

Partial 8/20/2019

August 20, 2019

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

Work Order No.: 19H1137

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 22 sample(s) on 8/19/2019 10:45:00AM for the analyses presented in the following report as Work Order 19H1137.

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.



Partial 8/20/2019

WORK ORDER SAMPLE SUMMARY

Date:

Tuesday, August 20, 2019

Client:	Arcelor Mittal USA, Inc.
Project:	Daily
Lab Order:	19H1137

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1137-01	011-Composite	011	08/18/2019 06:00	8/19/2019 10:45:00AM
19H1137-02	011-Grab	011	08/18/2019 06:00	8/19/2019 10:45:00AM
19H1137-04	001-Composite	001	08/18/2019 06:20	8/19/2019 10:45:00AM
19H1137-05	001-Grab	001	08/18/2019 06:20	8/19/2019 10:45:00AM
19H1137-06	031-Grab	031	08/19/2019 06:43	8/19/2019 10:45:00AM
19H1137-07	Mixed Liquor-Grab	Mixed Liquor	08/19/2019 06:45	8/19/2019 10:45:00AM
19H1137-08	J-Box-Grab	J-Box	08/19/2019 06:41	8/19/2019 10:45:00AM
19H1137-09	WWII-Grab	WWII	08/19/2019 07:30	8/19/2019 10:45:00AM
19H1137-10	Coldwell-Grab	Coldwell	08/19/2019 07:45	8/19/2019 10:45:00AM
19H1137-11	RSB FT Overflow-Grab	RSB FT Overflow	08/19/2019 07:50	8/19/2019 10:45:00AM
19H1137-12	RSB FT Influent-Grab	RSB FT Influent	08/19/2019 07:51	8/19/2019 10:45:00AM
19H1137-13	999-Grab	999	08/19/2019 08:20	8/19/2019 10:45:00AM
19H1137-14	BFTC-Grab	BFTC	08/19/2019 08:35	8/19/2019 10:45:00AM
19H1137-15	002-Grab	002	08/18/2019 07:40	8/19/2019 10:45:00AM
19H1137-16	WAL-Grab	WAL	08/18/2019 08:50	8/19/2019 10:45:00AM
19H1137-17	CM1-Grab	CM1	08/19/2019 00:00	8/19/2019 10:45:00AM
19H1137-18	CM2-Grab	CM2	08/19/2019 00:00	8/19/2019 10:45:00AM
19H1137-19	CM6-Grab	CM6	08/19/2019 00:00	8/19/2019 10:45:00AM
19H1137-20	HM1-Grab	HM1	08/19/2019 00:00	8/19/2019 10:45:00AM
19H1137-21	HM2-Grab	HM2	08/19/2019 00:00	8/19/2019 10:45:00AM
19H1137-22	HM3-Grab	HM3	08/19/2019 00:00	8/19/2019 10:45:00AM



Partial 8/20/2019

Field Results		Date: Tuesd	ay, August 20, 2019
Client:	Arcelor Mittal USA, Inc.	Work Order:	19H1137
Client Project:	Daily		
Client Sample ID:	011-Grab	Work Order/ID:	19H1137-02
Sample Description:	011	Sampled:	08/18/2019 06:00
Matrix:	Aqueous	Received:	08/19/2019 10:45
Analyses		Result	Units
FLD_CL_TITR		0.00	mg/L
рН		7.9	pH Units
Client Sample ID:	001-Grab	Work Order/ID:	19H1137-05
Sample Description:	001	Sampled:	08/18/2019 06:20
Matrix:	Aqueous	Received:	08/19/2019 10:45
Analyses		Result	Units
pH		7.9	pH Units
Client Sample ID:	J-Box-Grab	Work Order/ID:	19H1137-08
Sample Description:	J-Box	Sampled:	08/19/2019 06:41
Matrix:	Aqueous	Received:	08/19/2019 10:45
Analyses		Result	Units
pH		8.5	pH Units
Client Sample ID: Sample Description: Matrix:	RSB FT Overflow-Grab RSB FT Overflow Aqueous	Work Order/ID: Sampled: Received:	19H1137-11 08/19/2019 07:50 08/19/2019 10:45
Analyses		Result	Units
pH		8.9	pH Units
Client Semple ID:	999-Grab	Work Order/ID:	19H1137-13
Client Sample ID:	999-GIAD 999		08/19/2019 08:20
Sample Description: Matrix:	Aqueous	Sampled: Received:	08/19/2019 10:45
	Aqueous		
Analyses pH		Result 8.2	Units pH Units
рп		0.2	ph Onits
Client Sample ID:	002-Grab	Work Order/ID:	19H1137-15
Sample Description:	002	Sampled:	08/18/2019 07:40
Matrix:	Aqueous	Received:	08/19/2019 10:45
Analyses		Result	Units
рН		8.3	pH Units
Client Sample ID:	WAL-Grab	Work Order/ID:	19H1137-16
Sample Description:	WAL	Sampled:	08/18/2019 08:50
		-	30, 10, 2010 00.00
 Matrix:	Aqueous	Received:	08/19/2019 10:45
	Aqueous	Received: Result	08/19/2019 10:45 Units

