Work Order No.: 19H0562



August 28, 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 15 sample(s) on 8/9/2019 11:15:00AM for the analyses presented in the following report as Work Order 19H0562.

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



Wednesday, August 28, 2019

Date:

WORK ORDER SAMPLE SUMMARY

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 19H0562

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H0562-01	011-Composite	011	08/08/2019 06:00	8/9/2019 11:15:00AM
19H0562-02	011-Grab	011	08/08/2019 06:00	8/9/2019 11:15:00AM
19H0562-03	001-Composite	001	08/08/2019 11:15	8/9/2019 11:15:00AM
19H0562-04	001-Grab	001	08/08/2019 11:15	8/9/2019 11:15:00AM
19H0562-05	031-Grab	031	08/09/2019 06:40	8/9/2019 11:15:00AM
19H0562-06	Mixed Liquor-Grab	Mixed Liquor	08/09/2019 06:42	8/9/2019 11:15:00AM
19H0562-07	J-Box-Grab	J-Box	08/09/2019 06:38	8/9/2019 11:15:00AM
19H0562-08	WWII-Grab	WWII	08/09/2019 07:20	8/9/2019 11:15:00AM
19H0562-09	Coldwell-Grab	Coldwell	08/09/2019 07:50	8/9/2019 11:15:00AM
19H0562-10	RSB FT Overflow-Grab	RSB FT Overflow	08/09/2019 08:15	8/9/2019 11:15:00AM
19H0562-11	RSB FT Influent-Grab	RSB FT Influent	08/09/2019 08:16	8/9/2019 11:15:00AM
19H0562-12	999-Grab	999	08/09/2019 08:00	8/9/2019 11:15:00AM
19H0562-13	BFTC-Grab	BFTC	08/09/2019 08:20	8/9/2019 11:15:00AM
19H0562-14	002-Grab	002	08/08/2019 08:27	8/9/2019 11:15:00AM
19H0562-15	WAL-Grab	WAL	08/09/2019 08:34	8/9/2019 11:15:00AM



Field Results		Date: Wednesd	ay, August 28, 2019
Client:	Arcelor Mittal USA, Inc.	Work Order:	19H0562
Client Project:	Daily		
Client Sample ID:	011-Grab	Work Order/ID:	19H0562-02
Sample Description:	011	Sampled:	08/08/2019 06:00
Matrix:	Aqueous	Received:	08/09/2019 11:15
Analyses		Result	Units
рН		7.8	pH Units
Client Sample ID:	001-Grab	Work Order/ID:	19H0562-04
Sample Description:	001	Sampled:	08/08/2019 11:15
Matrix:	Aqueous	Received:	08/09/2019 11:15
Analyses		Result	Units
pH		7.8	pH Units
Client Sample ID:	J-Box-Grab	Work Order/ID:	19H0562-07
Sample Description:	J-Box	Sampled:	08/09/2019 06:38
Matrix:	Aqueous	Received:	08/09/2019 11:15
Analyses		Result	Units
рН		8.4	pH Units
Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	19H0562-10
Sample Description:	RSB FT Overflow	Sampled:	08/09/2019 08:15
Matrix:	Aqueous	Received:	08/09/2019 11:15
Analyses		Result	Units
рН		9.0	pH Units
Client Sample ID:	999-Grab	Work Order/ID:	19H0562-12
Sample Description:	999	Sampled:	08/09/2019 08:00
Matrix:	Aqueous	Received:	08/09/2019 11:15
Analyses		Result	Units
pH		8.3	pH Units
Client Sample ID:	002-Grab	Work Order/ID:	19H0562-14
Sample Description:	002	Sampled:	08/08/2019 08:27
Matrix:	Aqueous	Received:	08/09/2019 11:15
Analyses		Result	Units
рН		8.5	pH Units
Client Sample ID:	WAL-Grab	Work Order/ID:	19H0562-15
Sample Description:	WAL	Sampled:	08/09/2019 08:34
Matrix:	Aqueous	Received:	08/09/2019 11:15
Analyses		Result	Units
pН		8.8	pH Units



CASE NARRATIVE Date: Wednesday, August 28, 2019

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 19H0562

Report has been reissued to include NH4 for Outfall 011 per the clients request. 8/28/19



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 011-Composite
 Work Order/ID:
 19H0562-01

