BG

5/25/2019 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## AAL, Inc. Y905395-05 (Soil)

### Metals (Saturated Paste Prep)

Calcium	1.66	me/L	1	'[none]'		05/30/2019	06/04/2019
Magnesium	0.54	"	"	"		"	"
Sodium	34.22	"	"	"		"	"

### pH in Soil by EPA 9045D

pH	9.00	pH Units	1	B9E2903	OLAB	05/29/2019	05/29/2019
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### SAR by 20B Saturated Paste

SAR	32.63		1	'[none]'		05/30/2019	06/04/2019
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.313	0.00509	mmhos/cm	1	B9E2904	OLAB	05/29/2019	05/29/2019
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1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

## SS-C

5/25/2019 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y905395-06 (Soil)

### BTEX by EPA 8260D

Benzene	ND	0.050	mg/kg	25	B9E2906	KDK	05/29/2019	05/29/2019	U
Toluene	ND	0.050	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.050	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.050	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	86.7 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

### GRO (TVPH)/DRO (TEPH) by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9E2902	JTD	05/29/2019	05/29/2019	U
Diesel (C10-C28)	1730	50.0	"	"	"	JTD	"	"	

Surrogate: o-Terphenyl	80.5 %	50-150			"	"	"
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### Metals (Saturated Paste Prep)

Calcium	2.66	me/L	1	'[none]'		05/30/2019	06/04/2019
Magnesium	0.66	"	"	"		"	"
Sodium	25.60	"	"	"		"	"

### pH in Soil by EPA 9045D

pH	8.38	pH Units	1	B9E2903	OLAB	05/29/2019	05/29/2019
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Origins Laboratory, Inc.



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1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

SS-C

5/25/2019 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y905395-06 (Soil)

SAR by 20B Saturated Paste

SAR	19.87			1	'[none]'		05/30/2019	06/04/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.345	0.00500	mmhos/cm	1	B9E2904	OLAB	05/29/2019	05/29/2019	
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## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9E2902 - EPA 3580</b>										
<b>Blank (B9E2902-BLK1)</b>					Prepared: 05/29/2019 Analyzed: 05/29/2019					
Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	41		"	50.0		81.5	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9E2902 - EPA 3580</b>										
<b>LCS (B9E2902-BS1)</b>					Prepared: 05/29/2019 Analyzed: 05/29/2019					
Gasoline (C6-C10)	931	50.0	mg/kg	1000		93.1	70-130			
Diesel (C10-C28)	857	50.0	"	1000		85.7	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.8	50-150			

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CGRS, Inc  
1301 Academy Court  
Fort Collins CO 80524

Drezden Kinnaird  
Project Number: 17721aa  
Project: Snyder

Extractable Petroleum Hydrocarbons by 8015D - 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 B9E2902 - EPA 3580

Matrix Spike (B9E2902-MS1)		Source: Y905395-01			Prepared: 05/29/2019 Analyzed: 05/29/2019					
Gasoline (C6-C10)	963	50.0	mg/kg	1000	ND	96.3	70-130			
Diesel (C10-C28)	957	50.0	"	1000	305	65.2	70-130			QM-07
Surrogate: o-Terphenyl	44		"	50.0		88.8	50-150			

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Project: Snyder

Extractable Petroleum Hydrocarbons by 8015D - 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 B9E2902 - EPA 3580

Matrix Spike Dup (B9E2902-MSD1)		Source: Y905395-01			Prepared: 05/29/2019 Analyzed: 05/29/2019					
Gasoline (C6-C10)	960	50.0	mg/kg	1000	ND	96.0	70-130	0.292	35	
Diesel (C10-C28)	1040	50.0	"	1000	305	73.2	70-130	8.10	35	
Surrogate: o-Terphenyl	43		"	50.0		86.8	50-150			

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## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9E2906 - EPA 5030 (soil)</b>										
<b>Blank (B9E2906-BLK1)</b>					Prepared: 05/29/2019 Analyzed: 05/29/2019					
Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project: Snyder

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9E2906 - EPA 5030 (soil)**

**LCS (B9E2906-BS1)**

Prepared: 05/29/2019 Analyzed: 05/29/2019

Benzene	0.111	0.002	mg/kg	0.100	111	70-130
Toluene	0.103	0.002	"	0.100	103	70-130
Ethylbenzene	0.103	0.002	"	0.100	103	70-130
m,p-Xylene	0.203	0.004	"	0.200	102	70-130
o-Xylene	0.101	0.002	"	0.100	101	70-130
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.5	70-130
Surrogate: Toluene-d8	0.12		"	0.125	95.9	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.7	70-130

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9E2906 - EPA 5030 (soil)**

Matrix Spike (B9E2906-MS1)		Source: Y905388-01			Prepared: 05/29/2019 Analyzed: 05/30/2019					
Benzene	0.086	0.002	mg/kg	0.100	ND	85.7	70-130			
Toluene	0.079	0.002	"	0.100	ND	79.4	70-130			
Ethylbenzene	0.085	0.002	"	0.100	ND	85.1	70-130			
m,p-Xylene	0.189	0.004	"	0.200	ND	94.5	70-130			
o-Xylene	0.087	0.002	"	0.100	ND	87.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9E2906 - EPA 5030 (soil)**

Matrix Spike Dup (B9E2906-MSD1)		Source: Y905388-01			Prepared: 05/29/2019 Analyzed: 05/30/2019					
Benzene	0.089	0.002	mg/kg	0.100	ND	89.0	70-130	3.85	20	
Toluene	0.082	0.002	"	0.100	ND	82.5	70-130	3.85	20	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.4	70-130	2.67	20	
m,p-Xylene	0.194	0.004	"	0.200	ND	97.1	70-130	2.71	20	
o-Xylene	0.090	0.002	"	0.100	ND	90.0	70-130	3.21	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**Classical Chemistry Parameters - 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 B9E2903 - NO PREP**

<b>Duplicate (B9E2903-DUP1)</b>		<b>Source: Y905395-03</b>			Prepared: 05/29/2019 Analyzed: 05/29/2019					
pH	8.32		pH Units		8.29			0.361	25	

**Batch B9E2904 - NO PREP**

<b>Blank (B9E2904-BLK1)</b>		Prepared: 05/29/2019 Analyzed: 05/29/2019								
Specific Conductance (EC)	0.00300	0.00500	mmhos/cm							
<b>Duplicate (B9E2904-DUP1)</b>		<b>Source: Y905395-03</b>			Prepared: 05/29/2019 Analyzed: 05/29/2019					
Specific Conductance (EC)	0.456	0.00505	mmhos/cm		0.425			6.97	25	

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Project: Snyder

### 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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