



ANALYTICAL REPORT

PREPARED FOR

Attn: Jay Tommasin
Transco Railway Products
PO BOX 112
Oelwein, Iowa 50662

Generated 7/6/2026 8:24:28 AM

JOB DESCRIPTION

Beneficial Use - Coal/Steel Blast Grit

JOB NUMBER

310-334148-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
7/6/2026 8:24:28 AM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

Case Narrative

Client: Transco Railway Products
Project: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Job ID: 310-334148-1

Eurofins Cedar Falls

Job Narrative 310-334148-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 6/11/2026 2:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C.

Metals

Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: Steel Blast Grit (310-334148-2). Elevated reporting limits (RLs) are provided.

Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: Coal Blast Grit (310-334148-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Case Narrative

Client: Transco Railway Products
Project: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Job ID: 310-334148-2

Eurofins Cedar Falls

Job Narrative 310-334148-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 6/11/2026 2:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-334148-1	Coal Blast Grit	Solid	06/11/26 09:30	06/11/26 14:25	Iowa
310-334148-2	Steel Blast Grit	Solid	06/11/26 09:40	06/11/26 14:25	Iowa

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Client Sample Results

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Client Sample ID: Coal Blast Grit

Date Collected: 06/11/26 09:30

Date Received: 06/11/26 14:25

Lab Sample ID: 310-334148-1

Matrix: Solid

Percent Solids: 99.4

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	10.5		4.19	0.767	mg/Kg	☆	06/22/26 17:30	5	RN
Arsenic	174		2.10	0.616	mg/Kg	☆	06/22/26 17:30	5	RN
Barium	2610		4.19	0.730	mg/Kg	☆	06/24/26 19:58	10	RN
Beryllium	2.04		0.839	0.324	mg/Kg	☆	06/22/26 17:30	5	RN
Boron	145		10.5	9.01	mg/Kg	☆	06/22/26 17:30	5	RN
Cadmium	5.30		0.419	0.0683	mg/Kg	☆	06/22/26 17:30	5	RN
Chromium	130		4.19	4.05	mg/Kg	☆	06/22/26 17:30	5	RN
Cobalt	56.2		1.05	0.141	mg/Kg	☆	06/22/26 17:30	5	RN
Copper	1760		2.10	1.43	mg/Kg	☆	06/22/26 17:30	5	RN
Lead	444		1.05	0.163	mg/Kg	☆	06/22/26 17:30	5	RN
Lithium	22.0		8.39	2.04	mg/Kg	☆	06/22/26 17:30	5	RN
Manganese	428		2.10	0.486	mg/Kg	☆	06/22/26 17:30	5	RN
Molybdenum	395		2.10	0.267	mg/Kg	☆	06/22/26 17:30	5	RN
Nickel	81.7		4.19	2.33	mg/Kg	☆	06/22/26 17:30	5	RN
Selenium	1.75	J	2.10	0.344	mg/Kg	☆	06/22/26 17:30	5	RN
Silver	0.571		0.419	0.0256	mg/Kg	☆	06/22/26 17:30	5	RN
Thallium	0.388	J	2.10	0.165	mg/Kg	☆	06/22/26 17:30	5	RN
Vanadium	102		1.05	0.860	mg/Kg	☆	06/22/26 17:30	5	RN
Zinc	1980		4.19	2.44	mg/Kg	☆	06/22/26 17:30	5	RN

Method: 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<2.00		50.0	2.00	ug/L		06/22/26 15:46	1	RN
Barium	1240		500	50.0	ug/L		06/22/26 15:46	1	RN
Cadmium	1.39	J	5.00	1.00	ug/L		06/22/26 15:46	1	RN
Chromium	12.4	J	25.0	5.00	ug/L		06/22/26 15:46	1	RN
Lead	7.92	J	50.0	2.00	ug/L		06/22/26 15:46	1	RN
Selenium	<10.0		50.0	10.0	ug/L		06/22/26 15:46	1	RN
Silver	<5.00		25.0	5.00	ug/L		06/22/26 15:46	1	RN

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.200		0.200	0.200	ug/L		06/22/26 13:54	1	MJG

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<6.65		16.1	6.65	ug/Kg	☆	06/22/26 12:36	1	MJG

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Percent Moisture (Moisture)	0.6		0.1	0.1	%		06/12/26 04:32	1	DGU1
Percent Solids (Moisture)	99.4		0.1	0.1	%		06/12/26 04:32	1	DGU1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	<0.493		1.01	0.493	mg/Kg	☆	06/16/26 12:35	1	WZC8
Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (9045D)	9.3	HF	1.0	1.0	SU		06/15/26 23:17	1	ZJX4

Eurofins Cedar Falls

Client Sample Results

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Client Sample ID: Coal Blast Grit

Date Collected: 06/11/26 09:30

Date Received: 06/11/26 14:25

Lab Sample ID: 310-334148-1

Matrix: Solid

Percent Solids: 99.4

General Chemistry - SPLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	<0.0790		0.200	0.0790	mg/L		06/16/26 12:05	1	WZC8

