

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 13, 2024

Ben Baugh

Entrada Consulting Group

240 Mesa Avenue

Grand Junction., CO 81501

RE: PDC - Box Elder Farms 1

Work Order #2401203

Enclosed are the results of analyses for samples received by Summit Scientific on 01/11/24 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@8	2401203-01	Soil	01/11/24 10:00	01/11/24 17:15
FLR01@4	2401203-02	Soil	01/11/24 10:05	01/11/24 17:15
SEP01-FL@4	2401203-03	Soil	01/11/24 10:30	01/11/24 17:15
SEP01-DL@4	2401203-04	Soil	01/11/24 10:45	01/11/24 17:15
AST01@1	2401203-05	Soil	01/11/24 11:30	01/11/24 17:15
PWV01@5	2401203-06	Soil	01/11/24 13:30	01/11/24 17:15
WDL01@4	2401203-07	Soil	01/11/24 13:35	01/11/24 17:15
BKG01@4	2401203-08	Soil	01/11/24 14:00	01/11/24 17:15
BKG01@6	2401203-09	Soil	01/11/24 14:05	01/11/24 17:15
BKG01@8	2401203-10	Soil	01/11/24 14:10	01/11/24 17:15
BKG02@4	2401203-11	Soil	01/11/24 14:15	01/11/24 17:15
BKG02@6	2401203-12	Soil	01/11/24 14:20	01/11/24 17:15
BKG02@8	2401203-13	Soil	01/11/24 14:25	01/11/24 17:15
BKG03@4	2401203-14	Soil	01/11/24 14:30	01/11/24 17:15
BKG03@6	2401203-15	Soil	01/11/24 14:35	01/11/24 17:15
BKG03@8	2401203-16	Soil	01/11/24 14:40	01/11/24 17:15
BKG04@4	2401203-17	Soil	01/11/24 14:45	01/11/24 17:15
BKG04@6	2401203-18	Soil	01/11/24 14:50	01/11/24 17:15
BKG04@8	2401203-19	Soil	01/11/24 14:55	01/11/24 17:15

Summit Scientific

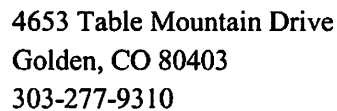
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 2 ^{ms}
2401203.1	

Client: ENTRADA CONSULTING GROUP				Send Data To:				Send Invoice To:											
Address:				Project Manager: <u>REN BAUGH</u>				Company: <u>PDC</u>											
City/State/Zip:				E-Mail: <u>blankenship@entradainc.com</u> ;				Project Name/Location:											
Phone: <u>731-367-9029</u>				PDC + ENTRADA MAILING LIST				AFE#:											
Sampler Name: <u>LINDSEY BLANKENSHIP</u>				Project Name: <u>BOX ELDER FARMS 1</u>				PO/Billing Codes:											
Project Number:				Contact:															
ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative	Matrix	Analysis Requested	Special Instructions											
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	FULL TABLE	915-1	2nd	3rd	4th	Arsenic	
1	WHO1@8	1/11/24	1000	2			X			X			X						STANDARD TAT
2	FLR01@4		1005																
3	SEP01-FL@4		1030																
4	SEP01-DLC@4		1045																
5	AST01@1		1130																
6	PWW01@5		1330																
7	WDL01@4		1335																
8	BKG01@4		1400	1															
9	BKG01@6		1405																
10	BKG01@8		1410																
11	BKG02@4		1415																
12	BKG02@6		1420																
13	BKG02@8		1425																
14	BKG03@4		1430																
15	BKG03@6		1435																
Relinquished by:		Date/Time:		Received by:		Date/Time:		TAT Business Days		Field DO		Notes:							
<i>Lindsey Blankenship</i>		1/11/24, 1703		<i>John DePaol</i>		01-11-24		Same Day		Field EC									
Relinquished by:		Date/Time:		Received by:		Date/Time:		1 Day		Field ORP									
								2 Days		Field pH									
Relinquished by:		Date/Time:		Received by:		Date/Time:		3 Days		Field Temp.									
								Standard		Field Turb.									
Temperature Upon Receipt:				Corrected Temperature <u>13.3</u>				IR gun #: <u>2</u>				HNO3 lot #:							



S₂

Sample Receipt Checklist

S2 Work Order# 2401203Client: Entrada Consulting Group Client Project ID: Box Elder FarmsShipped Via: H.D./P,U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Josh

