

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 17, 2025

Bryce Goldade

Tasman Geosciences

4725 Independence St.

Wheat Ridge, CO 80033

RE: PDC - Edens 11,12,18-52 Tank Battery

Work Order #2506005

Enclosed are the results of analyses for samples received by Summit Scientific on 06/03/25 17:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0-6"	2506005-01	Soil	06/03/25 13:05	06/03/25 17:41
AST02@0-6"	2506005-02	Soil	06/03/25 13:10	06/03/25 17:41
PWV01-B@5'	2506005-03	Soil	06/03/25 13:14	06/03/25 17:41
PWV01-N@3'	2506005-04	Soil	06/03/25 13:16	06/03/25 17:41
PWV01-W@3'	2506005-07	Soil	06/03/25 13:26	06/03/25 17:41
SEP01-FL@4'	2506005-08	Soil	06/03/25 12:23	06/03/25 17:41
SEP01-DL@4'	2506005-09	Soil	06/03/25 12:19	06/03/25 17:41

Summit Scientific

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<b>Send Data To:</b>		<b>Send Invoice To:</b>	
Client: Noble/Tasman	Project Manager: Bryce Goldade	Company: <u>PDC</u>	
Address: 4725 Independence St.	E-Mail: tas-chevron-4@tasman-geo.com	Project Name/Location: <u>Edens 11,12,18-52 Tank Battery</u>	
City/State/Zip: Wheatridge, CO 80033	<a href="mailto:RBUEF27@chevron.com">RBUEF27@chevron.com</a>	AFE#: <u>UWRWE-AS063-AES</u>	
Phone: 7202891722	Project Name: <u>Edens 11,12,18-52 Tank Battery</u>	PO/Billing Codes:	
Sampler Name: Matthew Bush	Project Number: <u>10526</u>	Contact: <u>Sam Malwal</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil			Metals - 915	VOC - 915	TPH - 915	PAH - 915	SAR, EC, pH	Boron - HWS	HOLD		
1	<u>AST01e0-6"</u>	<u>6/3/25</u>	<u>1305</u>	<u>4</u>			<u>X</u>			<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
2	<u>AST02e0-6"</u>		<u>1310</u>				<u>X</u>														
3	<u>Pwvol-Bes</u>		<u>1314</u>																		
4	<u>Pwvol-Ne3</u>		<u>1316</u>																		<u>*</u>
5	<u>Pwvol-Ee3</u>		<u>1320</u>																	<u>X</u>	
6	<u>Pwvol-Ge3</u>		<u>1323</u>																	<u>X</u>	
7	<u>Pwvol-We3</u>		<u>1326</u>									<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			<u>*</u>
8	<u>Sepol-FlE4</u>		<u>1223</u>																		
9	<u>Sepol-PlE4</u>		<u>1219</u>																		
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>[Signature]</u> Date/Time: <u>6/3/25 1544</u>	Received by: <u>Tasman Lock Box</u> Date/Time: <u>6/3/25 1544</u>	TAT Business Days	Field DO	Notes: <u>* Same Day for VOC/TPH ALL other Analysis on Standard</u>
Relinquished by: <u>Tasman Lock Box</u> Date/Time: <u>6/3/25 1741</u>	Received by: <u>[Signature]</u> Date/Time: <u>6/3/25 1741</u>	Same Day <input checked="" type="checkbox"/>	Field EC	
		1 Day	Field ORP	
		2 Days	Field pH	
		3 Days	Field Temp.	
Temperature Upon Receipt: <u>1.9</u>	Corrected Temperature: <u>0</u>	Standard <input checked="" type="checkbox"/>	Field Turb.	
	IR gun #: <u>1</u>		HNO3 lot #:	





Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**AST01@0-6"**  
**2506005-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIF0036	06/04/25	06/04/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0458	115 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	98.9 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIF0041	06/04/25	06/14/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.56	60.4 %		50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

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**AST01@0-6"**  
**2506005-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0030	06/04/25	06/05/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0223	66.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	62.9 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0024	06/03/25	06/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**AST01@0-6"**  
**2506005-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.58	0.200	mg/kg dry	1	BIF0027	06/03/25	06/05/25	EPA 6020B	
Barium	39.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.63	0.400	"	"	"	"	"	"	
Lead	4.39	0.200	"	"	"	"	"	"	
Nickel	3.19	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0032	06/04/25	06/04/25	Hach 8000	

