



Element  
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Fort Wayne, Indiana  
46825, United States

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October 12, 2022

Ken Myers  
East Chicago Sanitary District  
5201 Indianapolis Blvd  
East Chicago, IN 46312

RE: Upstream

Dear Ken Myers:

Lot Id: 127313

Element Materials Technology – Fort Wayne received 7 sample(s) on 10/3/2022 for the analyses presented in the following report.

In accordance with your instructions, a laboratory of Element Materials Technology Fort Wayne LLC either conducted or subcontracted these analyses. Subcontracted analyses will be identified in an accompanying case narrative and any associated report(s) will be attached in full. Unless otherwise noted in the case narrative, all analyses were conducted using approved methodologies. Reported results relate only to the items tested.

Estimated uncertainty is available upon request. This report shall not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Megan Krauskopf  
Project Manager  
Suite 100, 328 Ley Road,  
Fort Wayne, IN 46825

<b>Accreditation</b>	<b>Cert #</b>
TNI:2016 (Florida)	E871168
ISO 17025:2017 (A2LA)	6190.02
Indiana	M-02-05
Michigan	9030
South Dakota	--
Tennessee	04911

## Analytical Report

Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: Upstream Project Name: Project Location: LSD: P.O.:	Lot ID: <b>127313</b> Control Number: Date Received: Oct 3, 2022 Date Reported: Oct 12, 2022 Report Number: 227893
Attn: Ken Myers Sampled By: HP Company:	Proj. Acct. code:	

<b>Reference Number</b>	127313-1	<b>Sample Date</b>	2022-10-02 13:13			
<b>Sample Description</b>	Upstream	<b>Sample Matrix</b>	Wastewater			
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Nominal DL</b>	<b>Analysis Start Date/Time</b>	<b>Analyst Initials</b>
<b>Subcontracted Services</b>						
Cyanide, Available	0.002	mg/L	1	0.002	Oct 07, 2022 14:27	MK

<b>Reference Number</b>	127313-2	<b>Sample Date</b>	2022-10-02 13:13			
<b>Sample Description</b>	Upstream	<b>Sample Matrix</b>	Wastewater			
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Nominal DL</b>	<b>Analysis Start Date/Time</b>	<b>Analyst Initials</b>
<b>Aggregate Organic Constituents</b>						
Oil & Grease, Total	<5	mg/L	1		Oct 05, 2022 17:05	SK
Oil & Grease, Total	Calculated Reporting Limit	<5	mg/L	1	Oct 05, 2022 17:05	SK

<b>Reference Number</b>	127313-3	<b>Sample Date</b>	2022-10-02 13:13			
<b>Sample Description</b>	Upstream	<b>Sample Matrix</b>	Wastewater			
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Nominal DL</b>	<b>Analysis Start Date/Time</b>	<b>Analyst Initials</b>
<b>Microbiology</b>						
Escherichia coli	Multi Well	210	MPN/100mL	1	1	Oct 03, 2022 17:37 CS

<b>Reference Number</b>	127313-5	<b>Sample Date</b>	2022-10-02 13:13			
<b>Sample Description</b>	Upstream	<b>Sample Matrix</b>	Wastewater			
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Nominal DL</b>	<b>Analysis Start Date/Time</b>	<b>Analyst Initials</b>
<b>Aggregate Organic Constituents</b>						
Biochemical Oxygen Demand	BOD	<6	mg/L	1	2	Oct 06, 2022 17:15 AS
<b>Physical and Aggregate Properties</b>						
Total Suspended Solids	Non-Filterable Residue	3	mg/L	1	2	Oct 04, 2022 13:27 AS
<b>Routine Water</b>						
Chloride		40	mg/L	5	2	Oct 07, 2022 18:50 RB
Sulfate		40	mg/L	5	2	Oct 07, 2022 18:50 RB