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

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: EPA 350.1 Rev 2.0 Analyst: ABG Prep Date/Time: 08/22/2019 04:56 Nitrogen, Ammonia as N A 0.22 0.054 0.10 mg/L 08/22/2019 10:42 Nitrogen, Ammonia (As N) ei



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 001-Composite
 Work Order/ID:
 19H0562-03

 Sample Description:
 001
 Sampled:
 08/08/2019 11:15

 Matrix:
 Aqueous
 Received:
 08/09/2019 11:15

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Analyst: ABG					
Nitrogen, Ammonia as N								Prep Date/Tir	me: 08/09/2019 11:39
Nitrogen, Ammonia (As N)	ei	Α	0.42	0.054	0.10	mg/	L	1	08/09/2019 13:57



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 031-Grab
 Work Order/ID:
 19H0562-05

 Sample Description:
 031
 Sampled:
 08/09/2019
 6:40

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: S	M 5210 B-20	01			Ana	alyst: EF
Biochemical Oxygen Demand								Prep Date/T	ime:08/09/2019 15:42
Biochemical Oxygen Demand	eij	Α	ND	2.0	2.0	U	mg/L	1	08/14/2019 23:39
			Method: S	M 2540 D-19	97			Ana	alyst: KMT
Total Suspended Solids	tal Suspended Solids Prep Date/Time: 08/09/2019 11:38								ime:08/09/2019 11:38
Total Suspended Solids	eij	Α	3.6	1.0	1.0		mg/L	1	08/09/2019 13:16



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Mixed Liquor-Grab
 Work Order/ID:
 19H0562-06

 Sample Description:
 Mixed Liquor
 Sampled:
 08/09/2019
 6:42

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: S	M 2540 F-19	97			An	alyst: DAT	
Settleable Solids								Prep Date/	Time: 08/09/2019 11:46	
Settleable Solids	i	Α	270	1.0	1.0	ml	/L	1	08/09/2019 11:46	
	Method: SM 2540 D-1997 Analyst: KMT									
Total Suspended Solids Prep Date/Time: 08/09/2019 11:38										
Total Suspended Solids	eij	Α	2300	1.0	1.0	mg	J/L	1	08/09/2019 13:16	



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 J-Box-Grab
 Work Order/ID:
 19H0562-07

 Sample Description:
 J-Box
 Sampled:
 08/09/2019
 6:38

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Matrix: Aqueous						Rec	eived:	08/09/2019 11:1
Analyses	Certs	ΑT	Result	MDL	RL	Qual Unit	s DF	Analyzed
			Method: I	Ar	Analyst: ABG			
Nitrogen, Ammonia as N							Prep Date	/Time: 08/09/2019 11:39
Nitrogen, Ammonia (As N)	ei	Α	0.17	0.054	0.10	mg/L	1	08/09/2019 13:59
			Method:	EPA 420.4 Re	v 1.0		Ar	nalyst: ABG
Total Phenolics							Prep Date	/Time: 08/09/2019 11:39
Phenolics, Total Recoverable	eij	А	0.015	0.0060	0.010	mg/L	1	08/09/2019 15:19
			Method:	SM 2540 D-19	97		Ar	nalyst: KMT
Total Suspended Solids							Prep Date	/Time: 08/09/2019 11:38
Total Suspended Solids	eij	Α	13	1.0	1.0	mg/L	1	08/09/2019 13:16



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WWII-Grab
 Work Order/ID:
 19H0562-08

 Sample Description:
 WWII
 Sampled:
 08/09/2019
 7:20

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

	1:::::									
Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
		Method: SM 4500-CN C/E-1999								
Total Cyanide								Prep Date/Ti	ime:08/09/2019 11:39	
Cyanide, Total	eij	A 0.0	013	0.0020	0.0050	mg	/L	1	08/09/2019 16:41	



08/09/2019 13:16

Analytical Results Date: Wednesday, August 28, 2019

Client: Arcelor Mittal USA, Inc.

