



June 06, 2019

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - CPR - Frederiksen 1 Battery**

**Project Number - [none]**

Attached are your analytical results for CPR - Frederiksen 1 Battery received by Origins Laboratory, Inc. May 31, 2019. This project is associated with Origins project number Y906004-01.

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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Frederiksen 1 Battery

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@5-7.5'	Y906004-01	Soil	May 31, 2019 8:25	05/31/2019 16:30

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



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Dan Coloccia

Project Number: [none]

Project: CPR - Frederiksen 1 Battery

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y906004

Client: Eagle

Client Project ID: CPR - Frederiksen 1 Battery

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 6/3/2019

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.6 °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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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) CP

Date/Time Reviewed 6/4/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: CPR - Frederiksen 1 Battery

SB-01@5-7.5'

5/31/2019 8:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y906004-01 (Soil)**

**BTEX by EPA 8260D**

Benzene	ND	0.050	mg/kg	25	B9F0304	KDK	06/03/2019	06/03/2019	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	120 %	70-130			"	"	"
Surrogate: Toluene-d8	87.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

**Metals (Saturated Paste Prep)**

Calcium	1.28	me/L	1	'[none]'		06/04/2019	06/06/2019
Magnesium	4.30	"	"	"		"	"
Sodium	6.45	"	"	"		"	"

**pH in Soil by EPA 9045D**

pH	7.83	pH Units	1	B9F0306	OLAB	06/03/2019	06/03/2019
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**SAR by 20B Saturated Paste**

SAR	3.86		1	'[none]'		06/04/2019	06/06/2019
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.211	0.00510	mmhos/cm	1	B9F0307	OLAB	06/03/2019	06/03/2019
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Project Number: [none]

Project: CPR - Frederiksen 1 Battery

SB-01@5-7.5'

5/31/2019 8:25:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.

Y906004-01 (Soil)

## TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9F0305	JTD	06/03/2019	06/04/2019	U
Diesel (C10-C28)	126	50.0	"	"	"	JTD	"	"	
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	77.4 %	50-150	"	"	"
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Project Number: [none]

Project: CPR - Frederiksen 1 Battery

**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 B9F0304 - EPA 5030 (soil)**

**Blank (B9F0304-BLK1)**

Prepared: 06/03/2019 Analyzed: 06/03/2019

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	0.15		"	0.125	119		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	89.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		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 B9F0304 - EPA 5030 (soil)**

**LCS (B9F0304-BS1)**

Prepared: 06/03/2019 Analyzed: 06/03/2019

Benzene	0.105	0.002	mg/kg	0.100		105	70-130			
Toluene	0.092	0.002	"	0.100		91.8	70-130			
Ethylbenzene	0.098	0.002	"	0.100		98.1	70-130			
m,p-Xylene	0.197	0.004	"	0.200		98.5	70-130			
o-Xylene	0.096	0.002	"	0.100		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B9F0304 - EPA 5030 (soil)**

Matrix Spike (B9F0304-MS1)		Source: Y906002-01			Prepared: 06/03/2019 Analyzed: 06/04/2019					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.9	70-130			
Toluene	0.071	0.002	"	0.100	ND	71.0	70-130			
Ethylbenzene	0.065	0.002	"	0.100	ND	64.6	70-130			QM-07
m,p-Xylene	0.128	0.004	"	0.200	ND	64.1	70-130			QM-07
o-Xylene	0.065	0.002	"	0.100	ND	64.9	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.5	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 B9F0304 - EPA 5030 (soil)

Matrix Spike Dup (B9F0304-MSD1)		Source: Y906002-01			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Benzene	0.088	0.002	mg/kg	0.100	ND	88.0	70-130	1.26	20	
Toluene	0.082	0.002	"	0.100	ND	81.7	70-130	13.9	20	
Ethylbenzene	0.083	0.002	"	0.100	ND	83.4	70-130	25.5	20	QR-03
m,p-Xylene	0.171	0.004	"	0.200	ND	85.4	70-130	28.4	20	QR-03
o-Xylene	0.085	0.002	"	0.100	ND	85.5	70-130	27.3	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	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 B9F0305 - EPA 3580

Blank (B9F0305-BLK1)

Prepared: 06/03/2019 Analyzed: 06/03/2019

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40.2		"	50.0		80.4	50-150			

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Project Number: [none]

Project: CPR - Frederiksen 1 Battery

## 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 B9F0305 - EPA 3580

Blank (B9F0305-BLK2)

Prepared: 06/03/2019 Analyzed: 06/03/2019

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	45.9		"	50.0		91.9	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
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Batch B9F0305 - EPA 3580

Blank (B9F0305-BLK3)

Prepared: 06/03/2019 Analyzed: 06/03/2019

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42.6		"	50.0		85.2	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
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Batch B9F0305 - EPA 3580

### LCS (B9F0305-BS1)

Prepared: 06/03/2019 Analyzed: 06/03/2019

Gasoline (C6-C10)	966	50.0	mg/kg	1000		96.6	70-130			
Diesel (C10-C28)	955	50.0	"	1000		95.5	70-130			
Residual Range Organics (C28-C40)	859	200	"	1000		85.9	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.6	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
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Batch B9F0305 - EPA 3580

