



July 17, 2019

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - CPR - Woolley A1 Battery

Project Number - [none]

Attached are your analytical results for CPR - Woolley A1 Battery received by Origins Laboratory, Inc. July 11, 2019. This project is associated with Origins project number Y907164-01.

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.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: CPR - Woolley A1 Battery

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@5-7.5'	Y907164-01	Soil	July 10, 2019 14:40	07/11/2019 10:40

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Woolley A1 Battery

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y907164

Client: Eagle  
 Client Project ID: Woolley A1 Battery

Checklist Completed by: JG  
 Date/Time completed: 7/11/2019

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.1 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

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> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water - Is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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 subchronic analysis in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaOH, Na2CO3, NaHCO3)			/	
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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/12/19

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Woolley A1 Battery

**SB-01@5-7.5'**  
**7/10/2019 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907164-01 (Soil)**

**BTEX by EPA 8260D**

Benzene	ND	0.050	mg/kg	25	B9G1106	KDK	07/11/2019	07/12/2019	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	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	"	

**Metals (Saturated Paste Prep)**

Calcium	<b>5.38</b>		me/L	1	[none]		07/12/2019	07/16/2019	
Magnesium	<b>2.37</b>		"	"	"		"	"	
Sodium	<b>5.07</b>		"	"	"		"	"	

**pH in Soil by EPA 9045D**

pH	<b>8.69</b>		pH Units	1	B9G1109	OLAB	07/11/2019	07/11/2019	
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**SAR by 20B Saturated Paste**

SAR	<b>2.58</b>			1	[none]		07/12/2019	07/16/2019	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.0802</b>	0.00505	mmhos/cm	1	B9G1110	OLAB	07/11/2019	07/11/2019	
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**SB-01@5-7.5'**

**7/10/2019 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y907164-01 (Soil)**

**TPH-Carbon Chain by EPA 8015D**

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9G1107	KDK	07/11/2019	07/12/2019	U
Diesel (C10-C28)	<b>62.6</b>	50.0	"	"	"	KDK	"	"	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 82.2 % 50-150 " " "

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Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Woolley A1 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 B9G1106 - EPA 5030 (soil)**

**Blank (B9G1106-BLK1)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

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	0.11		"	0.125		85.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	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 B9G1106 - EPA 5030 (soil)**

**Blank (B9G1106-BLK2)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

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>	0.12		"	0.125		92.2	70-130			
<i>Surrogate: Toluene-d8</i>	0.13		"	0.125		103	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.12		"	0.125		98.3	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 B9G1106 - EPA 5030 (soil)**

**LCS (B9G1106-BS1)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	0.106	0.002	mg/kg	0.100		106	70-130			
Toluene	0.098	0.002	"	0.100		98.2	70-130			
Ethylbenzene	0.108	0.002	"	0.100		108	70-130			
m,p-Xylene	0.212	0.004	"	0.200		106	70-130			
o-Xylene	0.111	0.002	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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 B9G1106 - EPA 5030 (soil)**

**LCS (B9G1106-BS2)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Benzene	0.098	0.002	mg/kg	0.100		97.9	70-130			
Toluene	0.102	0.002	"	0.100		102	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.206	0.004	"	0.200		103	70-130			
o-Xylene	0.107	0.002	"	0.100		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	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 B9G1106 - EPA 5030 (soil)**

<b>Matrix Spike (B9G1106-MS1)</b>	<b>Source: Y907163-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Benzene	0.096	0.002	mg/kg	0.100	ND	95.7	70-130			
Toluene	0.091	0.002	"	0.100	ND	90.9	70-130			
Ethylbenzene	0.103	0.002	"	0.100	0.0008	102	70-130			
m,p-Xylene	0.202	0.004	"	0.200	0.003	99.5	70-130			
o-Xylene	0.106	0.002	"	0.100	0.001	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	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 B9G1106 - EPA 5030 (soil)

Matrix Spike (B9G1106-MS2)	Source: Y907169-01			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Benzene	0.090	0.002	mg/kg	0.100	ND	90.3	70-130			
Toluene	0.087	0.002	"	0.100	ND	86.7	70-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	95.1	70-130			
m,p-Xylene	0.188	0.004	"	0.200	ND	94.2	70-130			
o-Xylene	0.100	0.002	"	0.100	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	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 B9G1106 - EPA 5030 (soil)

Matrix Spike Dup (B9G1106-MSD1)	Source: Y907163-01			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Benzene	0.098	0.002	mg/kg	0.100	ND	98.4	70-130	2.74	20	
Toluene	0.093	0.002	"	0.100	ND	93.5	70-130	2.75	20	
Ethylbenzene	0.086	0.002	"	0.100	0.0008	85.4	70-130	17.5	20	
m,p-Xylene	0.172	0.004	"	0.200	0.003	84.5	70-130	16.1	20	
o-Xylene	0.093	0.002	"	0.100	0.001	91.1	70-130	13.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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 Project Number: [none]  
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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 B9G1106 - EPA 5030 (soil)**

