



Tasman Geosciences

Andy Sagen

6855 West 119th Avenue

Broomfield CO 80020

April 21, 2025

Project Name - PDC - Albrighton D-10HN

Project Number - UWRWE-A4037-AES

Attached are your analytical results for PDC - Albrighton D-10HN received by Origins Laboratory March 13, 2025. This project is associated with Origins project number E5C0571-01.

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
303.433.1322
projectmanager@originslab.com



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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: UWRWE-A4037-AES
Project: PDC - Albrighton D-10HN

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W@3'	E5C0571-01	Soil	March 13, 2025 13:07	03/13/2025 15:48
FL01R-S@4'	E5C0571-02	Soil	March 13, 2025 14:09	03/13/2025 15:48
BKG01@3'	E5C0571-03	Soil	March 13, 2025 12:47	03/13/2025 15:48
BKG01@4'	E5C0571-04	Soil	March 13, 2025 12:49	03/13/2025 15:48

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ORIGINS LABORATORY

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: UWRWE-A4037-AES
Project: PDC - Albrighton D-10HN

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

Sample Receipt Checklist

Origins Work Order: ESC0591 Client: Tasman
Client Project ID: Albrighton

Checklist Completed by: E.H. Sagen Shipped Via: HD
Date/time completed: 3/14/25 (UPS) FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 13.1 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with Na2O2-NaOH, ZnAc-NaOH)			<input checked="" type="checkbox"/>	
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 case narrative.

Reviewed by (Project Manager) _____

03/18/25
Date/Time Reviewed

Origins Laboratory

EHS

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Andy Sagen
Project Number: UWRWE-A4037-AES
Project: PDC - Albrighton D-10HN

FL01R-W@3'
3/13/2025 1:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0571-01 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00131	0.00397	mg/kg dry	1	2772611	03/28/2025	03/29/2025	hU
2-Methylnaphthalene	ND	0.00131	0.00397	"	"	"	"	"	hU
Acenaphthene	ND	0.00131	0.00397	"	"	"	"	"	hU
Anthracene	ND	0.00131	0.00397	"	"	"	"	"	hU
Benzo(a)anthracene	0.00238	0.00131	0.00397	"	"	"	"	"	hJ
Benzo(a)pyrene	0.00278	0.00131	0.00397	"	"	"	"	"	hJ
Benzo(b)fluoranthene	0.00278	0.00131	0.00397	"	"	"	"	"	hJ
Benzo(k)fluoranthene	ND	0.00131	0.00397	"	"	"	"	"	hU
Chrysene	0.00278	0.00131	0.00397	"	"	"	"	"	hJ
Dibenzo(a,h)anthracene	ND	0.00131	0.00397	"	"	"	"	"	hU
Fluoranthene	0.00397	0.00131	0.00397	"	"	"	"	"	h
Fluorene	ND	0.00131	0.00397	"	"	"	"	"	hU
Indeno(1,2,3-cd)pyrene	ND	0.00131	0.00397	"	"	"	"	"	hU
Naphthalene	ND	0.00131	0.00397	"	"	"	"	"	hU
Pyrene	0.00477	0.00131	0.00397	"	"	"	"	"	h
Surrogate: 5-alpha-Androstane	77 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.130	0.325	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

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3/13/2025 1:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0571-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5C1822	03/18/2025	03/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1952	03/19/2025	03/22/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: <i>o</i> -Terphenyl	68.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1811	03/18/2025	03/19/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	109 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

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3/13/2025 1:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0571-01 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.45		0.499	meq/L	10	[CALC]	03/19/2025	03/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.839		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B5C1911	03/19/2025	03/21/2025	
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SAR by 20B Saturated Paste

SAR	0.801		0.0100	SAR	1	B5C1908	03/19/2025	03/23/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.324		0.00500	mmhos/cm	1	B5C1911	03/19/2025	03/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.84		0.251	mg/kg	10	B5C1763	03/17/2025	03/20/2025	
Barium	318		8.64	"	"	"	"	"	
Cadmium	0.187		0.0864	"	"	"	"	"	
Copper	11.3		8.64	"	"	"	"	"	
Lead	8.69		0.864	"	"	"	"	"	
Nickel	7.77		0.864	"	"	"	"	"	
Selenium	ND		0.225	"	"	"	"	"	