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

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	260	0.0500	mg/L dry	1	BIF0025	06/03/25	06/05/25	EPA 6020B	
Magnesium	29.7	0.0500	"	"	"	"	"	"	
Sodium	6.50	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.102	0.00100	units	1	BIF0090	06/06/25	06/06/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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**AST01@0-6"**  
**2506005-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BIF0034	06/04/25	06/05/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.122	0.0100	mmhos/cm	1	BIF0026	06/03/25	06/04/25	EPA 120.1	

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

Date Sampled: **06/03/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.88		pH Units	1	BIF0028	06/03/25	06/04/25	EPA 9045D	

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**Reported:**  
06/17/25 08:29

**AST02@0-6"**  
**2506005-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0036	06/04/25	06/04/25	EPA 8260B	
<b>Toluene</b>	<b>0.0071</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.030</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.025</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.0075</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.012</b>	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0458	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0371	92.7 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIF0041	06/04/25	06/14/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.50	68.0 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

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**Reported:**  
06/17/25 08:29

**AST02@0-6"**  
**2506005-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0030	06/04/25	06/05/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0127</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0216</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0312</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0219	65.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0252	75.6 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0024	06/03/25	06/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Reported:**  
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**AST02@0-6"**  
**2506005-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.71	0.200	mg/kg dry	1	BIF0027	06/03/25	06/05/25	EPA 6020B	
Barium	63.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.06	0.400	"	"	"	"	"	"	
Lead	5.09	0.200	"	"	"	"	"	"	
Nickel	4.39	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	19.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0032	06/04/25	06/04/25	Hach 8000	

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

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2850	0.0500	mg/L dry	1	BIF0025	06/03/25	06/05/25	EPA 6020B	
Magnesium	263	0.0500	"	"	"	"	"	"	
Sodium	34.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.167	0.00100	units	1	BIF0090	06/06/25	06/06/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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**AST02@0-6"**  
**2506005-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.3</b>		%	1	BIF0034	06/04/25	06/05/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.261</b>	0.0100	mmhos/cm	1	BIF0026	06/03/25	06/04/25	EPA 120.1	

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

Date Sampled: **06/03/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.93</b>		pH Units	1	BIF0028	06/03/25	06/04/25	EPA 9045D	

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06/17/25 08:29

**PWV01-B@5'**  
**2506005-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0036	06/04/25	06/04/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0471	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIF0041	06/04/25	06/14/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.20	65.6 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-B@5'**  
**2506005-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0030	06/04/25	06/06/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.2 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0024	06/03/25	06/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-B@5'**  
**2506005-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.09	0.200	mg/kg dry	1	BIF0027	06/03/25	06/05/25	EPA 6020B	
Barium	60.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.05	0.400	"	"	"	"	"	"	
Lead	6.19	0.200	"	"	"	"	"	"	
Nickel	4.65	0.400	"	"	"	"	"	"	
Silver	0.0233	0.0200	"	"	"	"	"	"	
Zinc	22.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0032	06/04/25	06/04/25	Hach 8000	

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

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.6	0.0500	mg/L dry	1	BIF0025	06/03/25	06/05/25	EPA 6020B	
Magnesium	18.2	0.0500	"	"	"	"	"	"	
Sodium	906	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	27.0	0.00100	units	1	BIF0090	06/06/25	06/06/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-B@5'**  
**2506005-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.4		%	1	BIF0034	06/04/25	06/05/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.67	0.0100	mmhos/cm	1	BIF0026	06/03/25	06/04/25	EPA 120.1	

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

Date Sampled: **06/03/25 13:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97		pH Units	1	BIF0028	06/03/25	06/04/25	EPA 9045D	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-N@3'**  
**2506005-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.045	0.0020	mg/kg	1	BIF0022	06/03/25	06/03/25	EPA 8260B	
Toluene	0.44	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.16	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.2	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	2.9	0.050	"	10	"	"	"	"	
1,3,5-Trimethylbenzene	0.18	0.0050	"	1	"	"	"	"	
Naphthalene	0.065	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	27	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0367	91.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0468	117 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	910	50	mg/kg	1	BIF0023	06/03/25	06/05/25	EPA 8015M	
C28-C36 (ORO)	160	50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.53	76.2 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-N@3'**  
**2506005-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0030	06/04/25	06/06/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0150</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.00643</b>	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0134</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0179</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0203</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0192</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.149</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.251</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	66.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0276	82.7 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0024	06/03/25	06/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-N@3'**  
**2506005-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.14	0.200	mg/kg dry	1	BIF0027	06/03/25	06/05/25	EPA 6020B	
Barium	69.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.63	0.400	"	"	"	"	"	"	
Lead	6.02	0.200	"	"	"	"	"	"	
Nickel	4.66	0.400	"	"	"	"	"	"	
Silver	0.0242	0.0200	"	"	"	"	"	"	
Zinc	20.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0032	06/04/25	06/04/25	Hach 8000	

