Work Order No.: 19H1944



August 30, 2019

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

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 20 sample(s) on 8/30/2019 10:50:00AM for the analyses presented in the following report as Work Order 19H1944.

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.

Carry Hadgala

Carey Gadzala Project Manager



Date:

Partial 8/30/2019

Friday, August 30, 2019

WORK ORDER SAMPLE SUMMARY

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 19H1944

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1944-01	011-Composite	011	08/29/2019 05:40	8/30/2019 10:50:00AM
19H1944-02	011-Grab	011	08/29/2019 05:40	8/30/2019 10:50:00AM
19H1944-03	001-Composite	001	08/29/2019 06:00	8/30/2019 10:50:00AM
19H1944-04	001-Grab	001	08/29/2019 06:00	8/30/2019 10:50:00AM
19H1944-05	031-Grab	031	08/30/2019 06:23	8/30/2019 10:50:00AM
19H1944-06	Mixed Liquor-Grab	Mixed Liquor	08/30/2019 06:25	8/30/2019 10:50:00AM
19H1944-07	J-Box-Grab	J-Box	08/30/2019 06:21	8/30/2019 10:50:00AM
19H1944-08	WWII-Grab	WWII	08/30/2019 06:58	8/30/2019 10:50:00AM
19H1944-09	Coldwell-Grab	Coldwell	08/30/2019 07:15	8/30/2019 10:50:00AM
19H1944-10	RSB FT Overflow-Grab	RSB FT Overflow	08/30/2019 07:19	8/30/2019 10:50:00AM
19H1944-11	RSB FT Influent-Grab	RSB FT Influent	08/30/2019 07:20	8/30/2019 10:50:00AM
19H1944-12	999-Grab	999	08/30/2019 07:29	8/30/2019 10:50:00AM
19H1944-13	BFTC-Grab	BFTC	08/30/2019 07:45	8/30/2019 10:50:00AM
19H1944-15	WAL-Grab	WAL	08/29/2019 08:01	8/30/2019 10:50:00AM
19H1944-16	CM1-Grab	CM1	08/30/2019 00:00	8/30/2019 10:50:00AM
19H1944-17	CM2-Grab	CM2	08/30/2019 00:00	8/30/2019 10:50:00AM
19H1944-18	CM6-Grab	CM6	08/30/2019 00:00	8/30/2019 10:50:00AM
19H1944-19	HM2-Grab	HM2	08/30/2019 00:00	8/30/2019 10:50:00AM
19H1944-20	HM3-Grab	HM3	08/30/2019 00:00	8/30/2019 10:50:00AM



Partial 8/30/2019

Friday, August 30, 2019 Date: Field Results Client: Arcelor Mittal USA, Inc. Work Order: 19H1944 **Client Project:** Daily 011-Grab Work Order/ID: 19H1944-02 Client Sample ID: 08/29/2019 05:40 **Sample Description:** 011 Sampled: Matrix: Aqueous Received: 08/30/2019 10:50 **Analyses** Result Units FLD_CL_TITR 0.00 mg/L 7.9 pH Units pН 001-Grab Work Order/ID: 19H1944-04 Client Sample ID: 001 **Sample Description:** Sampled: 08/29/2019 06:00 08/30/2019 10:50 Matrix: Aqueous Received: Result **Analyses** Units FLD CL TITR 0.00 mg/L pH Units pΗ 7.9 **Client Sample ID:** J-Box-Grab Work Order/ID: 19H1944-07 **Sample Description:** J-Box Sampled: 08/30/2019 06:21 08/30/2019 10:50 Aqueous Received: Matrix: **Analyses** Result Units 8.5 pН pH Units **Client Sample ID:** RSB FT Overflow-Grab Work Order/ID: 19H1944-10 **Sample Description:** RSB FT Overflow Sampled: 08/30/2019 07:19 Matrix: Received: 08/30/2019 10:50 Aqueous **Analyses** Result Units 8.9 pH Units pН 999-Grab Work Order/ID: 19H1944-12 **Client Sample ID:** Sample Description: 999 Sampled: 08/30/2019 07:29 08/30/2019 10:50 Matrix: Aqueous Received: **Analyses** Result Units 8.2 pH Units рΗ 002-Grab **Client Sample ID:** Work Order/ID: 19H1944-14 Sample Description: 002 Sampled: 08/29/2019 07:50 08/30/2019 10:50 Matrix: Aqueous Received: Result **Analyses** Units 8.3 рΗ pH Units WAL-Grab Client Sample ID: Work Order/ID: 19H1944-15 Sample Description: WAL Sampled: 08/29/2019 08:01 08/30/2019 10:50 Matrix: Aqueous Received: **Analyses** Result Units рΗ 8.9 pH Units



