

August 24, 2019

Arcelor Mittal USA, Inc. 250 W US Highway 12 Burns Harbor, IN 46304-9745

Work Order No.: 19H1553

Re: NPDES Excursion-CN

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 8/24/2019 9:00:00AM for the analyses presented in the following report as Work Order 19H1553.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely, Microbac Laboratories, Inc.

Carup Macizala

Carey Gadzala Project Manager

Microbac Laboratories, Inc. 250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



WORK ORI	DER SAMPLE SUMMARY		Date:	Saturday, August 24, 2019
Project:	Arcelor Mittal USA, Inc. NPDES Excursion-CN 19H1553			
Lab Sample I 19H1553-01	Lagoon Channel Inlet	Tag Number	Collection Date 08/24/2019 07:05	Date Received 8/24/2019 10:00:00AM
19H1553-02 19H1553-03	South Lagoon Inlet 011		08/24/2019 07:10 08/24/2019 07:15	8/24/2019 10:00:00AM 8/24/2019 10:00:00AM

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Analytical Re	sults		D	ate:	Saturday, August 24, 2019				
Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-CN								
Client Sample ID: Lagoon Channel Inl Sample Description:							Work O Sample	d:	19H1553-01 08/24/2019 7:05 08/24/2019 10:00
Matrix: Analyses	Aqueous	Certs	AT	Result	RL	Qual	Receive Units	DF	Analyzed
Total Cyanide		I	Method: SM 4500 Prep Method: NA	-CN C/E-1999				alyst: AJR īme: 08/24/2019 11:00	
Cyanide, Total		dij	Α	0.0053	0.0050		mg/L	1	08/24/2019 15:46

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Analytical Results Saturday, August 24, 2019 Date: Arcelor Mittal USA, Inc. **Client:** NPDES Excursion-CN **Client Project:** South Lagoon Inlet Work Order/ID: 19H1553-02 **Client Sample ID:** Sampled: 08/24/2019 7:10 Sample Description: 08/24/2019 10:00 Matrix: Aqueous **Received:** Certs AT Result RL Units DF Analyses Qual Analyzed Method: SM 4500-CN C/E-1999 Analyst: AJR **Total Cyanide** Prep Method: NA Prep Date/Time:08/24/2019 11:00 Cyanide, Total dij A 0.0056 0.0050 mg/L 1 08/24/2019 15:48

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Analytical Results

Date:

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-C											
Client Sample ID:	011							Work O	rder/ID:	19H1553-03		
Sample Description:								Sample	d:	08/24/2019 7:15		
Matrix:	Aqueous						Receive	d:	08/24/2019 10:00			
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed		
				Method: SM	4500-CN	C/E-1999	Analyst: AJR					
Total Cyanide			I	Prep Method: NA			I	Time:08/24/2019 11:00				
Cyanide, Total		dij	Α		ND	0.0050		mg/L	1	08/24/2019 15:49		

A,B = Target Analyte I = Internal Standard

- M = Summation Analyte
- S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

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QC SAMPLE IDENTIFICATIONS

BLK = Method Blank DUP = Method Duplicate BS = Method Blank Spike MS = Matrix Spike ICB = Initial Calibration Blank CCB = Continuing Calibration Blank CRL = Client Required Reporting Limit PDS = Post Digestion Spike QCS = Quality Control Standard

ICSA = Interference Check Standard "A" ICSAB = Interference Check Standard "AB" BSD = Method Blank Spike Duplicate MSD = Matrix Spike Duplicate ICV = Initial Calibration Verification CCV = Continuing Calibration Verification OPR = Ongoing Precision and Recovery Standard SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- ⁱ Kansas Dept Health & Env. NELAP (#E-10397)
- j Kentucky Wastewater Laboratory Certification Program (#108202)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler ID: Default Cooler

Comments

No times on sample containers

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
	Yes
Chain of Custody (COC) Present?	
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	No
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	No
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



		instructions on back TO BE COMPLETED BY MICROBAC Temperature Upon Receipt (°C) 6_5	Holding Time	Samples Received on Ice? Stres	Custody Seals Intact? 🗌 Yes 🗌 No 🕅 N/A	Clevel 3 Clevel 4 EDD		j? □Yes □No)) Unbreserved		U Montheonal Notes							29	-63	🗌 Return 📋 Archive	Bate/Time 8/24/19 0240	Date/Time	8/24/19 59W	Page of Page 8 of 8
đ	D R.	To Turnaround Time To Turnaround Time To		(needed by) Sar	Report Type Cu	Results Only Level 1 Level 2	☐ Mail ☐ Fax ☐ e-mail (address)	Compliance Monitoring?	Sampler Phone No.:	* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCL, (4) NaOH, (5) Zinc Acetate. (6) Methanol. (7) Sodium Bisulfate. (8) Sodium Thiosulfate. (9) Hexane. (1) Innreserved	REQUESTED ANALYSIS	H 9PJ 9d UZ VZ 1 myd SSL	XXXXX		K K K K X	× ×	×	*		×	Dispose as appropriate	0736 Received By (signature)	0900 Received By (signature)	Received By (signature)	
				er (Rep		Send Invoice via:	PO No.:	a feel sa	water (GW), Surface Water (SW), 6) Methanol. (7) Sodium Bisulfate		Grab / Comp Trees vai tve se vai tve se vai tve se vai tve tve tve tve tve tve tve tve tve tve		C	×	50	e		00	G	Sample Disposition	Date/Time	Time	Date/Time	
		Invoice Address Client Name:	Address:	City, State, Zip:	Contact:	Telephone No.:		Location:	Sampler Signature:	Sludge, Oil, Wipe, Drinking Water (DW), Groundwater H2SO4, (3) HCI, (4) NaOH, (5) Zinc Acetate. (6) Met		ed Olle H Matrix Matrix	6	119 3	19 2	C	19 2	1 7000	I QUA	11/11	Non-Hazardous Radioactive	Relinquished By (signature)	Relinquished By (signature)	Relinquished By (signature)	
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	MICROBAC*	Lab Report Address Client Name: Arec (ar	Address:	City, State, Zip:	Contact: 1 Ru	Telephone No.:	Send Report via:	Project:	Sampled by (PRINT): Wr	* Matrix Types: ** Preservative Types:	19 Ar	H1553 Carey G celorMittal - Burn DES Excursion-C /24/2019	o Sadza s Ha :N	la rbor,			002			10	Possible Hazard Identification Comments	ř. r	011 14= 1.70		rev.12/26/2017