

August 23, 2019

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

Work Order No.: 19H1495

**Re: NPDES Parameters** 

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 4 sample(s) on 8/23/2019 10:00:00AM for the analyses presented in the following report as Work Order 19H1495.

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.



WORK ORDE	R SAMPLE SUMMARY		Date:	Friday, August 23, 2019
Project: NPI	elor Mittal USA, Inc. DES Parameters I1495			
Lab Sample ID 19H1495-01	Client Sample ID 001-Composite	Tag Number 001	Collection Date 08/22/2019 00:00	Date Received 8/23/2019 10:00:00AM
19H1495-02	001-Grab	001	08/23/2019 00:00	8/23/2019 10:00:00AM
19H1495-03	011-Composite	011	08/22/2019 00:00	8/23/2019 10:00:00AM
19H1495-04	011-Grab	011	08/23/2019 00:00	8/23/2019 10:00:00AM

Analytical Res	sults							Date:	Friday, August 23, 2019			
Client: Client Project:	Arcelor Mittal USA NPDES Paramete	,										
Client Sample ID:	001-Composite							Work	19H1495-01			
Sample Description: Matrix:	001 Aqueous							Sampl Receiv		08/22/2019 0:00 08/23/2019 10:00		
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
				Method: E	PA 420.4 Re	v 1.0			Analyst: ABG			
Total Phenolics									Prep Date/	Time:08/23/2019 14:05		
Phenolics, Total Reco	Phenolics, Total Recoverable			0.0067	0.0060	0.010		mg/L	1	08/23/2019 15:40		
				Method: S	6M 2540 D-19	97			Analyst: <b>KMT</b>			
Total Suspended Solid	Total Suspended Solids								Prep Date/	Time: 08/23/2019 11:23		
Total Suspended Solid	eij	Α	5.5	1.0	1.0		mg/L	1	08/23/2019 12:40			

#### **Analytical Results** Date: Friday, August 23, 2019 Arcelor Mittal USA, Inc. **Client: NPDES** Parameters **Client Project:** 001-Grab Work Order/ID: 19H1495-02 **Client Sample ID:** Sample Description: 001 08/23/2019 0:00 Sampled: 08/23/2019 10:00 Matrix: Aqueous **Received:** AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: EPA 1664B Analyst: KMT Oil & Grease (HEM) by SPE Prep Date/Time: 08/23/2019 07:28 08/23/2019 14:37 A 1.4 1.4 5.0 mg/L Oil & Grease (HEM) eij 1

Analytical Res	sults							Date:	Fri	day, August 23, 2019		
Client: Client Project:	Arcelor Mittal USA	,										
Client Sample ID:	011-Composite							Work	Order/ID:	19H1495-03		
Sample Description:	011	)11								08/22/2019 0:00		
Matrix:	Aqueous							Receiv	/ed:	08/23/2019 10:00		
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
				Method: El	PA 350.1 Re	v 2.0		Analyst: ABG				
Nitrogen, Ammonia as	s N								Prep Date/	Time:08/23/2019 11:30		
Nitrogen, Ammonia (A	s N)	ei	A	0.27	0.054	0.10		mg/L	1	08/23/2019 15:35		
				Method: EI	PA 420.4 Re	v 1.0			An	alyst: ABG		
Total Phenolics									Prep Date/	Time:08/23/2019 14:05		
Phenolics, Total Recov	eij	Α	ND	0.0060	0.010	U	mg/L	1	08/23/2019 15:42			
				Method: SI	VI 2540 D-19	97			An	alyst: <b>KMT</b>		
Total Suspended Solid	ds								Prep Date/	Time:08/23/2019 11:23		
Total Suspended Solids			Α	2.6	1.0	1.0		mg/L	1	08/23/2019 12:40		