Partial 8/30/2019

Field Results Date: Friday, August 30, 2019



Arcelor Mittal USA, Inc. Client:

Daily **Client Project:**

011-Composite Work Order/ID: 19H1944-01 Client Sample ID: 011 Sampled: 08/29/2019 5:40 Sample Description:

oumpio Docompilom	•									00.20.20.0						
Matrix:	Aqueous							Received:		08/30/2019 10:50						
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed						
				Method: EI	PA 200.7 Re	ev 4.4		Analyst: RPL								
Total Recoverable Me	tals by ICP								Prep Date/	Time:08/30/2019 12:09						
Lead		eij	Α	ND	0.0033	0.0075	U	mg/L	1	08/30/2019 14:56						
Zinc		eij	Α	ND	0.0073	0.020	U	mg/L	1	08/30/2019 14:56						
				Method: SI	M 4500-CN	C/E-1999			Ar	alyst: ABG						
Total Cyanide									Prep Date/	Time: 08/30/2019 12:38						
Cyanide, Total		eij	Α	0.0027	0.0020	0.0050		mg/L	1	08/30/2019 14:58						
				Method: S	W-846 9014				Ar	alyst: ABG						
Free Cyanide									Prep Date/	Time:08/30/2019 11:42						
Free Cyanide			Α	ND		0.0062		mg/L	1	08/30/2019 14:33						
				Method: E	PA 350.1 Re	ev 2.0			Ar	alyst: ABG						
Nitrogen, Ammonia as	s N								Prep Date/	Time:08/30/2019 13:16						
Nitrogen, Ammonia (A	s N)	ei	Α	0.25	0.054	0.10		mg/L	1	08/30/2019 14:41						
				Method: S	M 2540 D-1	997			Ar	alyst: KMT						
Total Suspended Solid	ds								Prep Date/	Time: 08/30/2019 11:25						
Total Suspended Solid	is	eij	Α	1.9	1.0	1.0		mg/L	1	08/30/2019 13:10						



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 011-Grab
 Work Order/ID:
 19H1944-02

 Sample Description:
 011
 Sampled:
 08/29/2019
 5:40

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E		Analyst: KMT				
Oil & Grease (HEM) by SPE								Prep Date/T	ime:08/30/2019 07:54
Oil & Grease (HEM)	eij	Α	ND	1.4	5.0	U	mg/L	1	08/30/2019 13:49



Arcelor Mittal USA, Inc. Client:

Daily **Client Project:**

001-Composite Work Order/ID: 19H1944-03 Client Sample ID: **Sample Description:** 001 Sampled: 08/29/2019 6:00

Matrix: Aqueous								/ed:	08/30/2019 10:50
Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: El	PA 200.7 Re	v 4.4			An	alyst: RPL
Total Recoverable Metals by ICP								Prep Date/	Time: 08/30/2019 12:09
Lead	eij	Α	ND	0.0033	0.0075	U	mg/L	1	08/30/2019 15:01
Zinc	eij	А	ND	0.0073	0.020	U	mg/L	1	08/30/2019 15:01
			Method: SI	M 4500-CN	C/E-1999			An	alyst: ABG
Total Cyanide								Prep Date/	Time: 08/30/2019 12:38
Cyanide, Total	eij	А	0.0036	0.0020	0.0050		mg/L	1	08/30/2019 15:00
			Method: S\	W-846 9014				An	alyst: ABG
Free Cyanide								Prep Date/	Time: 08/30/2019 11:42
Free Cyanide		А	ND		0.0062		mg/L	1	08/30/2019 14:34
			Method: EI	PA 350.1 Re	v 2.0			An	alyst: ABG
Nitrogen, Ammonia as N								Prep Date/	Time: 08/30/2019 13:16
Nitrogen, Ammonia (As N)	ei	А	0.36	0.054	0.10		mg/L	1	08/30/2019 14:43
			Method: SI	W 2540 D-19	997			An	alyst: KMT
Total Suspended Solids								Prep Date/	Time: 08/30/2019 11:25
Total Suspended Solids	eij	А	2.2	1.0	1.0		mg/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 001-Grab
 Work Order/ID:
 19H1944-04

