



TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

Raptor Materials, LLC
8120 Gage St.
Frederick, CO 80516

Sampled: 11/26/24
Received: 11/26/24

Sample ID: P125-MW12-Q4

Project No.: P124-DRMS WQ-
MW12

Laboratory ID: C8466-01

Matrix: Water

<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
7429-90-5	Dissolved Aluminum	0.170	mg/L	0.1	EPA-200.7	12/02/24
7440-39-3	Dissolved Barium	< 0.08	mg/L	0.08	EPA-200.7	12/02/24
7440-42-8	Dissolved Boron	0.195	mg/L	0.1	EPA-200.7	12/02/24
7439-89-6	Dissolved Iron	0.153	mg/L	0.02	EPA-200.7	12/02/24
7439-93-2	Dissolved Lithium	< 0.05	mg/L	0.05	EPA-200.7	12/04/24
7440-36-0	Dissolved Antimony	< 0.006	mg/L	0.006	EPA-200.8	11/26/24
7440-38-2	Dissolved Arsenic	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7440-41-7	Dissolved Beryllium	< 0.003	mg/L	0.003	EPA-200.8	11/26/24
7440-43-9	Dissolved Cadmium	< 0.001	mg/L	0.001	EPA-200.8	11/26/24
7440-47-3	Dissolved Chromium	< 0.004	mg/L	0.004	EPA-200.8	11/26/24
7440-48-4	Dissolved Cobalt	< 0.006	mg/L	0.006	EPA-200.8	11/26/24
7440-50-8	Dissolved Copper	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7439-92-1	Dissolved Lead	< 0.003	mg/L	0.003	EPA-200.8	11/26/24
7439-96-5	Dissolved Manganese	0.306	mg/L	0.004	EPA-200.8	11/26/24
7439-98-7	Dissolved Molybdenum	< 0.008	mg/L	0.008	EPA-200.8	11/26/24
7440-02-0	Dissolved Nickel	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7782-49-2	Dissolved Selenium	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7440-22-4	Dissolved Silver	< 0.002	mg/L	0.002	EPA-200.8	11/26/24
7440-28-0	Dissolved Thallium	< 0.001	mg/L	0.001	EPA-200.8	11/26/24
7440-61-1	Dissolved Uranium	0.006	mg/L	0.003	EPA-200.8	11/26/24
7440-62-2	Dissolved Vanadium	< 0.09	mg/L	0.09	EPA-200.8	11/26/24
7440-66-6	Dissolved Zinc	< 0.002	mg/L	0.002	EPA-200.8	11/26/24
7439-97-6	Dissolved Mercury	< 5.0	ng/L	5	EPA-245.7	12/06/24

The results contained in this report
relate only to those items tested.



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MW12

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<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
84145-82-4	Nitrate-N	1.25	mg/L	0.1	EPA-300.0	11/26/24
14797-65-0	Nitrite-N	0.057	mg/L	0.05	EPA-300.0	11/26/24
18785-72-3	Sulfate	187	mg/L	0.3	EPA-300.0	11/26/24
N/A	Total Dissolved Solids (TDS)	554	mg/L	5	SM-2540 C	11/26/24

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Raptor Materials, LLC
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Sampled: 11/26/24
Received: 11/26/24

