



March 09, 2022

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Heinze #1 + #2

Project Number - -

Attached are your analytical results for Heinze #1 + #2 received by Origins Laboratory, Inc. February 25, 2022. This project is associated with Origins project number Y202564-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1 + #2

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01-1	Y202564-01	Soil	February 25, 2022 14:35	02/25/2022 16:28
BG01-3	Y202564-02	Soil	February 25, 2022 14:40	02/25/2022 16:28
BG02-1	Y202564-03	Soil	February 25, 2022 14:45	02/25/2022 16:28
BG02-3	Y202564-04	Soil	February 25, 2022 14:50	02/25/2022 16:28

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: -
Project: Heinze #1 + #2

ORIGINS

LABORATORY, INC



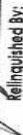

Bill To Jason Phipps www.originslaboratory.com

page 1 of 1

4202504

Client: Entrada Consulting Group
Address: Ben Baugh
Project Manager: HEINZE #1 + #2
Project Name: HEINZE #1 + #2
Project Number: HEINZE #1 + #2
Telephone Number: 435-630-4748
Email Address: JIMMIE@ENTRADA-CONS.COM, BENBAUGH@ENTRADA-CONS.COM

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
B601-1	2/25/22	1435	1	X					X			EC, pH, SAR BORON, ARSENIC, BARIUM, SELENIUM	1
B601-3		1440	1	X					X				2
B602-1		1445	1	X					X				3
B602-3		1450	1	X					X				4
													5
													6
													7
													8
													9
													10
Relinquished By: 	Date: 2/25/22	Time: 1415							Received By: 	Date: 2/25/22	Time: 1600	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
Relinquished By: 	Date: 2/25/22	Time: 1425							Received By: 	Date: 2/25/22	Time: 1600		

Date Results Needed 2/25/22

\$1

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1 + #2

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y202564

Client: Entrada

Client Project ID: Heinze #1 + #2

Checklist Completed by: AKH

Shipped Via: 21D

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

Date/time completed: 2/25/12

Airbill #: 217

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

Cooler Number/Temperature: 1 5.1 °C / °C / °C (Describe) °C

Thermometer ID: 27005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<u>—</u>		<u>Same day</u>
Is there ice present (document if blue ice is used)	<u>—</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>—</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>—</u>		
Were all samples received intact ⁽¹⁾ ?	<u>—</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>—</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>—</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>—</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>—</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>—</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>—</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<u>—</u>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<u>—</u>		
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the base narrative.

Reviewed by (Project Manager) Kelly H

Date/Time Reviewed 2/25/12

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: -
Project: Heinze #1 + #2

BG01-1

2/25/2022 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202564-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.694	0.0992	mg/L	1	B2B2812	02/28/2022	03/01/2022
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Metals by Saturated Paste by EPA 6010

Calcium	1.03	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	2.07	0.823	"	"	"	"	"
Sodium	12.0	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.71		pH Units	1	B2B2813	02/28/2022	03/01/2022
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SAR by 20B Saturated Paste

SAR	9.60		SAR	1	B2B2810	02/28/2022	03/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.44	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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Total Metals by 6020B

Arsenic	1.69	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	23.1	0.042	0.25	"	"	"	"	"
Selenium	0.267	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: -
Project: Heinze #1 + #2

BG01-3

2/25/2022 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202564-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.178	0.0988	mg/L	1	B2B2812	02/28/2022	03/01/2022
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Metals by Saturated Paste by EPA 6010

Calcium	11.6	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	6.50	0.823	"	"	"	"	"
Sodium	13.3	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.92		pH Units	1	B2B2813	02/28/2022	03/01/2022
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SAR by 20B Saturated Paste

SAR	4.44		SAR	1	B2B2810	02/28/2022	03/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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Total Metals by 6020B

Arsenic	1.54	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	42.1	0.042	0.25	"	"	"	"	"
Selenium	0.323	0.103	0.25	"	"	"	"	"

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Jen Pellegrini, Project Manager

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: -
Project: Heinze #1 + #2

BG02-1**2/25/2022 2:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202564-03 (Soil)**Boron (DTPA Sorbitol)**

Boron	0.406	0.102	mg/L	1	B2B2812	02/28/2022	03/01/2022
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Metals by Saturated Paste by EPA 6010

Calcium	0.719	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.28	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.51		pH Units	1	B2B2813	02/28/2022	03/01/2022
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SAR by 20B Saturated Paste

SAR	3.75		SAR	1	B2B2810	02/28/2022	03/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.721	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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Total Metals by 6020B

Arsenic	1.44	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	26	0.042	0.25	"	"	"	"	"
Selenium	0.286	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Ben Baugh
Project Number: -
Project: Heinze #1 + #2

BG02-3

2/25/2022 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y202564-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.0987	0.0987	mg/L	1	B2B2812	02/28/2022	03/01/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	2.07	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	5.97	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B2B2813	02/28/2022	03/01/2022
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SAR by 20B Saturated Paste

SAR	4.71	SAR	1	B2B2810	02/28/2022	03/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.22	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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Total Metals by 6020B

Arsenic	3.08	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	39.7	0.042	0.25	"	"	"	"	"
Selenium	0.208	0.103	0.25	"	"	"	"	J

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330 Grand Ave. Unit C
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Project Number: -
Project: Heinze #1 + #2

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2B2812 - Default Prep Metals										
Blank (B2B2812-BLK1)					Prepared: 02/28/2022 Analyzed: 03/01/2022					
Boron	ND	0.100	mg/L							U
Duplicate (B2B2812-DUP1)					Source: Y202557-02 Prepared: 02/28/2022 Analyzed: 03/01/2022					
Boron	1.70	0.0991	mg/L		1.63			4.76	50	

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Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2B2813 - NO PREP										
Duplicate (B2B2813-DUP1)		Source: Y202557-01			Prepared: 02/28/2022 Analyzed: 03/01/2022					
pH	7.50		pH Units		7.51			0.133	25	
Batch B2B2815 - NO PREP										
Blank (B2B2815-BLK1)		Prepared: 02/28/2022 Analyzed: 03/01/2022								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B2B2815-DUP1)		Source: Y202557-01			Prepared: 02/28/2022 Analyzed: 03/01/2022					
Specific Conductance (EC)	3.43	0.00500	mmhos/cm		4.64			30.0	25	QR-DUP

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Project Number: -
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Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L602390 - 3050B										
MSD (L 99398-MSD-L602390)			Source: 99398		Prepared: 03/02/2022 Analyzed: 03/05/2022					
Barium	102	0.042	mg/Kg	4.76	61.1	859	75-125	11.5	80	*
Selenium	3.75	0.103	"	4.76	0.379	71	75-125	1.8	80	*
Arsenic	4.2	0.0855	"	2.38	1.67	106	75-125	11	80	
MS (L 99398-MS-L602390)			Source: 99398		Prepared: 03/02/2022 Analyzed: 03/05/2022					
Barium	90.9	0.042	mg/Kg	4.64	61.1	642	75-125			*
Selenium	3.68	0.103	"	4.64	0.379	71	75-125			*
Arsenic	3.76	0.0855	"	2.32	1.67	90	75-125			
LCS (LCS-L602390)			Prepared: 03/02/2022 Analyzed: 03/05/2022							
Arsenic	2.7	0.0855	mg/Kg	2.5		108	80-120			
Barium	4.55	0.042	"	5		91	80-120			
Selenium	5.16	0.103	"	5		103	80-120			
LRB (LRB-L602390)			Prepared: 03/02/2022 Analyzed: 03/05/2022							
Selenium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	0.16	0.25	"				-			J

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Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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