 Sample Description:
 001
 Sampled:
 08/29/2019
 6:00

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E		Analyst: KMT				
Oil & Grease (HEM) by SPE								Prep Date/Ti	me:08/30/2019 07:54
Oil & Grease (HEM)	eij	А	ND	1.4	5.0	U	mg/L	1	08/30/2019 13:49



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 031-Grab
 Work Order/ID:
 19H1944-05

 Sample Description:
 031
 Sampled:
 08/30/2019
 6:23

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: KMT				
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	A	4.0	1.0	1.0	m	ıg/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Mixed Liquor-Grab
 Work Order/ID:
 19H1944-06

 Sample Description:
 Mixed Liquor
 Sampled:
 08/30/2019
 6:25

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
	Method: SM 2540 F-1997 Analyst: DAT										
Settleable Solids								Prep Date/1	ime:08/30/2019 11:25		
Settleable Solids	i	Α	210	1.0	1.0	ml/	L	1	08/30/2019 11:25		
				Ana	alyst: KMT						
Total Suspended Solids								Prep Date/1	ime:08/30/2019 11:25		
Total Suspended Solids	eij	Α	2200	1.0	1.0	mg	/L	1	08/30/2019 13:10		



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 J-Box-Grab
 Work Order/ID:
 19H1944-07

 Sample Description:
 J-Box
 Sampled:
 08/30/2019
 6:21

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Ana	alyst:ABG			
Nitrogen, Ammonia as N								Prep Date/1	īme:08/30/2019 13:16
Nitrogen, Ammonia (As N)	ei	Α	0.29	0.054	0.10	mg	/L	1	08/30/2019 14:48
				Analyst: KMT					
Total Suspended Solids								Prep Date/1	ime:08/30/2019 11:25
Total Suspended Solids	eij	Α	12	1.0	1.0	mg	/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WWII-Grab
 Work Order/ID:
 19H1944-08

 Sample Description:
 WWII
 Sampled:
 08/30/2019
 6:58

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: ABG				
Total Cyanide								Prep Date/Ti	me: 08/30/2019 12:38
Cyanide, Total	eij	Α	0.032	0.0020	0.0050	mg/l	L	1	08/30/2019 15:05



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Coldwell-Grab
 Work Order/ID:
 19H1944-09

 Sample Description:
 Coldwell
 Sampled:
 08/30/2019
 7:15

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

7 1940040							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00/00/2010 10:0
Analyses	Certs	AT	Result	MDL	RL	Qual Units	s DF	Analyzed
			Method:	SM 4500-CN	C/E-1999		Ar	nalyst: ABG
Total Cyanide							Prep Date	Time: 08/30/2019 12:38
Cyanide, Total	eij	Α	0.16	0.0020	0.0050	mg/L	1	08/30/2019 15:06
			Method:	EPA 350.1 Re	ev 2.0		Ar	nalyst: ABG
Nitrogen, Ammonia as N							Prep Date	Time: 08/30/2019 13:16
Nitrogen, Ammonia (As N)	ei	Α	66	0.54	1.0	mg/L	1	08/30/2019 14:46
			Method:	SM 2540 D-19	997		Ar	nalyst: KMT
Total Suspended Solids							Prep Date	/Time:08/30/2019 11:25
Total Suspended Solids	eij	Α	48	1.0	1.0	mg/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 RSB FT Overflow-Grab
 19H1944-10

 Sample Description:
 RSB FT Overflow
 Sampled:
 08/30/2019
 7:19

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E		An	alyst: ABG			
Nitrogen, Ammonia as N Prep Date/Time: 08/30/2019 13:									
Nitrogen, Ammonia (As N)	ei	Α	7.4	0.054	0.10	m	ıg/L	1	08/30/2019 14:51
			Method: S		Analyst: KMT				
Total Suspended Solids Prep Date/Time: 08/30/2019 11:25									
Total Suspended Solids	eij	Α	12	1.0	1.0	m	ıg/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

Client Sample ID:RSB FT Influent-GrabWork Order/ID:19H1944-11Sample Description:RSB FT InfluentSampled:08/30/20197:20Matrix:AqueousReceived:08/30/201910:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: KMT				
Total Suspended Solids								Prep Date/T	ime: 08/30/2019 11:25
Total Suspended Solids	eij	Α	1700	1.0	1.0	mg/L	_	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 999-Grab
 19H1944-12

 Sample Description:
 999
 Sampled:
 08/30/2019
 7:29

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	A	2.0	1.0	1.0	n	ng/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 BFTC-Grab
 Work Order/ID:
 19H1944-13

