

Work Order No.: 19H1388

August 22, 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 14 sample(s) on 8/22/2019 9:50:00AM for the analyses presented in the following report as Work Order 19H1388.

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



WORK ORDER SAMPLE SUMMARY

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 19H1388

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1388-01	011-Composite	011	08/21/2019 06:05	8/22/2019 9:50:00AM
19H1388-02	011-Grab	011	08/21/2019 06:05	8/22/2019 9:50:00AM
19H1388-03	001-Composite	001	08/21/2019 06:25	8/22/2019 9:50:00AM
19H1388-04	001-Grab	001	08/21/2019 06:25	8/22/2019 9:50:00AM
19H1388-05	Mixed Liquor-Grab	Mixed Liquor	08/22/2019 06:54	8/22/2019 9:50:00AM
19H1388-06	J-Box-Grab	J-Box	08/22/2019 06:50	8/22/2019 9:50:00AM
19H1388-07	RSB FT Overflow-Grab	RSB FT Overflow	08/22/2019 07:37	8/22/2019 9:50:00AM
19H1388-08	999-Grab	999	08/22/2019 07:47	8/22/2019 9:50:00AM
19H1388-09	002-Grab	002	08/21/2019 08:00	8/22/2019 9:50:00AM
19H1388-10	CM1-Grab	CM1	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-11	CM2-Grab	CM2	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-12	CM6 Grab	CM6	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-13	HM2-Grab	HM2	08/22/2019 00:00	8/22/2019 9:50:00AM
19H1388-14	HM3-Grab	HM3	08/22/2019 00:00	8/22/2019 9:50:00AM

Thursday, August 22, 2019

Date:



Client: Arcelor Mittal USA, Inc. Work Order: 19H1388 Client Project: Daily 19H1388-02 Client Sample ID: 011-Grab Work Order/ID: 19H1388-02 Sample Description: O11 Sampled: 08/21/2019 06:05 Matrix: Aqueous Result Units FLD_CL_TITR 0.00 mg/L PH 7.8 pH Units Client Sample ID: 001-Grab Work Order/ID: 19H1388-04 Sample Description: 001 Sampled: 08/21/2019 06:50 Matrix: Aqueous Reculved: 08/22/2019 09:50 Analyses Result Units FLD_CL_TITR 0.00 mg/L PH 7.9 pH Units Client Sample ID: J-Box-Grab Work Order/ID: 19H1388-06 Sample Description: J-Box Sampled: 08/22/2019 09:50 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units DH Units DP	Field Results		Date: Thurso	ay, August 22, 2019
Sample Description: 011 Sampled: 08/21/2019 06:05 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units FLD_CL_TITR 0.00 mg/L pH 7.8 pH Units Client Sample ID: 001-Grab Work Order/ID: 19H1388-04 Sample Description: 001 Sampled: 08/22/2019 09:50 Analyses Result Units FLD_CL_TITR 0.00 mg/L pH 7.9 pH Units Client Sample ID: J-Box-Grab Work Order/ID: 19H1388-06 Sample Description: J-Box Sampled: 08/22/2019 09:50 Analyses Received: 08/22/2019 09:50 Analyses Received: 08/22/2019 09:50 Analyses Received: 08/22/2019 09:50 Analyses Result Units pH 8.5 pH Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-07 Sample Description: </th <th></th> <th></th> <th>Work Order:</th> <th>19H1388</th>			Work Order:	19H1388
Analyses	Client Sample ID: Sample Description:	011	Sampled:	08/21/2019 06:05
FLD_CL_TITR 0.000 mg/L pH units Client Sample ID: 001-Grab Work Order/ID: 19H1388-04 Sample Description: 001 Sampled: 08/21/2019 06:25 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units FLD_CL_TITR 0.00 mg/L pH 7.9 pH Units Client Sample ID: J-Box-Grab Work Order/ID: 19H1388-06 Sample Description: J-Box Sampled: 08/22/2019 09:50 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Units pH 8.5 pH Units 19H1388-06 Sample Description: RSB FT Overflow-Grab Work Order/ID: 19H Units Client Sample ID: RSB FT Overflow-Grab Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 07:37 Matrix: Aqueous		Aqueous		
pH 7.8 pH Units Client Sample ID: 001-Grab Work Order/ID: 19H1388-04 Sample Description: 001 Sampled: 08/21/2019 08:25 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units FLD_CL_TITR 0.00 mg/L pH 7.9 pH Units Client Sample ID: J-Box Sampled: 08/22/2019 06:50 Sample Description: J-Box Sampled: 08/22/2019 09:50 Analyses Result Units Lient Sample ID: RSB FT Overflow-Grab Work Order/ID: 19H1388-07 Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Result Units pH 9.1 pH Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sample Description: 999 Sampled: 08/22/2019 09:50 Analyses Result Units pH				
Sample Description: 001 Sampled: 08/21/2019 06:25 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units FLD_CL_TITR 0.00 mg/L pH 7.9 pH Units Client Sample ID: J-Box-Grab Work Order/ID: 19H1388-06 Sample Description: J-Box Sampled: 08/22/2019 06:50 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Lient Sample ID: RSB FT Overflow-Grab Work Order/ID: 19H1388-07 Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Lient Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sample Description: 999 Sampled: 08/22/2019 09:50 Analyses Received: 08/22/2019 09:50 Client Sample ID: 002-Grab Work Order/ID: <td></td> <td></td> <td></td> <td></td>				
FLD_CL_TITR	Sample Description:	001	Sampled:	08/21/2019 06:25
FLD_CL_TITR 0.00 mg/L pH 7.9 pH Units Client Sample ID: J-Box Sampled: 08/22/2019 06:50 Sample Description: J-Box Sampled: 08/22/2019 09:50 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units pH 8.5 pH Units Client Sample ID: RSB FT Overflow-Grab Sampled: 08/22/2019 07:37 Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units pH 9.1 pH Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sampled: 08/22/2019 07:47 08/22/2019 09:50 Analyses Result Units DH 8.2 pH Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled:	Analyses		Result	Units
Client Sample ID: J-Box-Grab Work Order/ID: 19H1388-06 Sample Description: J-Box Sampled: 08/22/2019 06:50 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units DH 8.5 pH Units Client Sample ID: RSB FT Overflow-Grab Work Order/ID: 19H1388-07 Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units DH 9.1 pH Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sampled Description: 999 Sampled: 08/22/2019 07:47 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units DH 8.2 pH Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sampled: 08/21/2019 08:00 Matrix:			0.00	mg/L
Sample Description: J-Box Aqueous Sampled: 08/22/2019 06:50 Received: 08/22/2019 09:50 Analyses Result Units pH 8.5 pH Units Client Sample ID: RSB FT Overflow-Grab Work Order/ID: 19H1388-07 Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sample Description: 999 Sampled: 08/22/2019 07:47 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Received: 08/22/2019 09:50	рН		7.9	pH Units
pH 8.5 pH Units Client Sample ID: RSB FT Overflow-Grab Work Order/ID: 19H1388-07 Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units pH 9.1 pH Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sample Description: 999 Sampled: 08/22/2019 07:47 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Received: 08/22/2019 09:50	Sample Description:	J-Box	Sampled:	08/22/2019 06:50
pH 8.5 pH Units Client Sample ID: RSB FT Overflow-Grab Work Order/ID: 19H1388-07 Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units pH 9.1 pH Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sample Description: 999 Sampled: 08/22/2019 07:47 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Received: 08/22/2019 09:50	Analyses	·	Result	Units
Sample Description: RSB FT Overflow Sampled: 08/22/2019 07:37 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units pH 9.1 pH Units Client Sample ID: 999-Grab Work Order/ID: 19H1388-08 Sample Description: 999 Sampled: 08/22/2019 07:47 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units				
PH 9.1 pH Units	Sample Description:	RSB FT Overflow	Sampled:	08/22/2019 07:37
PH 9.1 pH Units	Analyses		Result	Units
Sample Description: 999 Sampled: 08/22/2019 07:47 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units pH 8.2 pH Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units				
pH 8.2 pH Units Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units	Sample Description:	999	Sampled:	08/22/2019 07:47
Client Sample ID: 002-Grab Work Order/ID: 19H1388-09 Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units	Analyses		Result	Units
Sample Description: 002 Sampled: 08/21/2019 08:00 Matrix: Aqueous Received: 08/22/2019 09:50 Analyses Result Units			8.2	pH Units
	Sample Description:	002	Sampled:	08/21/2019 08:00
	Analyses		Result	Units



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 011-Composite
 Work Order/ID:
 19H1388-01

 Sample Description:
 011
 Sampled:
 08/21/2019
 6:05

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

ΑT MDL RL Units DF **Analyses** Certs Result Qual Analyzed Method: EPA 200.7 Rev 4.4 Analyst: RPL **Total Recoverable Metals by ICP** Prep Date/Time: 08/22/2019 10:26 0.0033 0.0075 mg/L 08/22/2019 14:11 eij Α 0.0073 0.020 08/22/2019 14:11 Zinc Α 0.0086 mg/L eij