Custodian Printed Name

01211-24 1715

Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

WH01@8
2401203-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHA0555	01/15/24	01/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0434	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0423	106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0552	01/15/24	01/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	11.4	91.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

WH01@8
2401203-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0520	01/15/24	01/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0517	01/15/24	01/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WH01@8
2401203-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.913	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.02	0.400	"	"	"	"	"	"
Lead	8.08	0.200	"	"	"	"	"	"
Nickel	2.48	0.400	"	"	"	"	"	"
Silver	0.0346	0.0200	"	"	"	"	"	"
Zinc	8.10	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0472	01/12/24	01/12/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	80.8	0.0500	mg/L dry	1	BHA0527	01/15/24	01/17/24	EPA 6020B	
Magnesium	6.36	0.0500	"	"	"	"	"	"	
Sodium	11.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.343	0.00100	units	1	BHA0652	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group
240 Mesa Avenue
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WH01@8
2401203-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.1	%	1	BHA0485	01/12/24	01/12/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.147	0.0100	mmhos/cm	1	BHA0578	01/16/24	01/16/24	EPA 120.1	

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02/13/24 09:12

WH01@8
2401203-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	109	0.400		mg/kg dry	1	BHB0258	01/15/24	02/10/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.56			pH Units	1	BHA0961	01/16/24	01/29/24	EPA 9045D	

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240 Mesa Avenue
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Project: PDC - Box Elder Farms 1
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02/13/24 09:12

FLR01@4
2401203-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0555	01/15/24	01/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0440	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0412	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0552	01/15/24	01/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.31	66.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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FLR01@4
2401203-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.0152	0.00500	mg/kg	1	BHA0520	01/15/24	01/16/24	EPA 8270D SIM	
Anthracene	0.0546	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.112	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0535	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0685	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0283	0.00500	"	"	"	"	"	"	
Chrysene	0.0927	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.00611	0.00500	"	"	"	"	"	"	
Fluoranthene	0.235	0.00500	"	"	"	"	"	"	E
Fluorene	0.0109	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0385	0.00500	"	"	"	"	"	"	
Pyrene	0.230	0.00500	"	"	"	"	"	"	E
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	55.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0137	41.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0517	01/15/24	01/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.17	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

FLR01@4
2401203-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Barium	76.3	0.400	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.67	0.400	"	"	"	"	"	"
Lead	7.78	0.200	"	"	"	"	"	"
Nickel	2.34	0.400	"	"	"	"	"	"
Silver	0.0294	0.0200	"	"	"	"	"	"
Zinc	7.35	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0472	01/12/24	01/12/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	75.5	0.0500	mg/L dry	1	BHA0527	01/15/24	01/17/24	EPA 6020B	
Magnesium	10.1	0.0500	"	"	"	"	"	"	
Sodium	4.20	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.120	0.00100	units	1	BHA0652	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

FLR01@4
2401203-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.7	%	1	BHA0485	01/12/24	01/12/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.154	0.0100	mmhos/cm	1	BHA0578	01/16/24	01/16/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BHA0577	01/16/24	01/16/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-FL@4
2401203-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0555	01/15/24	01/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0434	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0552	01/15/24	01/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.02	72.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-FL@4
2401203-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHA0520	01/15/24	01/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0170	51.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0517	01/15/24	01/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-FL@4
2401203-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.807	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B
Barium	65.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.64	0.400	"	"	"	"	"	"
Lead	6.12	0.200	"	"	"	"	"	"
Nickel	1.65	0.400	"	"	"	"	"	"
Silver	0.0384	0.0200	"	"	"	"	"	"
Zinc	6.81	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0472	01/12/24	01/12/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	102	0.0500	mg/L dry	1	BHA0527	01/15/24	01/17/24	EPA 6020B	
Magnesium	26.7	0.0500	"	"	"	"	"	"	
Sodium	0.790	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0180	0.00100	units	1	BHA0652	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-FL@4
2401203-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.8		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0370	0.0100	mmhos/cm	1	BHA0578	01/16/24	01/16/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.72		pH Units	1	BHA0577	01/16/24	01/16/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-DL@4
2401203-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0555	01/15/24	01/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0439	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0552	01/15/24	01/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.69	45.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-DL@4
2401203-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHA0520	01/15/24	01/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0517	01/15/24	01/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-DL@4
2401203-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.00	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B
Barium	38.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.63	0.400	"	"	"	"	"	"
Lead	12.3	0.200	"	"	"	"	"	"
Nickel	1.37	0.400	"	"	"	"	"	"
Silver	0.0217	0.0200	"	"	"	"	"	"
Zinc	7.45	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0472	01/12/24	01/12/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.66	0.0500	mg/L dry	1	BHA0527	01/15/24	01/17/24	EPA 6020B	
Magnesium	1.21	0.0500	"	"	"	"	"	"	
Sodium	10.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.14	0.00100	units	1	BHA0652	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

