

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Matt Thelen  
WDC Acquisition LLC  
1746 Commerce Rd  
Creston, Iowa 50801

Generated 7/2/2025 5:38:41 PM

## JOB DESCRIPTION

Foundry Sand

## JOB NUMBER

310-308886-1

# Eurofins Cedar Falls

## Job Notes

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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  
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## Case Narrative

Client: WDC Acquisition LLC  
Project: Foundry Sand

Job ID: 310-308886-1

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**Eurofins Cedar Falls**

### **Job Narrative 310-308886-1**

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 sample was received on 6/17/2025 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

#### **Metals**

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: WDC Acquisition LLC  
Project/Site: Foundry Sand

Job ID: 310-308886-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-308886-1	Foundry Sand	Solid	06/16/25 08:00	06/17/25 09:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Client Sample Results

Client: WDC Acquisition LLC  
Project/Site: Foundry Sand

Job ID: 310-308886-1

**Client Sample ID: Foundry Sand**

**Lab Sample ID: 310-308886-1**

Date Collected: 06/16/25 08:00

Matrix: Solid

Date Received: 06/17/25 09:30

## Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.100		0.100		mg/L		07/02/25 10:02	07/02/25 16:38	1
Barium	<0.200		0.200		mg/L		07/02/25 10:02	07/02/25 16:38	1
Cadmium	<0.0200		0.0200		mg/L		07/02/25 10:02	07/02/25 16:38	1
<b>Chromium</b>	<b>0.0215</b>		0.0200		mg/L		07/02/25 10:02	07/02/25 16:38	1
Lead	<0.100		0.100		mg/L		07/02/25 10:02	07/02/25 16:38	1
Selenium	<0.100		0.100		mg/L		07/02/25 10:02	07/02/25 16:38	1
Silver	<0.0500		0.0500		mg/L		07/02/25 10:02	07/02/25 16:38	1

## Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00200		0.00200		mg/L		07/02/25 10:51	07/02/25 14:14	1

Lab Chronicle

Client: WDC Acquisition LLC  
Project/Site: Foundry Sand

Job ID: 310-308886-1

Client Sample ID: Foundry Sand  
Date Collected: 06/16/25 08:00  
Date Received: 06/17/25 09:30

Lab Sample ID: 310-308886-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			459322	U8FK	EET CF	07/01/25 15:30 - 07/02/25 07:30 <sup>1</sup>
TCLP	Prep	3010A			459398	WK2X	EET CF	07/02/25 10:02
TCLP	Analysis	6010D		1	459474	ZRI4	EET CF	07/02/25 16:38
TCLP	Leach	1311			459322	U8FK	EET CF	07/01/25 15:30 - 07/02/25 07:30 <sup>1</sup>
TCLP	Prep	7470A			459402	F5MW	EET CF	07/02/25 10:51
TCLP	Analysis	7470A		1	459460	F5MW	EET CF	07/02/25 14:14

<sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

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

## Definitions/Glossary

Client: WDC Acquisition LLC  
Project/Site: Foundry Sand

Job ID: 310-308886-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)
MPN	Most Probable Number
MQL	Method Quantitation 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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



Accreditation/Certification Summary

Client: WDC Acquisition LLC  
Project/Site: Foundry Sand

Job ID: 310-308886-1

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

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## Method Summary

Client: WDC Acquisition LLC  
Project/Site: Foundry Sand

Job ID: 310-308886-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

### Protocol References:

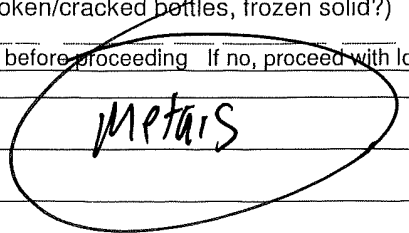
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

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



### Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client <u>WDC</u>			
City/State.	CITY <u>Creston</u>	STATE <u>IA</u>	Project.
<b>Receipt Information</b>			
Date/Time Received	DATE <u>6-17-25</u>	TIME <u>930</u>	Received By <u>PE</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID _____
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<b>Temperature Record</b>			
Coolant. <input type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> NONE			
Thermometer ID _____		Correction Factor (°C): _____	
• <b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): _____		Corrected Temp (°C): _____	
• <b>Sample Container Temperature</b>			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <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.			
<b>Additional Comments</b>			
			

## Chain of Custody Record

Client Information		Sample: <i>[Signature]</i>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 310-102066-27458 1	
Client Contact: Matt Thelen		Phone:		E-Mail: Diana Mockler@eurofins.com		State of Origin:		Page: Page 1 of 1	
Company: WDC Acquisition LLC		PWSID:		Analysis Requested		Job #:		Preservation Codes: N - None	
Address: 1746 Commerce Rd		Due Date Requested:		TAT Requested (days):		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
City: Creston		PO #:		Purchase Order not required		WO #:		Total Number of Containers	
State, Zip: IA, 50801		Email: matt.thelen@wellmandynamics.com		Project #:		31002529		Special Instructions/Note:	
Phone:		TCLP		Site:		SSOW#:		Other:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Over-sat, etc.)	
<i>Foundry Sand</i>		6/16/25		8:00 AM		C		Solid	
Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6010C, 7470A		Special Instructions/Note:	
<input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> Yes		Special Instructions/Note:	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by		Date:		Time:		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by: <i>[Signature]</i>		Date/Time: 6/16/25 / 2:00 PM		Company: WDC		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		6/16/25 0930		Ver: 10/10/2024	

## Login Sample Receipt Checklist

Client: WDC Acquisition LLC

Job Number: 310-308886-1

Login Number: 308886

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	