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

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1370	0.0500	mg/L dry	1	BIF0025	06/03/25	06/05/25	EPA 6020B	
Magnesium	63.9	0.0500	"	"	"	"	"	"	
Sodium	54.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.388	0.00100	units	1	BIF0090	06/06/25	06/06/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-N@3'**  
**2506005-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	<b>88.0</b>			%	1	BIF0034	06/04/25	06/05/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.261</b>	0.0100		mmhos/cm	1	BIF0026	06/03/25	06/04/25	EPA 120.1	

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

Date Sampled: **06/03/25 13:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	<b>8.47</b>			pH Units	1	BIF0028	06/03/25	06/04/25	EPA 9045D	

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4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-W@3'**  
**2506005-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0022	06/03/25	06/03/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0404	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIF0023	06/03/25	06/04/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.83	54.6 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

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Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-W@3'**  
**2506005-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0030	06/04/25	06/06/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0209	62.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0197	59.0 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0024	06/03/25	06/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-W@3'**  
**2506005-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.32	0.200	mg/kg dry	1	BIF0027	06/03/25	06/05/25	EPA 6020B	
Barium	65.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.37	0.400	"	"	"	"	"	"	
Lead	6.48	0.200	"	"	"	"	"	"	
Nickel	4.48	0.400	"	"	"	"	"	"	
Silver	0.0268	0.0200	"	"	"	"	"	"	
Zinc	20.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0032	06/04/25	06/04/25	Hach 8000	

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

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	73.6	0.0500	mg/L dry	1	BIF0025	06/03/25	06/05/25	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	2.54	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0724	0.00100	units	1	BIF0090	06/06/25	06/06/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PWV01-W@3'**  
**2506005-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.5		%	1	BIF0034	06/04/25	06/05/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.606	0.0100	mmhos/cm	1	BIF0026	06/03/25	06/04/25	EPA 120.1	

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

Date Sampled: **06/03/25 13:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BIF0028	06/03/25	06/04/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-FL@4'**  
**2506005-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.0032</b>	0.0020	mg/kg	1	BIF0036	06/04/25	06/04/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0436	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0432	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BIF0041	06/04/25	06/14/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.40	59.2 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-FL@4'**  
**2506005-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0030	06/04/25	06/06/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0184	55.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.1 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0024	06/03/25	06/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-FL@4'**  
**2506005-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.77	0.200	mg/kg dry	1	BIF0027	06/03/25	06/05/25	EPA 6020B
Barium	63.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	8.78	0.400	"	"	"	"	"	"
Lead	5.77	0.200	"	"	"	"	"	"
Nickel	4.93	0.400	"	"	"	"	"	"
Silver	0.0250	0.0200	"	"	"	"	"	"
Zinc	22.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0032	06/04/25	06/04/25	Hach 8000	

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

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.1	0.0500	mg/L dry	1	BIF0025	06/03/25	06/05/25	EPA 6020B	
Magnesium	9.83	0.0500	"	"	"	"	"	"	
Sodium	25.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.865	0.00100	units	1	BIF0090	06/06/25	06/06/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-FL@4'**  
**2506005-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BIF0034	06/04/25	06/05/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.465	0.0100	mmhos/cm	1	BIF0026	06/03/25	06/04/25	EPA 120.1	

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

Date Sampled: **06/03/25 12:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.65		pH Units	1	BIF0028	06/03/25	06/04/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-DL@4'**  
**2506005-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIF0036	06/04/25	06/05/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0473	118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	104 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>570</b>	50		mg/kg	1	BIF0041	06/04/25	06/14/25	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>430</b>	50		"	"	"	"	"	"	

