

September 17, 2019

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

Work Order No.: 1910956

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 15 sample(s) on 9/17/2019 10:05:00AM for the analyses presented in the following report as Work Order 19I0956.

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 ORDER SAMPLE SUMMARY

Client:

Arcelor Mittal USA, Inc.

Tuesday, September 17, 2019

Date:

Project: Daily _ab Order: 191095	56			
_ab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
1910956-02	011-Grab	011	09/16/2019 06:08	9/17/2019 10:05:00AM
1910956-04	001-Grab	001	09/16/2019 06:25	9/17/2019 10:05:00AM
1910956-05	Mixed Liquor-Grab	Mixed Liquor	09/17/2019 06:50	9/17/2019 10:05:00AM
1910956-06	J-Box-Grab	J-Box	09/17/2019 06:45	9/17/2019 10:05:00AM
1910956-07	RSB FT Overflow-Grab	RSB FT Overflow	09/17/2019 07:39	9/17/2019 10:05:00AM
1910956-08	999-Grab	999	09/17/2019 07:49	9/17/2019 10:05:00AM
1910956-09	002-Grab	002	09/16/2019 08:09	9/17/2019 10:05:00AM
1910956-10	CM1-Grab	CM1	09/17/2019 00:00	9/17/2019 10:05:00AM
1910956-11	CM2-Grab	CM2	09/17/2019 00:00	9/17/2019 10:05:00AM
1910956-12	CM3-Grab	CM3	09/17/2019 00:00	9/17/2019 10:05:00AM
1910956-13	CM6-Grab	CM6	09/17/2019 00:00	9/17/2019 10:05:00AM
1910956-14	HM2-Grab	HM2	09/17/2019 00:00	9/17/2019 10:05:00AM
1910956-15	HM3-Grab	HM3	09/17/2019 00:00	9/17/2019 10:05:00AM



Field Results		Date: Tuesday, S	September 17, 2019
Client: Client Project:	Arcelor Mittal USA, Inc. Daily	Work Order:	1910956
Client Sample ID:	011-Grab	Work Order/ID:	1910956-02
Sample Description:	011	Sampled:	09/16/2019 06:08
Matrix:	Aqueous	Received:	09/17/2019 10:05
Analyses		Result	Units
рН		8.0	pH Units
Client Sample ID:	001-Grab	Work Order/ID:	1910956-04
Sample Description:	001	Sampled:	09/16/2019 06:25
Matrix:	Aqueous	Received:	09/17/2019 10:05
Analyses		Result	Units
рН		7.9	pH Units
Client Sample ID:	J-Box-Grab	Work Order/ID:	1910956-06
Sample Description:	J-Box	Sampled:	09/17/2019 06:45
Matrix:	Aqueous	Received:	09/17/2019 10:05
Analyses		Result	Units
рН		8.7	pH Units
Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	1910956-07
Sample Description:	RSB FT Overflow	Sampled:	09/17/2019 07:39
Matrix:	Aqueous	Received:	09/17/2019 10:05
Analyses		Result	Units
рН		8.9	pH Units
Client Sample ID:	999-Grab	Work Order/ID:	1910956-08
Sample Description:	999	Sampled:	09/17/2019 07:49
Matrix:	Aqueous	Received:	09/17/2019 10:05
Analyses		Result	Units
рН		7.9	pH Units
Client Sample ID:	002-Grab	Work Order/ID:	1910956-09
Sample Description:	002	Sampled:	09/16/2019 08:09
Matrix:	Aqueous	Received:	09/17/2019 10:05
Analyses		Result	Units
pH		8.1	pH Units

#### Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, I Daily	nc.							
Client Sample ID:	Mixed Liquor-Grab						Work Or	rder/ID:	1910956-05
Sample Description:	Mixed Liquor						Sample	d:	09/17/2019 6:50
Matrix:	Aqueous						Receive	d:	09/17/2019 10:05
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 2540	F-1997			An	alyst: DAT
Settleable Solids			F	Prep Method: SM 2540	F-1997		F	Prep Date/	Time:09/17/2019 10:35
Settleable Solids		i	Α	110		1.0	ml/L	1	09/17/2019 10:35
				Method: SM 2540	D-1997			An	alyst: <b>KMT</b>
Total Suspended Solid	ls		F	Prep Method: SM 2540	D-1997		F	Prep Date/	Time:09/17/2019 10:45
Total Suspended Solic	Total Suspended Solids					1.0	mg/L	1	09/17/2019 12:45

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, I Daily	nc.								
Client Sample ID:	J-Box-Grab							Work O	rder/ID:	1910956-06
Sample Description:	J-Box							Sample	d:	09/17/2019 6:45
Matrix:	Aqueous							Receive	ed:	09/17/2019 10:05
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-19	97			An	alyst: <b>KMT</b>
Total Suspended Solids				Prep Method	SM 2540 D-19	97			Prep Date/	Time:09/17/2019 10:45
Total Suspended Solids dij				10			1.0	mg/L	1	09/17/2019 12:45

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, I Daily	nc.							
Client Sample ID:	CM1-Grab						Work C	Order/ID:	1910956-10
Sample Description:	CM1						Sample	ed:	09/17/2019 0:00
Matrix:	Aqueous						Receiv	ed:	09/17/2019 10:05
Analyses		Certs	AT	Result	R	L Qua	l Units	DF	Analyzed
				Method:	SM 2540 D-1997			An	alyst: <b>KMT</b>
Total Suspended Solid	F	Prep Method:	SM 2540 D-1997			Prep Date/	Time:09/17/2019 10:45		
Total Suspended Solid	ls	dij A 1				1.0	mg/L	1	09/17/2019 12:45

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, I Daily	nc.								
Client Sample ID:	CM2-Grab							Work C	order/ID:	1910956-11
Sample Description:	CM2							Sample	ed:	09/17/2019 0:00
Matrix:	Aqueous							Receiv	ed:	09/17/2019 10:05
Analyses		Certs	AT	Result	F	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1997				An	alyst: KMT
Total Suspended Solid	F	Prep Method:	SM 2540 D-1997				Prep Date/	Time:09/17/2019 10:45		
Total Suspended Solid	ls	dij A 10				1.0		mg/L	1	09/17/2019 12:45

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, Daily	Inc.								
Client Sample ID:	CM3-Grab							Work C	Order/ID:	1910956-12
Sample Description:	CM3							Sample	ed:	09/17/2019 0:00
Matrix:	Aqueous							Receiv	ed:	09/17/2019 10:05
Analyses		Certs	AT	Result	R	L	Qual	Units	DF	Analyzed
				Method: s	SM 2540 D-1997				An	alyst: <b>KMT</b>
Total Suspended Solids				Prep Method:	SM 2540 D-1997				Prep Date/	Time:09/17/2019 10:45
Total Suspended Solid	Total Suspended Solids dij			11		1.0		mg/L	1	09/17/2019 12:45

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, I Daily	nc.								
Client Sample ID:	CM6-Grab							Work O	rder/ID:	1910956-13
Sample Description:	CM6							Sample	d:	09/17/2019 0:00
Matrix:	Aqueous							Receive	ed:	09/17/2019 10:05
Analyses		Certs	AT	Result	R	LC	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1997				An	alyst: <b>KMT</b>
Total Suspended Solid	F	Prep Method:	SM 2540 D-1997				Prep Date/	Time:09/17/2019 10:45		
Total Suspended Solid	ls	dij A 11				1.0		mg/L	1	09/17/2019 12:45

