



ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/23/2024 7:43:07 AM

JOB DESCRIPTION

Beneficial Use - Coal Slag and Steel Shot

JOB NUMBER

310-296581-1

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



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Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)277-2401

Case Narrative

Client: Transco Railway Products
Project: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

Job ID: 310-296581-1

Eurofins Cedar Falls

Job Narrative 310-296581-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/5/2024 3:00 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 1.9°C.

Metals

Method 6010D - TCLP: The following sample(s) was diluted due to the presence of an interferent. Steel Shot (310-296581-2). 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

Method 7196A: The method blank for preparation batch 500-800140 and analytical batch 500-800421 contained Chromium, hexavalent above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 9045D - Soluble: Sample Coal Slag (310-296581-1) was above the top standard for pH.

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

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Sample Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
310-296581-1	Coal Slag	Solid	12/04/24 10:00	12/05/24 15:00
310-296581-2	Steel Shot	Solid	12/04/24 11:00	12/05/24 15:00

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

Client Sample Results

Client: Transco Railway Products
 Project/Site: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

Client Sample ID: Coal Slag

Lab Sample ID: 310-296581-1

Date Collected: 12/04/24 10:00

Matrix: Solid

Date Received: 12/05/24 15:00

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.0300		0.100	0.0300	mg/L		12/13/24 16:15	1	ZRI4
Barium	0.724		0.200	0.0400	mg/L		12/13/24 16:15	1	ZRI4
Cadmium	<0.00390		0.0200	0.00390	mg/L		12/13/24 16:15	1	ZRI4
Chromium	<0.00600		0.0200	0.00600	mg/L		12/13/24 16:15	1	ZRI4
Lead	<0.0370		0.100	0.0370	mg/L		12/13/24 16:15	1	ZRI4
Selenium	<0.0290		0.100	0.0290	mg/L		12/13/24 16:15	1	ZRI4
Silver	<0.0160		0.0500	0.0160	mg/L		12/13/24 16:15	1	ZRI4

Method: 6020B - Metals (ICP/MS) - SPLP West

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	<0.0324		0.0400	0.0324	mg/L		12/12/24 17:02	4	NFT2
Arsenic	<0.0204		0.0400	0.0204	mg/L		12/12/24 17:02	4	NFT2
Barium	0.146	J	0.200	0.0640	mg/L		12/12/24 17:02	4	NFT2
Beryllium	<0.00680		0.0200	0.00680	mg/L		12/12/24 17:02	4	NFT2
Cadmium	<0.00280		0.0100	0.00280	mg/L		12/12/24 17:02	4	NFT2
Chromium	<0.0440		0.100	0.0440	mg/L		12/12/24 17:02	4	NFT2
Copper	<0.0360		0.100	0.0360	mg/L		12/12/24 17:02	4	NFT2
Lead	<0.00760		0.0200	0.00760	mg/L		12/12/24 17:02	4	NFT2
Selenium	<0.0332		0.100	0.0332	mg/L		12/12/24 17:02	4	NFT2
Thallium	<0.0116		0.0200	0.0116	mg/L		12/12/24 17:02	4	NFT2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00110		0.00200	0.00110	mg/L		12/16/24 13:26	1	QTZ5

Method: 7470A - Mercury (CVAA) - SPLP West

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00110		0.00200	0.00110	mg/L		12/16/24 12:41	1	QTZ5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Percent Moisture (Moisture)	0.4		0.1	0.1	%		12/06/24 06:05	1	W9YR
Percent Solids (Moisture)	99.6		0.1	0.1	%		12/06/24 06:05	1	W9YR

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (9045D)	11.4	HF	1.0	1.0	SU		12/06/24 21:30	1	T5AC

General Chemistry - SPLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	<0.200		0.200	0.200	mg/L		12/11/24 14:53	1	WZC8

Client Sample ID: Coal Slag

Lab Sample ID: 310-296581-1

Date Collected: 12/04/24 10:00

Matrix: Solid

Date Received: 12/05/24 15:00

Percent Solids: 99.6

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	<0.382		0.849	0.382	mg/Kg	✱	12/11/24 19:40	5	NFT2
Arsenic	4.38		0.849	0.357	mg/Kg	✱	12/11/24 19:40	5	NFT2
Barium	8990		17.0	8.49	mg/Kg	✱	12/12/24 12:33	100	NFT2

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Client Sample Results

Client: Transco Railway Products
 Project/Site: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