Microbac Laboratories, Inc.

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





Date:

Tuesday, August 20, 2019

Analytical Re	sults							Date:	Tuesc	lay, August 20, 2019
Client: Client Project:	Arcelor Mittal US Daily	A, Inc.								
Client Sample ID:	011-Composite							Work (Order/ID:	19H1137-01
Sample Description:	011							Sample	ed:	08/18/2019 6:00
Matrix:	Aqueous							Receiv	red:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: EI	PA 200.7 Re	v 4.4			Ana	alyst: RPL
Total Recoverable Met	tals by ICP								Prep Date/1	Time:08/19/2019 11:20
Lead		eij	Α	ND	0.0033	0.0075	U	mg/L	1	08/20/2019 9:16
Zinc		eij	Α	0.0079	0.0073	0.020	J	mg/L	1	08/20/2019 9:16
				Method: El	PA 350.1 Re	v 2.0			Ana	alyst: ABG
Nitrogen, Ammonia as	5 N								Prep Date/1	Time:08/19/2019 11:02
Nitrogen, Ammonia (A	s N)	ei	Α	0.23		0.10		mg/L	1	08/19/2019 13:59
				Method: SI	M 2540 D-19	997			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/1	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	3.6	1.0	1.0		mg/L	1	08/19/2019 12:42

Analytical Re	sults						[Date:	Tuesc	lay, August 20, 2019
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID:	011-Grab							Work	Order/ID:	19H1137-02
Sample Description:	011							Samp		08/18/2019 6:00
Matrix:	Aqueous							Receiv	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	EPA 1664B				Ana	alyst: KMT
Oil & Grease (HEM) by	y SPE								Prep Date/1	ime:08/19/2019 07:30
Oil & Grease (HEM)		eij	Α	1.8	1.4	5.0		mg/L	1	08/19/2019 13:43

Analytical Re	sults						[Date:	Tueso	day, August 20, 2019
Client:	Arcelor Mittal US	A, Inc.								
Client Project:	Daily									
Client Sample ID:	001-Composite							Work	Order/ID:	19H1137-04
Sample Description:	001							Samp	ed:	08/18/2019 6:20
Matrix:	Aqueous							Receiv	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	EPA 350.1 F	Rev 2.0			Ana	alyst: ABG
Nitrogen, Ammonia as	s N								Prep Date/	Time:08/19/2019 11:02
Nitrogen, Ammonia (As N)		ei	Α	0.38		0.10		mg/L	1	08/19/2019 14:02

Analytical Re	sults						D	ate:	Tuesc	lay, August 20, 2019
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	031-Grab 031							Work Samp	Order/ID:	19H1137-06 08/19/2019 6:43
Matrix:	Aqueous							Receiv		08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Soli	ds								Prep Date/1	īme:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	3.2	1.0	1.0	r	ng/L	1	08/19/2019 12:42