SEP01-DL@4
2401203-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.8		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.225	0.0100	mmhos/cm	1	BHA0578	01/16/24	01/16/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	3.60		pH Units	1	BHA0577	01/16/24	01/16/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

AST01@1
2401203-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0555	01/15/24	01/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0371	92.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0552	01/15/24	01/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.84	70.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

AST01@1
2401203-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0520	01/15/24	01/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0517	01/15/24	01/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

AST01@1
2401203-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.593	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B
Barium	55.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.88	0.400	"	"	"	"	"	"
Lead	9.37	0.200	"	"	"	"	"	"
Nickel	1.08	0.400	"	"	"	"	"	"
Silver	0.101	0.0200	"	"	"	"	"	"
Zinc	9.01	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0472	01/12/24	01/12/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.4	0.0500	mg/L dry	1	BHA0527	01/15/24	01/17/24	EPA 6020B	
Magnesium	6.48	0.0500	"	"	"	"	"	"	
Sodium	0.942	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0405	0.00100	units	1	BHA0652	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

AST01@1
2401203-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.377	0.0100	mmhos/cm	1	BHA0578	01/16/24	01/16/24	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.13		pH Units	1	BHA0577	01/16/24	01/16/24	EPA 9045D	

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

PWV01@5
2401203-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0555	01/15/24	01/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0390	97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0504	126 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	220	50	mg/kg	1	BHA0552	01/15/24	01/15/24	EPA 8015M	
C28-C36 (ORO)	150	50	"	"	"	"	"	"	

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.0	88.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

PWV01@5
2401203-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0520	01/15/24	01/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.15	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.10	0.400	"	"	"	"	"	"	
Lead	7.77	0.200	"	"	"	"	"	"	
Nickel	2.91	0.400	"	"	"	"	"	"	
Silver	0.0279	0.0200	"	"	"	"	"	"	
Zinc	9.17	0.400	"	"	"	"	"	"	

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

PWV01@5
2401203-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Selenium	ND	0.260	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B
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Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0472	01/12/24	01/12/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	567	0.0500	mg/L dry	1	BHA0527	01/15/24	01/17/24	EPA 6020B	
Magnesium	15.0	0.0500	"	"	"	"	"	"	
Sodium	106	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.20	0.00100	units	1	BHA0652	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

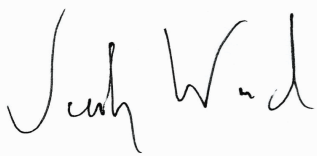
PWV01@5
2401203-06 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Specific Conductance (EC)	0.435	0.0100	mmhos/cm	1	BHA0578	01/16/24	01/16/24	EPA 120.1
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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

PWV01@5
2401203-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0770	01/15/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	110	0.400	mg/kg dry	1	BHB0258	01/15/24	02/10/24	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
pH	9.10		pH Units	1	BHA0961	01/16/24	01/29/24	EPA 9045D	

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

WDL01@4
2401203-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0555	01/15/24	01/15/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0315	78.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0449	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0552	01/15/24	01/15/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.89	47.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

WDL01@4
2401203-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHA0520	01/15/24	01/16/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0517	01/15/24	01/18/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

WDL01@4
2401203-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.987	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B
Barium	78.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.65	0.400	"	"	"	"	"	"
Lead	5.99	0.200	"	"	"	"	"	"
Nickel	2.03	0.400	"	"	"	"	"	"
Silver	0.0346	0.0200	"	"	"	"	"	"
Zinc	7.42	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0472	01/12/24	01/12/24	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	182	0.0500	mg/L dry	1	BHA0527	01/15/24	01/17/24	EPA 6020B	
Magnesium	16.3	0.0500	"	"	"	"	"	"	
Sodium	64.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.22	0.00100	units	1	BHA0652	01/18/24	01/18/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

