



**Tasman Geosciences
Bryce Goldade
6855 West 119th Avenue
Broomfield CO 80020**

April 14, 2025

Project Name - Noble - Aurora USX AB25-25 Project Number - [none]

Attached are your analytical results for Noble - Aurora USX AB25-25 received by Origins Laboratory March 14, 2025. This project is associated with Origins project number E5C0590-01.

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

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@5-6'	E5C0590-01	Soil	March 14, 2025 8:30	03/14/2025 17:20
BH01@7-8'	E5C0590-02	Soil	March 14, 2025 8:32	03/14/2025 17:20
BH02@5-6'	E5C0590-03	Soil	March 14, 2025 8:45	03/14/2025 17:20
BH03@5-6'	E5C0590-04	Soil	March 14, 2025 8:50	03/14/2025 17:20
BH04@5-6'	E5C0590-05	Soil	March 14, 2025 9:00	03/14/2025 17:20
BH05@5-6'	E5C0590-06	Soil	March 14, 2025 9:12	03/14/2025 17:20
BKG01@5-6'	E5C0590-07	Soil	March 14, 2025 9:20	03/14/2025 17:20
BKG01@7-8'	E5C0590-08	Soil	March 14, 2025 9:22	03/14/2025 17:20
BKG02@5-6'	E5C0590-09	Soil	March 14, 2025 9:30	03/14/2025 17:20
BKG02@7-8'	E5C0590-10	Soil	March 14, 2025 9:32	03/14/2025 17:20
BKG03@5-6'	E5C0590-11	Soil	March 14, 2025 9:40	03/14/2025 17:20
BKG04@5-6'	E5C0590-12	Soil	March 14, 2025 9:50	03/14/2025 17:20
BKG04@7-8'	E5C0590-13	Soil	March 14, 2025 9:52	03/14/2025 17:20
BKG05@5-6'	E5C0590-14	Soil	March 14, 2025 10:00	03/14/2025 17:20

Origins Laboratory

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 Project: Noble - Aurora USX AB25-25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG05@7-8'	E5C0590-15	Soil	March 14, 2025 10:02	03/14/2025 17:20

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Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

ENTHALPY ANALYTICAL		Chain of Custody Record		Turn Around Time (rush by advanced notice only)				
Lab No: ES0590		Page: 1 of 2		Standard: <input checked="" type="checkbox"/> 3 Day	Custom AT			
ENTHALPY Analytical - Denver 1725 W. Elk Place, Denver, CO 80211 Phone: 303-633-3322		PROJECT INFORMATION Name: Noble USX AB25-25 Report To: Don Akron Email: don@tasman-geosciences.com Address: 4725 Independence St Phone: Wheat Ridge, CO 80033 Fax: 303-407-1228		Analysis Request Preservatives: 0 = none 1 = H ₂ O ₂ , 2 = HCl 3 = HNO ₃ , 4 = H ₂ SO ₄ 5 = NaOH, 6 = Other Sample Type: S = Soil/Solid W = Water DM = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Wipe B = Blank O = Other Matrix: A = Air S = Soil/Solid W = Water DM = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Wipe B = Blank O = Other				
CUSTOMER INFORMATION Company: Tasman/Noble Report To: Don Akron Email: don@tasman-geosciences.com Address: 4725 Independence St Phone: Wheat Ridge, CO 80033 Fax: 303-407-1228		TEST INSTRUCTIONS / COMMENTS Full 915-1 Analytical Suite Metals - 915 PH, EC, SAR, Beron PAHs - 915 TPH (GRO, DRG, ORG) 1,2,4-TMB, 1,3,5-TMB BTEXN		10°C ice ✓ (in brown)				
Sample ID	Sampling Date	Sampling Time (A-M)	Matrix	Type	Pres.	Cont. No.	Cont. Size	Initials
1 B340 @ 5-6'	3-11-25	0850	S	G	0	2	402 gm	
2 B340 @ 7-8'		0852						
3 B340 @ 5-6'		0845						
4 B340 @ 5-6'		0850						
5 B340 @ 5-6'		0900						
6 B340 @ 5-6'		0912						
7 B340 @ 5-6'		0920						
8 B340 @ 7-8'		0922						
9 B340 @ 5-6'		0930						
10 B340 @ 7-8'		0932						
Relinquished By:	Signature	Print Name	Company / Title	Date / Time				
	<i>[Signature]</i>	Bryce Goldade	Tasman	3-11-25 1330				
	<i>[Signature]</i>	Vicki Khaloupek	ENTHALPY	03/11/25 1600				
	<i>[Signature]</i>	Vicki Khaloupek	ENTHALPY	03/11/25 1730				
	<i>[Signature]</i>	NKM	ENTHALPY	03/11/25 1720				

Origins Laboratory
[Signature]


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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