Sample ID: P125-MW12-Q4-Dup

Project No.: P124-DRMS WQ-
MW12

Laboratory ID: C8466-02

Matrix: Water

<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
7429-90-5	Dissolved Aluminum	0.121	mg/L	0.1	EPA-200.7	12/02/24
7440-39-3	Dissolved Barium	< 0.08	mg/L	0.08	EPA-200.7	12/02/24
7440-42-8	Dissolved Boron	0.195	mg/L	0.1	EPA-200.7	12/02/24
7439-89-6	Dissolved Iron	0.127	mg/L	0.02	EPA-200.7	12/02/24
7439-93-2	Dissolved Lithium	< 0.05	mg/L	0.05	EPA-200.7	12/04/24
7440-36-0	Dissolved Antimony	< 0.006	mg/L	0.006	EPA-200.8	11/26/24
7440-38-2	Dissolved Arsenic	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7440-41-7	Dissolved Beryllium	< 0.003	mg/L	0.003	EPA-200.8	11/26/24
7440-43-9	Dissolved Cadmium	< 0.001	mg/L	0.001	EPA-200.8	11/26/24
7440-47-3	Dissolved Chromium	< 0.004	mg/L	0.004	EPA-200.8	11/26/24
7440-48-4	Dissolved Cobalt	< 0.006	mg/L	0.006	EPA-200.8	11/26/24
7440-50-8	Dissolved Copper	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7439-92-1	Dissolved Lead	< 0.003	mg/L	0.003	EPA-200.8	11/26/24
7439-96-5	Dissolved Manganese	0.273	mg/L	0.004	EPA-200.8	11/26/24
7439-98-7	Dissolved Molybdenum	< 0.008	mg/L	0.008	EPA-200.8	11/26/24
7440-02-0	Dissolved Nickel	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7782-49-2	Dissolved Selenium	< 0.005	mg/L	0.005	EPA-200.8	11/26/24
7440-22-4	Dissolved Silver	< 0.002	mg/L	0.002	EPA-200.8	11/26/24
7440-28-0	Dissolved Thallium	< 0.001	mg/L	0.001	EPA-200.8	11/26/24
7440-61-1	Dissolved Uranium	0.006	mg/L	0.003	EPA-200.8	11/26/24
7440-62-2	Dissolved Vanadium	< 0.09	mg/L	0.09	EPA-200.8	11/26/24
7440-66-6	Dissolved Zinc	< 0.002	mg/L	0.002	EPA-200.8	11/26/24
7439-97-6	Dissolved Mercury	< 5.0	ng/L	5	EPA-245.7	12/06/24

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CERTIFICATE OF ANALYSIS

Raptor Materials, LLC
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Frederick, CO 80516

Sample ID: P125-MW12-Q4-Dup

Laboratory ID: C8466-02

Sampled: 11/26/24

Received: 11/26/24

Project No.: P124-DRMS WQ-
MW12

Matrix: Water

<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
84145-82-4	Nitrate-N	1.30	mg/L	0.1	EPA-300.0	11/26/24
14797-65-0	Nitrite-N	< 0.05	mg/L	0.05	EPA-300.0	11/26/24
18785-72-3	Sulfate	188	mg/L	0.3	EPA-300.0	11/26/24
N/A	Total Dissolved Solids (TDS)	580	mg/L	5	SM-2540 C	11/26/24

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Fort Collins, Colorado 80526
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QA/QC Certificate of Analysis

Project No.: P124-DRMSWQ MW12
Date Sampled: 11/26/2024
Lab ID: C8466

Date			Calibration	IPC	IPC	LFM	LFM	LFB	LFB		QCS	QCS
Analyzed	Parameter by EPA 200.7	Batch ID	Blank	% Recovery	% Limits	% Recovery	% Limits	% Recovery	% Limits	LRB	%Recovery	% Limits
12/2/2024	Aluminum, Dissolved	12/2/2024	ND	101	95-105	116	70-130	108	85-115	< MDL	103	95-105
12/2/2024	Barium, Dissolved	12/2/2024	ND	101	95-105	98	70-130	96	85-115	< MDL	102	95-105
12/2/2024	Boron, Dissolved	12/2/2024	ND	101	95-105	89	70-130	89	85-115	< MDL	101	95-105
12/2/2024	Iron, Dissolved	12/2/2024	ND	101	95-105	98	70-130	97	85-115	< MDL	101	95-105
12/4/2024	Lithium, Dissolved	12/4/2024	ND	102	95-105	130	70-130	104	85-115	< MDL	104	95-105