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 001-Composite
 Work Order/ID:
 19H1388-03

 Sample Description:
 001
 Sampled:
 08/21/2019
 6:25

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E	PA 200.7 Re	ev 4.4			An	alyst: RPL
Total Recoverable Metals by ICP								Prep Date/	Time: 08/22/2019 10:26
Lead	eij	Α	ND	0.0033	0.0075	U	mg/L	1	08/22/2019 14:16
Zinc	eij	А	ND	0.0073	0.020	U	mg/L	1	08/22/2019 14:16



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

Total Suspended Solids

 Client Sample ID:
 Mixed Liquor-Grab
 Work Order/ID:
 19H1388-05

 Sample Description:
 Mixed Liquor
 Sampled:
 08/22/2019
 6:54

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 F-19	97			An	alyst: DAT
Settleable Solids								Prep Date/	Time:08/22/2019 10:20
Settleable Solids	i	Α	170	1.0	1.0	r	nl/L	1	08/22/2019 11:20
			Method:	SM 2540 D-19	97			An	alyst: KMT
Total Suspended Solids								Prep Date/	Time: 08/22/2019 10:49

1.0

1.0

mg/L

08/22/2019 12:30

A 1800

eij



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 J-Box-Grab
 Work Order/ID:
 19H1388-06

 Sample Description:
 J-Box
 Sampled:
 08/22/2019
 6:50

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			An	alyst: KMT
Total Suspended Solids								Prep Date/	Time: 08/22/2019 10:49
Total Suspended Solids	eij	A	11	1.0	1.0	m	g/L	1	08/22/2019 12:30



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM1-Grab
 Work Order/ID:
 19H1388-10

 Sample Description:
 CM1
 Sampled:
 08/22/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

ΑT Result MDL RL Units DF **Analyses** Certs Qual **Analyzed** Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 08/22/2019 10:49 A 10 1.0 1.0 mg/L 08/22/2019 12:30 Total Suspended Solids eij



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM2-Grab
 Work Order/ID:
 19H1388-11

 Sample Description:
 CM2
 Sampled:
 08/22/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

ΑT Result MDL RL Units DF **Analyses** Certs Qual **Analyzed** Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 08/22/2019 10:49 08/22/2019 12:30 A 11 1.0 1.0 mg/L Total Suspended Solids eij



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM6 Grab
 Work Order/ID:
 19H1388-12

 Sample Description:
 CM6
 Sampled:
 08/22/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

ΑT Result MDL RL Units DF **Analyses** Certs Qual **Analyzed** Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 08/22/2019 10:49 A 10 1.0 1.0 mg/L 08/22/2019 12:30 Total Suspended Solids eij



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM2-Grab
 Work Order/ID:
 19H1388-13

 Sample Description:
 HM2
 Sampled:
 08/22/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

ΑT Result MDL RL Units DF **Analyses** Certs Qual **Analyzed** Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 08/22/2019 10:49 08/22/2019 12:30 A 14 1.0 1.0 mg/L Total Suspended Solids eij



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM3-Grab
 Work Order/ID:
 19H1388-14

 Sample Description:
 HM3
 Sampled:
 08/22/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/22/2019
 9:50

ΑT Result MDL RL Units DF **Analyses** Certs Qual **Analyzed** Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 08/22/2019 10:49 A 13 1.0 1.0 mg/L 08/22/2019 12:30 Total Suspended Solids eij

ANALYTE TYPES: (AT)

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

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

RL: Reporting Limit

RPD: Relative Percent Difference

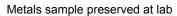
U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has

been adjusted for any dilution or concentration of the sample.

Cooler Receipt Log

Cooler ID: Default Cooler

Comments





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

Thursday

Lab Work No: 19H1388

* Date Obtained 8-22-19
** Sample Date: 8-21-19

Location	Time	Sampler	Туре	Preserved	Cooled	Containers			Donosanatasa	70
	7.1110	Campion	1,700	1 TCSCIVEG	Cooled	Туре	Qty	Vol. (ml)	Parameters	Comments
011 **	0/.00	00	Comp	No	Yes	Glass	1	4000		01
	00.00		Grab	No	No	Plastic	1	500	рН	52
001 **	N'25		Comp	No	Yes	Glass	1	4000		03
	100. N		Grab	No	No	Plastic	11	125	рН	04
Mixed Liquor *	06:54		Grab	No	No	Plastic	1	2000	TSS, Settling	05
DIW-131 *			Grab	No	No	Plastic	: 1	125	рН	
J-Box *	06:50		Grab	No	No	Plastic	1	1000	TSS, pH	06
RSB FT Overflow *	27:37		Grab	No	No	Plastic	1	125	На	07
999 *	07:47		Grab	No	No	Plastic	1	500	Hq	08
002 **	00:00		Grab	No	No	Plastic	1	125	pH	1 89
SWTP *	W	****	Grab	No	No	Plastic	75	1000	TSS	10-14