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.35	74.8 %		50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-DL@4'**  
**2506005-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0030	06/04/25	06/06/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0246	73.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.1 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0024	06/03/25	06/05/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/03/25 12:19**

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

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-DL@4'**  
**2506005-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.46	0.200	mg/kg dry	1	BIF0027	06/03/25	06/05/25	EPA 6020B	
Barium	60.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.51	0.400	"	"	"	"	"	"	
Lead	5.53	0.200	"	"	"	"	"	"	
Nickel	5.08	0.400	"	"	"	"	"	"	
Silver	0.0271	0.0200	"	"	"	"	"	"	
Zinc	19.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0032	06/04/25	06/04/25	Hach 8000	

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

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.9	0.0500	mg/L dry	1	BIF0025	06/03/25	06/05/25	EPA 6020B	
Magnesium	17.5	0.0500	"	"	"	"	"	"	
Sodium	53.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.48	0.00100	units	1	BIF0090	06/06/25	06/06/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**SEP01-DL@4'**  
**2506005-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BIF0034	06/04/25	06/05/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.667	0.0100	mmhos/cm	1	BIF0026	06/03/25	06/04/25	EPA 120.1	

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

Date Sampled: **06/03/25 12:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BIF0028	06/03/25	06/04/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BIF0022 - EPA 5030 Soil MS

##### Blank (BIF0022-BLK1)

Prepared & Analyzed: 06/03/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

##### LCS (BIF0022-BS1)

Prepared & Analyzed: 06/03/25

Benzene	0.108	0.0020	mg/kg	0.100		108	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.0978	0.0050	"	0.100		97.8	70-130			
m,p-Xylene	0.197	0.010	"	0.200		98.3	70-130			
o-Xylene	0.103	0.0050	"	0.100		103	70-130			
1,2,4-Trimethylbenzene	0.0998	0.0050	"	0.100		99.8	70-130			
1,3,5-Trimethylbenzene	0.0991	0.0050	"	0.100		99.1	70-130			
Naphthalene	0.103	0.0038	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0441		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

##### Matrix Spike (BIF0022-MS1)

Source: 2506005-04

Prepared & Analyzed: 06/03/25

Benzene	0.166	0.0020	mg/kg	0.100	0.0448	121	70-130			
Toluene	0.641	0.0050	"	0.100	0.445	197	70-130			QM-4X
Ethylbenzene	0.290	0.0050	"	0.100	0.160	130	70-130			
m,p-Xylene	1.12	0.010	"	0.200	0.796	161	70-130			QM-4X
o-Xylene	0.518	0.0050	"	0.100	0.355	162	70-130			QM-4X
1,2,4-Trimethylbenzene	ND	0.0050	"	0.100	2.92	NR	70-130			QM-4X, Z-01
1,3,5-Trimethylbenzene	0.301	0.0050	"	0.100	0.178	123	70-130			
Naphthalene	0.175	0.0038	"	0.100	0.0652	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BIF0022 - EPA 5030 Soil MS**

**Matrix Spike Dup (BIF0022-MSD1)**

Source: 2506005-04

Prepared & Analyzed: 06/03/25

Benzene	0.143	0.0020	mg/kg	0.100	0.0448	98.2	70-130	14.8	30	
Toluene	0.514	0.0050	"	0.100	0.445	69.5	70-130	22.0	30	QM-4X
Ethylbenzene	0.245	0.0050	"	0.100	0.160	85.0	70-130	17.0	30	
m,p-Xylene	1.00	0.010	"	0.200	0.796	102	70-130	11.1	30	
o-Xylene	0.440	0.0050	"	0.100	0.355	84.6	70-130	16.3	30	
1,2,4-Trimethylbenzene	ND	0.0050	"	0.100	2.92	NR	70-130		30	QM-4X, Z-01
1,3,5-Trimethylbenzene	0.251	0.0050	"	0.100	0.178	73.6	70-130	17.9	30	
Naphthalene	0.153	0.0038	"	0.100	0.0652	87.4	70-130	13.8	30	
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0558		"	0.0400		139	50-150			

**Batch BIF0036 - EPA 5030 Soil MS**

**Blank (BIF0036-BLK1)**

Prepared & Analyzed: 06/04/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0439		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.6	50-150			