Client Sample ID: Coal Slag

Lab Sample ID: 310-296581-1

Date Collected: 12/04/24 10:00

Matrix: Solid

Date Received: 12/05/24 15:00

Percent Solids: 99.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Beryllium	4.20	J	8.49	3.40	mg/Kg	☼	12/12/24 12:33	100	NFT2
Boron	<425		849	425	mg/Kg	☼	12/12/24 12:33	100	NFT2
Cadmium	<0.161		0.425	0.161	mg/Kg	☼	12/11/24 19:40	5	NFT2
Chromium	64.3		1.27	0.552	mg/Kg	☼	12/11/24 19:40	5	NFT2
Cobalt	11.0		0.425	0.195	mg/Kg	☼	12/11/24 19:40	5	NFT2
Copper	38.4		1.27	0.518	mg/Kg	☼	12/11/24 19:40	5	NFT2
Lead	4.56		2.12	0.662	mg/Kg	☼	12/11/24 19:40	5	NFT2
Lithium	39.6		2.12	0.611	mg/Kg	☼	12/11/24 19:40	5	NFT2
Manganese	526		2.12	1.02	mg/Kg	☼	12/11/24 19:40	5	NFT2
Molybdenum	6.83		0.849	0.458	mg/Kg	☼	12/11/24 19:40	5	NFT2
Nickel	29.8		1.27	0.577	mg/Kg	☼	12/11/24 19:40	5	NFT2
Selenium	1.38		1.27	0.637	mg/Kg	☼	12/11/24 19:40	5	NFT2
Silver	<0.187		0.425	0.187	mg/Kg	☼	12/11/24 19:40	5	NFT2
Thallium	<0.212		0.425	0.212	mg/Kg	☼	12/11/24 19:40	5	NFT2
Vanadium	106		1.27	0.391	mg/Kg	☼	12/11/24 19:40	5	NFT2
Zinc	193		84.9	40.8	mg/Kg	☼	12/12/24 12:33	100	NFT2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.00884	J	0.0158	0.00648	mg/Kg	☼	12/17/24 09:33	1	QTZ5

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	0.548	J	0.996	0.538	mg/Kg	☼	12/11/24 14:08	1	WZC8

Client Sample ID: Steel Shot

Lab Sample ID: 310-296581-2

Date Collected: 12/04/24 11:00

Matrix: Solid

Date Received: 12/05/24 15:00

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.0600		0.200	0.0600	mg/L		12/19/24 14:57	2	ZRI4
Barium	0.535		0.400	0.0800	mg/L		12/19/24 14:57	2	ZRI4
Cadmium	<0.00780		0.0400	0.00780	mg/L		12/19/24 14:57	2	ZRI4
Chromium	<0.0120		0.0400	0.0120	mg/L		12/19/24 14:57	2	ZRI4
Lead	<0.0740		0.200	0.0740	mg/L		12/19/24 14:57	2	ZRI4
Selenium	<0.0580		0.200	0.0580	mg/L		12/19/24 14:57	2	ZRI4
Silver	<0.0320		0.100	0.0320	mg/L		12/19/24 14:57	2	ZRI4

Method: 6020B - Metals (ICP/MS) - SPLP West

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	<0.0324		0.0400	0.0324	mg/L		12/12/24 17:05	4	NFT2
Arsenic	<0.0204		0.0400	0.0204	mg/L		12/12/24 17:05	4	NFT2
Barium	0.216		0.200	0.0640	mg/L		12/12/24 17:05	4	NFT2
Beryllium	<0.00680		0.0200	0.00680	mg/L		12/12/24 17:05	4	NFT2
Cadmium	<0.00280		0.0100	0.00280	mg/L		12/12/24 17:05	4	NFT2
Chromium	<0.0440		0.100	0.0440	mg/L		12/12/24 17:05	4	NFT2
Copper	<0.0360		0.100	0.0360	mg/L		12/12/24 17:05	4	NFT2
Lead	<0.00760		0.0200	0.00760	mg/L		12/12/24 17:05	4	NFT2
Selenium	<0.0332		0.100	0.0332	mg/L		12/12/24 17:05	4	NFT2
Thallium	<0.0116		0.0200	0.0116	mg/L		12/12/24 17:05	4	NFT2

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Client Sample Results

Client: Transco Railway Products
 Project/Site: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

Client Sample ID: Steel Shot

Lab Sample ID: 310-296581-2

Date Collected: 12/04/24 11:00

Matrix: Solid

Date Received: 12/05/24 15:00

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00110		0.00200	0.00110	mg/L		12/16/24 13:28	1	QTZ5

Method: 7470A - Mercury (CVAA) - SPLP West

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00110		0.00200	0.00110	mg/L		12/16/24 12:43	1	QTZ5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Chromium, trivalent (7196A)	391		1.00	1.00	mg/Kg		12/16/24 14:29	1	HE7K
Percent Moisture (Moisture)	1.2		0.1	0.1	%		12/06/24 06:05	1	W9YR
Percent Solids (Moisture)	98.8		0.1	0.1	%		12/06/24 06:05	1	W9YR

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (9045D)	8.4	HF	1.0	1.0	SU		12/06/24 21:32	1	T5AC

General Chemistry - SPLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	0.983		0.200	0.200	mg/L		12/11/24 14:56	1	WZC8