WDL01@4
2401203-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.8			%	1	BHA0485	01/12/24	01/12/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.227	0.0100		mmhos/cm	1	BHA0578	01/16/24	01/16/24	EPA 120.1	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

WDL01@4
2401203-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.85			pH Units	1	BHA0961	01/16/24	01/29/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG01@4
2401203-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.784	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	86.0	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.7		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.12		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG01@6
2401203-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.985	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	88.7	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.8		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.69		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG01@8
2401203-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.771	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	87.1	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	96.1		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.32		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG02@4
2401203-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.737	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	82.7	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	96.7		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.50		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG02@6
2401203-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.829	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	108	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.8		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.37		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG02@8
2401203-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.864	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	96.9	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	95.4		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.42		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG03@4
2401203-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.812	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	77.4	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.5		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.41		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG03@6
2401203-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.791	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	77.3	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.0		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.48		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG03@8
2401203-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.776	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	70.6	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.3		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.48		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG04@4
2401203-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.654	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	55.2	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.6		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.57		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG04@6
2401203-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.810	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	59.9	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.9		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.46		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

BKG04@8
2401203-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/11/24 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.792	0.200	mg/kg dry	1	BHA0554	01/15/24	01/19/24	EPA 6020B	
Barium	56.9	0.400	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/11/24 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.2		%	1	BHA0485	01/12/24	01/12/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/11/24 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.52		pH Units	1	BHA0822	01/19/24	01/24/24	EPA 9045D	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHA0555 - EPA 5030 Soil MS

Blank (BHA0555-BLK1)

Prepared & Analyzed: 01/15/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0461		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	50-150			

LCS (BHA0555-BS1)

Prepared & Analyzed: 01/15/24

Benzene	0.0819	0.0020	mg/kg	0.100		81.9	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.0932	0.0050	"	0.100		93.2	70-130			
1,2,4-Trimethylbenzene	0.0952	0.0050	"	0.100		95.2	70-130			
1,3,5-Trimethylbenzene	0.0939	0.0050	"	0.100		93.9	70-130			
Naphthalene	0.0869	0.0038	"	0.100		86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0427		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	50-150			

Matrix Spike (BHA0555-MS1)

Source: 2401203-01

Prepared & Analyzed: 01/15/24

Benzene	0.0756	0.0020	mg/kg	0.100	ND	75.6	70-130			
Toluene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
Ethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130			
m,p-Xylene	0.170	0.010	"	0.200	ND	85.0	70-130			
o-Xylene	0.0795	0.0050	"	0.100	ND	79.5	70-130			
1,2,4-Trimethylbenzene	0.0775	0.0050	"	0.100	ND	77.5	70-130			
1,3,5-Trimethylbenzene	0.0773	0.0050	"	0.100	ND	77.3	70-130			
Naphthalene	0.0823	0.0038	"	0.100	ND	82.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0400		111	50-150			
Surrogate: Toluene-d8	0.0451		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	50-150			

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHA0555 - EPA 5030 Soil MS

Matrix Spike Dup (BHA0555-MSD1)	Source: 2401203-01			Prepared & Analyzed: 01/15/24						
Benzene	0.0696	0.0020	mg/kg	0.100	ND	69.6	70-130	8.18	30	QM-07
Toluene	0.0783	0.0050	"	0.100	ND	78.3	70-130	12.3	30	
Ethylbenzene	0.0761	0.0050	"	0.100	ND	76.1	70-130	8.89	30	
m,p-Xylene	0.154	0.010	"	0.200	ND	77.0	70-130	9.89	30	
o-Xylene	0.0722	0.0050	"	0.100	ND	72.2	70-130	9.61	30	
1,2,4-Trimethylbenzene	0.0641	0.0050	"	0.100	ND	64.1	70-130	18.9	30	QM-07
1,3,5-Trimethylbenzene	0.0655	0.0050	"	0.100	ND	65.5	70-130	16.6	30	QM-07
Naphthalene	0.0657	0.0038	"	0.100	ND	65.7	70-130	22.5	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0458		"	0.0400		114	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Summit Scientific

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHA0552 - EPA 3550A

Blank (BHA0552-BLK1)