<b>Reference Number</b>	127313-6	<b>Sample Date</b>	2022-10-02 13:13			
<b>Sample Description</b>	Upstream	<b>Sample Matrix</b>	Wastewater			
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Nominal DL</b>	<b>Analysis Start Date/Time</b>	<b>Analyst Initials</b>
<b>Metals - Total in Water by ICP-MS</b>						
Cadmium	Total	<0.0002	mg/L	1	0.0002	Oct 04, 2022 08:22 FR
Chromium	Total	0.0020	mg/L	1	0.0004	Oct 04, 2022 08:22 FR
Copper	Total	0.0046	mg/L	1	0.0002	Oct 04, 2022 08:22 FR
Lead	Total	0.0015	mg/L	1	0.0002	Oct 04, 2022 08:22 FR
Nickel	Total	0.005	mg/L	1	0.001	Oct 04, 2022 08:22 FR

**Analytical Report**

Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: Upstream Project Name: Project Location: LSD: P.O.:	Lot ID: <b>127313</b> Control Number: Date Received: Oct 3, 2022 Date Reported: Oct 12, 2022 Report Number: 227893
Attn: Ken Myers Sampled By: HP Company:	Proj. Acct. code:	

<b>Reference Number</b> 127313-6	<b>Sample Date</b> 2022-10-02 13:13					
<b>Sample Description</b> Upstream	<b>Sample Matrix</b> Wastewater					
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Nominal DL</b>	<b>Analysis Start Date/Time</b>	<b>Analyst Initials</b>
<b>Metals - Total in Water by ICP-MS - Continued</b>						
Zinc	Total	0.0137	mg/L	1	0.0004	Oct 04, 2022 08:22 FR

<b>Reference Number</b> 127313-7	<b>Sample Date</b> 2022-10-02 13:13					
<b>Sample Description</b> Upstream	<b>Sample Matrix</b> Wastewater					
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>DF</b>	<b>Nominal DL</b>	<b>Analysis Start Date/Time</b>	<b>Analyst Initials</b>
<b>Inorganic Nonmetallic Parameters</b>						
Nitrogen, Ammonia (As N)	0.1	mg/L	1	0.1	Oct 10, 2022 11:31	RW
Nitrogen, Nitrate + Nitrite (As N)	1.7	mg/L	1	0.1	Oct 06, 2022 14:04	RW
Total Phosphorus	0.1	mg/L	1	0.1	Oct 07, 2022 18:41	AS
Total Kjeldahl Nitrogen	1.1	mg/L	1	0.5	Oct 11, 2022 22:59	AS
Total Nitrogen	2.7	mg/L	1	0.5	Oct 11, 2022 22:59	AS

Approved by:   
Megan Krauskopf  
Project Manager

## Methodology and Notes

Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: Upstream	Lot ID: <b>127313</b>
Attn: Ken Myers	Project Name:	Control Number:
Sampled By: HP	Project Location:	Date Received: Oct 3, 2022
Company:	LSD:	Date Reported: Oct 12, 2022
	P.O.:	Report Number: 227893
	Proj. Acct. code:	

## Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Ammonia-N by FIA	EPA	Determination of Ammonia Nitrogen by Semi-Automated Colorimetry, E350.1	Oct 10, 2022	Fort Wayne
Anions by IC in Water	EPA	Determination of Inorganic Anions by Ion Chromatography, E300.0	Oct 7, 2022	Fort Wayne
BOD and CBOD in water	SMEWW	BOD: 5-Day Test, 5210B	Oct 6, 2022	Fort Wayne
Coliforms by Quantitray	SMEWW	Enzyme Substrate Test, 9223B	Oct 3, 2022	Fort Wayne
External Sublet Data Entry	Ext. Lab	External Lab, Ext. Lab	Oct 7, 2022	Fort Wayne
Metals ICP-MS Total in water	EPA	Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry, E200.8	Oct 4, 2022	Fort Wayne
Nitrate Nitrite in Water by FIA	EPA	Determination of Nitrate-Nitrite Nitrogen by Automated Colorimetry, E353.2	Oct 6, 2022	Fort Wayne
Oil and Grease	EPA	n-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated n-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, E1664	Oct 5, 2022	Fort Wayne
Phosphorus Total in Water by FIA	SMEWW	Phosphorus: Automated Ascorbic Acid Reduction Method, 4500-P F	Oct 7, 2022	Fort Wayne
Solids - Suspended	SMEWW	Total Suspended Solids, 2540D	Oct 4, 2022	Fort Wayne
TKN in Water by FIA	Calculated	Calculated Result, Calculated	Oct 11, 2022	Fort Wayne
TKN in Water by FIA	EPA	Total Kjeldahl Nitrogen by Semi-Automated Colorimetry, E351.2	Oct 11, 2022	Fort Wayne