Analytical Re	sults						Da	ate:	Tueso	day, August 20, 2019
Client: Client Project:	Arcelor Mittal USA Daily	, Inc.								
Client Sample ID:	Mixed Liquor-Grab)						Work	Order/ID:	19H1137-07
Sample Description:	Mixed Liquor							Samp	ed:	08/19/2019 6:45
Matrix:	Aqueous							Receiv	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: S	SM 2540 F-19	97			An	alyst: DAT
Settleable Solids									Prep Date/	Time:08/19/2019 11:21
Settleable Solids		i	Α	180	1.0	1.0	m	/L	1	08/19/2019 11:21
				Method: S	SM 2540 D-19	97			An	alyst: KMT
Total Suspended Solid	ds								Prep Date/	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	A	2000	1.0	1.0	m	g/L	1	08/19/2019 12:42

Analytical Re	sults						Da	ate:	Tues	day, August 20, 2019
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID:	J-Box-Grab							Work	Order/ID:	19H1137-08
Sample Description:	J-Box							Samp	ed:	08/19/2019 6:41
Matrix:	Aqueous							Receiv	/ed:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: EF	PA 350.1 Re	ev 2.0			An	alyst: ABG
Nitrogen, Ammonia as	s N								Prep Date/	Time:08/19/2019 11:02
Nitrogen, Ammonia (A	s N)	ei	A	0.29		0.10	m	g/L	1	08/19/2019 14:04
				Method: EF	PA 420.4 Re	ev 1.0			An	alyst: ABG
Total Phenolics									Prep Date/	Time:08/19/2019 10:59
Phenolics, Total Reco	verable	eij	Α	ND	0.0060	0.010	Um	g/L	1	08/19/2019 15:54
				Method: SI	M 2540 D-19	997			An	alyst: KMT
Total Suspended Soli	ds								Prep Date/	Time: 08/19/2019 11:27
Total Suspended Solid	ds	eij	Α	11	1.0	1.0	m	g/L	1	08/19/2019 12:42

Analytical Re	sults						[Date:	Tueso	day, August 20, 2019
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID:	WWII-Grab								Order/ID:	19H1137-09
Sample Description: Matrix:	WWII Aqueous							Sampl Receiv		08/19/2019 7:30 08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 4500-CN	C/E-1999			Ana	alyst: ABG
Total Cyanide									Prep Date/	Time:08/19/2019 10:59
Cyanide, Total		eij	Α	0.015	0.0020	0.0050		mg/L	1	08/19/2019 14:41

Analytical Re	sults						Date:	Tues	day, August 20, 2019
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.							
Client Sample ID:	Coldwell-Grab						Work	Order/ID:	19H1137-10
Sample Description:	Coldwell						Samp	led:	08/19/2019 7:45
Matrix:	Aqueous						Rece	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual Units	DF	Analyzed
				Method:	EPA 200.7 Re	ev 4.4		An	alyst: RPL
Total Recoverable Me	tals by ICP							Prep Date/	Time:08/19/2019 11:20
Lead		eij	Α	0.15	0.0033	0.0075	mg/L	1	08/20/2019 9:22
Zinc		eij	A	1.1	0.0073	0.020	mg/L	1	08/20/2019 9:22
				Method:	SM 4500-CN	C/E-1999		An	alyst: ABG
Total Cyanide								Prep Date/	Time:08/19/2019 10:59
Cyanide, Total		eij	Α	0.50	0.0020	0.0050	mg/L	1	08/19/2019 14:42
				Method:	EPA 350.1 Re	ev 2.0		An	alyst: ABG
Nitrogen, Ammonia as	s N							Prep Date/	Time:08/19/2019 11:02
Nitrogen, Ammonia (A	s N)	ei	Α	33		1.0	mg/L	1	08/19/2019 14:07
				Method:	SM 2540 D-19	997		An	alyst: KMT
Total Suspended Soli	ds								Time:08/19/2019 11:27
Total Suspended Solid		eij	Α	73	1.0	1.0	mg/L	1	08/19/2019 12:42