Prepared & Analyzed: 01/15/24

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

Surrogate: o-Terphenyl	11.0	"	12.5	88.2	30-150
------------------------	------	---	------	------	--------

LCS (BHA0552-BS1)

Prepared & Analyzed: 01/15/24

C10-C28 (DRO)	452	50	mg/kg	500	90.5	70-130
Surrogate: o-Terphenyl	11.6	"	12.5	92.6	30-150	

Matrix Spike (BHA0552-MS1)

Source: 2401203-01

Prepared & Analyzed: 01/15/24

C10-C28 (DRO)	521	50	mg/kg	500	41.0	96.1	70-130
Surrogate: o-Terphenyl	10.4	"	12.5	83.6	30-150		

Matrix Spike Dup (BHA0552-MSD1)

Source: 2401203-01

Prepared & Analyzed: 01/15/24

C10-C28 (DRO)	465	50	mg/kg	500	41.0	84.8	70-130	11.4	20
Surrogate: o-Terphenyl	11.0	"	12.5	87.8	30-150				

Summit Scientific

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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHA0520 - EPA 5030 Soil MS

Blank (BHA0520-BLK1)

Prepared: 01/15/24 Analyzed: 01/16/24

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0359		"	0.0333		108		40-150			
Surrogate: Fluoranthene-d10	0.0293		"	0.0333		88.0		40-150			

LCS (BHA0520-BS1)

Prepared: 01/15/24 Analyzed: 01/16/24

Acenaphthene	0.0310	0.00500	mg/kg	0.0333		92.9		31-137			
Anthracene	0.0310	0.00500	"	0.0333		92.9		30-120			
Benzo (a) anthracene	0.0335	0.00500	"	0.0333		101		30-120			
Benzo (a) pyrene	0.0318	0.00500	"	0.0333		95.4		30-120			
Benzo (b) fluoranthene	0.0324	0.00500	"	0.0333		97.3		30-120			
Benzo (k) fluoranthene	0.0308	0.00500	"	0.0333		92.5		30-120			
Chrysene	0.0310	0.00500	"	0.0333		93.1		30-120			
Dibenz (a,h) anthracene	0.0305	0.00500	"	0.0333		91.5		30-120			
Fluoranthene	0.0300	0.00500	"	0.0333		90.1		30-120			
Fluorene	0.0321	0.00500	"	0.0333		96.4		30-120			
Indeno (1,2,3-cd) pyrene	0.0301	0.00500	"	0.0333		90.3		30-120			
Pyrene	0.0319	0.00500	"	0.0333		95.8		35-142			
1-Methylnaphthalene	0.0335	0.00500	"	0.0333		100		35-142			
2-Methylnaphthalene	0.0301	0.00500	"	0.0333		90.3		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0347		"	0.0333		104		40-150			
Surrogate: Fluoranthene-d10	0.0316		"	0.0333		94.8		40-150			

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHA0520 - EPA 5030 Soil MS

Matrix Spike (BHA0520-MS1)

Source: 2401203-01

Prepared: 01/15/24 Analyzed: 01/16/24

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.3	31-137				
Anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120				
Benzo (a) anthracene	0.0247	0.00500	"	0.0333	ND	74.0	30-120				
Benzo (a) pyrene	0.0229	0.00500	"	0.0333	ND	68.8	30-120				
Benzo (b) fluoranthene	0.0236	0.00500	"	0.0333	ND	70.7	30-120				
Benzo (k) fluoranthene	0.0223	0.00500	"	0.0333	ND	66.8	30-120				
Chrysene	0.0220	0.00500	"	0.0333	ND	65.9	30-120				
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333	ND	61.2	30-120				
Fluoranthene	0.0220	0.00500	"	0.0333	ND	66.1	30-120				
Fluorene	0.0225	0.00500	"	0.0333	ND	67.6	30-120				
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.8	30-120				
Pyrene	0.0207	0.00500	"	0.0333	ND	62.2	35-142				
1-Methylnaphthalene	0.0237	0.00500	"	0.0333	ND	71.2	15-130				
2-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.6	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0278		"	0.0333		83.5	40-150				
Surrogate: Fluoranthene-d10	0.0234		"	0.0333		70.3	40-150				

Matrix Spike Dup (BHA0520-MSD1)