## References

Calculated	Calculated Result
EPA	United States Environmental Protection Agency
Ext. Lab	External Laboratory
SMEWW	Standard Methods for the Examination of Water and Wastewater

## Comments:

- Oct 07, 2022 - The ecoli sample was received and analyzed out of hold time.
- Oct 11, 2022 - The Available Cyanide testing was subcontracted to Eurofins/Test America Pittsburgh PA. Their report is attached in its entirety.
- Oct 11, 2022 - The dilution water blank for the BOD analysis was outside of acceptance limits. This data is accepted based on acceptable recoveries in additional associated QC.
- Oct 12, 2022 - The BOD sample was analyzed out of hold time.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

## Report Transmission Cover Page

Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: Upstream Project Name: Project Location: LSD: P.O.:	Lot ID: <b>127313</b> Control Number: Date Received: Oct 3, 2022 Date Reported: Oct 12, 2022 Report Number: 227893
Attn: Ken Myers Sampled By: HP Company:	Proj. Acct. code:	

Contact	Company	Address
<b>Ken Myers</b>	<b>East Chicago Sanitary District</b>	5201 Indianapolis Blvd East Chicago, IN 46312 Phone: (219) 391-8466 Fax: Email: kmyers@eastchicago.com

Delivery	Format	Deliverables
Email - Merge Deliverables	PDF	COC / Test Report
Email - Multiple Deliverables By Lot	East Chicago	Test Report

Contact	Company	Address
<b>Megan Krauskopf</b>	<b>East Chicago Sanitary District</b>	Fort Wayne, IN null Phone: (260) 471-7000 Fax: Email: megan.krauskopf@element.com

Delivery	Format	Deliverables
Email - Single Deliverable	East Chicago	Test Report

Contact	Company	Address
<b>San Operator</b>	<b>East Chicago Sanitary District</b>	5201 Indianapolis Blvd. East Chicago, IN 46312 Phone: (219) 391-8466 Fax: Email: sanoperator@eastchicago.com

Delivery	Format	Deliverables
Email - Merge Deliverables	PDF	COC / Test Report
Email - Multiple Deliverables By Lot	East Chicago	Test Report

### Notes To Clients:

- Oct 07, 2022 - The ecoli sample was received and analyzed out of hold time.
- Oct 11, 2022 - The Available Cyanide testing was subcontracted to Eurofins/Test America Pittsburgh PA. Their report is attached in its entirety.
- Oct 11, 2022 - The dilution water blank for the BOD analysis was outside of acceptance limits. This data is accepted based on acceptable recoveries in additional associated QC.
- Oct 12, 2022 - The BOD sample was analyzed out of hold time.

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## ANALYTICAL REPORT

Eurofins Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-145563-1

Client Project/Site: Available Cyanide 127313

For:

Element Materials Technology  
328 Ley Rd  
Suite100  
Fort Wayne, Indiana 46825

Attn: Don Ellis



Authorized for release by:

10/11/2022 3:19:49 PM

Khadejha Brown, Project Management Assistant I

(412)963-7058

[Khadejha.Brown@et.eurofinsus.com](mailto:Khadejha.Brown@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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# Case Narrative

Client: Element Materials Technology  
Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

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## Job ID: 180-145563-1

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### Laboratory: Eurofins Pittsburgh

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#### Narrative

#### Job Narrative 180-145563-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 10/4/2022 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.7° C.

#### Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC was not relinquished.

#### General Chemistry

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

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# Definitions/Glossary

Client: Element Materials Technology  
Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

## 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
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: Element Materials Technology  
 Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

## Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22 *
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-22 *
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-23

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# Sample Summary

Client: Element Materials Technology  
Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-145563-1	127313-1	Water	10/02/22 13:13	10/04/22 09:00

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# Method Summary

Client: Element Materials Technology  
Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

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Method	Method Description	Protocol	Laboratory
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

---

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Lab Chronicle

Client: Element Materials Technology  
Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

**Client Sample ID: 127313-1**

**Lab Sample ID: 180-145563-1**

**Date Collected: 10/02/22 13:13**

**Matrix: Water**

**Date Received: 10/04/22 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	OIA - 1677		1			414483	10/07/22 14:27	CMR	EET PIT

Instrument ID: ALPKEM3

**Laboratory References:**

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

**Analyst References:**

Lab: EET PIT

Batch Type: Analysis

CMR = Carl Reagle



# Client Sample Results

Client: Element Materials Technology  
Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

**Client Sample ID: 127313-1**

**Lab Sample ID: 180-145563-1**

**Date Collected: 10/02/22 13:13**

**Matrix: Water**

**Date Received: 10/04/22 09:00**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available (EPA OIA - 1677)	0.0025		0.0020	0.0016	mg/L			10/07/22 14:27	1

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# QC Sample Results

Client: Element Materials Technology  
 Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

## Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

**Lab Sample ID: MB 180-414483/40**  
**Matrix: Water**  
**Analysis Batch: 414483**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		0.0020	0.0016	mg/L	-		10/07/22 14:08	1

**Lab Sample ID: LCS 180-414483/41**  
**Matrix: Water**  
**Analysis Batch: 414483**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	0.0501	0.0510		mg/L	-	102	82 - 132



# QC Association Summary

Client: Element Materials Technology  
Project/Site: Available Cyanide 127313

Job ID: 180-145563-1

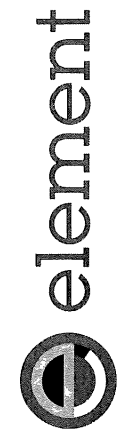
## General Chemistry

### Analysis Batch: 414483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-145563-1	127313-1	Total/NA	Water	OIA - 1677	
MB 180-414483/40	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-414483/41	Lab Control Sample	Total/NA	Water	OIA - 1677	

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# External Sublet Request

Purchase Order Number: PO# PIFW 002504

Printed Date: Oct 03, 2022  
Shipping Method: Ground

**To:**  
Attn: Sample Receiving  
Test America-Pittsburgh  
301 Alpha Dr  
Pittsburgh, PA 15238  
Phone: (111) 111-1111  
Fax:  
Email:

**Results To:**  
Fort Wayne  
Suite 100, 328 Ley Road  
Fort Wayne, IN 46825  
Phone: (260) 471-7000  
Fax: (260) 471-7777  
Email: Info.FortWayne@element.com

**Bill To:**  
Attn: Accounts Payable  
Element Materials Technology Canada Inc.  
3701 Port Union Road  
Fairfield OH 45014  
United States  
Phone: (513) 984-4112  
Fax: (513) 984-8258  
Email: accpayable.americas@element.com,  
wregpurch@element.com

Please contact the requisitioner named below with all questions related to this purchase order.