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FL01R-W@3'
3/13/2025 1:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0571-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Silver	ND		0.0864	mg/kg	10	B5C1763	03/17/2025	03/20/2025	
Zinc	45.5		32.0	"	"	"	"	"	

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FL01R-S@4'
3/13/2025 2:09:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0571-02 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00124	0.00374	mg/kg dry	1	2772611	03/28/2025	03/29/2025	hU
2-Methylnaphthalene	ND	0.00124	0.00374	"	"	"	"	"	hU
Acenaphthene	ND	0.00124	0.00374	"	"	"	"	"	hU
Anthracene	ND	0.00124	0.00374	"	"	"	"	"	hU
Benzo(a)anthracene	0.00187	0.00124	0.00374	"	"	"	"	"	hJ
Benzo(a)pyrene	0.00187	0.00124	0.00374	"	"	"	"	"	hJ
Benzo(b)fluoranthene	ND	0.00124	0.00374	"	"	"	"	"	hU
Benzo(k)fluoranthene	ND	0.00124	0.00374	"	"	"	"	"	hU
Chrysene	ND	0.00124	0.00374	"	"	"	"	"	hU
Dibenzo(a,h)anthracene	ND	0.00124	0.00374	"	"	"	"	"	hU
Fluoranthene	0.00225	0.00124	0.00374	"	"	"	"	"	hJ
Fluorene	ND	0.00124	0.00374	"	"	"	"	"	hU
Indeno(1,2,3-cd)pyrene	ND	0.00124	0.00374	"	"	"	"	"	hU
Naphthalene	ND	0.00124	0.00374	"	"	"	"	"	hU
Pyrene	0.00225	0.00124	0.00374	"	"	"	"	"	hJ
Surrogate: 5-alpha-Androstane	84 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.0911	0.228	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

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FL01R-S@4'
3/13/2025 2:09:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0571-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.116		0.102	mg/L	1	B5C1822	03/18/2025	03/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C1952	03/19/2025	03/22/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: <i>o</i> -Terphenyl	74.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1811	03/18/2025	03/19/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	107 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

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FL01R-S@4'
3/13/2025 2:09:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0571-02 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	2.10		0.499	meq/L	10	[CALC]	03/19/2025	03/23/2025	
Magnesium	0.932		0.823	"	"	"	"	"	
Sodium	0.710		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.34			pH Units	1	B5C1911	03/19/2025	03/21/2025	
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SAR by 20B Saturated Paste

SAR	0.576		0.0100	SAR	1	B5C1908	03/19/2025	03/23/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.386		0.00500	mmhos/cm	1	B5C1911	03/19/2025	03/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.58		0.268	mg/kg	10	B5C1763	03/17/2025	03/20/2025	
Barium	68.2		9.24	"	"	"	"	"	
Cadmium	0.0933		0.0924	"	"	"	"	"	
Copper	ND		9.24	"	"	"	"	"	
Lead	5.03		0.924	"	"	"	"	"	
Nickel	4.44		0.924	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	

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FL01R-S@4'
3/13/2025 2:09:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0571-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0924	mg/kg	10	B5C1763	03/17/2025	03/20/2025	
Zinc	ND		34.2	"	"	"	"	"	

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BKG01@3'

3/13/2025 12:47:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0571-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.140		0.101	mg/L	1	B5C1822	03/18/2025	03/19/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.245	mg/kg	1	B5D1038	04/10/2025	04/17/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	4.59		0.499	meq/L	10	[CALC]	03/19/2025	03/23/2025	
Magnesium	1.70		0.823	"	"	"	"	"	
Sodium	1.29		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.19			pH Units	1	B5C1911	03/19/2025	03/21/2025	
SAR by 20B Saturated Paste									
SAR	0.728		0.0100	SAR	1	B5C1908	03/19/2025	03/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.729		0.00500	mmhos/cm	1	B5C1911	03/19/2025	03/21/2025	

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BKG01@3'

3/13/2025 12:47:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0571-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.38		0.285	mg/kg	10	B5C1763	03/17/2025	03/20/2025	
Barium	71.9		9.82	"	"	"	"	"	"
Cadmium	0.120		0.0982	"	"	"	"	"	"
Copper	ND		9.82	"	"	"	"	"	"
Lead	4.63		0.982	"	"	"	"	"	"
Nickel	5.10		0.982	"	"	"	"	"	"
Selenium	ND		0.255	"	"	"	"	"	"
Silver	ND		0.0982	"	"	"	"	"	"
Zinc	ND		36.3	"	"	"	"	"	"