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, Daily	Inc.							
Client Sample ID:	HM2-Grab						Work (	Order/ID:	1910956-14
Sample Description:	HM2						Sampl	ed:	09/17/2019 0:00
Matrix:	Aqueous						Receiv	ved:	09/17/2019 10:05
Analyses		Certs	AT	Result	R	_ Qua	l Units	DF	Analyzed
				Method: s	SM 2540 D-1997			An	alyst: <b>KMT</b>
Total Suspended Solids				Prep Method:	SM 2540 D-1997			Prep Date/	Time:09/17/2019 10:45
Total Suspended Solids dij			Α	11		1.0	mg/L	1	09/17/2019 12:45

### **Analytical Results**

Client: Client Project:	Arcelor Mittal USA, I Daily	nc.								
Client Sample ID:	HM3-Grab							Work O	rder/ID:	1910956-15
Sample Description:	HM3							Sample	d:	09/17/2019 0:00
Matrix:	Aqueous							Receive	ed:	09/17/2019 10:05
Analyses		Certs	AT	Result	I	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1997				An	alyst: <b>KMT</b>
Total Suspended Solids				Prep Method:	SM 2540 D-1997				Prep Date/	Time:09/17/2019 10:45
Total Suspended Solid	ls	dij	Α	11		1.(	)	mg/L	1	09/17/2019 12:45

#### 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



#### **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?	Yes
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?)	Yes
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



# Chain of Custody ArcelorMittal Burns Harbor/Microbac Labs

#### Tuesday

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Lab Work No: 19 20956

\* Date Obtained \_\_\_\_\_ \*\* Sample Date: \_\_\_\_

Looption	Time	Somplar	Туре	Preserved	Cooled	Containers			Parameters	Comments	
Location	Time	Sampler	туре	Fleseiveu	Cooled	Туре	Qty	Vol. (ml)	Faiameters	Comments	
011 **	11.48	CV	Comp	No	Yes	Glass	1	4000		01	
UIT	00.00	1	Grab	No	No	Plastic	1	500	pН	02	
001 **	NUDE		Comp	No	Yes	Glass	1	4000		03	
001	06:25		Grab	No	No	Plastic	1	125	pH	04	
Mixed Liquor *	06:50		Grab	No	No	Plastic	1	2000	TSS, Settling	05	
DIW-131 *	1A		Grab	No	No	Plastic	1	125	pН		
J-Box *	06:45		Grab	No	No	Plastic	1	1000	TSS, pH	06	
RSB FT Overflow *	07:39		Grab	No	No	Plastic	1	125	рН	07	
999 *	07:49		Grab	No	No	Plastic	1	500	pН	08	
002 **	08:09		Grab	No	No	Plastic	1	125	pH	09	
SWTP *		****	Grab	No	No	Plastic	71	1000	TSS	10-15	

\*\*\* WPL is for previous sample date

\*\*\*\* Sample collected by Water Process personnel

No HMI

5.2.04

Relinquished by: · 10175 Received by:

Date: <u>9-17-</u> Date: <u>9</u>171

Time: 08' 30 Time: 0830

Env 2x Rev. 8 07/01/16 (TEK)

Carey Gadzala 1910956 ArcelorMittal - Burns Harbor, IN Daily 09/17/20

for Arcelor Mittal - Burns Harbor

Date/Time:	Date/Time: <b>7/16/17 @&amp;~2.0</b>	0			STD ID / Lot #	Exp. Date
- Analyst	Bro			KI Solution:	KI Solution: 14 6367	6/30/20
nH Paner Lot #:	HT62C	Exp. Date		Acetate buffer. 14 7 99 6	147996	7/29/20
LCS ID: 4 90 74	A 90-74	11/20		PAO Titrant	PAO Titrant: 14 5 34 8	5/31/20
Sample	Sample Vol.		Titrant Start	Titrant Stop	Titrant Vol.	Result
Ē	(mL)	pH (pH Units)	(mL)	(mL)	(mL)	(mg/L)
Blank	200	4.0	0.00	0.00	0.00	0.00
I CS		9.9		6.07	0.07	6.07
Outfall 001		4,0		0.00	00-0	000
Outfall 002		4.0		00.0	00.0	0.00
Outfall 003		4,0		00.00	0.00	000
Outfall 011		40		0.00	0 0 0	0.00
Outfall 011 Dup		4.0		8.00	0.00	0,00
Outfall 00 2 Dup	7	4.0	) )	0.00	0-00	0-00
Date/Time:	Date/Time: 9/17/1 9 800	Ō			STD ID / Lot #	Exp. Pate
Analyst	R40	1		KI Solution:	146367	6/30/20