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BIF0036 - EPA 5030 Soil MS

##### LCS (BIF0036-BS1)

Prepared & Analyzed: 06/04/25

Benzene	0.116	0.0020	mg/kg	0.100		116	70-130			
Toluene	0.115	0.0050	"	0.100		115	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.203	0.010	"	0.200		101	70-130			
o-Xylene	0.0997	0.0050	"	0.100		99.7	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.108	0.0038	"	0.100		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0435		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

##### Matrix Spike (BIF0036-MS1)

Source: 2505143-01

Prepared & Analyzed: 06/04/25

Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
m,p-Xylene	0.185	0.010	"	0.200	ND	92.7	70-130			
o-Xylene	0.0919	0.0050	"	0.100	ND	91.9	70-130			
1,2,4-Trimethylbenzene	0.0881	0.0050	"	0.100	ND	88.1	70-130			
1,3,5-Trimethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
Naphthalene	0.0939	0.0038	"	0.100	ND	93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.6	50-150			

##### Matrix Spike Dup (BIF0036-MSD1)

Source: 2505143-01

Prepared & Analyzed: 06/04/25

Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130	2.86	30	
Toluene	0.104	0.0050	"	0.100	ND	104	70-130	2.18	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	1.03	30	
m,p-Xylene	0.185	0.010	"	0.200	ND	92.5	70-130	0.243	30	
o-Xylene	0.0906	0.0050	"	0.100	ND	90.6	70-130	1.41	30	
1,2,4-Trimethylbenzene	0.0875	0.0050	"	0.100	ND	87.5	70-130	0.717	30	
1,3,5-Trimethylbenzene	0.0878	0.0050	"	0.100	ND	87.8	70-130	0.884	30	
Naphthalene	0.0856	0.0038	"	0.100	ND	85.6	70-130	9.26	30	
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.4	50-150			

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BIF0023 - EPA 3550A**

**Blank (BIF0023-BLK1)**

Prepared: 06/03/25 Analyzed: 06/04/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		91.6	50-140				

**LCS (BIF0023-BS1)**

Prepared: 06/03/25 Analyzed: 06/04/25

C10-C28 (DRO)	579	50	mg/kg	500		116	50-140				
Surrogate: <i>o</i> -Terphenyl	14.1		"	12.5		113	50-140				

**Matrix Spike (BIF0023-MS1)**

Source: 2506005-04

Prepared: 06/03/25 Analyzed: 06/04/25

C10-C28 (DRO)	1500	50	mg/kg	500	907	119	50-140				
Surrogate: <i>o</i> -Terphenyl	9.72		"	12.5		77.8	50-140				

**Matrix Spike Dup (BIF0023-MSD1)**

Source: 2506005-04

Prepared: 06/03/25 Analyzed: 06/04/25

C10-C28 (DRO)	1400	50	mg/kg	500	907	99.1	50-140	6.79	20		
Surrogate: <i>o</i> -Terphenyl	10.1		"	12.5		81.2	50-140				

**Batch BIF0041 - EPA 3550A**

**Blank (BIF0041-BLK1)**

Prepared: 06/04/25 Analyzed: 06/13/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.6		"	12.5		92.8	50-140				

**LCS (BIF0041-BS1)**

Prepared: 06/04/25 Analyzed: 06/13/25

C10-C28 (DRO)	476	50	mg/kg	500		95.3	50-140				
Surrogate: <i>o</i> -Terphenyl	12.5		"	12.5		99.7	50-140				

Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
 Project Manager: Bryce Goldade

**Reported:**  
 06/17/25 08:29

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BIF0041 - EPA 3550A**

<b>Matrix Spike (BIF0041-MS1)</b>		<b>Source: 2505143-01</b>			Prepared: 06/04/25		Analyzed: 06/13/25	
C10-C28 (DRO)	471	50	mg/kg	500	15.6	91.1	50-140	
Surrogate: <i>o</i> -Terphenyl	9.20		"	12.5		73.6	50-140	
<b>Matrix Spike Dup (BIF0041-MSD1)</b>		<b>Source: 2505143-01</b>			Prepared: 06/04/25		Analyzed: 06/13/25	
C10-C28 (DRO)	489	50	mg/kg	500	15.6	94.8	3.80	20
Surrogate: <i>o</i> -Terphenyl	9.16		"	12.5		73.3	50-140	

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery  
Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PAH by EPA Method 8270E SIM - Quality Control**