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BKG01@4'

3/13/2025 12:49:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0571-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.161		0.101	mg/L	1	B5C1822	03/18/2025	03/19/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.247	mg/kg	1	B5D1038	04/10/2025	04/17/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	3.06		0.499	meq/L	10	[CALC]	03/19/2025	03/23/2025	
Magnesium	1.19		0.823	"	"	"	"	"	
Sodium	1.73		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.22			pH Units	1	B5C1911	03/19/2025	03/21/2025	
SAR by 20B Saturated Paste									
SAR	1.18		0.0100	SAR	1	B5C1908	03/19/2025	03/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.601		0.00500	mmhos/cm	1	B5C1911	03/19/2025	03/21/2025	

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BKG01@4'

3/13/2025 12:49:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0571-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.02		0.260	mg/kg	10	B5C1763	03/17/2025	03/20/2025	
Barium	45.4		8.95	"	"	"	"	"	
Cadmium	ND		0.0895	"	"	"	"	"	
Copper	ND		8.95	"	"	"	"	"	
Lead	3.72		0.895	"	"	"	"	"	
Nickel	3.45		0.895	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0895	"	"	"	"	"	
Zinc	ND		33.1	"	"	"	"	"	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: UWRWE-A4037-AES
 Project: PDC - Albrighton D-10HN

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D1038 - EPA 3060A										
Blank (B5D1038-BLK1)										
					Prepared: 04/10/2025 Analyzed: 04/17/2025					
Hexavalent Chromium	ND	0.250	mg/kg							
LCS (B5D1038-BS1)										
					Prepared: 04/10/2025 Analyzed: 04/17/2025					
Hexavalent Chromium	2.35	0.250	mg/kg	2.50		94.0	80-120			
Matrix Spike (B5D1038-MS1)										
					Source: E5C0571-03 Prepared: 04/10/2025 Analyzed: 04/17/2025					
Hexavalent Chromium	2.35	0.252	mg/kg	2.52	ND	93.1	75-125			
Matrix Spike (B5D1038-MS2)										
					Source: E5C0571-03 Prepared: 04/10/2025 Analyzed: 04/17/2025					
Hexavalent Chromium	228	24.6	mg/kg	255	ND	89.5	75-125			
Matrix Spike Dup (B5D1038-MSD1)										
					Source: E5C0571-03 Prepared: 04/10/2025 Analyzed: 04/17/2025					
Hexavalent Chromium	2.39	0.249	mg/kg	2.49	ND	95.8	75-125	1.79	200	
Post Spike (B5D1038-PS1)										
					Source: E5C0571-03 Prepared: 04/10/2025 Analyzed: 04/17/2025					
Hexavalent Chromium	50.9		ug/L	50.0	0.00	102	80-120			

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 Project: PDC - Albrighton D-10HN

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1822 - DTPA Sorbitol Preparation

Blank (B5C1822-BLK1)

Prepared: 03/18/2025 Analyzed: 03/19/2025

Boron ND 0.100 mg/L

Duplicate (B5C1822-DUP1)

Source: E5C0555-01

Prepared: 03/18/2025 Analyzed: 03/19/2025

Boron 0.111 0.101 mg/L 0.131 16.1 50

Batch B5C1908 - Saturated Paste Metals

Blank (B5C1908-BLK1)

Prepared: 03/19/2025 Analyzed: 03/23/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5C1908-DUP1)

Source: E5C0551-01

Prepared: 03/19/2025 Analyzed: 03/23/2025

SAR ND 0.0100 SAR 1.34 200

Calcium PPM 56.6 10.0 mg/L 60.2 6.15 50

Magnesium PPM 18.0 10.0 " 19.3 7.35 50

Sodium PPM 44.8 10.0 " 46.8 4.54 50

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Project: PDC - Albrighton D-10HN

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1952 - EPA 3550B

Blank (B5C1952-BLK1)

Prepared: 03/19/2025 Analyzed: 03/22/2025

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	18		"	24.9		71.3	50-150			

LCS (B5C1952-BS1)

Prepared: 03/19/2025 Analyzed: 03/22/2025

Diesel (C10-C28)	821	50.0	mg/kg	1000		82.1	70-130			
Residual Range Organics (C28-C40)	767	200	"	1000		76.7	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Matrix Spike (B5C1952-MS1)