**\*\* THE PURCHASE ORDER NUMBER MUST APPEAR ON ALL INVOICES. INVOICES MUST BE SENT TO BOTH BILL TO EMAIL ADDRESSES. \*\***

Due Date	Requisitioner	Sample Id	Sampled Date	Element Service Code	Vendor Service Code	Service Name	Sample Description
Oct 10, 2022	John Himelick	127313 - 1	Oct 02, 2022 13:13	CYAN 1677	CYAN 1677	Cyanide, Available by Upstream Ligand Exchange	

Reinquisitioned By	Date/Time	Received By	Date/Time	Temp of Samples °C	Attempt to Cool? Y / N
		<i>[Signature]</i>	04/22/20		

Comments:



The standard terms and conditions of purchase below are included in each purchase order (PO) of Element Materials Technology Canada Inc. and its subsidiaries (Element) as part of its contract with a supplier of goods and/or services (Vendor). Any Vendor terms and conditions of supply do not apply unless Element agrees in writing. Where terms and conditions exist under an existing written contract between Element and a Vendor, these terms and conditions do not apply.

**NOTE: Element Materials Technology Canada Inc. is not an exempt entity and subject to GST, HST, QST and applicable provincial sales taxes.**  
Terms and Conditions <http://www.element.com/terms/term-and-conditions>



# Login Sample Receipt Checklist

Client: Element Materials Technology

Job Number: 180-145563-1

**Login Number: 145563**

**List Source: Eurofins Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**


Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	True	
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.	False	
Is the Field Sampler's name present on COC?	False	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



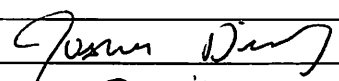
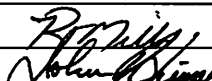
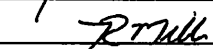
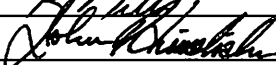
element

# Chain of Custody

Laboratory Number: 127313

Company Name: Contact Name: Address: City, State Zip: Phone Number: Fax Number: E-mail Address:	<b>Client Information:</b>		<b>Billing Information:</b>		PO Number:	<b>Project Name/Number:</b> <b>UPSTREAM</b>	Page 1 of 1		
	East Chicago Sanitary District		Same		Quote Number:		Sampler's Signature 	<b>Matrix Code</b>	
	Henry Padilla				Required QC Level			DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid	
	5201 Indianapolis Blvd				Bill Monthly	<input type="checkbox"/> Yes <input type="checkbox"/> No	Shipping Method:  UPS / FedEx / Airborne DHL / <u>Element</u> / Hand / Mail		
	East Chicago IN 46124								
	Phone Number: 219-391-8466 Ext. 232		Ext:						
Fax Number:									
E-mail Address: hpadilla@eastchicago.com									

Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other	Turn Time 5 TAT	(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Collection Information		Quantity	Container Type P=Plastic, G=Glass, V=Vial	Pres. HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Requested Tests							Comments		
			Date	Time				Grab / Composite	Matrix	CYANIDE 1677	Oil & Grease	PHENOL	FL_300, TSS	*Metals		NH3, T, PHOS, COD	E. Coli
					1	P	NAOH	X									Samples Meet Acceptance Policy Yes <u>No</u>
					1	G	H2SO4		X								*Cd, Cl, Cr, Cu, Pb, Ni, SO4, Zn, Hg
					1	G	NONE							X			E. coli received
					1	G	H2SO4			X							out of hold, poured off from unpress bottle process as received
					1	P	NONE				X						per Ken
					1	P	HNO3					X					10/3/22
					1	P	H2SO4						X				F596APP
																	No phenol or Hg per Ken

	Relinquished by	Date/Time	Received by	Date/Time	Composite Sampler Start Date/Time	End Date/Time
1		10/3/22-11A		10/3/22-11A	10/3/22 1:13AM	
2		10/3/22-1555		10/3/22 15:55		Received at lab on ice?
3						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 15

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portion.

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P 260-471-7000  
F 260-471-7777

909 Executive Dr.  
Warsaw, IN  
46580 USA  
P 574-267-3305  
F 574-269-6569

3371

Lot: 127313 COC