4 9 Result (mg/L) 00.00 0-00 0.00 0.05 0-0 0.00 0.00 0 - 0 24 30 5 2 45348 00.00 963241 Titrant Vol. 000 0-00 00.0 00.0 0.00 00-00 0.05 (III) Acetate buffer: PAO Titrant: **Titrant Stop** 0.0.0 0.00 0.00 00.00 0.00 0.0.2 0.00 -0 (lm) Q Titrant Start 0000 (jul) pH (pH Units) Exp. Date L.0 11/20 4, 0 4.0 4, 0 6 77 4.0 4,0 ھ ٽر Sample Vol A 9074 002 (lm) 1040 HJ626 pH Paper Lot #: Dup Analyst LCS ID: Dub Sample Outfall 067 □ Dutfall 002 Dutfall 003 **Dutfall 011** Outfall 011 **Dutfall 001** Blank လိ

Chlorine, mg/L = (Titrant Vol., mL) (200 mL) / (Sample Vol., mL)

6 of 50

revision: a\_01\_2016

Page 15 of 18

### Microbac Laboratories - Chicagoland Division pH - METHOD 9045D Arcelor Mittal /Burns Harbor NPDES

Sample ID		pН	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188 312	10: 191040	
Calibration	(DID) (D		BAO	9/17/18 0800
ICV	4 / (7)/ 10	6.99		1
Slope		101.4		
Lake 999		7.85		
Location 001		7.91		
Location 002		8.07		
Location 011		7.97		
WAL 1				
WAL 2	· · · · · · · · · · · · · · · · · · ·		i	
SWTP J-Box		8.69	·	
DIW 131	<			
RSB		8.85		
Dup- 011		7.97		
CCV		7.02		

Sample ID		рН	Analyst	Date/Time of Analysis
Buffer ID:	4:	7:	10:	
Meter ID:				
Calibration	4 / 7 / 10			•
ICV	4 / 7 / 10			
Slope				
Lake 999				
Location 001				
Location 002				
Location 011				
WAL 1		2		
WAL 2	*			
SWTP J-Box	·		-	
DIW 131				
RSB				
Dup-				
CCV				

Page 16 of 18

ArcelorMittal	309606		Percent job complete	Job notes												Chronic Internet doi: 1944 a	is unis jou capital work? Yes						es, hours, and date listed on the plant work location listed above.	Job title Sunger Li Sol	Date / _ / .
	Form number	Requisition number 07958-97		Billable equipment/subcontractors/material	Description	Hours/amt total	Description		Description	Hours/amt total	Description		Hours/amt total	Description	Hours/amt total	Description	Hours/amt total	2	n of the abbreviations.		TM		I the undersigned have verified that contractor employees, hours, and date listed on the timesheet are accurate. complete. valid for the date and plant work location listed above.	Athorization signature	1/1
	Contractor ref #/job #		4	Billable   Total   equipm	Q]	. Gty			<u>_</u>	Qty		2	Qty	<u>0</u>	Oth	<u>0</u>	Oty		Enter the total hours worked by each craft in the box to the right of each abbreviation. See reverse side of form for an explanation of the abbreviations.		SU		I the undersigned timesheet are acc	Arcelor Mittal authorization signat	Printed name
	Cont	ber	oles	OT									4						breviation. See reverse sid		OE	Section 5	Work authorization		
	Contractor company name Microbac Labs	PO number	ution of work Sample.	/   Craft   ST	tic 1											Total hours this sheet	Previous hours	Total hours to date	ox to the right of each abl		IW LIC		ere actually worked by d above.	Put Service Tech	
	Contractor		Description of work	First name	Brian											 Tot			ked by each craft in the b	EL	EN EN		orded on the timesheet w clocation on the date liste	Jobattle	Date 1
	Shift	oresentative 1	0	Last name	040			5								irt time	nd time		Enter the total hours wor	5	30		I the undersigned attest that the hours recorded on the timesheet were actually worked by the contractor employee at the plant work location on the date listed above.	Contractor authorization signature	ALL
Section 1	Date 01/119	Arcelor Mittal Representative	Department	Section 2 Badge no.   Las	2											Shift start time	Shift end time		Section 3	ABW	BM	Section 4	I the undersigned the contractor en	Contractor autho	Printed name

