

January 06, 2022

**A.G. Wassenaar**

**Rachel Peterson**

**2180 South Ivanhoe Street - Suite 5**

**Denver**

**CO 80222**

**Project Name - Raindance FD Pad**

**Project Number - 170054**

Attached are your analytical results for Raindance FD Pad received by Origins Laboratory, Inc. December 28, 2021. This project is associated with Origins project number Y112614-01.

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



A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 170054

Project: Raindance FD Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Everitt-3622328	Y112614-01	Water	December 28, 2021 9:40	12/28/2021 12:30

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager



A.G. Wassenaar  
 2180 South Ivanhoe Street - Suite 5  
 Denver CO 80222

Rachel Peterson  
 Project Number: 170054  
 Project: Raindance FD Pad

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4112614

Client: AG Wassenaar

Client Project ID: Raindance FD Pad

Checklist Completed by: JKH

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

Date/time completed: 12/21/12

Airbill #: NA

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

Cooler Number/Temperature: 1 / 1.7 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1003

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? <b>If yes, contact client and note in narrative.</b>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	nct checked
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) JM

Date/Time Reviewed 12-29-21

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 Denver CO 80222

Rachel Peterson  
 Project Number: 170054  
 Project: Raindance FD Pad

**Everitt-3622328**

**12/28/2021 9:40:00AM**

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

**GEL Laboratories, LLC**  
**Y112614-01 (Water)**

**Alkalinity by SM 2320B**

Alkalinity, Total as CaCO <sub>3</sub>	323	4.00	mg/L	1	2209753	RXB5	12/28/2021	12/29/2021	
Bicarbonate alkalinity (CaCO <sub>3</sub> )	323	4.00	"	"	"	RXB5	"	"	
Carbonate alkalinity (CaCO <sub>3</sub> )	ND	4.00	"	"	"	RXB5	"	"	U

**Anions by EPA 300.0**

Bromide	0.648	0.200	mg/L	1	2213202	HXC1	"	12/30/2021	
Chloride	45.7	20.0	"	100	"	HXC1	"	"	
Fluoride	ND	0.100	"	1	"	HXC1	"	"	U
Sulfate	1210	40.0	"	100	"	HXC1	"	"	

**BTEX by EPA 8260D**

Benzene	ND	1.00	ug/L	1	B1L2810	ZZZ	12/28/2021	01/02/2022	Ua
Toluene	ND	1.00	"	"	"	ZZZ	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

**Dissolved Gasses by RSK 175**

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Rachel Peterson  
 Project Number: 170054  
 Project: Raindance FD Pad

**Everitt-3622328**  
**12/28/2021 9:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Pace Analytical**  
**Y112614-01 (Water)**

**Dissolved Gasses by RSK 175**

Ethane	ND	10.0	ug/L	1	11111		01/04/2022	01/04/2022	
Methane	ND	10.0	"	"	"		"	"	
n-Propane	ND	10.0	"	"	"		"	"	

**Dissolved Metals by 200.8**

Calcium	<b>90.8</b>	4.00	mg/L	20	2213073	SKJ	12/30/2021	01/04/2022	
Magnesium	<b>16.6</b>	0.0300	"	1	"	SKJ	"	"	
Potassium	<b>5.19</b>	0.300	"	"	"	SKJ	"	"	
Sodium	<b>580</b>	5.00	"	20	"	SKJ	"	"	

**DRO by 8015C**

Diesel Range Organics	<b>0.0880</b>	0.187	mg/L	1	2213405	RXC1	01/03/2022	01/04/2022	J
<i>Surrogate: o-Terphenyl</i>	47 %	37-112			"	"	"	"	

**GRO by 8015D**

Gasoline Range Organics	ND	0.100	mg/L	1	2214175	JEB	12/28/2021	01/04/2022	U
<i>Surrogate: Bromofluorobenzene</i>	82 %	72-129			"	"	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	<b>1920</b>	5.00	mg/L	1	B1L2901	SCL	12/29/2021	01/03/2022	
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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 B1L2810 - EPA 5030B (Water)**

**Blank (B1L2810-BLK1)**

Prepared: 12/28/2021 Analyzed: 01/02/2022

Benzene	ND	1.00	ug/L							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
<i>Surrogate: 1,2-Dichloroethane-d4</i>	87		"	62.5		139	70-130			
<i>Surrogate: Toluene-d8</i>	58		"	62.5		92.6	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	64		"	62.5		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 B1L2810 - EPA 5030B (Water)**