Analytical Re	sults						Da	ate:	Tuesc	day, August 20, 2019
Client: Client Project:	Arcelor Mittal USA Daily	A, Inc.								
Client Sample ID:	RSB FT Overflow	-Grab						Work O	rder/ID:	19H1137-11
Sample Description:	RSB FT Overflow							Sample	d:	08/19/2019 7:50
Matrix:	Aqueous							Receive	ed:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: E	PA 200.7 Re	v 4.4			Ana	alyst: RPL
Total Recoverable Met	tals by ICP								Prep Date/	Time:08/19/2019 11:20
Lead		eij	Α	0.092	0.0033	0.0075	m	g/L	1	08/20/2019 9:26
Zinc		eij	A	0.37	0.0073	0.020	m	g/L	1	08/20/2019 9:26
				Method: E	PA 350.1 Re	v 2.0			Ana	alyst: ABG
Nitrogen, Ammonia as	5 N								Prep Date/	Time:08/19/2019 11:02
Nitrogen, Ammonia (A	s N)	ei	Α	6.6		0.10	m	g/L	1	08/19/2019 14:09
				Method: S	M 2540 D-19	97			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/	Time: 08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	24	1.0	1.0	m	g/L	1	08/19/2019 12:42

Analytical Re					0	ate:	Tuesday, August 20, 201			
Client: Client Project:	Arcelor Mittal USA, Daily	Inc.								
Client Sample ID:	RSB FT Influent-Gra	ab						Work	Order/ID:	19H1137-12
Sample Description: Matrix:	RSB FT Influent Aqueous							Sampl Receiv		08/19/2019 7:51 08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: S	M 2540 D-19	97			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/1	īme:08/19/2019 11:27
Total Suspended Solid	st	eij	Α	10000	1.0	1.0	r	ng/L	1	08/19/2019 12:42

Analytical Re	D	ate:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID:	999-Grab							Work	Order/ID:	19H1137-13
Sample Description:	999							Sampl	ed:	08/19/2019 8:20
Matrix:	Aqueous							Receiv	/ed:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/T	ïme:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	3.9	1.0	1.0	n	ng/L	1	08/19/2019 12:42

Analytical Re	0)ate:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID:	BFTC-Grab BFTC								Order/ID:	19H1137-14 08/19/2019 8:35
Sample Description: <u>Matrix:</u>	Aqueous							Samp Receiv		08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	43	1.0	1.0	r	ng/L	1	08/19/2019 12:42

Analytical Re	D	ate:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	WAL-Grab WAL							Samp		19H1137-16 08/18/2019 8:50
Matrix:	Aqueous							Receiv	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/T	ïme:08/19/2019 11:27
Total Suspended Solid	ls	eij	A	9.6	1.0	1.0	n	ng/L	1	08/19/2019 12:42

Analytical Re	D)ate:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	CM1-Grab CM1							Work Samp	Order/ID: led:	19H1137-17 08/19/2019 0:00
Matrix:	Aqueous							Receiv	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Soli	ds								Prep Date/1	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	11	1.0	1.0	r	ng/L	1	08/19/2019 12:42

Analytical Re	0	Date:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	CM2-Grab CM2							Samp		19H1137-18 08/19/2019 0:00
Matrix:	Aqueous							Receiv	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	12	1.0	1.0	r	ng/L	1	08/19/2019 12:42

Analytical Re	0)ate:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US	SA, Inc.								
Client Sample ID: Sample Description:	CM6-Grab CM6							Samp		19H1137-19 08/19/2019 0:00
Matrix:	Aqueous							Receiv	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	11	1.0	1.0	r	ng/L	1	08/19/2019 12:42

Analytical Re	D	ate:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	HM1-Grab							Work Samp	Order/ID:	19H1137-20 08/19/2019 0:00
Matrix:	Aqueous							Receiv		08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Soli	ds								Prep Date/1	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	17	1.0	1.0	r	ng/L	1	08/19/2019 12:42

Analytical Re	0	Date:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	HM2-Grab							Work Samp	Order/ID:	19H1137-21 08/19/2019 0:00
Matrix:	Aqueous							Receiv		08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Solid	ds								Prep Date/	Time:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	13	1.0	1.0	r	mg/L	1	08/19/2019 12:42

Analytical Re	0	Date:	Tuesday, August 20, 2019							
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	HM3-Grab HM3							Samp		19H1137-22 08/19/2019 0:00
Matrix:	Aqueous							Recei	ved:	08/19/2019 10:45
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Total Suspended Soli	ds								Prep Date/1	īme:08/19/2019 11:27
Total Suspended Solid	ls	eij	Α	12	1.0	1.0	r	ng/L	1	08/19/2019 12:42

