



June 06, 2019

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

Project Name - CPR - Billings 1 Battery

Project Number - [none]

Attached are your analytical results for CPR - Billings 1 Battery received by Origins Laboratory, Inc. May 31, 2019. This project is associated with Origins project number Y906007-01.

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 - Billings 1 Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@2.5-5'	Y906007-01	Soil	May 31, 2019 13:20	05/31/2019 16:30

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 - Billings 1 Battery

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y906007

Client: Eagle

Client Project ID: CPR - Billings 1 Battery

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 6/3/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 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 ^{(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"/>		
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 NaAsO 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 (Project Manager) JG

Date/Time Reviewed 6/4/19

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

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

SB-01@2.5-5'
5/31/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906007-01 (Soil)

BTEX by EPA 8260D

Benzene	0.651	0.050	mg/kg	25	B9F0304	JTD	06/03/2019	06/05/2019	
Toluene	0.056	0.050	"	"	"	JTD	"	"	
Ethylbenzene	0.548	0.050	"	"	"	JTD	"	"	
Xylenes, total	5.02	0.050	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Metals (Saturated Paste Prep)

Calcium	13.74		me/L	1	'[none]'		06/04/2019	06/06/2019	
Magnesium	5.49		"	"	"		"	"	
Sodium	3.16		"	"	"		"	"	

pH in Soil by EPA 9045D

pH	9.04		pH Units	1	B9F0306	OLAB	06/03/2019	06/03/2019	
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SAR by 20B Saturated Paste

SAR	1.02			1	'[none]'		06/04/2019	06/06/2019	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.238	0.00505	mmhos/cm	1	B9F0307	OLAB	06/03/2019	06/03/2019	
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 Denver CO 80211

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

SB-01@2.5-5'

5/31/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y906007-01 (Soil)

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	83.6	50.0	mg/kg	1	B9F0305	JTD	06/03/2019	06/04/2019	
Diesel (C10-C28)	50.8	50.0	"	"	"	JTD	"	"	
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U
Surrogate: o-Terphenyl	87.0 %			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 - Billings 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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.15</i>		<i>"</i>	<i>0.125</i>		<i>119</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.11</i>		<i>"</i>	<i>0.125</i>		<i>89.2</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.13</i>		<i>"</i>	<i>0.125</i>		<i>101</i>	<i>70-130</i>			

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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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 Project Number: [none]
 Project: CPR - Billings 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)

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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 Project Number: [none]
 Project: CPR - Billings 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)

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
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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 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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
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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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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
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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 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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

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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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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

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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 4101 Inca Street
 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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

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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 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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 (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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 Denver CO 80211

Dan Coloccia
 Project Number: [none]
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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

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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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 (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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Extractable Petroleum Hydrocarbons by 8015D - 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 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			

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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 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.



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.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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			

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 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 Project: CPR - Billings 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

Duplicate (B9F0306-DUP1)

Source: Y906001-01

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

pH	8.68		pH Units		8.87			2.17	25	
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Batch B9F0307 - NO PREP

Blank (B9F0307-BLK1)

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

Specific Conductance (EC)	0.00320	0.00500	mmhos/cm							
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Duplicate (B9F0307-DUP1)

Source: Y906001-01

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

Specific Conductance (EC)	0.175	0.00505	mmhos/cm		0.180			2.99	25	
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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: CPR - Billings 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.

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