Source: 2401203-01

Prepared: 01/15/24 Analyzed: 01/16/24

Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.2	31-137	1.80	30		
Anthracene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	4.40	30		
Benzo (a) anthracene	0.0229	0.00500	"	0.0333	ND	68.7	30-120	7.44	30		
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.0	30-120	5.75	30		
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.8	30-120	7.27	30		
Benzo (k) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	4.01	30		
Chrysene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	5.53	30		
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	30-120	5.76	30		
Fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	9.50	30		
Fluorene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	3.63	30		
Indeno (1,2,3-cd) pyrene	0.0199	0.00500	"	0.0333	ND	59.7	30-120	4.98	30		
Pyrene	0.0218	0.00500	"	0.0333	ND	65.5	35-142	5.22	30		
1-Methylnaphthalene	0.0221	0.00500	"	0.0333	ND	66.4	15-130	7.04	50		
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.0	15-130	0.886	50		
Surrogate: 2-Methylnaphthalene-d10	0.0243		"	0.0333		72.9	40-150				
Surrogate: Fluoranthene-d10	0.0211		"	0.0333		63.3	40-150				

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BHA0517 - EPA 3050B

Blank (BHA0517-BLK1)

Prepared: 01/15/24 Analyzed: 01/18/24

Boron ND 2.00 mg/L

LCS (BHA0517-BS1)

Prepared: 01/15/24 Analyzed: 01/18/24

Boron 4.97 2.00 mg/L 5.00 99.5 80-120

Duplicate (BHA0517-DUP1)

Source: 2312418-04

Prepared: 01/15/24 Analyzed: 01/18/24

Boron 0.0897 2.00 mg/L 0.0944 5.13 20

Matrix Spike (BHA0517-MS1)

Source: 2312418-04

Prepared: 01/15/24 Analyzed: 01/18/24

Boron 5.05 2.00 mg/L 5.00 0.0944 99.1 75-125

Matrix Spike Dup (BHA0517-MSD1)

Source: 2312418-04

Prepared: 01/15/24 Analyzed: 01/18/24

Boron 5.02 2.00 mg/L 5.00 0.0944 98.5 75-125 0.579 25

Batch BHA0770 - EPA 3050B

Blank (BHA0770-BLK1)

Prepared: 01/23/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L

LCS (BHA0770-BS1)

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.80 2.00 mg/L 5.00 96.0 80-120

Duplicate (BHA0770-DUP1)

Source: 2312139-14

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 1.70 2.00 mg/L 1.66 2.35 20

Matrix Spike (BHA0770-MS1)

Source: 2312139-14

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 5.82 2.00 mg/L 5.00 1.66 83.2 75-125

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BHA0770 - EPA 3050B

Matrix Spike Dup (BHA0770-MSD1)				Source: 2312139-14		Prepared: 01/23/24 Analyzed: 01/24/24				
Boron	6.07	2.00	mg/L	5.00	1.66	88.1	75-125	4.06	25	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1
Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0554 - EPA 3050B

Blank (BHA0554-BLK1)

Prepared: 01/15/24 Analyzed: 01/19/24

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

LCS (BHA0554-BS1)

Prepared: 01/15/24 Analyzed: 01/19/24

Arsenic	43.6	0.200	mg/kg wet	40.0	109	80-120
Barium	41.8	0.400	"	40.0	104	80-120
Cadmium	2.09	0.200	"	2.00	104	80-120
Copper	42.3	0.400	"	40.0	106	80-120
Lead	20.8	0.200	"	20.0	104	80-120
Nickel	42.4	0.400	"	40.0	106	80-120
Silver	2.03	0.0200	"	2.00	102	80-120
Zinc	41.7	0.400	"	40.0	104	80-120
Selenium	4.28	0.260	"	4.00	107	80-120

Duplicate (BHA0554-DUP1)

Source: 2311306-06

Prepared: 01/15/24 Analyzed: 01/19/24

Arsenic	0.507	0.200	mg/kg dry	0.553	8.69	20
Barium	45.9	0.400	"	44.5	3.21	20
Cadmium	0.112	0.200	"	0.121	8.26	20
Copper	2.17	0.400	"	2.44	11.8	20
Lead	6.07	0.200	"	6.84	12.0	20
Nickel	1.02	0.400	"	1.23	17.8	20
Silver	0.0284	0.0200	"	0.0343	18.7	20
Zinc	12.4	0.400	"	14.1	12.6	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0554 - EPA 3050B