Date			Calibration	ICC	ICC	LFM	LFM	LFB	LFB		QCS	QCS
Analyzed	Parameter by EPA 200.8	Batch ID	Blank	% Recovery	% Limits	% Recovery	% Limits	% Recovery	% Limits	LRB	%Recovery	% Limits
11/26/2024	Antimony, Dissolved	11/26/2024	< MDL	101	90-110	102	70-130	99	85-115	< MDL	108	90-110
11/26/2024	Arsenic, Dissolved	11/26/2024	< MDL	100	90-110	99	70-130	98	85-115	< MDL	94	90-110
11/26/2024	Beryllium, Dissolved	11/26/2024	< MDL	102	90-110	95	70-130	96	85-115	< MDL	104	90-110
11/26/2024	Cadmium, Dissolved	11/26/2024	< MDL	104	90-110	93	70-130	96	85-115	< MDL	96	90-110
11/26/2024	Chromium, Dissolved	11/26/2024	< MDL	106	90-110	101	70-130	105	85-115	< MDL	104	90-110
11/26/2024	Cobalt, Dissolved	11/26/2024	< MDL	103	90-110	95	70-130	100	85-115	< MDL	102	90-110
11/26/2024	Copper, Dissolved	11/26/2024	< MDL	103	90-110	92	70-130	97	85-115	< MDL	97	90-110
11/26/2024	Lead, Dissolved	11/26/2024	< MDL	105	90-110	105	70-130	104	85-115	< MDL	110	90-110
11/26/2024	Manganese, Dissolved	11/26/2024	< MDL	102	90-110	83	70-130	96	85-115	< MDL	97	90-110
11/26/2024	Molybdenum, Dissolved	11/26/2024	< MDL	99	90-110	108	70-130	100	85-115	< MDL	98	90-110
11/26/2024	Nickel, Dissolved	11/26/2024	< MDL	106	90-110	96	70-130	104	85-115	< MDL	104	90-110
11/26/2024	Selenium, Dissolved	11/26/2024	< MDL	103	90-110	103	70-130	103	85-115	< MDL	93	90-110
11/26/2024	Silver, Dissolved	11/26/2024	< MDL	104	90-110	95	70-130	107	85-115	< MDL	107	90-110
11/26/2024	Thallium, Dissolved	11/26/2024	< MDL	102	90-110	96	70-130	97	85-115	< MDL	109	90-110
11/26/2024	Uranium, Dissolved	11/26/2024	< MDL	102	90-110	110	70-130	106	85-115	< MDL	108	90-110
11/26/2024	Vanadium, Dissolved	11/26/2024	< MDL	107	90-110	121	70-130	111	85-115	< MDL	99	90-110
11/26/2024	Zinc, Dissolved	11/26/2024	< MDL	110	90-110	116	70-130	96	85-115	< MDL	101	90-110

Date			Blank	LFB	LFB	MS	MS
Analyzed	Parameter by EPA 300.0	Batch ID	Amount	% Recovery	% Limits	% Recovery	% Limits
11/26/2024	Nitrate	11/26/2024	< MDL	94	90-110	105	80-120
11/26/2024	Nitrite	11/26/2024	< MDL	91	90-110	112	80-120
11/26/2024	Sulfate	11/26/2024	< MDL	98	90-110	93	80-120

Date		IPR	IPR	QCS	QCS	MS	MS	MSD	MSD
Analyzed	Parameter by EPA 245.7	Batch ID	% Recovery	% Limits	%Recovery	% Limits	MB	% Recovery	% Limits
12/6/2024	Mercury	12/6/2024	98	78-108	96	76-113	ND	93	63-111

*ICC = Initial Calibration Check
*IPC = Instrument Performance Check
*LCS = Laboratory Control Sample
*LFB = Laboratory Fortified Blank
*LFM = Laboratory Fortified Matrix
*LRB = Laboratory Reagent Blank
*MB = Matrix Blank
*MDL = Method Detection Limit

*MS = Matrix Spike
*MSD = Matrix Spike Duplicate
*N/A = Not Applicable
*ND = Not detected at MDL
*OPR = Ongoing Precision & Recovery
*QC = Quality Control Sample
*QCS = Second Source QC Sample

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W.O. NUMBER C'8466

CHAIN-OF-CUSTODY REPORT

W.O. NUMBER C8466

[illegible]

**TECHNOLOGY
LABORATORY, INC.**

1012 Centre Avenue, Suite 101
Fort Collins, Colorado 80526
www.techlabusa.com
info@techlabusa.com

ANALYTICAL CERTIFICATION

“I certify that these analyses and resulting report (s) were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly analyze all samples and accurately report the results. I certify that all analyses were performed in accordance with methods approved for WASTEWATER under the latest revision to 40 CFR Part 136. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.”

Laboratory: TECHNOLOGY LABORATORY, INC.

Address: 1012 Centre Avenue
Fort Collins, CO 80526

Project Number: P124-DRMS WQ-MW12

Laboratory ID: C8466

Analyst Initials: DL, TP

Date: 12/09/2024

Laboratory Manager: Valerie P. Meiers



Valerie P. Meiers
Laboratory Director, Acting
Technology Laboratory, Inc.