Chain of Custody Record		Turn Around Time (rush by advanced notice only)					
Lab No:	Page:	Standard:	Custom TAT:				
6560590	2 of 2	X 5 Day	1 Day				
ENTHALPY ANALYTICAL 1775 W. Elk Place, Denver, CO 80211 Phone 303-433-1322		Preservatives: 0 = none 1 = Hg-50, 2 = HCl 3 = HNO ₃ , 4 = H ₂ SO ₄ 5 = H ₂ O ₂ , 6 = Other 10C ice ✓ (if any)					
ENTHALPY ANALYTICAL - DENVER 1775 W. Elk Place, Denver, CO 80211 Phone 303-433-1322		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Wipe WW = Wastewater X = Other					
CUSTOMER INFORMATION		PROJECT INFORMATION					
Company: Tasman Geosc	Name: Aurora USX AB25-25	Analysis Request:	Test Instructions / Comments:				
Report To: Wintersmith, Bryce	Number: 1000	Full 915-1 Analytical Suite					
Email: bryce@tasman-geo.com	Address: 4725 Independence St	PH, EC, SAR, Boron					
Address: 4725 Independence St	Global ID: 305-497-228	PAHS - 915					
Phone: 305-497-228	Sampled By:	TPH (GR, DRG, GRC)					
Fac:		1,2,4-TMB, 1,3,5-TMB					
		BTEXN					
Sample ID	Sampling Date	Sampling Time (24 hr Matrix)	Sample Type	Pres. No.	Cont. Size	Company / Title	Date / Time
1 B660305-6	3-14-25	0910	S	0	1602 gm	Tasman	3-14-25 1330
2 B660405-6		0950	S	0	1602 gm	Emthalpy	03/14/25 1600
3 B660407-8		0952	S	0	1602 gm	Emthalpy	03/14/25 1620
4 B660505-6		1000	S	0	1602 gm	Emthalpy	03/14/25 17:20
5 B660507-8		1002	S	0	1602 gm	Emthalpy	
6							
7							
8							
9							
10							
Relinquished By:	Signature	Print Name	Company / Title	Date / Time			
	<i>[Signature]</i>	Bryce Moron	Tasman	3-14-25 1330			
Received By:	<i>[Signature]</i>	Vasil Kharlouchkin	Emthalpy	03/14/25 1600			
Relinquished By:	<i>[Signature]</i>	Vasil Kharlouchkin	Emthalpy	03/14/25 1620			
Received By:	<i>[Signature]</i>	NEM	Emthalpy	03/14/25 17:20			
Relinquished By:							
Received By:							

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 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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

Sample Receipt Checklist

Origins Work Order: ES0590 Client: Tasman
 Client Project ID: Aurora

Checklist Completed by: ZHO/JAR Shipped Via: HD
 Date/Time completed: 3/10/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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


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

Thermometer ID: 1009

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 NaAsO2+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) [Signature] Date/Time Reviewed 03/18/25

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Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH01@5-6'
3/14/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-01 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00144	0.00437	mg/kg dry	1	2772611	03/28/2025	03/29/2025	U
2-Methylnaphthalene	ND	0.00144	0.00437	"	"	"	"	"	U
Acenaphthene	ND	0.00144	0.00437	"	"	"	"	"	U
Anthracene	ND	0.00144	0.00437	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00144	0.00437	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00144	0.00437	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00144	0.00437	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00144	0.00437	"	"	"	"	"	U
Chrysene	ND	0.00144	0.00437	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00144	0.00437	"	"	"	"	"	U
Fluoranthene	ND	0.00144	0.00437	"	"	"	"	"	U
Fluorene	ND	0.00144	0.00437	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00144	0.00437	"	"	"	"	"	U
Naphthalene	ND	0.00144	0.00437	"	"	"	"	"	U
Pyrene	ND	0.00144	0.00437	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	77 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.127	0.318	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

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3/14/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.455		0.101	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2025	03/20/2025	03/24/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	92.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1814	03/18/2025	03/21/2025	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	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %			70-130		"	"	"	

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Bryce Goldade
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Project: Noble - Aurora USX AB25-25

BH01@5-6'
3/14/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-01 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	0.674		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	0.956		0.823	"	"	"	"	"	
Sodium	5.19		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.49			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	5.75		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.603		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.40		0.267	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	28.6		9.19	"	"	"	"	"	
Cadmium	ND		0.0919	"	"	"	"	"	
Copper	ND		9.19	"	"	"	"	"	
Lead	7.54		0.919	"	"	"	"	"	
Nickel	7.03		0.919	"	"	"	"	"	
Selenium	ND		0.239	"	"	"	"	"	

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Bryce Goldade
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 Project: Noble - Aurora USX AB25-25

BH01@5-6'

3/14/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Silver	ND		0.0919	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Zinc	44.9		34.0	"	"	"	"	"	

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BH01@7-8'
3/14/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-02 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00122	0.00370	mg/kg dry	1	2772611	03/28/2025	03/29/2025	U
2-Methylnaphthalene	ND	0.00122	0.00370	"	"	"	"	"	U
Acenaphthene	ND	0.00122	0.00370	"	"	"	"	"	U
Anthracene	ND	0.00122	0.00370	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00122	0.00370	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00122	0.00370	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00122	0.00370	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00122	0.00370	"	"	"	"	"	U
Chrysene	ND	0.00122	0.00370	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00122	0.00370	"	"	"	"	"	U
Fluoranthene	ND	0.00122	0.00370	"	"	"	"	"	U
Fluorene	ND	0.00122	0.00370	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00122	0.00370	"	"	"	"	"	U
Naphthalene	ND	0.00122	0.00370	"	"	"	"	"	U
Pyrene	ND	0.00122	0.00370	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	84 %			22-135		"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH01@7-8'
3/14/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-02 (Soil)