Matrix Spike (BHA0554-MS1)			Source: 2311306-06		Prepared: 01/15/24 Analyzed: 01/19/24					
Arsenic	15.1	0.200	mg/kg dry	41.8	0.553	34.9	75-125			QM-07
Barium	89.9	0.400	"	41.8	44.5	108	75-125			
Cadmium	2.36	0.200	"	2.09	0.121	107	75-125			
Copper	16.9	0.400	"	41.8	2.44	34.5	75-125			QM-07
Lead	27.4	0.200	"	20.9	6.84	98.3	75-125			
Nickel	15.8	0.400	"	41.8	1.23	34.9	75-125			QM-07
Silver	2.14	0.0200	"	2.09	0.0343	101	75-125			
Zinc	28.5	0.400	"	41.8	14.1	34.3	75-125			QM-07
Selenium	4.79	0.260	"	4.18	ND	115	75-125			

Matrix Spike Dup (BHA0554-MSD1)			Source: 2311306-06		Prepared: 01/15/24 Analyzed: 01/19/24					
Arsenic	15.5	0.200	mg/kg dry	41.8	0.553	35.7	75-125	2.16	25	QM-07
Barium	90.3	0.400	"	41.8	44.5	110	75-125	0.518	25	
Cadmium	2.36	0.200	"	2.09	0.121	107	75-125	0.124	25	
Copper	17.2	0.400	"	41.8	2.44	35.3	75-125	1.91	25	QM-07
Lead	27.5	0.200	"	20.9	6.84	98.9	75-125	0.489	25	
Nickel	16.2	0.400	"	41.8	1.23	35.7	75-125	2.19	25	QM-07
Silver	2.16	0.0200	"	2.09	0.0343	102	75-125	0.952	25	
Zinc	29.0	0.400	"	41.8	14.1	35.5	75-125	1.70	25	QM-07
Selenium	4.89	0.260	"	4.18	ND	117	75-125	1.99	25	

Batch BHB0258 - EPA 3050B

Blank (BHB0258-BLK1)			Prepared: 02/08/24 Analyzed: 02/10/24							
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BHB0258 - EPA 3050B

LCS (BHB0258-BS1)

Prepared: 02/08/24 Analyzed: 02/10/24

Arsenic	33.5	0.200	mg/kg wet	40.0		83.7	80-120			
Barium	41.8	0.400	"	40.0		105	80-120			
Cadmium	1.99	0.200	"	2.00		99.7	80-120			
Copper	43.3	0.400	"	40.0		108	80-120			
Lead	19.5	0.200	"	20.0		97.7	80-120			
Nickel	42.4	0.400	"	40.0		106	80-120			
Silver	1.96	0.0200	"	2.00		98.1	80-120			
Zinc	43.1	0.400	"	40.0		108	80-120			
Selenium	3.40	0.260	"	4.00		85.1	80-120			

Duplicate (BHB0258-DUP1)

Source: 2312103-05

Prepared: 02/08/24 Analyzed: 02/10/24

Arsenic	3.25	0.200	mg/kg wet		2.93			10.5	20	
Barium	68.3	0.400	"		63.9			6.66	20	
Cadmium	0.196	0.200	"		0.183			6.95	20	
Copper	4.54	0.400	"		4.09			10.5	20	
Lead	8.10	0.200	"		7.52			7.48	20	
Nickel	5.36	0.400	"		4.83			10.4	20	
Silver	0.0716	0.0200	"		0.0620			14.4	20	
Zinc	15.3	0.400	"		14.5			5.39	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHB0258-MS1)

Source: 2312103-05

Prepared: 02/08/24 Analyzed: 02/10/24

Arsenic	36.2	0.200	mg/kg wet	40.0	2.93	83.2	75-125			
Barium	94.2	0.400	"	40.0	63.9	75.8	75-125			
Cadmium	2.12	0.200	"	2.00	0.183	96.9	75-125			
Copper	27.5	0.400	"	40.0	4.09	58.6	75-125			QM-07
Lead	26.0	0.200	"	20.0	7.52	92.4	75-125			
Nickel	28.4	0.400	"	40.0	4.83	58.9	75-125			QM-07
Silver	1.92	0.0200	"	2.00	0.0620	93.0	75-125			
Zinc	39.0	0.400	"	40.0	14.5	61.3	75-125			QM-07
Selenium	2.54	0.260	"	4.00	ND	63.5	75-125			QM-07