Client Sample ID: Steel Shot

Lab Sample ID: 310-296581-2

Date Collected: 12/04/24 11:00

Matrix: Solid

Date Received: 12/05/24 15:00

Percent Solids: 98.8

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	2.86		0.822	0.370	mg/Kg	✱	12/11/24 19:42	5	NFT2
Arsenic	10.3		0.822	0.345	mg/Kg	✱	12/11/24 19:42	5	NFT2
Barium	6870		16.4	8.22	mg/Kg	✱	12/12/24 12:36	100	NFT2
Beryllium	0.272	J	0.411	0.164	mg/Kg	✱	12/11/24 19:42	5	NFT2
Boron	47.3		41.1	20.5	mg/Kg	✱	12/11/24 19:42	5	NFT2
Cadmium	0.419		0.411	0.156	mg/Kg	✱	12/11/24 19:42	5	NFT2
Chromium	391		1.23	0.534	mg/Kg	✱	12/11/24 19:42	5	NFT2
Cobalt	25.3		8.22	3.78	mg/Kg	✱	12/12/24 12:36	100	NFT2
Copper	385		1.23	0.501	mg/Kg	✱	12/11/24 19:42	5	NFT2
Lead	8.52		2.05	0.641	mg/Kg	✱	12/11/24 19:42	5	NFT2
Lithium	9.93		2.05	0.592	mg/Kg	✱	12/11/24 19:42	5	NFT2
Manganese	2800		41.1	19.7	mg/Kg	✱	12/12/24 12:36	100	NFT2
Molybdenum	105		0.822	0.444	mg/Kg	✱	12/11/24 19:42	5	NFT2
Nickel	197		1.23	0.559	mg/Kg	✱	12/11/24 19:42	5	NFT2
Selenium	<0.616		1.23	0.616	mg/Kg	✱	12/11/24 19:42	5	NFT2
Silver	0.239	J	0.411	0.181	mg/Kg	✱	12/11/24 19:42	5	NFT2
Thallium	<0.205		0.411	0.205	mg/Kg	✱	12/11/24 19:42	5	NFT2
Vanadium	50.5		24.7	7.56	mg/Kg	✱	12/12/24 12:36	100	NFT2
Zinc	2250		82.2	39.4	mg/Kg	✱	12/12/24 12:36	100	NFT2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	0.0300		0.0188	0.00771	mg/Kg	✱	12/17/24 09:39	1	QTZ5

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Client Sample Results

Client: Transco Railway Products
 Project/Site: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

Client Sample ID: Steel Shot

Lab Sample ID: 310-296581-2

Date Collected: 12/04/24 11:00

Matrix: Solid

Date Received: 12/05/24 15:00

Percent Solids: 98.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chromium, hexavalent (7196A)	<0.385		0.993	0.385	mg/Kg	✱	12/20/24 17:33	1	PFK

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	1.47		1.00	0.542	mg/Kg	✱	12/11/24 14:18	1	WZC8



Accreditation/Certification and Definitions Summary

Client: Transco Railway Products
 Project/Site: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

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	12-01-25																								
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>4500 F C-2011</td> <td></td> <td>Solid</td> <td>Fluoride</td> </tr> <tr> <td>6020B</td> <td>3050B</td> <td>Solid</td> <td>Lithium</td> </tr> <tr> <td>7196A</td> <td></td> <td>Solid</td> <td>Chromium, trivalent</td> </tr> <tr> <td>Moisture</td> <td></td> <td>Solid</td> <td>Percent Moisture</td> </tr> <tr> <td>Moisture</td> <td></td> <td>Solid</td> <td>Percent Solids</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	4500 F C-2011		Solid	Fluoride	6020B	3050B	Solid	Lithium	7196A		Solid	Chromium, trivalent	Moisture		Solid	Percent Moisture	Moisture		Solid	Percent Solids
Analysis Method	Prep Method	Matrix	Analyte																								
4500 F C-2011		Solid	Fluoride																								
6020B	3050B	Solid	Lithium																								
7196A		Solid	Chromium, trivalent																								
Moisture		Solid	Percent Moisture																								
Moisture		Solid	Percent Solids																								

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

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)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Accreditation/Certification and Definitions Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Coal Slag and Steel Shot

Job ID: 310-296581-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 Slag and Steel Shot

Job ID: 310-296581-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
7471B	Mercury (CVAA)	SW846	EET CF
4500 F C-2011	Fluoride (Ion-selective Electrode)	SM	EET CF
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET CF
7196A	Chromium, Hexavalent	SW846	EET CHI
9045D	pH	SW846	EET CF
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CF
1312	SPLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3050B	Preparation, Metals	SW846	EET CF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CF
7471B	Preparation, Mercury	SW846	EET CF
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, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200





Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Transco</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>12/5/24</u>	TIME <u>1500</u>	Received By: <u>XB</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i>			
Multiple Coolers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # _____ of _____</i>			
Cooler Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>			
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? ↓</i>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>Z</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): <u>1.9</u>		Corrected Temp (°C): <u>1.9</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