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.70		0.101	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2025	03/20/2025	03/24/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	90.2 %								
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1814	03/18/2025	03/21/2025	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	119 %								
Surrogate: Toluene-d8	100 %								
Surrogate: 4-Bromofluorobenzene	97.4 %								

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Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH01@7-8'
3/14/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-02 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	4.42		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	5.48		0.823	"	"	"	"	"	
Sodium	17.8		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	8.00		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.97		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.25		0.274	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	79.4		9.43	"	"	"	"	"	
Cadmium	0.113		0.0943	"	"	"	"	"	
Copper	ND		9.43	"	"	"	"	"	
Lead	19.7		0.943	"	"	"	"	"	
Nickel	6.02		0.943	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	

Origins Laboratory



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH01@7-8'

3/14/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0943	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Zinc	ND		34.9	"	"	"	"	"	

Origins Laboratory

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH02@5-6'
3/14/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-03 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00123	0.00373	mg/kg dry	1	2772611	03/28/2025	03/29/2025	U
2-Methylnaphthalene	ND	0.00123	0.00373	"	"	"	"	"	U
Acenaphthene	ND	0.00123	0.00373	"	"	"	"	"	U
Anthracene	ND	0.00123	0.00373	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00123	0.00373	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00123	0.00373	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00123	0.00373	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00123	0.00373	"	"	"	"	"	U
Chrysene	ND	0.00123	0.00373	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00123	0.00373	"	"	"	"	"	U
Fluoranthene	ND	0.00123	0.00373	"	"	"	"	"	U
Fluorene	ND	0.00123	0.00373	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00123	0.00373	"	"	"	"	"	U
Naphthalene	ND	0.00123	0.00373	"	"	"	"	"	U
Pyrene	ND	0.00123	0.00373	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	85 %			22-135	"	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.116	0.290	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

Origins Laboratory



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ORIGINS LABORATORY

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH02@5-6'

3/14/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.145		0.0985	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2025	03/20/2025	03/24/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	95.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1814	03/18/2025	03/21/2025	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	94.9 %			70-130		"	"	"	

Origins Laboratory



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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH02@5-6'
3/14/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-03 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	0.611		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	1.02		0.823	"	"	"	"	"	
Sodium	1.51		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.54			pH Units	1	B5C2118	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	1.67		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.322		0.00500	mmhos/cm	1	B5C2118	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.58		0.262	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	28.6		9.02	"	"	"	"	"	
Cadmium	ND		0.0902	"	"	"	"	"	
Copper	ND		9.02	"	"	"	"	"	
Lead	3.87		0.902	"	"	"	"	"	
Nickel	3.05		0.902	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	

Origins Laboratory



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH02@5-6'

3/14/2025 8:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0902	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Zinc	ND		33.4	"	"	"	"	"	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH03@5-6'
3/14/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-04 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00133	0.00405	mg/kg dry	1	2772611	03/28/2025	03/29/2025	U
2-Methylnaphthalene	ND	0.00133	0.00405	"	"	"	"	"	U
Acenaphthene	ND	0.00133	0.00405	"	"	"	"	"	U
Anthracene	ND	0.00133	0.00405	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00133	0.00405	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00133	0.00405	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00133	0.00405	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00133	0.00405	"	"	"	"	"	U
Chrysene	ND	0.00133	0.00405	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00133	0.00405	"	"	"	"	"	U
Fluoranthene	ND	0.00133	0.00405	"	"	"	"	"	U
Fluorene	ND	0.00133	0.00405	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00133	0.00405	"	"	"	"	"	U
Naphthalene	ND	0.00133	0.00405	"	"	"	"	"	U
Pyrene	ND	0.00133	0.00405	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	76 %			22-135	"	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.118	0.296	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH03@5-6'
3/14/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.403		0.101	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2025	03/20/2025	03/24/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	95.0 %								
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1814	03/18/2025	03/21/2025	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	108 %								
Surrogate: Toluene-d8	103 %								
Surrogate: 4-Bromofluorobenzene	96.5 %								

Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH03@5-6'
3/14/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-04 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	4.42	0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	9.16		pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	7.67	0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.468	0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.70	0.272	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	11.0	9.38	"	"	"	"	"	
Cadmium	ND	0.0938	"	"	"	"	"	
Copper	ND	9.38	"	"	"	"	"	
Lead	2.65	0.938	"	"	"	"	"	
Nickel	2.24	0.938	"	"	"	"	"	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH03@5-6'

3/14/2025 8:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Selenium	ND		0.244	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Silver	ND		0.0938	"	"	"	"	"	
Zinc	ND		34.7	"	"	"	"	"	

Origins Laboratory

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH04@5-6'
3/14/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-05 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00127	0.00386	mg/kg dry	1	2772611	03/28/2025	03/29/2025	U
2-Methylnaphthalene	ND	0.00127	0.00386	"	"	"	"	"	U
Acenaphthene	ND	0.00127	0.00386	"	"	"	"	"	U
Anthracene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00127	0.00386	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00127	0.00386	"	"	"	"	"	U
Chrysene	ND	0.00127	0.00386	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00127	0.00386	"	"	"	"	"	U
Fluoranthene	ND	0.00127	0.00386	"	"	"	"	"	U
Fluorene	ND	0.00127	0.00386	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00127	0.00386	"	"	"	"	"	U
Naphthalene	ND	0.00127	0.00386	"	"	"	"	"	U
Pyrene	ND	0.00127	0.00386	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	78 %			22-135	"	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.163	0.407	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