Client Sample ID: Steel Blast Grit

Date Collected: 06/11/26 09:40

Date Received: 06/11/26 14:25

Lab Sample ID: 310-334148-2

Matrix: Solid

Percent Solids: 99.0

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	3.18	J	4.28	0.783	mg/Kg	✱	06/22/26 17:33	5	RN
Arsenic	24.1		2.14	0.629	mg/Kg	✱	06/22/26 17:33	5	RN
Barium	8040		21.4	3.73	mg/Kg	✱	06/22/26 17:35	50	RN
Beryllium	<0.331		0.856	0.331	mg/Kg	✱	06/22/26 17:33	5	RN
Boron	50.4		10.7	9.20	mg/Kg	✱	06/22/26 17:33	5	RN
Cadmium	0.955		0.428	0.0697	mg/Kg	✱	06/22/26 17:33	5	RN
Chromium	815		4.28	4.13	mg/Kg	✱	06/22/26 17:33	5	RN
Cobalt	34.0		1.07	0.144	mg/Kg	✱	06/22/26 17:33	5	RN
Copper	842		2.14	1.46	mg/Kg	✱	06/22/26 17:33	5	RN
Lead	88.7		1.07	0.166	mg/Kg	✱	06/22/26 17:33	5	RN
Lithium	8.46	J	8.56	2.08	mg/Kg	✱	06/22/26 17:33	5	RN
Manganese	4200		21.4	4.96	mg/Kg	✱	06/22/26 17:35	50	RN
Molybdenum	253		2.14	0.272	mg/Kg	✱	06/22/26 17:33	5	RN
Nickel	338		4.28	2.37	mg/Kg	✱	06/22/26 17:33	5	RN
Selenium	<0.351		2.14	0.351	mg/Kg	✱	06/22/26 17:33	5	RN
Silver	0.411	J	0.428	0.0261	mg/Kg	✱	06/22/26 17:33	5	RN
Thallium	<0.169		2.14	0.169	mg/Kg	✱	06/22/26 17:33	5	RN
Vanadium	71.8		1.07	0.877	mg/Kg	✱	06/22/26 17:33	5	RN
Zinc	1450		4.28	2.49	mg/Kg	✱	06/22/26 17:33	5	RN

Method: 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<2.00		50.0	2.00	ug/L		06/22/26 15:49	1	RN
Barium	719		500	50.0	ug/L		06/22/26 15:49	1	RN
Cadmium	<1.00		5.00	1.00	ug/L		06/22/26 15:49	1	RN
Chromium	<5.00		25.0	5.00	ug/L		06/22/26 15:49	1	RN
Lead	<2.00		50.0	2.00	ug/L		06/22/26 15:49	1	RN
Selenium	<10.0		50.0	10.0	ug/L		06/22/26 15:49	1	RN
Silver	<5.00		25.0	5.00	ug/L		06/22/26 15:49	1	RN

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.248		0.200	0.200	ug/L		06/22/26 14:00	1	MJG

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	28.0		15.3	6.31	ug/Kg	✱	06/22/26 12:48	1	MJG

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chromium, hexavalent (7196A)	<0.395		1.02	0.395	mg/Kg	✱	07/02/26 17:27	1	AM
Chromium, trivalent (7196A)	815		0.101	0.101	mg/Kg	✱	07/06/26 08:01	1	LP

Eurofins Cedar Falls

Client Sample Results

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Client Sample ID: Steel Blast Grit

Lab Sample ID: 310-334148-2

Date Collected: 06/11/26 09:40

Matrix: Solid

Date Received: 06/11/26 14:25

Percent Solids: 99.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Percent Moisture (Moisture)	1.0		0.1	0.1	%		06/12/26 04:32	1	DGU1
Percent Solids (Moisture)	99.0		0.1	0.1	%		06/12/26 04:32	1	DGU1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	0.853	J	1.00	0.492	mg/Kg	☆	06/16/26 12:45	1	WZC8
Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (9045D)	8.4	HF	1.0	1.0	SU		06/15/26 23:18	1	ZJX4
General Chemistry - SPLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	0.694		0.200	0.0790	mg/L		06/16/26 12:14	1	WZC8

Accreditation/Certification and Definitions Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-27
The following analytes are included in this report, but the laboratory is not certified by Iowa State 007. This list may include analytes for which the agency does not offer certification:			
Analysis Method	Prep Method	Matrix	Analyte
4500 F C-2011		Solid	Fluoride
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-28
The following analytes are included in this report, but the laboratory is not certified by Iowa State 082. This list may include analytes for which the agency does not offer certification:			
Analysis Method	Prep Method	Matrix	Analyte
6020B	3050B	Solid	Lithium
7196A		Solid	Chromium, trivalent

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Accreditation/Certification and Definitions Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal/Steel Blast Grit

Job ID: 310-334148-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
4500 F C-2011	Fluoride (Ion-selective Electrode)	SM	EET CF
7196A	Chromium, Hexavalent	SW846	EET CHI
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET CHI
9045D	pH	SW846	EET CF
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CHI
1312	SPLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

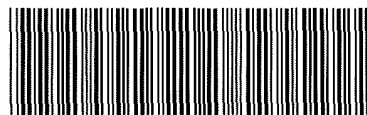
Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200



Environment Testing
America



310-334148 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Transco</u>			
City/State:	CITY <u>Delwein</u>	STATE <u>GA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>06/11/22</u>	TIME <u>1425</u>	Received By: <u>ES</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☒ Yes ☐ No	If yes: Cooler custody seals intact? ☒ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>AAA</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>4 oz jar</u>		CONTAINER 2
Uncorrected Temp (°C):	<u>6.0</u>		
Corrected Temp (°C):	<u>6.0</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

[illegible]

3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

eurofins | Environment Testing

[illegible]