

September 5, 2019

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

Work Order No.: 19I0213

Re: NPDES Excursion-CN

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 9/5/2019 11:08:00AM for the analyses presented in the following report as Work Order 19/0213.

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 OR	DER SAMPLE SUMMARY		Date:	Thursday, September 5, 2019
Project:	Arcelor Mittal USA, Inc. NPDES Excursion-CN 19I0213			
Lab Sample 1910213-01 1910213-02	D Client Sample ID lagoon Channel Inlet South Lagoon Inlet	Tag Number	Collection Date 09/05/2019 00:00 09/05/2019 00:00	
1910213-03	011		09/05/2019 00:00	9/5/2019 11:08:00AM

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Analytical Results

Date: Thursday, September 5, 2019

Client: Client Project:	Arcelor Mittal USA, Ir NPDES Excursion-C								
Client Sample ID:	lagoon Channel Inlet						Work O	rder/ID:	1910213-01
Sample Description:	-						Sample	d:	09/05/2019 0:00
Matrix:	Aqueous						Receive	əd:	09/05/2019 11:08
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500	-CN C/E-1999			Ana	alyst: ABG
Total Cyanide			I	Prep Method: NA				Prep Date/T	ïme:09/05/2019 12:09
Cyanide, Total		dij	Α	0.0056	0.0050		mg/L	1	09/05/2019 14:53

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Analytical Results

Date: Thursday, September 5, 2019

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-C								
Client Sample ID:	South Lagoon Inlet						Work C	Order/ID:	1910213-02
Sample Description:							Sample	ed:	09/05/2019 0:00
Matrix:	Aqueous						Receiv	ed:	09/05/2019 11:08
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500	-CN C/E-1999			An	alyst: ABG
Total Cyanide			ł	Prep Method: NA				Prep Date/	Time:09/05/2019 12:09
Cyanide, Total		dij	Α	0.0060	0.0050		mg/L	1	09/05/2019 14:58

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Analytical Results

Date: Thursday, September 5, 2019

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-CN									
Client Sample ID:	011							Work Or	der/ID:	1910213-03
Sample Description:								Sample	d:	09/05/2019 0:00
Matrix:	Aqueous							Receive	d:	09/05/2019 11:08
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed
				Method: SM 4	4500-C	N C/E-1999			Ana	alyst: ABG
Total Cyanide			I	Prep Method: NA				F	Prep Date/	Time:09/05/2019 12:09
Cyanide, Total		dij	Α		ND	0.0050		mg/L	1	09/05/2019 15:00

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
Chain of Custody (COC) Present?	Yes
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

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, ROBAC*				Number 152286
r Ac	Invoice Address	- -	Turnaround Time	TO BE COMPLETED BY MICROBAC
	Client Name:		□ Routine (5 to 7 business days) □ RUSH* (notify lab)	Temperature Upon Receipt (°C) -0.3
ey G	Address:			Holding Time
s, Zip:	City, State, Zip:		(needed by)	Samples Received on Ice? Crives. 🗆 No 🛛 N/A
Lori Kik	Contact:		Report Type	Custody Seals Intact? DYes DNo. TN/A
No.:	Telephone No.:		Crevel 1 Crevel 1 Crevel	2 CLevel 3 CLevel 4 CEDD
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y (PRINT): in Jacos - Howerd	0 Sampler Signature:		Sampler Phone No.:	
	udge, Oil, Wipe, Drinking Water (DW), (2504, (3) HCl, (4) NaOH, (5) Zinc Ace	Groundwater (GW), Surface Wa tate, (6) Methanol, (7) Sodium	Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) (1) HN03, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved	y) ne, (U) Unpreserved
			REQUESTED ANALYSIS	
	of Containers	latrix Hab / Comp	903 92 N2 UZ SSI 2.1-0-4	Adritional Notes
			K K K K K	
00	9/4/19 2	6	X	
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Possible Hazard Identification	dous Non-Hazardous Radioactive		Image: Sample Disposition Image:	Return 🗌 Archive
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	Retinquished By (Sign	Signature) Date/Fine	/ Received By (signature)) Dắte/Time
	Relinquished By (sign	(signature) Date/Time	Received By (signature)	9/2/10 1/78
				3