Source: E5C0550-01

Prepared: 03/19/2025 Analyzed: 03/22/2025

Diesel (C10-C28)	870	50.0	mg/kg	1000	ND	87.0	70-130			
Residual Range Organics (C28-C40)	827	200	"	1000	ND	82.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.8	50-150			

Matrix Spike Dup (B5C1952-MSD1)

Source: E5C0550-01

Prepared: 03/19/2025 Analyzed: 03/22/2025

Diesel (C10-C28)	801	50.0	mg/kg	1000	ND	80.1	70-130	8.22	35	
Residual Range Organics (C28-C40)	741	200	"	1000	ND	74.1	70-130	11.0	35	
Surrogate: o-Terphenyl	45		"	49.8		89.5	50-150			

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 Project: PDC - Albrighton D-10HN

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1763 - EPA 3050B

Blank (B5C1763-BLK1)

Prepared: 03/17/2025 Analyzed: 03/20/2025

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B5C1763-BS1)

Prepared: 03/17/2025 Analyzed: 03/20/2025

Arsenic	5.00	0.290	mg/kg	5.00		100	80-120			
Barium	487	10.0	"	500		97.5	80-120			
Cadmium	5.09	0.100	"	5.00		102	80-120			
Copper	48.1	10.0	"	50.0		96.2	80-120			
Lead	4.90	1.00	"	5.00		98.0	80-120			
Nickel	4.88	1.00	"	5.00		97.7	80-120			
Selenium	5.03	0.260	"	5.00		101	80-120			
Silver	5.06	0.100	"	5.00		101	80-120			
Zinc	50.0	37.0	"	50.0		100	80-120			

Matrix Spike (B5C1763-MS1)

Source: E5C0508-02

Prepared: 03/17/2025 Analyzed: 03/20/2025

Arsenic	11.9	0.275	mg/kg	4.74	8.30	75.7	75-125			
Barium	1280	9.48	"	474	1850	NR	75-125			QM-07
Cadmium	5.28	0.0948	"	4.74	0.352	104	75-125			
Copper	64.9	9.48	"	47.4	17.7	99.6	75-125			
Lead	20.6	0.948	"	4.74	16.8	81.4	75-125			

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 Project: PDC - Albrighton D-10HN

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1763 - EPA 3050B

Matrix Spike (B5C1763-MS1)

Source: E5C0508-02

Prepared: 03/17/2025 Analyzed: 03/20/2025

Nickel	22.5	0.948	mg/kg	4.74	20.6	40.4	75-125			QM-07
Selenium	4.75	0.247	"	4.74	0.383	92.1	75-125			
Silver	5.01	0.0948	"	4.74	0.0774	104	75-125			
Zinc	120	35.1	"	47.4	71.1	102	75-125			

Matrix Spike Dup (B5C1763-MSD1)

Source: E5C0508-02

Prepared: 03/17/2025 Analyzed: 03/20/2025

Arsenic	12.7	0.280	mg/kg	4.84	8.30	91.9	75-125	6.93	20	
Barium	1430	9.67	"	484	1850	NR	75-125	11.3	20	QM-07
Cadmium	5.75	0.0967	"	4.84	0.352	112	75-125	8.67	20	
Copper	70.6	9.67	"	48.4	17.7	109	75-125	8.37	20	
Lead	22.0	0.967	"	4.84	16.8	109	75-125	6.61	20	
Nickel	25.0	0.967	"	4.84	20.6	90.5	75-125	10.4	20	
Selenium	5.40	0.251	"	4.84	0.383	104	75-125	12.8	20	
Silver	5.49	0.0967	"	4.84	0.0774	112	75-125	9.17	20	
Zinc	129	35.8	"	48.4	71.1	121	75-125	7.79	20	

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 Project: PDC - Albrighton D-10HN

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1911 - Saturated Paste pH/EC

Blank (B5C1911-BLK1)

Prepared: 03/19/2025 Analyzed: 03/21/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5C1911-DUP1)

Source: E5C0551-01

Prepared: 03/19/2025 Analyzed: 03/21/2025

pH 8.05 pH Units 8.10 0.619 25

Specific Conductance (EC) 0.657 0.00500 mmhos/cm 0.689 4.73 25

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Andy Sagen
Project Number: UWRWE-A4037-AES
Project: PDC - Albrighton D-10HN