^{***} WPL is for previous sample date

No HMI+CM3

3.0 0I <u>-0.3</u> 2.7 °C

Relinquished by:

Received by:

Date: 8-22-19

Date: 8/22/19

Time: 08:15

Time: 0815

Env 4x Rev. 8 07/01/16 (TEK)

19H1388 Carey Gadzala ArcelorMittal - Burns Harbor, IN Thursday



^{****} Sample collected by Water Process personnel

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: 195909	7: 18831Z	10: 187680	
Calibration	(4) O 1 (a)		BAO	8/21/19 0800
ICV	4 10/ 10	6-99		
Slope		99-1		
Lake 999		8.22		
Location 001		7.90		
Location 002		8.41		
Location 011		7.90		
WAL 1		8,62		
WAL 2			i	
SWTP J-Box		8.73		
DIW 131				
RSB		8-86		
Dup- 002		8.42		
CCV		7.00	V	

Sample ID		рН	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	^{7:} 188312	10: 187680	
Calibration	(4)101G0		BAO	8/22/19 0750
icv	4/0/10	6.99		
Slope		98.3		
Lake 999		8.23		
Location 001		7.85		
Location 002		8.43		.:
Location 011		7.84		
WAL 1				
WAL 2				
SWTP J-Box		8.47		
DIW 131				
RSB		9-07		
Dup- 0 (!		7.85		
CCV		6.99	<u> </u>	<u> </u>

ME-3415

Microbac Laboratories, Inc. - Chicagoland Division

Total Residual Chlorine - Amperometric Titration - SM Method 4500-CI E - 2000 for Arcelor Mittal - Burns Harbor

	, ,					
Date/Time:	Date/Time: 8/22/19 0750	9.			STD ID / Lot #	Exp. Date
Analyst:	PA-0			KI Solution:	KI Solution: 146367	6/30/13
pH Paper Lot #:	pH Paper Lot #: / 1 162 6	Exp. Date		Acetate buffer: 146366	996941	2/25/20
LCS ID:	LCS ID: 49074	02/11		PAO Titrant:	8hE5h1	5/31/20
Sample	Sample Vol.		Titrant Start	Titrant Stop	Titrant Vol.	Result
Q	(mL)	pH (pH Units)	(mL)	(mL)	(mL)	(mg/L)
Blank	200	4.0	00.0	0.00	0.00	0.00
SO		4,0		0).0	0).0	0.10
Jutfall 001		4.0		00.0	0.00	0.0
Outfall 002		4.0		0.00	00.0	00.0
Outfall 003		4,0		00.0	0 0	0 %
Outfall 011		4.0		00.0	0.00	0.00
Outfall 01:1 Dup		4.0		00.0	0.00	00.0
Outfall 002 Dup	>	4.0	>	0.00	000	00.8

Date/Time:					STD ID / Lot #	Exp. Date
Analyst:				KI Solution:		
pH Paper Lot #:		Exp. Date		Acetate buffer:		
TCS ID:		,	,	PAO Titrant:		
Sample	Sample Vol.		Titrant Start	Titrant Stop	Titrant Vol.	Result
	(ml)	pH (pH Units)	(m)	(m)	(ml)	(ma/L)
Blank						
CS						
Outfall 001						and the same of th
Outfall 002						
Outfall 003						
Outfall 011						And the state of t
Outfall 011 Dup						

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

revision: a_01_2016

50 of 50

Burns Harbor Contractor timesheet

ArcelorMittal

8/22	19 SILL	COIII	Contractor company name		Labs	Contractor fer #/Job #	er #/Job #	91	74	rorm number		296628
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ection 3	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.	rked by each craft i	n the box to the rio	ght of each abbr	eviation. See re	verse side of fo	orm for an expl	anation of t	he abbreviations.		A CONTRACTOR	N.OKSEPSTA STATE
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ection 4			1 8		Section 5		Section 6					
the undersi	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.	corded on the times k location on the da	heet were actually te listed above.	worked by	Work authorization permit #	orization	I the unders timesheet a	igned have re accurate	verified that cont complete valid f	ractor employe or the date and	ees, hours, and I plant work loc	I the undersigned have verified that contractor employees, hours, and date listed on the timesheet are accurate, completed valid for the date and plant work location listed above.
ontractor a	Contractor authorization signature	Job title	ob title	7	-		ArcelorMitt	al authofiza	ArcelorMittal authorization signature	,	Job title	Ches in
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White - Contractor	ctor Canary - Contractor Pink - AM Receiver		Gold - AM Authorizer				6	Page	of of	1	2013-0	2013-08-BH-ContractorTimeSheet

Daily work authorization form for all visiting workers

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

Location and project/job description_ Company contact/phone no_ M. crobac Sam les ArcelorMittal representative phone number ArcelorMittal representative department ArcelorMittal representative The named contractor or work crew is cleared to perform the job described herein: Clinic pickup point Date Cell

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Section 2

Section 1

Company name_

2) Is there a current and valid isolation (LOTO) procedure?	l, radiation, laser, temperature)? electrical equipment (motor control cussion 724) Housekeeping 125) Production hazards 127) Crane and rigging 128) Overhead work Hazard # Cont 128 129 129 129 129 120 120 120 121 120 121 120 121 121 122 123 124 125 126 127 126 127 127 128 128 129 120 120 121 120 121 121 121	Scaffold Explosive Barricade Radiation Radiation		imination 2.5	ails in place if needed? Son anything (including people been notified? Swerexert ourselves? Seen inspected prior to use were assers Hazard #	g travel to and from the job) use? (tools, PPE, mobile Permits Permits		res N,
	4) Are there adjacent work crews exposed (including ArcelorMittal employees)? 5) Are there potential hazards or high risk job steps?		7	13) Is everyone prope	allu/or salke lile or s	Officolle cise:		
procedure:	5) Are there potential hazards or high risk job steps?		1	Tolio cici loud biob.	rry trained for this job	-0	þ	
11) Could solve 12) Can some 13) Is everyo	01 Do how the answer took for the into	1	1		ils in place if needed?			
ArcelorMittal employees)?	o) Do we have the correct tools for the Jobs		1		on anything (including	travel to and from the job)	9	
ArcelorMittal employees)?	7) Is additional PPE required?		7	16) Have all affected	people been notified?	State Wat 1840A	4	
ArcelorMittal employees)?	8) Is there a potential for exposure (chemical, radiation, laser, temperature)?			17) Can we strain or c	verexert ourselves?	a su spandande cam	9	
s)?	9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?		e 1	18) Has equipment be equipment, etc.)	en inspected prior to	use? (tools, PPE, mobile	•(
12) Can some 12) Can some 13) Is everyou 14) Are flags 15) Can we st 17) Can we st 18) Has equipment, equipment, e	Other Hazards and Considerations for Discussion			Sp. (march Sp. St.)	net Seath, Spire of a line of	Permits	A Thomas All	SY (45)
Arcelor/Wittal employees)? Ar	N/A No Yes N/A			N/A	N/A	- 6	Υ.	'es N,
ArcelorMittal employees)? ArcelorMittal employe	(a) (b) (24) Housekeeping (b) (c) (d)	Scaffold				37) Confined space		
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resonal safety lock? crews exposed (including Arcelor/Mittal employees)? derivations for high risk job steps? tools for the job? derivations for Discussion Ves N/A No 25) Production hazards ves N/A No 25) Production hazards badge # Badge # Hazard # Controls Line and the state of a land/or strike me or someone else? 12) Can we sip or trip on anything (including travel to and from the job)? 13) Is everyone properly trained for this job? 14) Are flags and derails in place if needed? 15) Can we slip or trip on anything (including travel to and from the job)? 16) Have all affected people been notified? 17) Can we strain or overexert ourselves? 18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment or overexert ourselves? 18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment or overexert ourselves? 18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment and figging of the plosives of the plosity of th					British Parhyth III P	STREET THE PRINCE OF		
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ArcelorMittal representative named below. My crew and I are familiar with the safety hazards/considerations for this job. We are prepared to perform the work in a safe "workmanship" like manner. I have reviewed these considerations with the

Contractor or crew leader_ (Ensure form is fully completed prior to signing)

Original to contractor, (1) copy to AreclorMittal representative ArcelorMittal representative 72

Replacement rep/phone_

Controlled by Maintenance Administration Dept. ArcelorMittal Burns Harbor 2016-04-BH-DailyWorkAuthorization