Origins Laboratory



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ORIGINS LABORATORY

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH04@5-6'

3/14/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.932		0.0999	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2025	03/20/2025	03/24/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	98.3 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1814	03/18/2025	03/21/2025	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	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %			70-130		"	"	"	

Origins Laboratory



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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH04@5-6'
3/14/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-05 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	7.18		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	7.19		0.823	"	"	"	"	"	
Sodium	8.66		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	3.23		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.73		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.45		0.263	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	53.9		9.05	"	"	"	"	"	
Cadmium	0.0933		0.0905	"	"	"	"	"	
Copper	ND		9.05	"	"	"	"	"	
Lead	9.08		0.905	"	"	"	"	"	
Nickel	8.08		0.905	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	

Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH04@5-6'

3/14/2025 9:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0905	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Zinc	35.9		33.5	"	"	"	"	"	

Origins Laboratory

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH05@5-6'
3/14/2025 9:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-06 (Soil)									
GEL Laboratories, LLC									
PAH by 3541/8270									
1-Methylnaphthalene	ND	0.00129	0.00391	mg/kg dry	1	2772611	03/28/2025	03/29/2025	U
2-Methylnaphthalene	ND	0.00129	0.00391	"	"	"	"	"	U
Acenaphthene	ND	0.00129	0.00391	"	"	"	"	"	U
Anthracene	ND	0.00129	0.00391	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00129	0.00391	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00129	0.00391	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00129	0.00391	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00129	0.00391	"	"	"	"	"	U
Chrysene	ND	0.00129	0.00391	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00129	0.00391	"	"	"	"	"	U
Fluoranthene	ND	0.00129	0.00391	"	"	"	"	"	U
Fluorene	ND	0.00129	0.00391	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00129	0.00391	"	"	"	"	"	U
Naphthalene	ND	0.00129	0.00391	"	"	"	"	"	U
Pyrene	ND	0.00129	0.00391	"	"	"	"	"	U
Surrogate: 5-alpha-Androstane	86 %			22-135	"	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.152	0.381	mg/kg dry	1	2774529	04/01/2025	04/02/2025	U

Origins Laboratory

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH05@5-6'

3/14/2025 9:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-06 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.142		0.0997	mg/L	1	B5C2006	03/20/2025	03/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5C2025	03/20/2025	03/24/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	103 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5C1814	03/18/2025	03/21/2025	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	108 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %			70-130		"	"	"	

Origins Laboratory



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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BH05@5-6'
3/14/2025 9:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-06 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	0.712		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	1.51		0.823	"	"	"	"	"	
Sodium	2.55		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.44			pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	2.42		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.404		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.89		0.256	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	128		8.83	"	"	"	"	"	
Cadmium	0.117		0.0883	"	"	"	"	"	
Copper	ND		8.83	"	"	"	"	"	
Lead	8.07		0.883	"	"	"	"	"	
Nickel	6.37		0.883	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	

Origins Laboratory



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BH05@5-6'

3/14/2025 9:12:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-06 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.0883	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Zinc	ND		32.7	"	"	"	"	"	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG01@5-6'
3/14/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-07 (Soil)
GEL Laboratories, LLC

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.106	0.264	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.338		0.0991	mg/L	1	B5C2006	03/20/2025	03/21/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.39		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	2.64		0.823	"	"	"	"	"	"
Sodium	3.55		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.37			pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	2.50		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.831		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG01@5-6'
3/14/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.15	0.251	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	51.2	8.64	"	"	"	"	"	
Cadmium	ND	0.0864	"	"	"	"	"	
Copper	ND	8.64	"	"	"	"	"	
Lead	5.19	0.864	"	"	"	"	"	
Nickel	4.74	0.864	"	"	"	"	"	
Selenium	ND	0.225	"	"	"	"	"	
Silver	ND	0.0864	"	"	"	"	"	
Zinc	ND	32.0	"	"	"	"	"	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG01@7-8'
3/14/2025 9:22:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-08 (Soil)									
GEL Laboratories, LLC									
TOTAL METALS BY 7196A									
Hexavalent Chromium	ND	0.101	0.254	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.644		0.101	mg/L	1	B5C2006	03/20/2025	03/21/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	2.82		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	4.92		0.823	"	"	"	"	"	
Sodium	11.1		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.30			pH Units	1	B5C2120	03/21/2025	03/24/2025	
SAR by 20B Saturated Paste									
SAR	5.67		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.72		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG01@7-8'
3/14/2025 9:22:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-08 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.79		0.273	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	50.4		9.43	"	"	"	"	"	"
Cadmium	ND		0.0943	"	"	"	"	"	"
Copper	ND		9.43	"	"	"	"	"	"
Lead	4.35		0.943	"	"	"	"	"	"
Nickel	4.18		0.943	"	"	"	"	"	"
Selenium	ND		0.245	"	"	"	"	"	"
Silver	ND		0.0943	"	"	"	"	"	"
Zinc	ND		34.9	"	"	"	"	"	"

Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG02@5-6'
3/14/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-09 (Soil)									
GEL Laboratories, LLC									
TOTAL METALS BY 7196A									
Hexavalent Chromium	ND	0.148	0.369	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.454		0.0999	mg/L	1	B5C2007	03/20/2025	03/21/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	0.579		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	1.09		0.823	"	"	"	"	"	
Sodium	7.01		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.42			pH Units	1	B5C2120	03/21/2025	03/24/2025	
SAR by 20B Saturated Paste									
SAR	7.68		0.0100	SAR	1	B5C2047	03/20/2025	03/27/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.21		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	

Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG02@5-6'
3/14/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-09 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.89		0.256	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	37.6		8.81	"	"	"	"	"	
Cadmium	ND		0.0881	"	"	"	"	"	
Copper	ND		8.81	"	"	"	"	"	
Lead	6.80		0.881	"	"	"	"	"	
Nickel	6.42		0.881	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	"	
Zinc	38.8		32.6	"	"	"	"	"	

Origins Laboratory

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.

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

BKG02@7-8'
3/14/2025 9:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-10 (Soil)
GEL Laboratories, LLC

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.159	0.398	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.26		0.0994	mg/L	1	B5C2007	03/20/2025	03/21/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.852		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	1.36		0.823	"	"	"	"	"	
Sodium	9.22		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.47			pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	8.76		0.0100	SAR	1	B5C2048	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.17		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Origins Laboratory



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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG02@7-8'
3/14/2025 9:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-10 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.34		0.270	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	44.3		9.31	"	"	"	"	"	"
Cadmium	0.120		0.0931	"	"	"	"	"	"
Copper	13.1		9.31	"	"	"	"	"	"
Lead	13.4		0.931	"	"	"	"	"	"
Nickel	14.2		0.931	"	"	"	"	"	"
Selenium	ND		0.242	"	"	"	"	"	"
Silver	ND		0.0931	"	"	"	"	"	"
Zinc	72.4		34.4	"	"	"	"	"	"

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG03@5-6'
3/14/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-11 (Soil)
GEL Laboratories, LLC

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.187	0.467	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.69		0.0993	mg/L	1	B5C2007	03/20/2025	03/21/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	24.1		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	18.6		0.823	"	"	"	"	"	"
Sodium	19.5		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.00			pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	4.21		0.0100	SAR	1	B5C2048	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.19		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG03@5-6'
3/14/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-11 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.57		0.247	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	232		8.51	"	"	"	"	"	"
Cadmium	0.0961		0.0851	"	"	"	"	"	"
Copper	28.1		8.51	"	"	"	"	"	"
Lead	18.9		0.851	"	"	"	"	"	"
Nickel	15.1		0.851	"	"	"	"	"	"
Selenium	0.477		0.221	"	"	"	"	"	"
Silver	ND		0.0851	"	"	"	"	"	"
Zinc	93.6		31.5	"	"	"	"	"	"

Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG04@5-6'
3/14/2025 9:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-12 (Soil)
GEL Laboratories, LLC

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.161	0.403	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.01		0.0985	mg/L	1	B5C2007	03/20/2025	03/21/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	3.04		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	7.07		0.823	"	"	"	"	"	
Sodium	22.9		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	10.2		0.0100	SAR	1	B5C2048	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.51		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG04@5-6'
3/14/2025 9:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-12 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.36	0.286	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	192	9.85	"	"	"	"	"	"
Cadmium	0.132	0.0985	"	"	"	"	"	"
Copper	ND	9.85	"	"	"	"	"	"
Lead	5.98	0.985	"	"	"	"	"	"
Nickel	6.06	0.985	"	"	"	"	"	"
Selenium	ND	0.256	"	"	"	"	"	"
Silver	ND	0.0985	"	"	"	"	"	"
Zinc	ND	36.5	"	"	"	"	"	"

Origins Laboratory

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.



Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG04@7-8'
3/14/2025 9:52:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-13 (Soil)									
GEL Laboratories, LLC									
TOTAL METALS BY 7196A									
Hexavalent Chromium	ND	0.125	0.313	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.940		0.0989	mg/L	1	B5C2007	03/20/2025	03/21/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	15.0		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	18.8		0.823	"	"	"	"	"	
Sodium	26.1		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.16			pH Units	1	B5C2120	03/21/2025	03/24/2025	
SAR by 20B Saturated Paste									
SAR	6.34		0.0100	SAR	1	B5C2048	03/20/2025	03/27/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	4.06		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG04@7-8'
3/14/2025 9:52:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-13 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.71		0.251	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	62.5		8.67	"	"	"	"	"	"
Cadmium	ND		0.0867	"	"	"	"	"	"
Copper	ND		8.67	"	"	"	"	"	"
Lead	4.80		0.867	"	"	"	"	"	"
Nickel	4.94		0.867	"	"	"	"	"	"
Selenium	ND		0.225	"	"	"	"	"	"
Silver	ND		0.0867	"	"	"	"	"	"
Zinc	ND		32.1	"	"	"	"	"	"

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG05@5-6'
3/14/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-14 (Soil)
GEL Laboratories, LLC

TOTAL METALS BY 7196A

Hexavalent Chromium	ND	0.111	0.279	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.03		0.101	mg/L	1	B5C2007	03/20/2025	03/23/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.983		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	1.52		0.823	"	"	"	"	"	
Sodium	7.34		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.44			pH Units	1	B5C2120	03/21/2025	03/24/2025	
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SAR by 20B Saturated Paste