**LCS (B1L2810-BS1)**

Prepared: 12/28/2021 Analyzed: 01/02/2022

Benzene	50.2	1.00	ug/L	50.0		100	70-130			
Toluene	46.3	1.00	"	50.0		92.6	70-130			
Ethylbenzene	46.2	1.00	"	50.0		92.4	70-130			
m,p-Xylene	93.3	2.00	"	100		93.3	70-130			
o-Xylene	45.1	1.00	"	50.0		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 B1L2810 - EPA 5030B (Water)**

Matrix Spike (B1L2810-MS1)	Source: Y112610-01			Prepared: 12/28/2021 Analyzed: 01/02/2022						
Benzene	61.2	1.00	ug/L	50.0	ND	122	70-130			
Toluene	55.2	1.00	"	50.0	ND	110	70-130			
Ethylbenzene	54.7	1.00	"	50.0	ND	109	70-130			
m,p-Xylene	112	2.00	"	100	0.170	112	70-130			
o-Xylene	55.5	1.00	"	50.0	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		111	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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 B1L2810 - EPA 5030B (Water)**

Matrix Spike Dup (B1L2810-MSD1)	Source: Y112610-01			Prepared: 12/28/2021 Analyzed: 01/02/2022						
Benzene	57.4	1.00	ug/L	50.0	ND	115	70-130	6.34	20	
Toluene	51.5	1.00	"	50.0	ND	103	70-130	6.90	20	
Ethylbenzene	49.5	1.00	"	50.0	ND	99.0	70-130	9.98	20	
m,p-Xylene	101	2.00	"	100	0.170	101	70-130	10.5	20	
o-Xylene	50.2	1.00	"	50.0	ND	100	70-130	9.99	20	
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	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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**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 B1L2901 - NO PREP**

**Blank (B1L2901-BLK1)**

Prepared: 12/29/2021 Analyzed: 01/03/2022

Total Dissolved Solids ND 5.00 mg/L

**LCS (B1L2901-BS1)**

Prepared: 12/29/2021 Analyzed: 01/03/2022

Total Dissolved Solids 989 5.00 mg/L 1000 98.9 90-110

**Duplicate (B1L2901-DUP1)**

**Source: Y112607-01**

Prepared: 12/29/2021 Analyzed: 01/03/2022

Total Dissolved Solids 930 5.00 mg/L 941 1.18 10

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**Alkalinity by SM 2320B - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2209753 -</b>										
<b>LCS (1204982154-BKS)</b>					Prepared: Analyzed: 12/29/2021					
Alkalinity, Total as CaCO3	108	4.00	mg/L	100		108	90-110			
<b>DUP (1204982155 D)</b>		<b>Source: 565322001</b>			Prepared: Analyzed: 12/29/2021					
Alkalinity, Total as CaCO3	93.0	4.00	mg/L		91.8		0-20	1.3	20	
<b>MS (1204982157 S)</b>		<b>Source: 565322001</b>			Prepared: Analyzed: 12/29/2021					
Alkalinity, Total as CaCO3	200	4.00	mg/L	100	91.8	108	80-120			

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**Anions by EPA 300.0 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2213202 -**

**BLANK (1204988781-BLK)**

Prepared: Analyzed: 12/29/2021

Chloride	ND	0.200	mg/L				-			U
Bromide	ND	0.200	"				-			U
Fluoride	ND	0.100	"				-			U
Sulfate	ND	0.400	"				-			U

**LCS (1204988782-BKS)**

Prepared: Analyzed: 12/29/2021

Sulfate	9.55	0.400	mg/L	10.0		95.5	90-110			
Fluoride	2.38	0.100	"	2.50		95.1	90-110			
Chloride	4.61	0.200	"	5.00		92.2	90-110			
Bromide	1.31	0.200	"	1.25		104	90-110			

**DUP (1204988785 D)**

Source: Y112614-01

Prepared: Analyzed: 12/30/2021

Chloride	46.0	20.0	mg/L		45.7		0-20	0.545	20	
Fluoride	ND	0.100	"		<0.0330		0-20	0	20	U
Sulfate	1030	40.0	"		1210		0-20	16.1	20	
Bromide	0.651	0.200	"		0.648		0-20	0.37	20	

**PS (1204988786 S)**

Source: Y112614-01

Prepared: Analyzed: 12/30/2021

Bromide	1.74	0.200	mg/L	1.25		87.4	90-110			
Fluoride	2.00	0.100	"	2.50		80	90-110			
Sulfate	2020	40.0	"	10.0		81.3	90-110			
Chloride	509	20.0	"	5.00		92.7	90-110			