**Summit Scientific**

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

**Batch BIF0030 - EPA 5030 Soil MS**

**Blank (BIF0030-BLK1)**

Prepared: 06/04/25 Analyzed: 06/05/25

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333	70.6	40-140					
Surrogate: Fluoranthene-d10	0.0281		"	0.0333	84.2	40-140					

**LCS (BIF0030-BS1)**

Prepared: 06/04/25 Analyzed: 06/05/25

Acenaphthene	0.0260	0.00500	mg/kg	0.0333	78.0	40-140					
Anthracene	0.0269	0.00500	"	0.0333	80.6	40-140					
Benzo (a) anthracene	0.0285	0.00500	"	0.0333	85.6	40-140					
Benzo (a) pyrene	0.0253	0.00500	"	0.0333	75.8	40-140					
Benzo (b) fluoranthene	0.0257	0.00500	"	0.0333	77.0	40-140					
Benzo (k) fluoranthene	0.0237	0.00500	"	0.0333	71.0	40-140					
Chrysene	0.0267	0.00500	"	0.0333	80.0	40-140					
Dibenz (a,h) anthracene	0.0283	0.00500	"	0.0333	85.0	40-140					
Fluoranthene	0.0258	0.00500	"	0.0333	77.4	40-140					
Fluorene	0.0273	0.00500	"	0.0333	81.9	40-140					
Indeno (1,2,3-cd) pyrene	0.0236	0.00500	"	0.0333	70.8	40-140					
Pyrene	0.0252	0.00500	"	0.0333	75.6	40-140					
1-Methylnaphthalene	0.0251	0.00500	"	0.0333	75.4	40-140					
2-Methylnaphthalene	0.0249	0.00500	"	0.0333	74.6	40-140					
Surrogate: 2-Methylnaphthalene-d10	0.0242		"	0.0333	72.5	40-140					
Surrogate: Fluoranthene-d10	0.0265		"	0.0333	79.4	40-140					

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**PAH by EPA Method 8270E SIM - Quality Control**

**Summit Scientific**

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

**Batch BIF0030 - EPA 5030 Soil MS**

<b>Matrix Spike (BIF0030-MS1)</b>		<b>Source: 2505138-01</b>			Prepared: 06/04/25		Analyzed: 06/05/25	
Acenaphthene	0.0184	0.00500	mg/kg	0.0333	ND	55.3	40-140	
Anthracene	0.0187	0.00500	"	0.0333	ND	56.1	40-140	
Benzo (a) anthracene	0.0196	0.00500	"	0.0333	ND	58.9	40-140	
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.8	40-140	
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.9	40-140	
Benzo (k) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.5	40-140	
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	40-140	
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.7	40-140	
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.5	40-140	
Fluorene	0.0192	0.00500	"	0.0333	ND	57.7	40-140	
Indeno (1,2,3-cd) pyrene	0.0170	0.00500	"	0.0333	ND	50.9	40-140	
Pyrene	0.0192	0.00500	"	0.0333	ND	57.7	40-140	
1-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.5	40-140	
2-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.1	40-140	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0192</i>		<i>"</i>	<i>0.0333</i>		<i>57.6</i>	<i>40-140</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0183</i>		<i>"</i>	<i>0.0333</i>		<i>54.8</i>	<i>40-140</i>	

<b>Matrix Spike Dup (BIF0030-MSD1)</b>		<b>Source: 2505138-01</b>			Prepared: 06/04/25		Analyzed: 06/05/25	
Acenaphthene	0.0163	0.00500	mg/kg	0.0333	ND	48.8	40-140	12.5 30
Anthracene	0.0164	0.00500	"	0.0333	ND	49.3	40-140	12.8 30
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.3	40-140	13.8 30
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	40-140	11.6 30
Benzo (b) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	40-140	14.6 30
Benzo (k) fluoranthene	0.0133	0.00500	"	0.0333	ND	39.9	40-140	13.3 30
Chrysene	0.0163	0.00500	"	0.0333	ND	49.0	40-140	13.0 30
Dibenz (a,h) anthracene	0.0164	0.00500	"	0.0333	ND	49.3	40-140	10.4 30
Fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	40-140	11.0 30
Fluorene	0.0172	0.00500	"	0.0333	ND	51.5	40-140	11.3 30
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.5	40-140	17.9 30
Pyrene	0.0153	0.00500	"	0.0333	ND	45.9	40-140	22.9 30
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.1	40-140	7.72 30
2-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.4	40-140	8.27 30
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0171</i>		<i>"</i>	<i>0.0333</i>		<i>51.3</i>	<i>40-140</i>	
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0163</i>		<i>"</i>	<i>0.0333</i>		<i>48.8</i>	<i>40-140</i>	