NG WORKETS         tative must meet face to face with the Arcelon/littal         ted and any specific safety requirements.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The named contractor or work crew is cleared to perform the job described herein.         The name of the n	Il visiti       tor represer       to be perform       to be performed       to be perfor		ArcelorMittal		17 /19	12 Ethiopia 5		Yes N/A No											Yes N/A No		work 🔵 🚺				Responsible Person				a the state to make				1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	siderations with the
1 form for all visiting workers         re job site, a contractor representative must meet face to face with the Arcelon/littal discuss the work to be performed and any specific sefety requirements.         The named contractor representative must meet face to face with the Arcelon/littal discuss the work to be performed and any specific sefety requirements.         The name domination representative must meet contractor or work cervis iclared to perform // performed and incomination representative department.         Arcelon/littal representative phone number       (linic)         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any procedure?         and known?       210 could someone be caught in or between any could someone be caught in	On form for all visitil         It the job site, a contractor represer         and discuss the work to be perform         65       7966-837         100       procedure?         11       Production hazards         12       Production hazards       Production         12       Production hazards		Arc		91		1 280 9 - N 2	Start a the role root.	thing?	rom height?	one else?		11 10 10 10 10 10 10 10 10 10 10 10 10 1	vel to and from the job)?		a program and the	(tools, PPE, mobile	Permits		37) Confined space	38) Energized electrical	39) Excavation / drilling	40) Hot work	41) Other	LN .	a a log in an	2018 - 1							have reviewed these con:
1 form for all visiting workers         re job site, a contractor representative must meet face to face with the Arce of discuss the work to be performed and any specific safety requirements.         re job site, a contractor representative departments         The named contractor or work crew is created or or work crew is created or discuss the work to be performed and any specific safety requirements.         ArcelonMittal representative departments         Ind known?       Yes         Ind known?       Yes         Ind known?       131 culd someone get in the original created performent to the contract or work crew is created and known?         Ind known?       131 culd someone get in the original created performent to the contract or control in the arcs in the created performent (motor control in the arcs in the created performent to the control in the arcs in the created performent to the control in the arcs in the created performent to the control in the arcs in the created performent to the control in the arcs in the created performent to the created performent to the control in the control in the created performent to the control in the created performent to the control in the control in the created performent to the control in the created performent to the created per	On form for all visitil         It the job site, a contractor represer         and discuss the work to be perform         65       7966-837         100       procedure?         11       Production hazards         12       Production hazards       Production         12       Production hazards		lorMittal	leared to perform the jo		486		가는 가는 가슴을 다 다.	aught in or between any	nurt as a result of a fall fr	nd/or strike me or some	trained for this job?	in place if needed?	n anything (including trav	pple been notified?	rexert ourselves?	inspected prior to use?	- ne - artiste	N/A		e	LS 🔵	ers		ing		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -				And			Manship" like manner. I
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