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**Dissolved Metals by 200.8 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2213073 -</b>										
<b>FLTB (1204988436-BLK)</b>					Prepared: 12/30/2021 Analyzed: 01/04/2022					
Sodium	ND	0.250	mg/L				-			U
Calcium	ND	0.200	"				-			U
Potassium	ND	0.300	"				-			U
Magnesium	ND	0.0300	"				-			U
<b>BLANK (1204988444-BLK)</b>					Prepared: 12/30/2021 Analyzed: 01/04/2022					
Sodium	ND	0.250	mg/L				-			U
Potassium	ND	0.300	"				-			U
Magnesium	ND	0.0300	"				-			U
Calcium	ND	0.200	"				-			U
<b>LCS (1204988445-BKS)</b>					Prepared: 12/30/2021 Analyzed: 01/04/2022					
Calcium	2.22	0.200	mg/L	2.00		111	85-115			
Magnesium	2.15	0.0300	"	2.00		107	85-115			
Potassium	2.13	0.300	"	2.00		106	85-115			
Sodium	2.08	0.250	"	2.00		104	85-115			
<b>DUP (1204988446 D)</b>					<b>Source: Y112614-01</b>		Prepared: 12/30/2021 Analyzed: 01/04/2022			
Calcium	90.3	4.00	mg/L		90.8		0-20	0.61	20	
Magnesium	16.2	0.0300	"		16.6		0-20	2.7	20	
Potassium	5.10	0.300	"		5.19		0-20	1.83	20	
Sodium	576	5.00	"		580		0-20	0.662	20	
<b>MS (1204988447 S)</b>					<b>Source: Y112614-01</b>		Prepared: 12/30/2021 Analyzed: 01/04/2022			
Potassium	7.09	0.300	mg/L	2.00	5.19	94.6	75-125			
Sodium	573	5.00	"	2.00	580	0	75-125			
Calcium	93.6	4.00	"	2.00	90.8	0	75-125			
Magnesium	17.9	0.0300	"	2.00	16.6	0	75-125			

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**Dissolved Metals by 200.8 - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2213073 - EPA 200.2

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**DRO by 8015C - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2213405 - SW846 3535A</b>										
<b>BLANK (1204989162-BLK)</b>					Prepared: 01/03/2022 Analyzed: 01/04/2022					
Diesel Range Organics	ND	0.200	mg/L				-			U
Surrogate: o-Terphenyl	0.0140		"	0.0200		70	37-112			
<b>LCS (1204989163-BKS)</b>					Prepared: 01/03/2022 Analyzed: 01/04/2022					
Diesel Range Organics	0.680	0.200	mg/L	1.00		68	40-107			
Surrogate: o-Terphenyl	0.0152		"	0.0200		76	37-112			
<b>LCSD (1204989164-BKSD)</b>					Prepared: 01/03/2022 Analyzed: 01/04/2022					
Diesel Range Organics	0.567	0.200	mg/L	1.00		57	40-107	18	32	
Surrogate: o-Terphenyl	0.0130		"	0.0200		65	37-112			

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 Project: Raindance FD Pad

**GRO by 8015D - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2214175 -</b>										
<b>LCS (1204990714-BKS)</b>					Prepared: Analyzed: 01/04/2022					
Gasoline Range Organics	0.527	0.100	mg/L	0.500		105	80-120			
Surrogate: Bromofluorobenzene	0.0475		"	0.0500		95	72-129			
<b>BLANK (1204990715-BLK)</b>					Prepared: Analyzed: 01/04/2022					
Gasoline Range Organics	ND	0.100	mg/L				-			U
Surrogate: Bromofluorobenzene	0.0490		"	0.0500		98	72-129			
<b>PS (1204990720 S)</b>					Source: 566121001 Prepared: Analyzed: 01/04/2022					
Gasoline Range Organics	0.564	0.100	mg/L	0.500		101	63-131			
Surrogate: Bromofluorobenzene	0.0523		"	0.0500		105	72-129			
<b>PSD (1204990721 SD)</b>					Source: 566121001 Prepared: Analyzed: 01/04/2022					
Gasoline Range Organics	0.582	0.100	mg/L	0.500		105	63-131	3	30	
Surrogate: Bromofluorobenzene	0.0506		"	0.0500		101	72-129			

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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.

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Rachel Peterson  
Project Number: 170054  
Project: Raindance FD Pad

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**Notes and Definitions**

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- 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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Jordan A. Merrill, Project Manager