 Sample Description:
 BFTC
 Sampled:
 08/30/2019
 7:45

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: §	SM 2540 D-1	997			Ana	lyst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	A 3	3	1.0	1.0	n	ng/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WAL-Grab
 Work Order/ID:
 19H1944-15

 Sample Description:
 WAL
 Sampled:
 08/29/2019
 8:01

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	A	11	1.0	1.0	m	ng/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM1-Grab
 Work Order/ID:
 19H1944-16

 Sample Description:
 CM1
 Sampled:
 08/30/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: §	SM 2540 D-1	997			Anal	lyst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	A 1	12	1.0	1.0	r	ng/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM2-Grab
 Work Order/ID:
 19H1944-17

 Sample Description:
 CM2
 Sampled:
 08/30/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	Α	19	1.0	1.0	n	ng/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM6-Grab
 Work Order/ID:
 19H1944-18

 Sample Description:
 CM6
 Sampled:
 08/30/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	A	10	1.0	1.0	m	ng/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM2-Grab
 Work Order/ID:
 19H1944-19

 Sample Description:
 HM2
 Sampled:
 08/30/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: §	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	Α :	32	1.0	1.0	m	ng/L	1	08/30/2019 13:10



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM3-Grab
 Work Order/ID:
 19H1944-20

 Sample Description:
 HM3
 Sampled:
 08/30/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/30/2019
 10:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: §	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:08/30/2019 11:25
Total Suspended Solids	eij	Α :	19	1.0	1.0	m	ng/L	1	08/30/2019 13:10

ANALYTE TYPES: (AT)

A,B = Target Analyte I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



8/30/2019

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

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

QCS = Quality Control Standard

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)

MDL: Minimum Detection Limit

Reporting Limit RL:

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.

Partial

Cooler ID: Default Cooler



8/30/2019

30/2019
_



Chain of Custody

ArcelorMittal Burns Harbor/Microbac Labs

Friday

Lab Work No: 19 H 19 44

* Date Obtained 8-30-19 ** Sample Date: 8-29-19

Location	Time	Sampler	Type	Preserved	Cooled	Containers			D	
moodingii			1 ype	i reserveu	Cooleu	Туре	Qty	Vol. (ml)	Parameters	Comments
011 **	05:40	00	Comp	No	Yes	Glass	1	4000		01
V	010.40		Grab	No	No	Plastic	1	125	рН	02
001 **	06:00		Comp	No	Yes	Glass	1	4000	NH3	03
	00100		Grab	No I	No	Plastic	1	125	рН	04
031 *	06:23		Grab	No	No	Plastic	1	1000	TSS	05
			Grab	No	No	Plastic	1	1000	BOD	V
Mixed Liquor *	06:25		Grab	No	No	Plastic	1	2000	TSS, Settling	06
J-Box *	06:21		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	07
DIW-131 *	JA-		Gráb	No	No	Plastic	1	125	рН	-
WWII *	06:58		Grab	No	No	Plastic	1	1000	Cn	08
Coldwell	07:15		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	09
RSB FT Overflow *	07:19		Grab	No	No	Plastic	2	1000	NH3, pH, TSS, Pb, Zn	10
RSB FT Influent *	07:20		Grab	No	No	Plastic	1	500	TSS	11
BFTD *	5-10		Grab	No	No	Plastic	1	500	TSS	S
999 *	07:29		Grab	No	No	Plastic	1	500	TSS, pH	12
BFTC *	07:45		Grab	No	No	Plastic	1	500	TSS	13
002 **	02:50		Grab	No	No	Plastic	1	125	Ha	14
WAL 1 **	08:01		Grab	No	No	Glass	1	1000	TSS, pH	15
WAL 2 **	5-17		Grab	No	No	Glass	1	1000	TSS, pH	-
WAL 3 **	08:01		Grab	No	No	Glass	1	1000	TSS, pH	-53
SWTP *		***	Grab	No	No	Plastic	15	1000	TSS	16-20

*** WPL is for previous sample date

**** Sample collected by Water Process personnel

No HM I+CM3

Relinquished by:

Received by:

Date: 8-30-19

Date: 8/30/13

Time: 08:10

Time: 8810

Env 5x Rev. 14 07/01/16 (TEK)