A,B = Target Analyte I = Internal Standard

- M = Summation Analyte
- S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

MICROBAC[®]



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

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)

J: MDL:	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. 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	Temp: 5.0°C
Cooler Inspection	Checklist	
Ice Present or no	ot required?	Yes
Shipping contain	ers sealed or not required?	Yes
Custody seals in	tact or not required?	Yes
Chain of Custody	(COC) Present?	Yes
COC includes cu	stomer information?	Yes
Relinquished and	d received signature on COC?	Yes
Sample collector	identified on COC?	Yes
Sample type ider	ntified on COC?	Yes
Correct type of C	containers Received	Yes
Correct number of	of containers listed on COC?	Yes
Containers Intact	t?	Yes
COC includes re	quested analyses?	Yes
Enough sample	volume for indicated tests received?	Yes
Sample labels m	atch COC (Name, Date & Time?)	Yes
Samples arrived	within hold time?	Yes
Correct preserva	tives on COC or not required?	Yes
Chemical preser	vations checked or not required?	Yes
Preservation che	cks meet method requirements?	Yes
VOA vials have z	ero headspace, or not recd.?	Yes

Page ArcelorMittal

30

Chain of Custody ArcelorMittal Burns Harbor/Microbac Labs

Monday

Lab Work No: 1941137

* Date Obtained ** Sample Date:

Location	Time	Sampler	Туре	Preserved	Cooled	Containers			Parameters	Commente
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	110001100	000100	Туре	Qty	Vol. (ml)	Parameters	Comments
	06:00	CV	Comp	No	Yes	Glass	2	4000	NH3, TSS, Zn, Pb	01
011 **	6	(Grab	No	No	Plastic	1	500	pH. Tot Res Cl	OZ
	1.00		Grab	Yes	No	Glass	2	1000	FOG (prepreserved)	+ 03 DUP
001 **	06:20		Comp	No	Yes	Glass	1	4000	NH3	04
	10.20		Grab	No	No	Plastic	1	125	рН	05
031 *	06:43		Grab	No	Yes	Plastic	1	1000	TSS	66
	00.43		Grab	No	No	Plastic	1	1000	BOD	+
Mixed Liquor *	06:45		Grab	No	No	Plastic	1	2000	TSS, Settling	67
J-Box *	Ob:Ul		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	08
DIW-131 *	IA		Grab	No	No	Plastic	1	125	Hq	
WWII *	07:30		Grab	No	No	Plastic	1	1000	Cn	09
Coldwell *	07:45		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	10
RSB FT Overflow *	07:50		Grab	No	No	Plastic	2	1000	NH3, pH, TSS, Pb, Zn	11
RSB FT Influent *	07:51		Grab	No	No	Plastic	1	500	TSS	72
BFTD *	5-2		Grab	No	No	Plastic	1	500	TSS	
999 *	18:20		Grab	No	No	Plastic	1	500	TSS, pH	/3
BFTC *	08:35		Grab	No	No	Plastic	1	500	TSS	14
002 **	08:40		Grab	No	No	Plastic	1	125	Hq	15
WAL 1 **	08:50		Grab	No	No	Glass	2	1000	TSS, pH	16
WAL 2 **	5-2		Grab	No	No	Glass	1	1000	TSS, pH	
WAL 3 **	08:50	· ·	Grab	No	No	Glass	1	1000	TSS, pH	
SWTP *	M	***	Grab	No	No	Plastic	6	1000	TSS	17-22-

**** Sample collected by Water Process personnel

5:3 -03 5:0°C OI

Relinquished by: Received by

Date: 8 Date: 8-19-19

Time: 09:00 Time: 0960

Env 1x Rev. 14 07/01/16 (TEK)

NO CM-3

19H1137 Carey Gadzala ArcelorMittal - Burns Harbor, IN Daily 08/19/2019



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

4: 185909	pH7:	Analyst	Date/Time of Analysis
4: 185909	17.		
	188312	10: 187680	(
	100.516		
		P80-	8-14-14 0835
4/5/10	6.99		
	8.33		
	7.89		
	8,81		
· · · · · · · · · · · · · · · · · · ·			
	8,49		
	,		
	8,93		
	8.21		
	7.01		-
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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				
WAL 2				
SWTP J-Box				
DIW 131				
RSB				
Dup-				
CCV				
	,			·
				μ.

