

September 3, 2019

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

Work Order No.: 19I0019

**Re: NPDES Excursion-CN** 

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 9/2/2019 9:45:00AM for the analyses presented in the following report as Work Order 1910019.

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

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WORK OR	DER SAMPLE SUMMARY	Date:	Tuesday, September 3, 2019		
Client:	Arcelor Mittal USA, Inc.				
Project:	NPDES Excursion-CN				
Lab Order:	1910019				
Lab Sample 1910019-01	ID Client Sample ID lagoon Channel Inlet	Tag Number	Collection Date 09/02/2019 00:00	Date Received 9/2/2019 9:45:00AM	
1910019-02	South Lagoon Inlet		09/02/2019 00:00		
1910019-03	011		09/02/2019 00:00	9/2/2019 9:45:00AM	

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#### **Analytical Results** Date: Tuesday, September 3, 2019 Arcelor Mittal USA, Inc. **Client:** NPDES Excursion-CN **Client Project:** lagoon Channel Inlet Work Order/ID: 1910019-01 **Client Sample ID:** 09/02/2019 0:00 Sample Description: Sampled: 09/02/2019 9:45 Matrix: Aqueous **Received:** Certs AT Result RL Units DF Analyses Qual Analyzed Method: SM 4500-CN C/E-1999 Analyst: ABG **Total Cyanide** Prep Method: NA Prep Date/Time: 09/03/2019 11:15 Cyanide, Total dij A 0.012 0.0050 mg/L 1 09/03/2019 14:04

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#### **Analytical Results** Date: Tuesday, September 3, 2019 Arcelor Mittal USA, Inc. **Client:** NPDES Excursion-CN **Client Project:** South Lagoon Inlet Work Order/ID: 1910019-02 **Client Sample ID:** 09/02/2019 0:00 Sample Description: Sampled: 09/02/2019 9:45 Matrix: Aqueous **Received:** Certs AT Result RL Units DF Analyses Qual Analyzed Method: SM 4500-CN C/E-1999 Analyst: ABG **Total Cyanide** Prep Method: NA Prep Date/Time: 09/03/2019 11:15 Cyanide, Total dij A 0.011 0.0050 mg/L 1 09/03/2019 14:05

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## **Analytical Results**

Tuesday, September 3, 2019

Date:

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-CN										
Client Sample ID: 011 Sample Description:								Work C	order/ID:	1910019-03	
						Sample	ed:	09/02/2019 0:00			
Matrix:	Aqueous							Receiv	ed: 09/02/2019 9:4		
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed	
				Method: SM	4500-CN	I C/E-1999			Analyst: ABG		
Total Cyanide			Prep Method: NA			Prep Date/Time: 09/03/2019 11:15					
Cyanide, Total		dij	Α		ND	0.0050		mg/L	1	09/03/2019 14:07	

#### 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)
- <sup>i</sup> 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