SAR	6.56		0.0100	SAR	1	B5C2048	03/20/2025	03/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.02		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	
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Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG05@5-6'
3/14/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-14 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.37		0.263	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	57.5		9.08	"	"	"	"	"	
Cadmium	ND		0.0908	"	"	"	"	"	
Copper	ND		9.08	"	"	"	"	"	
Lead	4.79		0.908	"	"	"	"	"	
Nickel	4.88		0.908	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0908	"	"	"	"	"	
Zinc	ND		33.6	"	"	"	"	"	

Origins Laboratory

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Tasman Geosciences
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 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG05@7-8'
3/14/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5C0590-15 (Soil)									
GEL Laboratories, LLC									
TOTAL METALS BY 7196A									
Hexavalent Chromium	ND	0.154	0.385	mg/kg dry	1	2779153	04/11/2025	04/11/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.15		0.101	mg/L	1	B5C2007	03/20/2025	03/23/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	0.624		0.499	meq/L	10	[CALC]	03/20/2025	03/27/2025	
Magnesium	1.06		0.823	"	"	"	"	"	
Sodium	6.98		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.52			pH Units	1	B5C2120	03/21/2025	03/24/2025	
SAR by 20B Saturated Paste									
SAR	7.61		0.0100	SAR	1	B5C2048	03/20/2025	03/27/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.842		0.00500	mmhos/cm	1	B5C2120	03/21/2025	03/24/2025	

Origins Laboratory

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 6855 West 119th Avenue
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Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

BKG05@7-8'
3/14/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5C0590-15 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.83		0.280	mg/kg	10	B5C2054	03/20/2025	03/22/2025	
Barium	86.8		9.65	"	"	"	"	"	"
Cadmium	ND		0.0965	"	"	"	"	"	"
Copper	ND		9.65	"	"	"	"	"	"
Lead	5.85		0.965	"	"	"	"	"	"
Nickel	6.14		0.965	"	"	"	"	"	"
Selenium	ND		0.251	"	"	"	"	"	"
Silver	ND		0.0965	"	"	"	"	"	"
Zinc	ND		35.7	"	"	"	"	"	"

Origins Laboratory

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Tasman Geosciences
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 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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 B5C2006 - DTPA Sorbitol Preparation

Blank (B5C2006-BLK1)

Prepared: 03/20/2025 Analyzed: 03/21/2025

Boron ND 0.100 mg/L

Duplicate (B5C2006-DUP1)

Source: E5C0588-59

Prepared: 03/20/2025 Analyzed: 03/21/2025

Boron 0.215 0.0996 mg/L 0.283 27.3 50

Batch B5C2007 - DTPA Sorbitol Preparation

Blank (B5C2007-BLK1)

Prepared: 03/20/2025 Analyzed: 03/21/2025

Boron ND 0.100 mg/L

Duplicate (B5C2007-DUP1)

Source: E5C0590-09

Prepared: 03/20/2025 Analyzed: 03/21/2025

Boron 0.526 0.101 mg/L 0.454 14.7 50

Batch B5C2047 - Saturated Paste Metals

Blank (B5C2047-BLK1)

Prepared: 03/20/2025 Analyzed: 03/27/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5C2047-DUP1)

Source: E5C0589-01

Prepared: 03/20/2025 Analyzed: 03/27/2025

Calcium PPM 183 10.0 mg/L 335 59.0 50 QR-DUP

SAR ND 0.0100 SAR ND 200

Magnesium PPM 111 10.0 mg/L 172 43.1 50

Sodium PPM 1510 10.0 " 1800 18.1 50

Origins Laboratory

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 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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 B5C2048 - Saturated Paste Metals

Blank (B5C2048-BLK1)

Prepared: 03/20/2025 Analyzed: 03/27/2025

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B5C2048-DUP1)

Source: E5C0590-10

Prepared: 03/20/2025 Analyzed: 03/27/2025

Calcium PPM	20.0	10.0	mg/L		17.1			15.7	50	
SAR	ND	0.0100	SAR		8.76				200	
Magnesium PPM	19.7	10.0	mg/L		16.6			17.3	50	
Sodium PPM	239	10.0	"		212			12.0	50	

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Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

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 B5C2025 - EPA 3550B

Blank (B5C2025-BLK1)

Prepared: 03/20/2025 Analyzed: 03/24/2025

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.9	50-150			

LCS (B5C2025-BS1)

Prepared: 03/20/2025 Analyzed: 03/24/2025

Diesel (C10-C28)	986	50.0	mg/kg	1000		98.6	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	65		"	49.8		131	50-150			

Matrix Spike (B5C2025-MS1)

Source: E5C0552-01

Prepared: 03/20/2025 Analyzed: 03/24/2025

Diesel (C10-C28)	996	50.0	mg/kg	1000	ND	99.6	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.6	50-150			

Matrix Spike Dup (B5C2025-MSD1)

Source: E5C0552-01

Prepared: 03/20/2025 Analyzed: 03/24/2025

Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	4.58	35	
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130	3.40	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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 B5C2054 - EPA 3050B

Blank (B5C2054-BLK1)

Prepared: 03/20/2025 Analyzed: 03/22/2025

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 (B5C2054-BS1)