Analytical Re	sults							Date:	Frie	day, August 23, 2019				
Client: Client Project:	Arcelor Mittal USA NPDES Paramete	,												
Client Sample ID:	011-Grab							Work	Order/ID:	19H1495-04				
Sample Description:	011							Sampl	ed:	08/23/2019 0:00				
Matrix:	Aqueous							Receiv	ved:	08/23/2019 10:00				
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed				
Method: EPA 1664B										Analyst: KMT				
Oil & Grease (HEM) by SPE									Prep Date/	Time:08/23/2019 07:28				
Oil & Grease (HEM)		eij	Α	1.5	1.4	5.0		mg/L	1	08/23/2019 14:37				

#### A,B = Target Analyte I = Internal Standard

- M = Summation Analyte
- S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

### **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

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### 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)

 MDL:
 Minimum Detection Limit

 RL:
 Reporting Limit

 RPD:
 Relative Percent Difference

 U:
 The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

**Cooler Receipt Log** 

Cooler ID: Default Cooler

### Comments

No times



### **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
Relinguished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	No
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
	Yes
Sample labels match COC (Name, Date & Time?)	
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

ORD	2.0	2:5	21/2	No DV/A	No QUIVA								45 Mortes							1			Qh20		000	Bage 9 of 9
CHAIN OF CUSTODY RECORD Number 152318 Instructions on back	TO BE COMPLETED BY MICROBAC	Temperature Upon Receipt (°C) Therm ID	де	Samples Received on Ice 74 Yes 🗆 No 🗍 N/A	Custody Seals Intact? Tes No 201/A	3 CLevel 4 EDD		es 🗌 No		eserved			1941	101	-02	203	20-					Archive	Date/Jime	Date/Time	8/23 19 /10	Page [
CHAIN OF CUS Number Instructions on back	TO BE CO	Temperatu Therm ID	Holding Time	Samples R	Custody S			itoring? Tes ram		fy) ane, (U) Unpr												Return	R	~	$\setminus$	
	Turnaround Time	□ Routine (5 to 7 business days) □ RUSH* (notify lab)		(needed by)	Report Type	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) servative Types: (1) HNO3, (2) H2SO4, (3) HCI, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved	REQUESTED ANALYSIS	r r v s	12 2 1 C 10	X X X	X	X X X	NN	>				oosition Dispose as appropriate	SHU Received By (signature)	Received By (signature)	Received By (signature)	
IHS							Send Invoice via:	PO No.:	A	<ul> <li>(GW), Surface Water (S ethanol, (7) Sodium Bisul</li> </ul>		Σf	Preservative	للا ;		X						Sample Disposition	Date/Time	à	Date/Time	
RUSH	Invoice Address	Client Name:	SS:	City, State, Zip:	ct:	Telephone No.:		Ë	Sampler Signature:	g Water (DW), Groundwater H, (5) Zinc Acetate, (6) Me		Comp	Collected No. of ( Matrix		S	U	U					s 🗌 Radioactive	Relinquished By (signatura)	Relinquished By (signature)	uished By (signature)	
	Invoice	Client	Address:	City, S	Contact:	Teleph	e-mail (address)	Location:	Sampl	Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DV (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc.	-		Date TI Collected Coll	19	8/2315	5/22/14	8-12314					Hazardous Non-Hazardous	7,9 Relinqu	1.	8	
MICROBAC*	Lab Report Address	ne: 4) 1~		1	1012 1101	5 No.:	🗌 Mail 🗌 Fax 🗍		Sampled by (PRINT): Was we	* Matrix Types: Soil/Solid (S), ** Preservative Types: (1) HNO3, (2)		ţ.	Client Sample ID	00	00/	011	(10	11495		rey Ga		ard Identification		10		2017
IM (	Lab Repo	Client Name:	Address:	City, State, Zip:	Contact:	Telephone No.:	Send Report via:	Project:	Sampled			*****	Lab ID				Arc NP	elorM	ittal - I aramet 9	Burns ters	Harbo					