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1811 - EPA 5030 (soil)

Blank (B5C1811-BLK1)

Prepared: 03/18/2025 Analyzed: 03/19/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	104	70-130
Surrogate: Toluene-d8	0.13		"	0.125	104	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.9	70-130

LCS (B5C1811-BS1)

Prepared: 03/18/2025 Analyzed: 03/19/2025

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	106	70-130
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	107	70-130
Benzene	0.0969	0.00200	"	0.100	96.9	70-130
Ethylbenzene	0.104	0.00200	"	0.100	104	70-130
Toluene	0.101	0.00200	"	0.100	101	70-130
o-Xylene	0.106	0.00200	"	0.100	106	70-130
m,p-Xylene	0.208	0.00400	"	0.200	104	70-130

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.0	70-130
Surrogate: Toluene-d8	0.13		"	0.125	106	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.4	70-130

Matrix Spike (B5C1811-MS1)

Source: E5C0566-01

Prepared: 03/18/2025 Analyzed: 03/19/2025

1,2,4-Trimethylbenzene	0.0843	0.00200	mg/kg	0.100	ND	84.3	70-130
1,3,5-Trimethylbenzene	0.0856	0.00200	"	0.100	ND	85.6	70-130
Benzene	0.0815	0.00200	"	0.100	ND	81.5	70-130

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Andy Sagen
Project Number: UWRWE-A4037-AES
Project: PDC - Albrighton D-10HN

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5C1811 - EPA 5030 (soil)

Matrix Spike (B5C1811-MS1)		Source: E5C0566-01			Prepared: 03/18/2025 Analyzed: 03/19/2025					
Ethylbenzene	0.0849	0.00200	mg/kg	0.100	ND	84.9	70-130			
Toluene	0.0835	0.00200	"	0.100	ND	83.5	70-130			
o-Xylene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Matrix Spike Dup (B5C1811-MSD1)		Source: E5C0566-01			Prepared: 03/18/2025 Analyzed: 03/19/2025					
1,2,4-Trimethylbenzene	0.0877	0.00200	mg/kg	0.100	ND	87.7	70-130	3.95	20	
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	2.51	20	
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130	5.63	20	
Ethylbenzene	0.0879	0.00200	"	0.100	ND	87.9	70-130	3.38	20	
Toluene	0.0874	0.00200	"	0.100	ND	87.4	70-130	4.47	20	
o-Xylene	0.0891	0.00200	"	0.100	ND	89.1	70-130	3.24	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.1	70-130	2.88	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project: PDC - Albrighton D-10HN

PAH by 3541/8270 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2772611 - SW846 3541

BLANK (1206051641-BLK)

Prepared: 03/28/2025 Analyzed: 03/29/2025

Chrysene	ND	0.00331	mg/kg	-	-	-	-	-	-	U
2-Methylnaphthalene	ND	0.00331	"	-	-	-	-	-	-	U
Acenaphthene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(a)anthracene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(a)pyrene	ND	0.00331	"	-	-	-	-	-	-	U
1-Methylnaphthalene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(k)fluoranthene	ND	0.00331	"	-	-	-	-	-	-	U
Dibenzo(a,h)anthracene	ND	0.00331	"	-	-	-	-	-	-	U
Fluoranthene	ND	0.00331	"	-	-	-	-	-	-	U
Fluorene	ND	0.00331	"	-	-	-	-	-	-	U
Indeno(1,2,3-cd)pyrene	ND	0.00331	"	-	-	-	-	-	-	U
Naphthalene	ND	0.00331	"	-	-	-	-	-	-	U
Pyrene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(b)fluoranthene	ND	0.00331	"	-	-	-	-	-	-	U
Anthracene	ND	0.00331	"	-	-	-	-	-	-	U

Surrogate: 5-alpha-Androstane

0.130

"

0.165

79

22-135

LCS (1206051642-BKS)

Prepared: 03/28/2025 Analyzed: 03/29/2025

Pyrene	0.205	0.00327	mg/kg	0.327	63	38-117
Anthracene	0.209	0.00327	"	0.327	64	41-117
Acenaphthene	0.194	0.00327	"	0.327	59	41-112
2-Methylnaphthalene	0.189	0.00327	"	0.327	58	39-110
1-Methylnaphthalene	0.186	0.00327	"	0.327	57	39-109
Fluorene	0.198	0.00327	"	0.327	61	37-115
Indeno(1,2,3-cd)pyrene	0.206	0.00327	"	0.327	63	38-133
Naphthalene	0.192	0.00327	"	0.327	59	38-109
Benzo(b)fluoranthene	0.200	0.00327	"	0.327	61	39-123