Prepared: 03/20/2025 Analyzed: 03/22/2025

Arsenic	5.65	0.290	mg/kg	5.00		113	80-120			
Barium	579	10.0	"	500		116	80-120			
Cadmium	5.51	0.100	"	5.00		110	80-120			
Copper	59.1	10.0	"	50.0		118	80-120			
Lead	5.61	1.00	"	5.00		112	80-120			
Nickel	5.98	1.00	"	5.00		120	80-120			
Selenium	5.72	0.260	"	5.00		114	80-120			
Silver	5.82	0.100	"	5.00		116	80-120			
Zinc	56.1	37.0	"	50.0		112	80-120			

Matrix Spike (B5C2054-MS1)

Source: E5C0590-01

Prepared: 03/20/2025 Analyzed: 03/22/2025

Arsenic	6.95	0.254	mg/kg	4.38	2.40	104	75-125			
Barium	520	8.76	"	438	28.6	112	75-125			
Cadmium	4.65	0.0876	"	4.38	0.0349	105	75-125			
Copper	56.1	8.76	"	43.8	8.19	109	75-125			
Lead	13.2	0.876	"	4.38	7.54	130	75-125			QM-07

Origins Laboratory

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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 B5C2054 - EPA 3050B

Matrix Spike (B5C2054-MS1)

Source: E5C0590-01

Prepared: 03/20/2025 Analyzed: 03/22/2025

Nickel	12.7	0.876	mg/kg	4.38	7.03	131	75-125			QM-07
Selenium	4.34	0.228	"	4.38	0.0947	97.0	75-125			
Silver	4.80	0.0876	"	4.38	0.0110	109	75-125			
Zinc	92.7	32.4	"	43.8	44.9	109	75-125			

Matrix Spike Dup (B5C2054-MSD1)

Source: E5C0590-01

Prepared: 03/20/2025 Analyzed: 03/22/2025

Arsenic	7.12	0.259	mg/kg	4.47	2.40	106	75-125	2.47	20	
Barium	539	8.93	"	447	28.6	114	75-125	3.50	20	
Cadmium	4.87	0.0893	"	4.47	0.0349	108	75-125	4.67	20	
Copper	58.5	8.93	"	44.7	8.19	113	75-125	4.24	20	
Lead	12.5	0.893	"	4.47	7.54	112	75-125	5.32	20	
Nickel	12.3	0.893	"	4.47	7.03	118	75-125	3.69	20	
Selenium	4.67	0.232	"	4.47	0.0947	102	75-125	7.26	20	
Silver	5.03	0.0893	"	4.47	0.0110	112	75-125	4.70	20	
Zinc	92.4	33.0	"	44.7	44.9	106	75-125	0.357	20	

Origins Laboratory

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 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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 B5C2118 - Saturated Paste pH/EC

Blank (B5C2118-BLK1)

Prepared: 03/21/2025 Analyzed: 03/24/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5C2118-DUP1)

Source: E5C0562-01

Prepared: 03/21/2025 Analyzed: 03/24/2025

pH 8.15 pH Units 8.10 0.615 25

Specific Conductance (EC) 4.64 0.00500 mmhos/cm 4.30 7.66 25

Batch B5C2120 - Saturated Paste pH/EC

Blank (B5C2120-BLK1)

Prepared: 03/21/2025 Analyzed: 03/24/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5C2120-DUP1)

Source: E5C0590-04

Prepared: 03/21/2025 Analyzed: 03/24/2025

pH 9.09 pH Units 9.16 0.767 25

Specific Conductance (EC) 0.562 0.00500 mmhos/cm 0.468 18.2 25

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

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 B5C1814 - EPA 5030 (soil)

Blank (B5C1814-BLK1)

Prepared: 03/18/2025 Analyzed: 03/20/2025

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	0.12		"	0.125	93.7	70-130
Surrogate: Toluene-d8	0.13		"	0.125	104	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.9	70-130

LCS (B5C1814-BS1)

Prepared: 03/18/2025 Analyzed: 03/20/2025

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	103	70-130
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	102	70-130
Benzene	0.102	0.00200	"	0.100	102	70-130
Ethylbenzene	0.0820	0.00200	"	0.100	82.0	70-130
Toluene	0.106	0.00200	"	0.100	106	70-130
o-Xylene	0.0853	0.00200	"	0.100	85.3	70-130
m,p-Xylene	0.169	0.00400	"	0.200	84.4	70-130
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105	70-130
Surrogate: Toluene-d8	0.13		"	0.125	105	70-130
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	89.8	70-130

Matrix Spike (B5C1814-MS1)

Source: E5C0579-21

Prepared: 03/18/2025 Analyzed: 03/20/2025

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100	ND	97.9	70-130
1,3,5-Trimethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130
Benzene	0.0900	0.00200	"	0.100	ND	90.0	70-130

Origins Laboratory

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

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 B5C1814 - EPA 5030 (soil)

Matrix Spike (B5C1814-MS1)

Source: E5C0579-21

Prepared: 03/18/2025 Analyzed: 03/20/2025

Ethylbenzene	0.0987	0.00200	mg/kg	0.100	ND	98.7	70-130			
Toluene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
o-Xylene	0.0992	0.00200	"	0.100	ND	99.2	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Matrix Spike Dup (B5C1814-MSD1)