19H1944 Carey Gadzala ArcelorMittal - Burns Harbor, IN Daily 08/30/2019



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

Sample ID		рН	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188312	10: 187680	Date/Time of Analysis
Calibration	(4)(7)(6)		BAO	
CV	4/(1) 10	7.00	1748	8/29/19 0800
Slope		100.3		
ake 999		8.10		
ocation 001		7,73		
ocation 002		8.32		
ocation 011		7,70		
VAL 1		7,70		
VAL 2			 	
SWTP J-Box		8.59		
NW 131		0.71		
SB		9.03		
up- 00 Z_		8.33		
CV		7.01		
		7,701	- V	
	3-2			

Sample ID		рН		
Buffer ID:	4: 0.00	7.	Analyst	Date/Time of Analysis
Meter ID:	4. 185 909	188312	10: 187680	
Calibration	@10160	, ,	BAO	
CV	4/0/10	7.00	DHO	8/30/19 0800
Зюре				
ako 999		101.4		
ocation 001		7.92		
₌ocation 002		8.31		
ocation 011		7.93		
VAL 1		8.94		
VAL 2	<u> </u>	<u> </u>		
WTP J-Box		8.53		
NW 131		0.77		
ISIa		O C.I		
Pup- 017		8.86		
ĈV .		7.93		·
WWW. Control Commencer Continues on Control Co		7.01	V	
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William Control of the Control of th				

Microbac Laboratories, Inc. - Chicagoland Division Residual Chlorine - METHOD SM 4500-Cl I-2000 Arcelor Mittal /Burns Harbor NPDES

Meter ID: <i> 1311</i>	meter Residu	ual Chlorine Standard: A 90	77
lodine Reagent:	Acid R	Reagent:	
. SamuleID	Residual Chlorine	Analyst (* 1864)	Date/Fime of Analysis
C al Std 1	0.02 mg/L	BAO	8/30/19 0800
Cal Std 2	0:05 mg/L		
Cal Std 3			
Stope Black	0.00		
LCS 0.02 mg/L	0.05		
011	0.00		·
011 DUP	0.00		
001	0.00		
002	0.00		
003	0-00		
DUP 003	0.00	V	V

Meter ID:	F	Residual Chlorine Standard:	
lodine Reagent:	Α	cid Reagent:	
Sample ID	Residual Chlorine	Analyst	Date/Einerof Arralysis
Cal Std 1	0.02 mg/L		
Cal Std 2	0.05 mg/L		
Cal Std 3	0.1 mg/L		
Slope			
LCS 0.02 mg/L			
011			
011 DUP			
001			
002			
003			
DUP			

Meter ID:	R	esidual Chlorine Standard:	-
lodine Reagent: _	Ac	cid Reagent:	
Sample ID	Residual Chlorine	Apalyst	Uate/Time of Analysis
Cal Std 1	0.02 mg/L		
Cal Std 2	0.05 mg/L		
Cal Std 3	0.1 mg/L		
Slope			
LCS 0.02 mg/L			
011			
011 DUP			
001			
002			
003			
DUP			

Rurns Harbor

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ArcelorMittal	Form number 296649	47	Percent job complete	Job notes					6 5 6							is job capital work?	Yes				Section 6 I the undersigned have verified that contractor employees, hours, and date listed on the	e date and plant work location listed above. Job title	Date 8/3, 1/9
	Fon	Requisition number	2.	Billable equipment/subcontractors/material	Description	Hours/amt total	Description	Hours/amt total	Admir Colai	of the abbreviations.	TST	TM	have verified that contractor	urate, complete, valid for the orization signature									
	Contractor ref #/job #	= 20		Billable Total equipm	0	Oty	Q	Qt/	<u>Q</u>	Oty	Ω	Oty	Q	Qty	01	è	1	form for an explanation	PT	SU	Section 6 I the undersigned I	ArcelorMittal authorization	Printed name
	Contract	*	دي	LOT LDT		乒										10		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.	WW		Section 5 Work authorization	Jermit *	adecas
	ny name Lab S	PO number	r Sanpl	Craft ST.	TEC (C.									this sheet	Previous hours	Total hours to date	right of each abbrevia	Y Y	TIC	ally worked by	in teh	8
	Contractor company name	1	Description of work	First name	Brian							TOTAL STREET	l.		Total hours this sheet	Previ	Total hou	h craft in the box to the	INS	MI	DeCTION 4 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 data liced above.	Job title Service	120
nesheet	Shift Say	Hawar		T CATAL	0			CUL. HECE										I hours worked by eac	EN	FN	e hours recorded on the	ure Variation of the last of t	×
Contractor timesheet	30/19	Arcelor Mittal Representative	ent	2 . Last name	12 Oth			- d							Shift start time	Shift end time	,		8		4 ersigned attest that the	Contractor authorization signature	Printed name 64.
	Date	Arcelor	Department	Section 2 Badge no.	164042												:	Section 3	BĽ	BM	I the under	Contract	Printed name

307260 Daily work authorization form for all visiting workers

For each job, and before starting work at the job site, a contractor representative must meet face to face with the ArcelorMittal representative responsible for the work and discuss the work to be performed and any specific safety requirements.