### LCS (B9F0305-BS2)

Prepared: 06/03/2019 Analyzed: 06/03/2019

Gasoline (C6-C10)	979	50.0	mg/kg	1000		97.9	70-130			
Diesel (C10-C28)	961	50.0	"	1000		96.1	70-130			
Residual Range Organics (C28-C40)	910	200	"	1000		91.0	70-130			
Surrogate: o-Terphenyl	44.2		"	50.0		88.5	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
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Batch B9F0305 - EPA 3580

### LCS (B9F0305-BS3)

Prepared: 06/03/2019 Analyzed: 06/03/2019

Gasoline (C6-C10)	956	50.0	mg/kg	1000		95.6	70-130			
Diesel (C10-C28)	927	50.0	"	1000		92.7	70-130			
Residual Range Organics (C28-C40)	901	200	"	1000		90.1	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	50-150			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch B9F0305 - EPA 3580

Matrix Spike (B9F0305-MS1)		Source: Y906002-01			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Gasoline (C6-C10)	908	50.0	mg/kg	1000	ND	90.8	70-130			
Diesel (C10-C28)	889	50.0	"	1000	19.3	87.0	70-130			
Residual Range Organics (C28-C40)	823	200	"	1000	11.3	81.1	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.4	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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch B9F0305 - EPA 3580

Matrix Spike (B9F0305-MS2)		Source: Y905472-04			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Gasoline (C6-C10)	876	50.0	mg/kg	1000	ND	87.6	70-130			
Diesel (C10-C28)	860	50.0	"	1000	21.8	83.9	70-130			
Residual Range Organics (C28-C40)	791	200	"	1000	8.09	78.3	70-130			
Surrogate: o-Terphenyl	35.9		"	50.0		71.8	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch B9F0305 - EPA 3580

Matrix Spike (B9F0305-MS3)		Source: Y906030-04			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Gasoline (C6-C10)	929	50.0	mg/kg	1000	ND	92.9	70-130			
Diesel (C10-C28)	915	50.0	"	1000	18.7	89.6	70-130			
Residual Range Organics (C28-C40)	880	200	"	1000	9.37	87.1	70-130			
Surrogate: o-Terphenyl	46.7		"	50.0		93.3	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch B9F0305 - EPA 3580

Matrix Spike Dup (B9F0305-MSD1)		Source: Y906002-01			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Gasoline (C6-C10)	906	50.0	mg/kg	1000	ND	90.6	70-130	0.289	35	
Diesel (C10-C28)	875	50.0	"	1000	19.3	85.6	70-130	1.58	35	
Residual Range Organics (C28-C40)	827	200	"	1000	11.3	81.6	70-130	0.503	35	
Surrogate: o-Terphenyl	44.3		"	50.0		88.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Frederiksen 1 Battery

## 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 B9F0305 - EPA 3580

Matrix Spike Dup (B9F0305-MSD2)		Source: Y905472-04			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Gasoline (C6-C10)	987	50.0	mg/kg	1000	ND	98.7	70-130	11.9	35	
Diesel (C10-C28)	990	50.0	"	1000	21.8	96.8	70-130	14.0	35	
Residual Range Organics (C28-C40)	937	200	"	1000	8.09	92.9	70-130	16.8	35	
Surrogate: o-Terphenyl	48.2		"	50.0		96.4	50-150			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Frederiksen 1 Battery

## 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 B9F0305 - EPA 3580

Matrix Spike Dup (B9F0305-MSD3)		Source: Y906030-04			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Gasoline (C6-C10)	935	50.0	mg/kg	1000	ND	93.5	70-130	0.663	35	
Diesel (C10-C28)	911	50.0	"	1000	18.7	89.3	70-130	0.371	35	
Residual Range Organics (C28-C40)	863	200	"	1000	9.37	85.4	70-130	1.93	35	
Surrogate: o-Terphenyl	47.2		"	50.0		94.4	50-150			

Origins Laboratory, Inc.



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Dan Coloccia  
Project Number: [none]  
Project: CPR - Frederiksen 1 Battery

## 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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## 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 B9F0306 - NO PREP

<b>Duplicate (B9F0306-DUP1)</b>		<b>Source: Y906001-01</b>			Prepared: 06/03/2019 Analyzed: 06/03/2019					
pH	8.68		pH Units		8.87			2.17	25	

#### Batch B9F0307 - NO PREP

<b>Blank (B9F0307-BLK1)</b>		Prepared: 06/03/2019 Analyzed: 06/03/2019								
Specific Conductance (EC)	0.00320	0.00500	mmhos/cm							
<b>Duplicate (B9F0307-DUP1)</b>		<b>Source: Y906001-01</b>			Prepared: 06/03/2019 Analyzed: 06/03/2019					
Specific Conductance (EC)	0.175	0.00505	mmhos/cm		0.180			2.99	25	

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Frederiksen 1 Battery

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

Origins Laboratory, Inc.



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