Source: E5C0579-21

Prepared: 03/18/2025 Analyzed: 03/20/2025

1,2,4-Trimethylbenzene	0.0959	0.00200	mg/kg	0.100	ND	95.9	70-130	2.06	20	
1,3,5-Trimethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130	3.28	20	
Benzene	0.0919	0.00200	"	0.100	ND	91.9	70-130	2.04	20	
Ethylbenzene	0.0978	0.00200	"	0.100	ND	97.8	70-130	0.957	20	
Toluene	0.0953	0.00200	"	0.100	ND	95.3	70-130	1.29	20	
o-Xylene	0.0982	0.00200	"	0.100	ND	98.2	70-130	0.952	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.2	70-130	1.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

TOTAL METALS BY 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 2779153 - SW846 3060A

BLANK (1206065338-BLK)

Prepared: 04/11/2025 Analyzed: 04/11/2025

Hexavalent Chromium	ND	0.392	mg/kg				-			U
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LCS (1206065339-BKS)

Prepared: 04/11/2025 Analyzed: 04/11/2025

Hexavalent Chromium	3.07	0.306	mg/kg	3.06		100	80-120			
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DUP (1206065340 D)

Source: 717074001

Prepared: 04/11/2025 Analyzed: 04/11/2025

Hexavalent Chromium	ND	0.269	mg/kg dry		<0.108		0-50	N/A	50	U
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MS (1206065341 S)

Source: 717074001

Prepared: 04/11/2025 Analyzed: 04/11/2025

Hexavalent Chromium	2.02	0.270	mg/kg dry	2.70	<0.108	74.8	75-125			
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DUP (1206065342 D)

Source: 717074002

Prepared: 04/11/2025 Analyzed: 04/11/2025

Hexavalent Chromium	ND	0.305	mg/kg dry		<0.122		0-50	N/A	50	U
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MS (1206065343 S)

Source: 717074002

Prepared: 04/11/2025 Analyzed: 04/11/2025

Hexavalent Chromium	2.15	0.305	mg/kg dry	3.05	<0.122	69.3	75-125			
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ILCS (1206065344-ILCS)

Prepared: 04/11/2025 Analyzed: 04/11/2025

Hexavalent Chromium	5.52	0.263	mg/kg	5.30		104	80-120			
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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

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

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

Chrysene	0.218	0.00327	mg/kg	0.327	67	42-117
2-Methylnaphthalene	0.189	0.00327	"	0.327	58	39-110
1-Methylnaphthalene	0.186	0.00327	"	0.327	57	39-109
Anthracene	0.209	0.00327	"	0.327	64	41-117
Benzo(a)anthracene	0.211	0.00327	"	0.327	64	42-120
Benzo(a)pyrene	0.211	0.00327	"	0.327	65	39-127
Pyrene	0.205	0.00327	"	0.327	63	38-117
Benzo(k)fluoranthene	0.194	0.00327	"	0.327	60	40-122
Acenaphthene	0.194	0.00327	"	0.327	59	41-112

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

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

LCS (1206051642-BKS)

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

Dibenzo(a,h)anthracene	0.212	0.00327	mg/kg	0.327		65	38-132			
Fluoranthene	0.202	0.00327	"	0.327		62	39-119			
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			
Surrogate: 5-alpha-Androstane	0.113		"	0.163		69	22-135			

LCSD (1206051643-BKSD)

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

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

MS (1206051644 S)

Source: E5C0590-01

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

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 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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

MS (1206051644 S)

Source: E5C0590-01

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

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

Surrogate: 5-alpha-Androstane

0.116

"

0.218

0.168

53

22-135

MSD (1206051645 SD)

Source: E5C0590-01

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

Dibenzo(a,h)anthracene	0.324	0.00431	mg/kg dry	0.431	<0.00142	75	11-134	37	30	
Pyrene	0.299	0.00431	"	0.431	<0.00142	69	12-139	32	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	
Indeno(1,2,3-cd)pyrene	0.314	0.00431	"	0.431	<0.00142	73	13-134	36	30	
Fluoranthene	0.296	0.00431	"	0.431	<0.00142	69	14-136	32	30	
Chrysene	0.323	0.00431	"	0.431	<0.00142	75	19-129	34	30	
2-Methylnaphthalene	0.233	0.00431	"	0.431	<0.00142	54	15-132	29	30	
Fluorene	0.269	0.00431	"	0.431	<0.00142	62	16-134	31	30	

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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

MSD (1206051645 SD)

Source: E5C0590-01

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

1-Methylnaphthalene	0.233	0.00431	mg/kg dry	0.431	<0.00142	54	15-129	31	30	
Benzo(a)pyrene	0.318	0.00431	"	0.431	<0.00142	74	16-133	33	30	
Acenaphthene	0.258	0.00431	"	0.431	<0.00142	60	17-129	34	30	
Benzo(k)fluoranthene	0.287	0.00431	"	0.431	<0.00142	67	18-138	32	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	
Surrogate: 5-alpha-Androstane	0.165		"	0.216	0.168	77	22-135			

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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Bryce Goldade
 Project Number: [none]
 Project: Noble - Aurora USX AB25-25

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: E5C0590-01

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: E5C0590-01

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: E5C0590-02

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: E5C0590-02

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

Bryce Goldade
Project Number: [none]
Project: Noble - Aurora USX AB25-25

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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