Location and project/job description Envis

Section 2

Company contact/phone no

Company name M. crobac Labs

Section 1

ArcelorMittal Date 🛠 The named contractor or work crew is cleared to perform the jab described herein: Clinic pickup point_ ArcelorMittal representative phone number_ ArcelorMittal representative department_ ArcelorMittal representative Samples 8458-192 Gadrala

HIRAC-Lite	Yes	N/A	9			100			Yes	N/A	No
1) Are emergency evacuation areas identified and known?	7		7	0) Coulc	10) Could someone be caught in or between anything?	aught in or k	between any	thing?	•		b
2) Is there a current and valid isolation (LOTO) procedure?				1) Coulc	11) Could someone get hurt as a result of a fall from height?	hurt as a res	ult of a fall fr	om height?	•		岐
3) Will everyone apply a personal safety lock?			7	2) Can s	12) Can something fall and/or strike me or someone else?	nd/or strike	me or some	one else?	•		
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?	yees)?		7	3) Is eve	13) Is everyone properly trained for this job?	trained for	this job?				0
5) Are there potential hazards or high risk job steps?		0		4) Are f	14) Are flags and derails in place if needed?	in place if n	eeded?		(0
6) Do we have the correct tools for the job?				5) Can \	ve slip or trip or	n anything (i	ncluding tra	15) Can we slip or trip on anything (including travel to and from the job)?			
7) Is additional PPE required?			7	6) Have	16) Have all affected people been notified?	ople been no	otified?		Q.		0
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	.e)?	0	<u></u>	7) Can v	17) Can we strain or overexert ourselves?	rexert ourse	lves?		6		
9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?	control		1	8) Has e quipme	18) Has equipment been equipment, etc.)	inspected p	orior to use?	18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	•		
Other Hazards and Considerations for Discussion								Permits		ŀ	
Yes N/A No	Yes N/A No			Yes N/A	A No	Yes	N/A No		Y	Yes N/A	No
19) Pneumatic air tools & lines 🛑 🗀 🚅 24) Housekeeping		29) Scaffold work			33) Asbestos	П		37) Confined space	_		ф
20) Vehicle / mob equip traffic 📂 🧀 🖶 25) Production hazards 🚺		30) Explosives	SS		34) Noise	()		38) Energized electrical work	al work		d
21) Gas hazards-CO, CO2, etc. 🔵 🗀 🚰 26) Material handling		31) Barricades			35) Lasers	ers 🔵		39) Excavation / drilling	81		4
22) Hot process, metal, temp. 🛑 🗀 🚅 27) Crane and rigging		32) Radiation			36) Sewers	ers 🛑		40) Hot work	•		
23) Pressurized / steam pipe 🏻 🗪 🚾 128) Overhead work						e e	ÿ :(41) Other	•		4
Section 3		lierarchy of Cont	rols 1. E	limination	Hierarchy of Controls 1. Elimination 2. Substitution 3. Engineering 4. Administrative	. Engineering 4	. Administrative	5. PPE			
Nisiting worker name (print) Badge # Hazard #	Controls	rols		tespons	Responsible Person H	Hazard #		Controls	Respo	Responsible Person	rson
The second secon	2007										
10 to						a a			4		
15 B.War	to	uncoen	2	ずく	B						
17 Posser	154 cm	70	3	6.15						i.	
20 Vchicle	ic we	00 me	1							ē,	
				e							
and the second s											

My crew and I are familiar with the safety hazards/considerations for this job. We are prepared to perform the work in/a safe "workp/anship" like manner. I have reviewed these considerations with the ArcelorMittal representative named below.

Replacement rep/phone (Ensure form is fully completed prior to signing) Original to contractor, (1) copy to AreclorWittal representative ArcelorMittal representative 7 Contractor or crew leader 72 -

Controlled by Maintenance Administration Dept. Arcel 时知由多好的 1366。 2016-04-BH-DailyWorkAuthorization