Matrix Spike Dup (B9G1106-MSD2)	Source: Y907169-01			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Benzene	0.086	0.002	mg/kg	0.100	ND	85.9	70-130	5.02	20	
Toluene	0.082	0.002	"	0.100	ND	82.4	70-130	5.08	20	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.4	70-130	8.46	20	
m,p-Xylene	0.172	0.004	"	0.200	ND	86.0	70-130	9.10	20	
o-Xylene	0.091	0.002	"	0.100	ND	91.2	70-130	9.31	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	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
<b>Batch B9G1107 - EPA 3580</b>										
<b>Blank (B9G1107-BLK1)</b>										
					Prepared: 07/11/2019 Analyzed: 07/11/2019					
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	41.4		"	50.0		82.7	50-150			

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Dan Coloccia  
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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 B9G1107 - EPA 3580</b>										
<b>Blank (B9G1107-BLK2)</b>										
					Prepared: 07/11/2019 Analyzed: 07/11/2019					
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	38.3		"	50.0		76.6	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 B9G1107 - EPA 3580**

**LCS (B9G1107-BS1)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Gasoline (C6-C10)	925	50.0	mg/kg	1000		92.5	70-130			
Diesel (C10-C28)	945	50.0	"	1000		94.5	70-130			
Residual Range Organics (C28-C40)	880	200	"	1000		88.0	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.2	50-150			

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Dan Coloccia  
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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 B9G1107 - EPA 3580**

**LCS (B9G1107-BS2)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Gasoline (C6-C10)	892	50.0	mg/kg	1000		89.2	70-130			
Diesel (C10-C28)	929	50.0	"	1000		92.9	70-130			
Residual Range Organics (C28-C40)	837	200	"	1000		83.7	70-130			
Surrogate: o-Terphenyl	45.8		"	50.0		91.7	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 B9G1107 - EPA 3580**

<b>Matrix Spike (B9G1107-MS1)</b>	<b>Source: Y907160-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Gasoline (C6-C10)	889	50.0	mg/kg	1000	21.8	86.7	70-130			
Diesel (C10-C28)	931	50.0	"	1000	ND	93.1	70-130			
Residual Range Organics (C28-C40)	845	200	"	1000	ND	84.5	70-130			
Surrogate: o-Terphenyl	47.9		"	50.0		95.8	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Woolley A1 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 B9G1107 - EPA 3580**

<b>Matrix Spike (B9G1107-MS2)</b>	<b>Source: Y907169-01</b>			Prepared: 07/11/2019 Analyzed: 07/11/2019						
Gasoline (C6-C10)	994	50.0	mg/kg	1000	26.5	96.7	70-130			
Diesel (C10-C28)	976	50.0	"	1000	ND	97.6	70-130			
Residual Range Organics (C28-C40)	886	200	"	1000	ND	88.6	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.5	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 B9G1107 - EPA 3580**

<b>Matrix Spike Dup (B9G1107-MSD1)</b>	<b>Source: Y907160-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Gasoline (C6-C10)	977	50.0	mg/kg	1000	21.8	95.5	70-130	9.45	35	
Diesel (C10-C28)	1030	50.0	"	1000	ND	103	70-130	9.77	35	
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130	14.6	35	
Surrogate: o-Terphenyl	52.6		"	50.0		105	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Woolley A1 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 B9G1107 - EPA 3580**

<b>Matrix Spike Dup (B9G1107-MSD2)</b>	<b>Source: Y907169-01</b>			<b>Prepared: 07/11/2019 Analyzed: 07/11/2019</b>						
Gasoline (C6-C10)	864	50.0	mg/kg	1000	26.5	83.7	70-130	14.0	35	
Diesel (C10-C28)	840	50.0	"	1000	ND	84.0	70-130	15.0	35	
Residual Range Organics (C28-C40)	734	200	"	1000	ND	73.4	70-130	18.7	35	
Surrogate: o-Terphenyl	42.7		"	50.0		85.4	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: CPR - Woolley A1 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 B9G1109 - NO PREP**

**Duplicate (B9G1109-DUP1)**

**Source: Y907160-01**

Prepared: 07/11/2019 Analyzed: 07/11/2019

pH	8.23		pH Units		8.22			0.122	25	
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**Batch B9G1110 - NO PREP**

**Blank (B9G1110-BLK1)**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Specific Conductance (EC)	0.00150	0.00500	mmhos/cm							
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**Duplicate (B9G1110-DUP1)**

**Source: Y907160-01**

Prepared: 07/11/2019 Analyzed: 07/11/2019

Specific Conductance (EC)	0.0940	0.00500	mmhos/cm		0.0940			0.00	25	
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Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: CPR - Woolley A1 Battery

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**Notes and Definitions**

U Sample is Non-Detect.

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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