QM-05

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

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

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

**Batch BIF0024 - EPA 3050B**

**Blank (BIF0024-BLK1)**

Prepared: 06/03/25 Analyzed: 06/05/25

Boron ND 2.00 mg/L wet

**LCS (BIF0024-BS1)**

Prepared: 06/03/25 Analyzed: 06/05/25

Boron 5.12 2.00 mg/L wet 4.99 103 80-120

**Duplicate (BIF0024-DUP1)**

**Source: 2506005-01**

Prepared: 06/03/25 Analyzed: 06/05/25

Boron 0.152 2.00 mg/L dry 0.143 5.95 20

**Matrix Spike (BIF0024-MS1)**

**Source: 2506005-01**

Prepared: 06/03/25 Analyzed: 06/05/25

Boron 5.14 2.00 mg/L dry 5.28 0.143 94.6 75-125

**Matrix Spike Dup (BIF0024-MSD1)**

**Source: 2506005-01**

Prepared: 06/03/25 Analyzed: 06/05/25

Boron 5.50 2.00 mg/L dry 5.26 0.143 102 75-125 6.85 25

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BIF0027 - EPA 3050B**

**Blank (BIF0027-BLK1)**

Prepared: 06/03/25 Analyzed: 06/05/25

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

**LCS (BIF0027-BS1)**

Prepared: 06/03/25 Analyzed: 06/05/25

Arsenic	39.7	0.200	mg/kg wet	40.3	98.5	80-120
Barium	39.5	0.400	"	40.3	97.9	80-120
Cadmium	1.93	0.200	"	2.02	95.6	80-120
Copper	38.9	0.400	"	40.3	96.5	80-120
Lead	21.4	0.200	"	20.2	106	80-120
Nickel	39.4	0.400	"	40.3	97.6	80-120
Silver	2.14	0.0200	"	2.02	106	80-120
Zinc	40.4	0.400	"	40.3	100	80-120
Selenium	3.87	0.260	"	4.03	95.9	80-120

**Duplicate (BIF0027-DUP1)**

Source: 2506005-01

Prepared: 06/03/25 Analyzed: 06/05/25

Arsenic	1.54	0.200	mg/kg dry	2.58	50.7	20	QR-04
Barium	33.6	0.400	"	39.3	15.7	20	
Cadmium	0.0784	0.200	"	0.0893	13.0	20	
Copper	6.41	0.400	"	7.63	17.3	20	
Lead	3.71	0.200	"	4.39	16.7	20	
Nickel	2.93	0.400	"	3.19	8.67	20	
Silver	0.0127	0.0200	"	0.0107	17.3	20	
Zinc	16.5	0.400	"	14.6	12.1	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BIF0027 - EPA 3050B**

<b>Matrix Spike (BIF0027-MS1)</b>	<b>Source: 2506005-01</b>			Prepared: 06/03/25		Analyzed: 06/05/25					
Arsenic	41.4	0.200	mg/kg dry	41.0	2.58	94.6	75-125				
Barium	68.1	0.400	"	41.0	39.3	70.2	75-125				QM-05
Cadmium	2.04	0.200	"	2.05	0.0893	95.2	75-125				
Copper	43.1	0.400	"	41.0	7.63	86.3	75-125				
Lead	23.6	0.200	"	20.5	4.39	93.9	75-125				
Nickel	38.1	0.400	"	41.0	3.19	85.1	75-125				
Silver	2.06	0.0200	"	2.05	0.0107	100	75-125				
Zinc	48.4	0.400	"	41.0	14.6	82.3	75-125				
Selenium	3.79	0.260	"	4.10	ND	92.3	75-125				