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Microbac Laboratories, Inc. - Chicagoland Division

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

for Arcelor Mittal - Burns Harbor

	×					
Data (Timo:	Ditrition & Of 19 0900				STD ID / Lot #	Exp. Date
	14			KI Solution:	143367	6/25/19
Paner l of # エレンタン	H 1/26	Exp. Date		Acetate buffer:	129216	FF 12/01
	10510 49074	11/20		PAO Titrant: <u>ァ </u>	545	
Samola	Samole Vol		Titrant Start	Titrant Stop	Titrant Vol.	Result
	(mL)	pH (pH Units)	(mL)	(mL)	(mL)	(mg/L)
	202	1,0	0 : ¢0	<i>ø</i> . <i>ø</i>	Q. CO	6.00
Blank	}		·	0.08	0.03	0.08
ILCS				0.00	\$.00 \$	0,50
Outfall 001		1,0				00
Outfall 002		4.C		00.0)	
		27° 0		0.00	0.00	5.00
				8	0.00	0,00
Outfall 011		10.4		2		
Outfall 011 Dup						
Outfall oc 1 Dup	Ì	Ú.S	\rightarrow	00.00	000	
	0-10-10 002				STD ID / Lot #	Exp. Date
	01			KI Solution:	KI Solution: 14367	6-30-19
Analyst	130	(Acetate huffer [4/23(a.to	1410 7 100	7-25-20

Analyst:	Analyst: Ac				-) /	
		Evn Date		Acetate buffer: 14 6 3 6 6	46360	1- 62- 64
pH Paper Lot #. H) し くし	エ)のへの				84011.	<-21-20
LCS ID:	LCS ID: 49674	11-20			PAU litrant. 145.373	
					Titront Vol	Result
Cample	Sample Vol		Titrant Start	l itrant stop		
Calible		nH (nH [Inits)	(ml)	(ml)	(ml)	(mg/L)
UI II	(1111)		X	(к (
	0 0 0	40	Э	0.00	5,00	
DIGUK	-				0.000	0.06
ll CS		4.2				
		40		00.00	0.00	0.20
Outfall 001						2 2 2
		4		0.00	0.00	0.00
	-					
Outfall 003		40		0.00	0.00	
		0		Q ₹	0.00	0.00
Outfall 011		Ŧ	ŗ)).		
Out Off						
			4	() (((0.00
Outfall 002 Dup	ş	4 2	A.))		
	0.1	0 ml) / (Sample Vol. mL)	mL)		revis	revision: a_01_2016