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Project: PDC - Albrighton D-10HN

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GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2772611 - SW846 3541

LCS (1206051642-BKS)

Prepared: 03/28/2025 Analyzed: 03/29/2025

Benzo(a)anthracene	0.211	0.00327	mg/kg	0.327		64	42-120			
Dibenzo(a,h)anthracene	0.212	0.00327	"	0.327		65	38-132			
Fluoranthene	0.202	0.00327	"	0.327		62	39-119			
Chrysene	0.218	0.00327	"	0.327		67	42-117			
Benzo(a)pyrene	0.211	0.00327	"	0.327		65	39-127			
Benzo(k)fluoranthene	0.194	0.00327	"	0.327		60	40-122			
Surrogate: 5-alpha-Androstane	0.113		"	0.163		69	22-135			

LCSD (1206051643-BKSD)

Prepared: 03/28/2025 Analyzed: 03/29/2025

Indeno(1,2,3-cd)pyrene	0.252	0.00327	mg/kg	0.327		77	38-133	20	30	
Benzo(a)anthracene	0.259	0.00327	"	0.327		79	42-120	20	30	
Benzo(a)pyrene	0.259	0.00327	"	0.327		79	39-127	20	30	
Benzo(b)fluoranthene	0.248	0.00327	"	0.327		76	39-123	22	30	
Benzo(k)fluoranthene	0.232	0.00327	"	0.327		71	40-122	18	30	
Chrysene	0.266	0.00327	"	0.327		81	42-117	20	30	
Dibenzo(a,h)anthracene	0.257	0.00327	"	0.327		78	38-132	19	30	
Anthracene	0.256	0.00327	"	0.327		78	41-117	20	30	
Fluorene	0.244	0.00327	"	0.327		74	37-115	21	30	
1-Methylnaphthalene	0.226	0.00327	"	0.327		69	39-109	19	30	
2-Methylnaphthalene	0.231	0.00327	"	0.327		71	39-110	20	30	
Acenaphthene	0.239	0.00327	"	0.327		73	41-112	21	30	
Naphthalene	0.234	0.00327	"	0.327		71	38-109	20	30	
Pyrene	0.249	0.00327	"	0.327		76	38-117	20	30	
Fluoranthene	0.245	0.00327	"	0.327		75	39-119	19	30	
Surrogate: 5-alpha-Androstane	0.146		"	0.164		89	22-135			

MS (1206051644 S)

Source: 716205001

Prepared: 03/28/2025 Analyzed: 03/29/2025

Origins Laboratory

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 Broomfield CO 80020

Andy Sagen
 Project Number: UWRWE-A4037-AES
 Project: PDC - Albrighton D-10HN

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GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2772611 - SW846 3541

MS (1206051644 S)

Source: 716205001

Prepared: 03/28/2025 Analyzed: 03/29/2025

Fluoranthene	0.215	0.00436	mg/kg dry	0.436	<0.00144	49	14-136			
1-Methylnaphthalene	0.171	0.00436	"	0.436	<0.00144	39	15-129			
2-Methylnaphthalene	0.175	0.00436	"	0.436	<0.00144	40	15-132			
Indeno(1,2,3-cd)pyrene	0.219	0.00436	"	0.436	<0.00144	50	13-134			
Fluorene	0.196	0.00436	"	0.436	<0.00144	45	16-134			
Dibenzo(a,h)anthracene	0.222	0.00436	"	0.436	<0.00144	51	11-134			
Chrysene	0.228	0.00436	"	0.436	<0.00144	52	19-129			
Naphthalene	0.174	0.00436	"	0.436	<0.00144	40	16-126			
Benzo(k)fluoranthene	0.208	0.00436	"	0.436	<0.00144	48	18-138			
Benzo(b)fluoranthene	0.218	0.00436	"	0.436	<0.00144	50	14-136			
Benzo(a)pyrene	0.228	0.00436	"	0.436	<0.00144	52	16-133			
Benzo(a)anthracene	0.221	0.00436	"	0.436	<0.00144	51	20-132			
Anthracene	0.219	0.00436	"	0.436	<0.00144	50	18-136			
Acenaphthene	0.182	0.00436	"	0.436	<0.00144	42	17-129			
Pyrene	0.216	0.00436	"	0.436	<0.00144	50	12-139			