Client Project: Daily

Total Suspended Solids

 Client Sample ID:
 Coldwell-Grab
 Work Order/ID:
 19H0562-09

 Sample Description:
 Coldwell
 Sampled:
 08/09/2019
 7:50

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Campic 2000mpmom								
Matrix: Aqueous						Rece	ved:	08/09/2019 11:18
Analyses	Certs	ΑT	Result	MDL	RL	Qual Units	DF	Analyzed
			Method:	EPA 200.7 Re	ev 4.4		Ar	nalyst: RPL
Total Recoverable Metals by ICP							Prep Date	Time: 08/11/2019 09:38
Lead	eij	Α	0.14	0.0033	0.0075	mg/L	1	08/12/2019 15:58
Zinc	eij	Α	0.66	0.0073	0.020	mg/L	1	08/12/2019 15:58
			Method:	SM 4500-CN	C/E-1999		Ar	nalyst: ABG
Total Cyanide							Prep Date	Time: 08/09/2019 11:39
Cyanide, Total	eij	Α	0.022	0.0020	0.0050	mg/L	1	08/09/2019 16:43
			Method:	EPA 350.1 Re	ev 2.0		Ar	nalyst: ABG
Nitrogen, Ammonia as N							Prep Date	Time: 08/09/2019 11:39
Nitrogen, Ammonia (As N)	ei	Α	42	0.54	1.0	mg/L	1	08/09/2019 14:06
			Method:	SM 2540 D-19	997		Ar	nalyst: KMT
Total Suspended Solids								/Time: 08/09/2019 11:38

1.0

1.0

mg/L

130

eij



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 RSB FT Overflow-Grab
 Work Order/ID:
 19H0562-10

 Sample Description:
 RSB FT Overflow
 Sampled:
 08/09/2019
 8:15

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Matrix:	Aqueous					Re	ceived:	08/09/2019 11:15
Analyses	Certs	ΑT	Result	MDL	RL	Qual Un	its DF	Analyzed
			Method: I	EPA 200.7 Re	v 4.4		A	nalyst:RPL
Total Recoverable Metals	s by ICP						Prep Date	/Time:08/11/2019 09:38
Lead	eij	Α	0.16	0.0033	0.0075	mg/L	1	08/12/2019 16:03
Zinc	eij	Α	0.44	0.0073	0.020	mg/L	1	08/12/2019 16:03
			Method:	EPA 350.1 Re	v 2.0		Α	nalyst: ABG
Nitrogen, Ammonia as N							Prep Date	/Time:08/09/2019 11:39
Nitrogen, Ammonia (As N) ei	Α	6.1	0.054	0.10	mg/L	1	08/09/2019 14:09
Method: SM 2540 D-1997							A	nalyst: KMT

			Method: S		Analyst: KMT			
Total Suspended Solids							Prep Date	Time: 08/09/2019 11:38
Total Suspended Solids	eij	Α	170	1.0	1.0	mg/L	1	08/09/2019 13:16



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 RSB FT Influent-Grab
 Work Order/ID:
 19H0562-11

 Sample Description:
 RSB FT Influent
 Sampled:
 08/09/2019
 8:16

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Analyst: KMT					
Total Suspended Solids				Prep Date/1	Time:08/09/2019 11:38				
Total Suspended Solids	eij	Α	760	1.0	1.0	mg/L	-	1	08/09/2019 13:16



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 999-Grab
 Work Order/ID:
 19H0562-12

 Sample Description:
 999
 Sampled:
 08/09/2019
 8:00

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids				Prep Date	Time: 08/09/2019 11:38				
Total Suspended Solids	eij	Α	6.7	1.0	1.0	m	g/L	1	08/09/2019 13:16



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 BFTC-Grab
 Work Order/ID:
 19H0562-13

 Sample Description:
 BFTC
 Sampled:
 08/09/2019
 8:20

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Ar	nalyst: KMT
Total Suspended Solids								Prep Date	Time: 08/09/2019 11:38
Total Suspended Solids	eij	Α	52	1.0	1.0	mg	g/L	1	08/09/2019 13:16



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WAL-Grab
 Work Order/ID:
 19H0562-15

 Sample Description:
 WAL
 Sampled:
 08/09/2019
 8:34

 Matrix:
 Aqueous
 Received:
 08/09/2019
 11:15

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:08/09/2019 11:38
Total Suspended Solids	eij	Α .	5.2	1.0	1.0	m	ng/L	1	08/09/2019 13:16

ANALYTE TYPES: (AT)

A,B = Target Analyte I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



Revised 8/28/2019

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.

Cooler ID: Default Cooler



8/28/2019

Cooler Inspection Checklist		8/28/2019
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

Lab Work No: 1940562

* Date Obtained ** Sample Date:

Location	Time	Sampler	Туре	Preserved	Cooled	Containers			D	Ī.,
	11110			1 1CSCIVCU	Coolea	Type	Qty	Vol. (ml)	Parameters	Comments
011 **	06:00	(a)	Comp	No	Yes	Glass	1	4000		01
	46.00	1	Grab	No	No	Plastic	1	125	рН	02
001 **	26:20		Comp	No	Yes	Glass	1	4000	NH3	03
	10,00		Grab	No	No	Plastic	1	125	рН	04
031 *	06:40		Grab	No	No	Plastic	1	1000	TSS	05
			Grab	No	No	Plastic	1	1000	BOD	V
Mixed Liquor *	06:42		Grab	No	No	Plastic	1	2000	TSS, Settling	06
J-Box *	06:38		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	07
DIW-131 *	NA		Grab	No	No	Plastic	1	125	рН	X
WWII *	07:20		Grab	No	No	Plastic	1	1000	Cn	08
Coldwell	02:50		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	09
RSB FT Overflow *	08:15		Grab	No	No	Plastic	2	1000	NH3, pH, TSS, Pb, Zn	10
RSB FT Influent *	08:16		Grab	No	No	Plastic	1	500	TSS	17
· BFTD *	5-0		Grab	No	No	Plastic	1	500	TSS	×
999 *	08:00		Grab	No	No	Plastic	1	500	TSS, pH	12
BFTC *	08:20		Grab	No	No	Plastic	1	500	TSS	13
002 **	08:27		Grab	No	No	Plastic	1	125	На	14
WAL 1 **	08:39		Grab	No	No	Glass	1	1000	TSS, pH	15
WAL 2 **	50		Grab	No	No	Glass	1	1000	TSS, pH	'\
WAL 3 **	08:39		Grab	No	No	Glass	1	1000	TSS, pH	\Rightarrow
SWTP *	NA	****	Grab	No	No	Plastic	10	1000	TSS	

*** WPL is for previous sample date

**** Sample collected by Water Process personnel

No comst HM,

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

19H0562 Carey Gadzala ArcelorMittal - Burns Harbor, IN Daily 08/09/2019



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: 185 909	7: 188312	10: 187680	
Calibration	(910108		BAO	8/9/14 0800
icv	4 1(1) 1 10	6.99		
Slope		100.2		
Lake 999	,	8.34		
Location 001		7.76		
Location 002		8.46	·	
Location 011		7.78		
WAL 1		8,79		
WAL 2	· <u></u>		į.	
SWTP J-Box		8.43		
DIW 131				
RSB		9.00		
Dup- WAL		8.78		-
CCV		7.00		
Coldwell		7.98	Ψ	V

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				
			,	

Microbac Laboratories, Inc. - Chicagoland Division

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

Analyst: AAO PH Paper Lot #: HT626 LCS ID: A 9074 Sample Sample Vol. ID ID (mL)				91010101	Exp. Jale
			KI Solution:	KI Solution: /46367	61/02/9
	Exp. Date		Acetate buffer: 12 9216	129216	10/11/19
	02/11		PAO Titrant	PAO Titrant: 145348	5/31/26
		Titrant Start	Titrant Stop	Titrant Vol.	Result
	pH (pH Units)	(mL)	(mL)	(mL)	(mg/L)
Blank 200	4,0	00.00	0.00	0.00	00.00
l l	4.0	•	ho-0	D-04	0.04
Outfall 001	4.0		00.0	0.00	00.0
Outfall 002	40		0.00	0.00	0.00
Outfall 003	4.0		0.00	00.0	0.00
Outfall 011					
Outfall 011 Dup					
Outfall 20 3 Dup	4.0	>	0.00	0.00	0.00

Date/Time:	0080 6/6/8	100			STD ID / Lot #	Exp. Date
Analyst	1740			KI Solution:	Ki Solution: 146367	6/30/18
pH Paper Lot #: HJ626	42924	Exp. Date		Acetate buffer: 129216	912621	(0/11/1)
TCS ID:	LCS ID: A 9074	11/20		PAO Titrant:	PAO Titrant: 145348	5/31/20
Sample	Sample Vol.		Titrant Start	Titrant Stop	Titrant Vol.	Result
Ω	(lml)	pH (pH Units)	(ml)	(ml)	- (ml)	(mg/L)
Blank	200	4.0	0.00	00:0	0.00	0.00
SOT	h ———	4.0	<u> </u>	20.0	20.0	0.02
Outfall 001		4.3		00-0	0-00	0000
Outfall 002		0.7		00'0	0.00	00.0
Outfall 003		9. b		00.0	00.0	0000
Outfall 011						
Outfall 011 Dup						į
Outfall 60 1 Dup	>	d' 0	ħ	0000	00.00	0.00

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

revision: a_01_2016

Burns Harbor

Shift start time	Section 1 Date 19 Shift ArcelorMittal Representative Department Department Section 2
this sheet this s	First name
this sheet this s	
this sheet this s	
this sheet	
this sheet this poescription the bescription the bescri	
this sheet	
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Service Tech 306900 ArcelorMittal authorization signature Job title Printed name Printed name Date Date	I the undersigned artest that the hours recorded on the timesheet were acturate contractor employee at the plant work location on the date listed above.
19/19 346900 Marken Howard AM Muthorizer	
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306900

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

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epresentative responsible for the work and discuss the work to be performed and any specific safety requirements.	d and any	specific	safety requirements.			Arcelor/Mitta	_ ;
	The r Arce	named co lorMittal	The named contractor or work crew is cleared to perform the job described herein: ArcelorMittal representative	Ë			
Company contact/phone no Carry Galzala 769-8378	Arce	orMittal	2-10	010	8/1	Ę	
Har	Arce	orMittal	とりメた」	0	1	e-	
	Į,			2/5	3	18	
	Yes N/A	No	3 A A A A A A A A A A A A A A A A A A A	1	Yes	N/A No	
1) Are emergency evacuation areas identified and known?		•	10) Could someone be caught in or between anything?	i.	0	T	440
2) Is there a current and valid isolation (LOTO) procedure?			11) Could someone get hurt as a result of a fall from height?		0	П	
		()	12) Can something fall and/or strike me or someone else?	STATE OF STA	•		EC 10
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?		•	13) Is everyone properly trained for this job?			П	
5) Are there potential hazards or high risk job steps?		卢	14) Are flags and derails in place if needed?	The second		П	
		0	15) Can we slip or trip on anything (including travel to and from the job)?	e job)?	6	П	MALE A
		Á	16) Have all affected people been notified?	17. 42.	p		8
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?			17) Can we strain or overexert ourselves?		8	П	
9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?		À	18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	o	à	П	
Other Hazards and Considerations for Discussion			Permits				
Yes N/A No	0		Yes N/A No Yes N/A No		Ye	Yes N/A No	_

Other Hazards and Considerations for Discussion	ons to	r Discus	sion									Permits
>	Yes N/A No	ON A		Yes N/A No	A/N	No	Yes	Yes N/A No		Yes N/A No	9	
19) Pneumatic air tools & lines		27	24) Housekeeping	•	n	29) Scaffold work	0		33) Asbestos		þ	37) Confined space
20) Vehicle / mob equip traffic 🏻 🔏		25	25) Production hazards	0	n	Explosives	0		34) Noise			38) Energized electrical work
21) Gas hazards-CO, CO2, etc.		26	26) Material handling	0	n	31) Barricades	0	П	35) Lasers			39) Excavation / drilling
22) Hot process, metal, temp.		27	727) Crane and rigging	0		32) Radiation	0		36) Sewers		Ų.	40) Hot work
23) Pressurized / steam pipe		25	28) Overhead work	0	П							41) Other
Section 3						Hierarchy of Controls 1.	Elimina	ition 2.	Hierarchy of Controls 1. Elimination 2. Substitution 3. Engineering 4. Administrative 5. PPE	ing 4. Admi	nistrative	5. PPE

Visiting worker name (print)

Responsible Person Controls Responsible Person | Hazard # $\mathcal{B} \cdot \mathcal{O} + \mathcal{C}_{\mathcal{O}}$ | アントイング CACOCA Controls Hazard # 20 (64042

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 Replacement rep/phone ArcelorMittal representative $\overline{\mathcal{H}}$ ArcelorMittal representative named below.
Contractor or crew leader

(Ensure form is fully completed prior to signing) Original to contractor, (1) copy to AreclorMittal representative

Controlled by Maintenance Administration Dept. Arcel किन्मिक्सि निवेश निर्धित

2016-04-BH-DailyWorkAuthorization