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHB0258 - EPA 3050B

Matrix Spike Dup (BHB0258-MSD1)

Source: 2312103-05

Prepared: 02/08/24 Analyzed: 02/10/24

Arsenic	36.9	0.200	mg/kg wet	40.0	2.93	84.9	75-125	1.89	25	
Barium	94.2	0.400	"	40.0	63.9	75.8	75-125	0.00807	25	
Cadmium	2.16	0.200	"	2.00	0.183	99.1	75-125	2.05	25	
Copper	28.1	0.400	"	40.0	4.09	60.0	75-125	1.91	25	QM-07
Lead	26.4	0.200	"	20.0	7.52	94.3	75-125	1.46	25	
Nickel	28.9	0.400	"	40.0	4.83	60.2	75-125	1.89	25	QM-07
Silver	1.95	0.0200	"	2.00	0.0620	94.5	75-125	1.57	25	
Zinc	39.8	0.400	"	40.0	14.5	63.3	75-125	2.01	25	QM-07
Selenium	2.54	0.260	"	4.00	ND	63.5	75-125	0.0472	25	QM-07

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0472 - 3060A Mod

Blank (BHA0472-BLK1)

Prepared & Analyzed: 01/12/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0472-BS1)

Prepared & Analyzed: 01/12/24

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BHA0472-DUP1)

Source: 2401191-01

Prepared & Analyzed: 01/12/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0472-MS1)

Source: 2401191-01

Prepared & Analyzed: 01/12/24

Chromium, Hexavalent 25.3 0.30 mg/kg dry 25.5 ND 99.2 75-125

Matrix Spike Dup (BHA0472-MSD1)

Source: 2401191-01

Prepared & Analyzed: 01/12/24

Chromium, Hexavalent 25.4 0.30 mg/kg dry 25.5 ND 99.4 75-125 0.201 20

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BHA0527 - General Preparation

Blank (BHA0527-BLK1)

Prepared: 01/15/24 Analyzed: 01/17/24

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BHA0527-BS1)

Prepared: 01/15/24 Analyzed: 01/17/24

Calcium	5.56	0.0500	mg/L wet	5.00	111	70-130
Magnesium	5.19	0.0500	"	5.00	104	70-130
Sodium	5.09	0.0500	"	5.00	102	70-130

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]

Project Manager: Ben Baugh

Reported:

02/13/24 09:12

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BHA0485 - General Preparation

Duplicate (BHA0485-DUP1)		Source: 2401203-01			Prepared & Analyzed: 01/12/24					
% Solids	90.1		%		90.1			0.0897	20	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BHA0578 - General Preparation

Blank (BHA0578-BLK1)

Prepared & Analyzed: 01/16/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0578-BS1)

Prepared & Analyzed: 01/16/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHA0578-DUP1)

Source: 2311344-01

Prepared & Analyzed: 01/16/24

Specific Conductance (EC) 1.26 0.0100 mmhos/cm 1.27 1.19 20

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

Reported:
02/13/24 09:12

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BHA0577 - General Preparation

LCS (BHA0577-BS1)				Prepared & Analyzed: 01/16/24						
pH	9.12		pH Units	9.18		99.3	95-105			
Duplicate (BHA0577-DUP1)				Source: 2401191-01		Prepared & Analyzed: 01/16/24				
pH	8.59		pH Units		8.90			3.54	20	

Batch BHA0822 - General Preparation

LCS (BHA0822-BS1)				Prepared & Analyzed: 01/24/24						
pH	9.14		pH Units	9.18		99.6	95-105			
Duplicate (BHA0822-DUP1)				Source: 2312508-05		Prepared & Analyzed: 01/24/24				
pH	7.99		pH Units		7.94			0.628	20	

Batch BHA0961 - General Preparation

LCS (BHA0961-BS1)				Prepared & Analyzed: 01/29/24						
pH	9.15		pH Units	9.18		99.7	95-105			
Duplicate (BHA0961-DUP1)				Source: 2401203-01		Prepared & Analyzed: 01/29/24				
pH	8.35		pH Units		8.56			2.48	20	

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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.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction. CO, 81501

Project: PDC - Box Elder Farms 1

Project Number: [none]
Project Manager: Ben Baugh

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference