



May 10, 2019

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - CPR - Grenemeyer 1 & Howard 13 Battery**    **Project Number - [none]**

Attached are your analytical results for CPR - Grenemeyer 1 & Howard 13 Battery received by Origins Laboratory, Inc. May 06, 2019. This project is associated with Origins project number Y905069-01.

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 - Grenemeyer 1 & Howard 13  
Battery

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@7.5-8.5	Y905069-01	Soil	May 6, 2019 12:40	05/06/2019 17:25

Origins Laboratory, Inc.



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Project Number: [none]  
Project: CPR - Grenemeyer 1 & Howard 13  
Battery

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: EAGLE  
 Address: 401 INCA ST.  
DENVER, CO 80211  
 Telephone Number: 303-433-0479  
 Email Address: DELMO@EAGLE-ENVIRO.COM

Project Manager: DANIEL COLACICCA  
 Project Name: CPR-GREENHOUSE 1 & HOWARD 13 BATTERY  
 Project Number: -  
 Samples Collected By: SV

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analyst				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	TPH	SVR	PH		EC
SB-01@7.5-8.5	5/6/19	12:40	2	X						X			X	X	X	CRESTONE RATES
Relinquished By: <u>[Signature]</u>	Date: <u>5/6/19</u>	Time: <u>17:25</u>	Received By: <u>[Signature]</u>	Date: <u>5/6/19</u>	Time: <u>17:25</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>										

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

Temp Received: 0.6

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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Project Number: [none]

Project: CPR - Grenemeyer 1 & Howard 13 Battery

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y905069

Client: Eagle

Client Project ID: Grenemeyer 1 & Howard

Checklist Completed by: JG

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

Date/time completed: 5 / 7 / 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 <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) [Signature]

Date/Time Reviewed 5/8/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Denver CO 80211

Dan Coloccia  
Project Number: [none]  
Project: CPR - Grenemeyer 1 & Howard 13  
Battery

SB-01@7.5-8.5  
5/6/2019 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y905069-01 (Soil)

**BTEX by EPA 8260D**

Benzene	ND	0.002	mg/kg	1	B9E0703	KDK	05/07/2019	05/07/2019	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	96.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

**Metals (Saturated Paste Prep)**

Calcium	26.72	me/L	1	'[none]'	05/08/2019	05/10/2019
Magnesium	12.89	"	"	"	"	"
Sodium	43.77	"	"	"	"	"

**pH in Soil by EPA 9045D**

pH	7.17	pH Units	1	B9E0705	OLAB	05/07/2019	05/07/2019
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**SAR by 20B Saturated Paste**

SAR	9.84		1	'[none]'	05/08/2019	05/10/2019
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	1.62	0.00500	mmhos/cm	1	B9E0706	OLAB	05/07/2019	05/07/2019
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SB-01@7.5-8.5

5/6/2019 12:40:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.

Y905069-01 (Soil)

## TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B9E0704	JTD	05/07/2019	05/07/2019	U
Diesel (C10-C28)	ND	50.0	"	"	"	JTD	"	"	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	97.8 %	50-150	"	"	"
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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 B9E0703 - EPA 5030 (soil)**

**Blank (B9E0703-BLK1)**

Prepared: 05/07/2019 Analyzed: 05/07/2019

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	108		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President



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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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**Batch B9E0703 - EPA 5030 (soil)**

**LCS (B9E0703-BS1)**

Prepared: 05/07/2019 Analyzed: 05/07/2019

Benzene	0.091	0.002	mg/kg	0.100		90.7	70-130			
Toluene	0.091	0.002	"	0.100		90.6	70-130			
Ethylbenzene	0.087	0.002	"	0.100		87.5	70-130			
m,p-Xylene	0.178	0.004	"	0.200		88.9	70-130			
o-Xylene	0.091	0.002	"	0.100		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 B9E0703 - EPA 5030 (soil)**

Matrix Spike (B9E0703-MS1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	0.084	0.002	mg/kg	0.100	ND	84.5	70-130			
Toluene	0.081	0.002	"	0.100	ND	80.7	70-130			
Ethylbenzene	0.076	0.002	"	0.100	ND	76.1	70-130			
m,p-Xylene	0.155	0.004	"	0.200	ND	77.6	70-130			
o-Xylene	0.079	0.002	"	0.100	0.0003	78.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	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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**Batch B9E0703 - EPA 5030 (soil)**