Surrogate: 5-alpha-Androstane

0.116

"

0.218

0.168

53

22-135

MSD (1206051645 SD)

Source: 716205001

Prepared: 03/28/2025 Analyzed: 03/31/2025

Indeno(1,2,3-cd)pyrene	0.314	0.00431	mg/kg dry	0.431	<0.00142	73	13-134	36	30	
Chrysene	0.323	0.00431	"	0.431	<0.00142	75	19-129	34	30	
1-Methylnaphthalene	0.233	0.00431	"	0.431	<0.00142	54	15-129	31	30	
2-Methylnaphthalene	0.233	0.00431	"	0.431	<0.00142	54	15-132	29	30	
Acenaphthene	0.258	0.00431	"	0.431	<0.00142	60	17-129	34	30	
Anthracene	0.304	0.00431	"	0.431	<0.00142	70	18-136	32	30	
Benzo(a)anthracene	0.312	0.00431	"	0.431	<0.00142	72	20-132	34	30	
Benzo(a)pyrene	0.318	0.00431	"	0.431	<0.00142	74	16-133	33	30	
Pyrene	0.299	0.00431	"	0.431	<0.00142	69	12-139	32	30	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: UWRWE-A4037-AES
 Project: PDC - Albrighton D-10HN

PAH by 3541/8270 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2772611 - SW846 3541

MSD (1206051645 SD)

Source: 716205001

Prepared: 03/28/2025 Analyzed: 03/31/2025

Benzo(k)fluoranthene	0.287	0.00431	mg/kg dry	0.431	<0.00142	67	18-138	32	30	
Dibenzo(a,h)anthracene	0.324	0.00431	"	0.431	<0.00142	75	11-134	37	30	
Fluoranthene	0.296	0.00431	"	0.431	<0.00142	69	14-136	32	30	
Fluorene	0.269	0.00431	"	0.431	<0.00142	62	16-134	31	30	
Naphthalene	0.236	0.00431	"	0.431	<0.00142	55	16-126	30	30	
Benzo(b)fluoranthene	0.305	0.00431	"	0.431	<0.00142	71	14-136	34	30	
Surrogate: 5-alpha-Androstane	0.165		"	0.216	0.168	77	22-135			

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Andy Sagen
 Project Number: UWRWE-A4037-AES
 Project: PDC - Albrighton D-10HN

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2774529 - SW846 3060A

BLANK (1206055983-BLK)

Prepared: 04/01/2025 Analyzed: 04/02/2025

Hexavalent Chromium	ND	0.363	mg/kg				-			U
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LCS (1206055984-BKS)

Prepared: 04/01/2025 Analyzed: 04/02/2025

Hexavalent Chromium	2.97	0.293	mg/kg	2.93		101	80-120			
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DUP (1206055985 D)

Source: 716205001

Prepared: 04/01/2025 Analyzed: 04/02/2025

Hexavalent Chromium	ND	0.319	mg/kg dry			<0.128	0-50	N/A	50	U
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MS (1206055986 S)

Source: 716205001

Prepared: 04/01/2025 Analyzed: 04/02/2025

Hexavalent Chromium	2.92	0.319	mg/kg dry	3.19		<0.128	91.5	75-125		
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DUP (1206055987 D)

Source: 716205002

Prepared: 04/01/2025 Analyzed: 04/02/2025

Hexavalent Chromium	ND	0.367	mg/kg dry			<0.147	0-50	N/A	50	U
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MS (1206055988 S)

Source: 716205002

Prepared: 04/01/2025 Analyzed: 04/02/2025

Hexavalent Chromium	2.31	0.368	mg/kg dry	3.68		<0.147	62.8	75-125		
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ILCS (1206055989-ILCS)

Prepared: 04/01/2025 Analyzed: 04/02/2025

Hexavalent Chromium	8.34	0.398	mg/kg	8.00		104	80-120			
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Andy Sagen
Project Number: UWRWE-A4037-AES
Project: PDC - Albrighton D-10HN

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - hU [Undefined]
 - hJ [Undefined]
 - h Preparation or preservation holding time was exceeded
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory

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