Work Order No.: 19H1057



August 16, 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 22 sample(s) on 8/16/2019 10:40:00AM for the analyses presented in the following report as Work Order 19H1057.

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 Hadzala

Carey Gadzala Project Manager



Date:

Partial 8/16/2019

Friday, August 16, 2019

WORK ORDER SAMPLE SUMMARY

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 19H1057

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1057-01	011-Composite	011	08/15/2019 06:00	8/16/2019 10:40:00AM
19H1057-02	011-Grab	011	08/15/2019 06:00	8/16/2019 10:40:00AM
19H1057-03	001-Composite	001	08/15/2019 06:15	8/16/2019 10:40:00AM
19H1057-04	001-Grab	001	08/15/2019 06:15	8/16/2019 10:40:00AM
19H1057-05	031-Grab	031	08/16/2019 06:34	8/16/2019 10:40:00AM
19H1057-06	Mixed Liquor-Grab	Mixed Liquor	08/16/2019 06:36	8/16/2019 10:40:00AM
19H1057-07	J-Box-Grab	J-Box	08/16/2019 06:36	8/16/2019 10:40:00AM
19H1057-08	WWII-Grab	WWII	08/16/2019 07:20	8/16/2019 10:40:00AM
19H1057-09	Coldwell-Grab	Coldwell	08/16/2019 07:35	8/16/2019 10:40:00AM
19H1057-10	RSB FT Overflow-Grab	RSB FT Overflow	08/16/2019 07:40	8/16/2019 10:40:00AM
19H1057-11	RSB FT Influent-Grab	RSB FT Influent	08/16/2019 07:41	8/16/2019 10:40:00AM
19H1057-12	BFTD-Grab	BFTD	08/16/2019 08:10	8/16/2019 10:40:00AM
19H1057-13	999-Grab	999	08/16/2019 08:00	8/16/2019 10:40:00AM
19H1057-14	BFTC-Grab	BFTC	08/16/2019 08:20	8/16/2019 10:40:00AM
19H1057-15	002-Grab	002	08/15/2019 08:30	8/16/2019 10:40:00AM
19H1057-16	WAL-Grab	WAL	08/15/2019 08:37	8/16/2019 10:40:00AM
19H1057-17	CM1-Grab	CM1	08/16/2019 00:00	8/16/2019 10:40:00AM
19H1057-18	CM2-Grab	CM2	08/16/2019 00:00	8/16/2019 10:40:00AM
19H1057-19	CM6-Grab	CM6	08/16/2019 00:00	8/16/2019 10:40:00AM
19H1057-20	HM1-Grab	HM1	08/16/2019 00:00	8/16/2019 10:40:00AM
19H1057-21	HM2-Grab	HM2	08/16/2019 00:00	8/16/2019 10:40:00AM
19H1057-22	HM3-Grab	HM3	08/16/2019 00:00	8/16/2019 10:40:00AM



Field Results		Date: Fri	Friday, August 16, 2019		
Client:	Arcelor Mittal USA, Inc.	Work Order:	19H1057		
Client Project:	Daily				
Client Sample ID:	011-Grab	Work Order/ID:	19H1057-02		
Sample Description:	011	Sampled:	08/15/2019 06:00		
Matrix:	Aqueous	Received:	08/16/2019 10:40		
Analyses		Result	Units		
рН		8.0	pH Units		
Client Sample ID:	001-Grab	Work Order/ID:	19H1057-04		
Sample Description:	001	Sampled:	08/15/2019 06:15		
Matrix:	Aqueous	Received:	08/16/2019 10:40		
Analyses		Result	Units		
pH		8.0	pH Units		
Client Sample ID:	J-Box-Grab	Work Order/ID:	19H1057-07		
Sample Description:	J-Box	Sampled:	08/16/2019 06:36		
Matrix:	Aqueous	Received:	08/16/2019 10:40		
Analyses		Result	Units		
pН		8.6	pH Units		
Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	19H1057-10		
Sample Description:	RSB FT Overflow	Sampled:	08/16/2019 07:40		
Matrix:	Aqueous	Received:	08/16/2019 10:40		
Analyses		Result	Units		
рН		8.9	pH Units		
Client Sample ID:	999-Grab	Work Order/ID:			
Sample Description:	999	Sampled:	08/16/2019 08:00		
Matrix:	Aqueous	Received:	08/16/2019 10:40		
Analyses		Result	Units		
рН		8.3	pH Units		
Client Sample ID:	002-Grab	Work Order/ID:	19H1057-15		
Sample Description:	002	Sampled:	08/15/2019 08:30		
Matrix:	Aqueous	Received:	08/16/2019 10:40		
Analyses		Result	Units		
рН		8.5	pH Units		
Client Sample ID:	WAL-Grab	Work Order/ID:	19H1057-16		
Sample Description:	WAL	Sampled:	08/15/2019 08:37		
Matrix:	Aqueous	Received:	08/16/2019 10:40		
Analyses		Result	Units		
pН		8.9	pH Units		



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 011-Composite
 Work Order/ID:
 19H1057-01

 Sample Description:
 011
 Sampled:
 08/15/2019
 6:00

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual Unit	s DF	Analyzed
			Ana	Analyst: ABG				
Total Cyanide							Prep Date/T	ime:08/16/2019 10:57
Cyanide, Total	eij	Α	0.24	0.0020	0.0050	mg/L	1	08/16/2019 13:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 001-Composite
 Work Order/ID:
 19H1057-03

 Sample Description:
 001
 Sampled:
 08/15/2019
 6:15

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E		Analyst: ABG				
Nitrogen, Ammonia as N									Time:08/16/2019 11:12
Nitrogen, Ammonia (As N)	ei	Α	0.71	0.054	0.10	mę	g/L	1	08/16/2019 12:53



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 031-Grab
 Work Order/ID:
 19H1057-05

 Sample Description:
 031
 Sampled:
 08/16/2019
 6:34

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids									me:08/16/2019 11:05
Total Suspended Solids	eij	A	4.6	1.0	1.0	m	g/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Mixed Liquor-Grab
 Work Order/ID:
 19H1057-06

 Sample Description:
 Mixed Liquor
 Sampled:
 08/16/2019
 6:36

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: S		Analyst: DAT					
Settleable Solids								Prep Date/	Time: 08/16/2019 11:00	
Settleable Solids	i	Α	260	1.0	1.0	ml/	L	1	08/16/2019 11:00	
	Method: SM 2540 D-1997 Analyst: KMT									
Total Suspended Solids Prep Date/Time: 08/16/2019 11:05										
Total Suspended Solids	eij	Α	2500	1.0	1.0	mg	/L	1	08/16/2019 12:40	



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 J-Box-Grab
 Work Order/ID:
 19H1057-07

 Sample Description:
 J-Box
 Sampled:
 08/16/2019
 6:36

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

							Receiv	, , , , , , , , , , , , , , , , , , , 	06/16/2019 10.40
Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E	PA 350.1 Re	v 2.0			An	alyst: ABG
Nitrogen, Ammonia as N								Prep Date/	Time: 08/16/2019 11:12
Nitrogen, Ammonia (As N)	ei	Α	0.11	0.054	0.10	mg	ı/L	1	08/16/2019 13:00
Total Bhanalian			Method: E	PA 420.4 Re	v 1.0				alyst: ABG
Total Phenolics								Prep Date/	Time: 08/16/2019 11:14
Phenolics, Total Recoverable	eij	Α	ND	0.0060	0.010	U mg	ı/L	1	08/16/2019 15:50
			Method: S	M 2540 D-19	97			An	alyst: KMT
Total Suspended Solids								Prep Date/	Time: 08/16/2019 11:05
Total Suspended Solids	eij	Α	12	1.0	1.0	mg	ı/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WWII-Grab
 Work Order/ID:
 19H1057-08

 Sample Description:
 WWII
 Sampled:
 08/16/2019
 7:20

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: ABG				
Total Cyanide								Prep Date/Ti	me:08/16/2019 10:57
Cyanide, Total	eij	Α	0.035	0.0020	0.0050	mg/L	-	1	08/16/2019 13:42



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Coldwell-Grab
 Work Order/ID:
 19H1057-09

 Sample Description:
 Coldwell
 Sampled:
 08/16/2019
 7:35

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method:	Analyst: ABG						
Nitrogen, Ammonia as N Prep Date/Time: 08/16/2019 11:13									Time: 08/16/2019 11:12	
Nitrogen, Ammonia (As N)	ei	Α	23	0.54	1.0	mg/l	L	1	08/16/2019 13:02	
		Method: SM 2540 D-1997 Ana								
Total Suspended Solids Prep Date/Time:08/16/2019 11:05										
Total Suspended Solids	eij	Α	61	1.0	1.0	mg/l	L	1	08/16/2019 12:40	



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Coldwell-Grab
 Work Order/ID:
 19H1057-09RE1

 Sample Description:
 Coldwell
 Sampled:
 08/16/2019
 7:35

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual Units	s DF	Analyzed
			Method: §	Analyst: ABG				
Total Cyanide							Prep Date/T	ime:08/16/2019 10:57
Cyanide, Total	eij	Α	0.54	0.010	0.025	mg/L	5	08/16/2019 13:52



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 RSB FT Overflow-Grab
 19H1057-10

 Sample Description:
 RSB FT Overflow
 Sampled:
 08/16/2019
 7:40

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E	Analyst: ABG					
Nitrogen, Ammonia as N Prep Date/Time: 08/16/2019 11:12									Time: 08/16/2019 11:12
Nitrogen, Ammonia (As N)	ei	Α	5.8	0.054	0.10	m	ng/L	1	08/16/2019 13:05
			Method: S	SM 2540 D-19	997			An	alyst: KMT
Total Suspended Solids Prep Date/Time: 08/16/2019 11:05									
Total Suspended Solids	eij	Α	29	1.0	1.0	n	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

Client Sample ID:RSB FT Influent-GrabWork Order/ID:19H1057-11Sample Description:RSB FT InfluentSampled:08/16/20197:41Matrix:AqueousReceived:08/16/201910:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Ana	lyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:08/16/2019 11:05
Total Suspended Solids	eij	Α	810	1.0	1.0	n	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 BFTD-Grab
 Work Order/ID:
 19H1057-12

 Sample Description:
 BFTD
 Sampled:
 08/16/2019
 8:10

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: KMT				
Total Suspended Solids								Prep Date	Time:08/16/2019 11:05
Total Suspended Solids	eij	А	49	1.0	1.0	m	g/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 999-Grab
 Work Order/ID:
 19H1057-13

 Sample Description:
 999
 Sampled:
 08/16/2019
 8:00

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids								Prep Date/Ti	me:08/16/2019 11:05
Total Suspended Solids	eij	A 3	86	1.0	1.0	m	g/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 BFTC-Grab
 Work Order/ID:
 19H1057-14

 Sample Description:
 BFTC
 Sampled:
 08/16/2019
 8:20

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids								Prep Date/Ti	me:08/16/2019 11:05
Total Suspended Solids	eij	Α	66	1.0	1.0	m	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WAL-Grab
 Work Order/ID:
 19H1057-16

 Sample Description:
 WAL
 Sampled:
 08/15/2019
 8:37

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:08/16/2019 11:05
Total Suspended Solids	eij	Α ,	5.0	1.0	1.0	m	ıg/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM1-Grab
 Work Order/ID:
 19H1057-17

 Sample Description:
 CM1
 Sampled:
 08/16/2019 0:00

 Matrix:
 Aqueous
 Received:
 08/16/2019 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:08/16/2019 11:05
Total Suspended Solids	eij	Α :	10	1.0	1.0	m	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM2-Grab
 Work Order/ID:
 19H1057-18

 Sample Description:
 CM2
 Sampled:
 08/16/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids								Prep Date/Ti	me: 08/16/2019 11:05
Total Suspended Solids	eij	Α :	10	1.0	1.0	n	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM6-Grab
 Work Order/ID:
 19H1057-19

 Sample Description:
 CM6
 Sampled:
 08/16/2019 0:00

 Matrix:
 Aqueous
 Received:
 08/16/2019 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:08/16/2019 11:05
Total Suspended Solids	eij	Α :	10	1.0	1.0	m	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM1-Grab
 Work Order/ID:
 19H1057-20

 Sample Description:
 HM1
 Sampled:
 08/16/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids								Prep Date/Ti	me:08/16/2019 11:05
Total Suspended Solids	eij	Α	13	1.0	1.0	n	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM2-Grab
 Work Order/ID:
 19H1057-21

 Sample Description:
 HM2
 Sampled:
 08/16/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids								Prep Date/Ti	me: 08/16/2019 11:05
Total Suspended Solids	eij	Α	12	1.0	1.0	n	ng/L	1	08/16/2019 12:40



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM3-Grab
 Work Order/ID:
 19H1057-22

 Sample Description:
 HM3
 Sampled:
 08/16/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/16/2019
 10:40

Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: KMT				
Total Suspended Solids	Prep Date/Time: 08/16/2019 11:05							Time:08/16/2019 11:05	
Total Suspended Solids	eij	Α	13	1.0	1.0	m	ıg/L	1	08/16/2019 12:40

ANALYTE TYPES: (AT)

A,B = Target Analyte
I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



Partial 8/16/2019

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

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.

Partial

Cooler ID: Default Cooler



8/16/2019

Cooley Increasion Charletet		8/16/2019
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

Friday

* Date Obtained ** Sample Date:

	T					8-7	679		/(0	0 10 0
Location	Time	Sampler	Туре	Preserved	Cooled	Containers			Parameters	Comments
						Type	Qty	Vol. (ml)	- arameters	Comments
011 **	06:00	00	Comp	No	Yes	Glass	1	4000		01
	00.00		Grab	No	No	Plastic	1	125	рН	02
001 **	06:15		Comp	No	Yes	Glass	1	4000	NH3	03
	20.73		Grab `	No	No	Plastic	1	125	pН	04
031 *	06:34		Grab	No	No	Plastic	1	1000	TSS	05
	<u> </u>		Grab	No	No	Plastic	1	1000	BOD	V
Mixed Liquor *	126:36		Grab	No	No	Plastic	1	2000	TSS, Settling	06
J-Box *	06:36		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	07
DIW-131 *	NA		Grab	No	No	Plastic	1	125	На	><
WWII *	07:20		Grab	No	No	Plastic	1	1000	Cn	08
Coldwell	07:35		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	09
RSB FT Overflow *	07:40		Grab	No	No	Plastic	2	1000	NH3, pH, TSS, Pb, Zn	To
RSB FT Influent *	07:41		Grab	No	No	Plastic	1	500	TSS	77
BFTD *	08:60		Grab	No	No	Plastic	1	500	TSS	[2
999 *	08:00		Grab	No	No	Plastic	7	#0 00	TSS, pH	13
BFTC *	08:20		Grab	No	No	Plastic	1	500	TSS	14
002 **	08:30		Grab	No	No	Plastic	1	125	На	15
WAL 1 **	08:31		Grab	No	No	Glass	2	1000	TSS, pH	16
WAL 2 **	5-0		Grab	No	No	Glass	1	1000	TSS, pH	16
WAL 3 **	08:37		Grab	No	No	Glass	1	1000	TSS, pH	
SWTP*		****	Grab	No	No	Plastic	76	1000	TSS	17- 22

*** WPL is for previous sample date

**** Sample collected by Water Process personnel

No cm 3

Relinquished by:

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

Carey Gadzala 19H1057 ArcelorMittal - Burns Harbor, IN Daily 08/16/2019



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	187680	
Calibration	(A)(7)(10)		482	8-15-19 0900
ICV	4 🗇 / 10	6.99		ſ
Slope .		99.3		<u> </u>
Lake 999		8,723		
Location 001		8,14		
Location 002		8,41		·
Location 011		8,06		
WAL 1	V-20	. 37 magling on the control of the c		
WAL 2		Market Committee	i	
SWTP J-Box		8.71		·
DIW 131	C STATE OF THE PARTY OF THE PAR			
RSB		8.87		
Dup- 180x		8,69		
CCV		7.01	Y	

Sample ID		pH	Analyst	Date/Time of Analysis
Buffer ID:	4: 185909	7: 188312	10: 187680	
Meter ID:				
Calibration	(4)1010		BAO	8/16/19 0830
ICV	4/10/10	7.00		
Slope		100.3		
Lake 999		8.33		
Location 001		8.01		
Location 002		8.45		
Location 011		8.00		
WAL 1		8.85		
WAL 2				
SWTP J-Box		8-62		
DIW 131	•	<u> </u>		
RSB		8.93		
Dup- <i>尺5</i> 分		8.92		
CCV		7.01	V	4
		,		

Total Residual Chlorine - Amperometric Titration - SM Method 4500-CI E - 2000

	#+0 / CI OTO
for Arcelor Mittal - Burns Harbor	
Ψ-	1

Date/Time:	Date/Time: 8/16/19 0830	0		:	STD ID / Lot #	Exp. Date
Analyst	BAA	•		KI Solution:	KI Solution: 17696	6/20/0
2 7 7 th # to 1 20 00 11	47626	Exp. Date		Acetate buffer. 12. 42/6	9/2021	(0/1/1/0)
pn rapel Lut #.	A4074	11/20		PAO Titrant:	PAO Titrant: 145348	2/31/50
Sample			Titrant Start	Titrant Stop	Titrant Vol.	Result (ma/L)
	(mL)	pH (pH Units)	(mL)	(1115)		
72010	200	20	0.00	00.0	0.00	00.00
- Call IA		4.0		0).0	0).0	0.10
		9 7		00.0	0.00	0 .00
Outfall 001		3 - 1		3 5	00.0	0000
Outfall 002		6,0				0.0
Outfall 003		6.0			000	
Outfall 011	٠					
Outfall 011 Dup				9 8	8	00.0
Outfall 802 Dup	>	4,0			7	

		i	1		ı		_
ехр. Date						Result	200
STD ID / Lot #						Titrant \/Ol	
	KI Solution:	 	Acetate buffer: _	DAO Titrant		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	litrant Stop
							Intrant Start
			Exp. Date				
							Sample Vol
Date/Time.	Cat	Analyst	TO Daner of #	p111 apol 100 a	LCS ID:		واستدن

					10// +====:1:1	Pacill
Sample	Sample Vol.	:	Titrant Start	litrant Stop	intant voi.	(mg/L)
<u>Q</u>	(ml)	pH (pH Units)	(m)	(1111)	//	
Blank	-					
TCS						
Outfall 001						
Outfall 002						
Ouffall 003						
Outfall 011						
Outfall 011 Dup						
Ouffall Dup						
	m lo/V elameS) / (m lo/V = 1	loV elample Vol	ml)		revi	revision: a_01_2016

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

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Burns Harbor

Contractor company name	ame / L c Contractor ref #/job #	Form number	00001
J			296614
the sand	nber	Requisition number 679897	
Description of work Water Sonple	les		Percent job complete
First name Craft ST	OT Total	Billable equipment/subcontractors/material	Job notes
Brian TEC	1	ID Description	. 12
		Qty Hours/amt total	
		ID Description	
		Qty Hours/amt total	
		ID Description	
		Qty Hours/amt total	
		ID Description	
	7 1885 · · · · · · · · · · · · · · · · · ·	Qty Hours/amt total	
		ID Description	1
		Qty. Hours/amt total	
Total hours this sheet		ID Description	this inh canital work?
Previous hours Total hours to date		Qty Hours/amt total	Yes No &
by each craft in the box to the right of eac	eviation. See reverse side of form for an	anation of the abbreviations.	
EL GLZ	JAN LIR PF	7 DEC 131	
	OE	TW L	
	Section 5		-
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.	Work authorization permit #	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.	s, hours, and date listed on the lant work location listed above.
Service 7	ceh ArcelorMit	Arcelor Mittal authorization signature	Job title Supervit
Date /(6/19	307237 Printed name	win Hawall	Date & // (19
Canary - Contractor Pink - AM Receiver Gold - AM Authorizer		Page of	2013-08-BH-Contractor TimeSheet