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

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307238 Daily work authorization form for all visiting workers	ອ ຊ	orke	S					1
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.	tative m led and	any spec	t face l ific saf	tative must meet face to face with the ArcelorM ed and any specific safety requirements.	ittal		ArcelorMittal	a
Section 1 Company name MicLons AC		The name ArcelorM	d contr ittal rep	The named contractor or work crew is cleared to perform the job described herein: ArcelorMittal representative しんかい しんしょう	to perform the joh	b described herein:	er on son	putor (
Company contact/phone no CANEY CAS2AUA 214769 Location and project/job description たいいこの Sci) C	8228	ArcelorM	ittal rep ittal rep	ArcelorMittal representative department ArcelorMittal representative phone number	E-0 +	Date 8/15 Cell	115	
Test	Q "				-	Clinic pickup point		~
HIRAC-Lite	Yes	N/A N	No				Yes N/A	No
1) Are emergency evacuation areas identified and known?	ġ		F	10) Could someone be caught in or between anything?	in or between anyt	thing?		Ì
2) Is there a current and valid isolation (LOTO) procedure?	Ø		1.	11) Could someone get hurt as a result of a fall from height?	s a result of a fall fr	om height?		•
3) Will everyone apply a personal safety lock?			1	12) Can something fall and/or strike me or someone else?	strike me or somed	one else?		ø
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?	٥			13) Is everyone properly trained for this job?	ed for this job?	4		٥
5) Are there potential hazards or high risk job steps?				14) Are flags and derails in place if needed?	ce if needed?	V		١
6) Do we have the correct tools for the job?	À		17 17	15) Can we slip or trip on anything (including travel to and from the job)?	hing (including trav	/el to and from the job)? -		Ø
7) Is additional PPE required?	٥	2		16) Have all affected people been notified?	een notified?			
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	٥			17) Can we strain or overexert ourselves?	t ourselves?			ø
9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?				18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	ected prior to use?	(tools, PPE, mobile		
Other Hazards and Considerations for Discussion						Permits		
Yes N/A No Yes N/A	No		7	Yes N/A No	Yes N/A No		Yes N/A	A No
	(62-4	29) Scaffold work	work (🌗 🛄 🔔 33) Asbestos		· 37) Confined space		
20) Vehicle / mob equip traffic 🔎 🛄 💼 25) Production hazards 🕒 🗔	30)	30) Explosives	s	🔰 🚺 14) Noise) 	38) Energized electrical work	ork	þ
	31)	31) Barricades	s	🌗 🛄 🚰 35) Lasers		39) Excavation / drilling		
	32)	32) Radiation	_	a 26) Sewers		40) Hot work		ģ
	Þ	10. 10. 10.	1					
	Hiera	Hierarchy of Controls	÷	<u> </u>	ering 4. Administrative	ъ	Deconomible	
Theophyse prince prince page + nazaru +	COLIFICIES		÷.	hesponsible reison nazaru #	+	CONTROLS		
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	2						- 101160 - 12	
							101-102	
	1							
								1
My crew and I are familiar with the safety hazards/considerations for this job. We ar		red to per	form th	e work in a safe "workmans	hip" like manner. I l	e prepared to perform the work in a safe "workmanship" like manner. I have reviewed these considerations with the	erations with	the
Contractor or crew leader	represe	representative \mathcal{O}	C	and hours a	Replacement rep/phone	rep/phone		
prior to signing) Original to contractor, (1) copy to A	reclorMi	ttal repres	entative		d by Maintenance	Controlled by Maintenance Administration Dept. Arcelo머예면의 용안내와Por	PARER BAR	fHa9Bor
						2016-04-BH-DailyWorkAuthorization	lyWorkAutho	rization

ArcelorMittal	296621		Percent job complete	Job notes	T											is job capital work?	Yes No				ees, hours, and date listed on the plant work location listed above.	Job title	-
	Form number	Requisition number 079959		Billable equipment/subcontractors/material	Description	Hours/amt total	Description	Hours/amt total	Description	Hours/amt total	Description	Hours/amt total	Description	Hours/amt total	Description	International Internationa International International Int		of the abbreviations.		TM	DECTION 6 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	Arcelor Mittal authorization signature	Haral
				Billable	<u>_</u>	Gł	<u>Ω</u>	QtA	0	Qty	<u>0</u>	Qty	Q	Qty	<u>_</u>	ł	<u><u></u></u>	explanation	PT	SU	n 6 Idersigned h eet are accui	Mittal autho	hame
	Contractor ref #/job #		4	- Total	1						1				1	0	1	form for an		:	Section 6 I the under timesheet a	Arcelor	Printed name
5	Contract		5	DT														everse side of	MM	- OE) orization		1238
	1117 111		11	D	8	4		3		1		1		-				ition. See re			Section 3 Work authorization permit #		307
	2011-2 11 16 15	PO number	122		l		TEC.							20	ļ	0	-	ICh abbrevia	LA		l by	1,1	
			×	Craft	1 <u>a</u>		4 - 1 - 1					100			this sheet	Previous hours	Total hours to date	e right of ea			ally worked	ENVICE	A
	Contractor company name	A	Description of work	First name	14-1										Total hours this sheet	Prev	Total hou	each craft in the box to the	INS	IW	n the timesheet were actu n on the date listed above.	Job title	Date 8-19-19
	17 Shift Day	epresentative Huvar	0	Last name	GUCHWASTEN			아마라 좋다			U 1.1.1 2.1.1				Shift start time	Shift and time		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. $ CL = CL $			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	V
Sertion]	Date [19]		Department	Section 2 Badge no.	174244 (2					Shift et	Chift a		Section 3 ABW	BL	Sartion 1	I the undersigned the contractor e	Contractor auth	Printedname