Matrix Spike Dup (B9E0703-MSD1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.9	70-130	2.82	20	
Toluene	0.084	0.002	"	0.100	ND	83.6	70-130	3.60	20	
Ethylbenzene	0.082	0.002	"	0.100	ND	82.0	70-130	7.46	20	
m,p-Xylene	0.168	0.004	"	0.200	ND	83.9	70-130	7.87	20	
o-Xylene	0.085	0.002	"	0.100	0.0003	85.3	70-130	7.85	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 B9E0704 - EPA 3580

Blank (B9E0704-BLK1)

Prepared: 05/07/2019 Analyzed: 05/07/2019

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	47.7		"	50.0		95.3	50-150			

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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 B9E0704 - EPA 3580**

**Blank (B9E0704-BLK2)**

Prepared: 05/07/2019 Analyzed: 05/07/2019

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	53.2		"	50.0		106	50-150			

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Project Number: [none]

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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 B9E0704 - EPA 3580**

**LCS (B9E0704-BS1)**

Prepared: 05/07/2019 Analyzed: 05/07/2019

Gasoline (C6-C10)	1040	50.0	mg/kg	1000		104	70-130			
Diesel (C10-C28)	1050	50.0	"	1000		105	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	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 B9E0704 - EPA 3580

**LCS (B9E0704-BS2)**

Prepared: 05/07/2019 Analyzed: 05/07/2019

Gasoline (C6-C10)	1040	50.0	mg/kg	1000		104	70-130			
Diesel (C10-C28)	1010	50.0	"	1000		101	70-130			
Residual Range Organics (C28-C40)	987	200	"	1000		98.7	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	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 B9E0704 - EPA 3580**

Matrix Spike (B9E0704-MS1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	1050	50.0	mg/kg	1000	18.0	103	70-130			
Diesel (C10-C28)	1020	50.0	"	1000	13.9	101	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	12.1	99.8	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	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 B9E0704 - EPA 3580**

Matrix Spike (B9E0704-MS2)		Source: Y905090-03			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	1040	50.0	mg/kg	1000	ND	104	70-130			
Diesel (C10-C28)	1030	50.0	"	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	5.60	103	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	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 B9E0704 - EPA 3580**

Matrix Spike Dup (B9E0704-MSD1)		Source: Y905067-01			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	936	50.0	mg/kg	1000	18.0	91.8	70-130	11.1	35	
Diesel (C10-C28)	929	50.0	"	1000	13.9	91.5	70-130	9.37	35	
Residual Range Organics (C28-C40)	881	200	"	1000	12.1	86.9	70-130	13.6	35	
Surrogate: o-Terphenyl	46.2		"	50.0		92.3	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 B9E0704 - EPA 3580**

Matrix Spike Dup (B9E0704-MSD2)		Source: Y905090-03			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Gasoline (C6-C10)	1070	50.0	mg/kg	1000	ND	107	70-130	2.46	35	
Diesel (C10-C28)	1060	50.0	"	1000	ND	106	70-130	2.74	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	5.60	102	70-130	0.634	35	
Surrogate: o-Terphenyl	53.5		"	50.0		107	50-150			

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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.*

Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: CPR - Grenemeyer 1 & Howard 13  
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 B9E0705 - NO PREP

<b>Duplicate (B9E0705-DUP1)</b>		<b>Source: Y905069-01</b>			Prepared: 05/07/2019 Analyzed: 05/07/2019					
pH	6.93		pH Units		7.17			3.40	25	

### Batch B9E0706 - NO PREP

<b>Blank (B9E0706-BLK1)</b>		Prepared: 05/07/2019 Analyzed: 05/07/2019								
Specific Conductance (EC)	0.00320	0.00500	mmhos/cm							
<b>Duplicate (B9E0706-DUP1)</b>		<b>Source: Y905069-01</b>			Prepared: 05/07/2019 Analyzed: 05/07/2019					
Specific Conductance (EC)	1.97	0.00505	mmhos/cm		1.62			19.8	25	

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Project Number: [none]

Project: CPR - Grenemeyer 1 & Howard 13  
Battery

### 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.

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