<b>Matrix Spike Dup (BIF0027-MSD1)</b>	<b>Source: 2506005-01</b>			Prepared: 06/03/25		Analyzed: 06/05/25					
Arsenic	43.9	0.200	mg/kg dry	43.8	2.58	94.3	75-125	5.72	25		
Barium	80.0	0.400	"	43.8	39.3	93.0	75-125	16.0	25		
Cadmium	2.21	0.200	"	2.19	0.0893	96.9	75-125	7.91	25		
Copper	45.4	0.400	"	43.8	7.63	86.2	75-125	5.23	25		
Lead	26.0	0.200	"	21.9	4.39	98.8	75-125	9.52	25		
Nickel	40.4	0.400	"	43.8	3.19	85.0	75-125	5.89	25		
Silver	2.19	0.0200	"	2.19	0.0107	99.8	75-125	6.19	25		
Zinc	51.8	0.400	"	43.8	14.6	85.0	75-125	6.91	25		
Selenium	3.96	0.260	"	4.38	ND	90.5	75-125	4.46	25		

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

**Hexavalent Chromium by HACH M8023 - Quality Control**  
**Summit Scientific**

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

**Batch BIF0032 - 3060A Mod**

**Blank (BIF0032-BLK1)**

Prepared & Analyzed: 06/04/25

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BIF0032-BS1)**

Prepared & Analyzed: 06/04/25

Chromium, Hexavalent      23.6      0.30 mg/kg wet      25.0      94.2      80-120

**Duplicate (BIF0032-DUP1)**

**Source: 2506005-01**

Prepared & Analyzed: 06/04/25

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BIF0032-MS1)**

**Source: 2506005-01**

Prepared & Analyzed: 06/04/25

Chromium, Hexavalent      26.0      0.30 mg/kg dry      27.4      ND      95.2      75-125

**Matrix Spike Dup (BIF0032-MSD1)**

**Source: 2506005-01**

Prepared & Analyzed: 06/04/25

Chromium, Hexavalent      24.8      0.30 mg/kg dry      26.5      ND      93.4      75-125      4.98      20

Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

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

**Summit Scientific**

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

**Batch BIF0025 - General Preparation**

**Blank (BIF0025-BLK1)**

Prepared: 06/03/25 Analyzed: 06/05/25

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

**LCS (BIF0025-BS1)**

Prepared: 06/03/25 Analyzed: 06/05/25

Calcium	5.74	0.0500	mg/L wet	5.00		115	70-130			
Magnesium	4.97	0.0500	"	5.00		99.4	70-130			
Sodium	4.83	0.0500	"	5.00		96.6	70-130			

Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
 Project Manager: Bryce Goldade

**Reported:**  
 06/17/25 08:29

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

**Summit Scientific**

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

**Batch BIF0034 - General Preparation**

**Duplicate (BIF0034-DUP1)**

**Source: 2506005-01**

Prepared: 06/04/25 Analyzed: 06/05/25

% Solids	95.7		%		95.2			0.547		20	
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Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
 Project Manager: Bryce Goldade

**Reported:**  
 06/17/25 08:29

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

**Summit Scientific**

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

**Batch BIF0026 - General Preparation**

**Blank (BIF0026-BLK1)**

Prepared: 06/03/25 Analyzed: 06/04/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIF0026-BS1)**

Prepared: 06/03/25 Analyzed: 06/04/25

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BIF0026-DUP1)**

Source: 2506005-01

Prepared: 06/03/25 Analyzed: 06/04/25

Specific Conductance (EC) 0.119 0.0100 mmhos/cm 0.122 1.83 20

Summit Scientific

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Tasman Geosciences  
 4725 Independence St.  
 Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
 Project Manager: Bryce Goldade

**Reported:**  
 06/17/25 08:29

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

**Summit Scientific**

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

**Batch BIF0028 - General Preparation**

**LCS (BIF0028-BS1)**

Prepared: 06/03/25 Analyzed: 06/04/25

pH	9.10	pH Units	9.18	99.1	95-105
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**Duplicate (BIF0028-DUP1)**

Source: 2506005-01

Prepared: 06/03/25 Analyzed: 06/04/25

pH	9.14	pH Units	8.88	2.88	20
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Summit Scientific

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Tasman Geosciences  
4725 Independence St.  
Wheat Ridge CO, 80033

Project: PDC - Edens 11,12,18-52 Tank Battery

Project Number: 10526  
Project Manager: Bryce Goldade

**Reported:**  
06/17/25 08:29

### Notes and Definitions

- Z-01 Analyte was above calibration range on the instrument (150 ppb) and cannot be accurately quantified.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference