

August 28, 2019

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

Work Order No.: 19H0742

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 15 sample(s) on 8/13/2019 10:55:00AM for the analyses presented in the following report as Work Order 19H0742.

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 Macipala

Carey Gadzala Project Manager

Microbac Laboratories, Inc.



Revised 8/28/2019

WORK ORDER SAMPLE SUMMARY

Date:

Wednesday, August 28, 2019

Client:	Arcelor Mittal USA, Inc.
Project:	Daily
Lab Order:	19H0742

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H0742-01	011-Composite	011	08/12/2019 06:00	8/13/2019 10:55:00AM
19H0742-02	011-Grab	011	08/12/2019 06:00	8/13/2019 10:55:00AM
19H0742-03	001-Composite	001	08/12/2019 06:20	8/13/2019 10:55:00AM
19H0742-04	001-Grab	001	08/12/2019 06:20	8/13/2019 10:55:00AM
19H0742-05	Mixed Liquor-Grab	Mixed Liquor	08/13/2019 06:42	8/13/2019 10:55:00AM
19H0742-06	J-Box-Grab	J-Box	08/13/2019 06:39	8/13/2019 10:55:00AM
19H0742-07	RSB FT Overflow-Grab	RSB FT Overflow	08/13/2019 07:44	8/13/2019 10:55:00AM
19H0742-08	999-Grab	999	08/13/2019 07:30	8/13/2019 10:55:00AM
19H0742-09	002-Grab	002	08/12/2019 07:53	8/13/2019 10:55:00AM
19H0742-10	CM1-Grab	CM1	08/13/2019 00:00	8/13/2019 10:55:00AM
19H0742-11	CM2-Grab	CM2	08/13/2019 00:00	8/13/2019 10:55:00AM
19H0742-12	CM6-Grab	CM6	08/13/2019 00:00	8/13/2019 10:55:00AM
19H0742-13	HM1-Grab	HM1	08/13/2019 00:00	8/13/2019 10:55:00AM
19H0742-14	HM2-Grab	HM2	08/13/2019 00:00	8/13/2019 10:55:00AM
19H0742-15	HM3-Grab	HM3	08/13/2019 00:00	8/13/2019 10:55:00AM



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Field Results		Date: Wednesd	ay, August 28, 2019
Client: Client Project:	Arcelor Mittal USA, Inc. Daily	Work Order:	19H0742
Client Sample ID:	011-Grab	Work Order/ID:	19H0742-02
Sample Description:	011	Sampled:	08/12/2019 06:00
Matrix:	Aqueous	Received:	08/13/2019 10:55
Analyses		Result	Units
рН		8.2	pH Units
Client Sample ID:	001-Grab	Work Order/ID:	19H0742-04
Sample Description:	001	Sampled:	08/12/2019 06:20
Matrix:	Aqueous	Received:	08/13/2019 10:55
Analyses		Result	Units
рН		8.1	pH Units
Client Sample ID:	J-Box-Grab	Work Order/ID:	19H0742-06
Sample Description:	J-Box	Sampled:	08/13/2019 06:39
Matrix:	Aqueous	Received:	08/13/2019 10:55
Analyses		Result	Units
рН		8.7	pH Units
Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	19H0742-07
Sample Description:	RSB FT Overflow	Sampled:	08/13/2019 07:44
Matrix:	Aqueous	Received:	08/13/2019 10:55
Analyses		Result	Units
рН		9.1	pH Units
Client Sample ID:	999-Grab	Work Order/ID:	19H0742-08
Sample Description:	999	Sampled:	08/13/2019 07:30
Matrix:	Aqueous	Received:	08/13/2019 10:55
Analyses		Result	Units
рН		8.2	pH Units
Client Sample ID:	002-Grab	Work Order/ID:	19H0742-09
Sample Description:	002	Sampled:	08/12/2019 07:53
Matrix:	Aqueous	Received:	08/13/2019 10:55
Analyses		Result	Units
рН		8.3	pH 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



Revised 8/28/2019

CASE NARRATIVE

Date: Wednesday, August 28, 2019

Client:Arcelor Mittal USA, Inc.Project:DailyLab Order:19H0742

Report has been reissued to include NH4, Cn and Free Cn for Outfall's 011and 001 per the clients request. 8/28/19

Analytical Re	sults					Da	ate:	Wednes	day, August 28, 2019
Client: Client Project:	Arcelor Mittal USA, Daily	Inc.							
Client Sample ID:	011-Composite						Work O	rder/ID:	19H0742-01
Sample Description:	011						Sample	d:	08/12/2019 6:00
Matrix:	Aqueous						Receive	ed:	08/13/2019 10:55
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500)-CN C/E-1999			An	alyst: ABG
Total Cyanide			F	Prep Method: NA				Prep Date/	Time:08/21/2019 09:36
Cyanide, Total		dij	Α	0.19	0.0050		mg/L	1	08/21/2019 12:17
				Method: SW-846	9014			An	alyst: AJR
Free Cyanide			F	Prep Method: SW-846	9014			Prep Date/	Time:08/21/2019 09:07
Free Cyanide			Α	0.20	0.0062		mg/L	1	08/26/2019 12:14
				Method: EPA 350	.1 Rev 2.0			An	alyst: ABG
Nitrogen, Ammonia as N			F	Prep Method: EPA 350).1 Rev 2.0			Prep Date/	Time:08/22/2019 04:56
Nitrogen, Ammonia (A	s N)	di	Α	1.2	0.10		mg/L	1	08/22/2019 10:45

Analytical Re	sults					Da	ate:	Wednes	day, August 28, 2019
Client: Client Project:	Arcelor Mittal USA, Daily	Inc.							
Client Sample ID:	001-Composite						Work O	rder/ID:	19H0742-03
Sample Description:	. 001						Sample	d:	08/12/2019 6:20
Matrix:	Aqueous						Receive	ed:	08/13/2019 10:55
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			An	alyst: ABG
Total Cyanide			F	Prep Method: NA				Prep Date/	Time:08/21/2019 09:36
Cyanide, Total		dij	Α	0.14	0.0050		mg/L	1	08/21/2019 12:18
				Method: SW-846 9	0014			An	alyst:AJR
Free Cyanide			F	Prep Method: SW-846 9	9014			Prep Date/	Time:08/21/2019 09:07
Free Cyanide			Α	0.16	0.0062		mg/L	1	08/26/2019 12:19
				Method: EPA 350.	1 Rev 2.0			An	alyst: ABG
Nitrogen, Ammonia as	Nitrogen, Ammonia as N			Prep Method: EPA 350.	1 Rev 2.0			Prep Date/	Time:08/22/2019 04:56
Nitrogen, Ammonia (A	s N)	di	Α	1.0	0.10		mg/L	1	08/22/2019 10:47

Analytical Re	sults					D	ate:	Wednesd	day, August 28, 2019
Client:	Arcelor Mittal USA, I	nc.							
Client Project:	Daily								
Client Sample ID:	Mixed Liquor-Grab						Work C	order/ID:	19H0742-05
Sample Description:	Mixed Liquor						Sample	ed:	08/13/2019 6:42
Matrix:	Aqueous						Receiv	ed:	08/13/2019 10:55
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 2	540 F-1997			An	alyst: DAT
Settleable Solids			F	Prep Method: SM 2	2540 F-1997			Prep Date/	Time:08/13/2019 11:16
Settleable Solids		i	Α	240		1.0	ml/L	1	08/13/2019 11:16
				Method: SM 2	540 D-1997			An	alyst: KMT
Total Suspended Solie	Total Suspended Solids			Prep Method: SM 2	2540 D-1997			Prep Date/	Time:08/13/2019 11:28
Total Suspended Solid	ds	dij	Α	2300		1.0	mg/L	1	08/13/2019 13:23

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Analytical Results

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Total Suspended Solid	ds	dij	Α	19		1.()	mg/L	1	08/13/2019 13:23
Total Suspended Soli	ds		I	Prep Method:	SM 2540 D-1997	7			Prep Date/	Time:08/13/2019 11:28
				Method:	SM 2540 D-1997	,			Ana	alyst: KMT
Analyses		Certs	AT	Result	I	RL	Qual	Units	DF	Analyzed
Matrix:	Aqueous							Receive	ed:	08/13/2019 10:55
Sample Description:	J-Box							Sample	d:	08/13/2019 6:39
Client Sample ID:	J-Box-Grab							Work O	rder/ID:	19H0742-06
Client Project:	Daily									
Client:	Arcelor Mittal USA	A, Inc.								

Revised 8/28/2019

Analytical Results

Wednesday, August 28, 2019

Total Suspended Solid		dij	Α	18			1.0	mg/L	1	08/13/2019 13:23
Total Suspended Soli	ds		I	Prep Method:	SM 2540 D-19	997			Prep Date/	Time:08/13/2019 11:28
				Method:	SM 2540 D-19	97			An	alyst: KMT
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed
Matrix:	Aqueous							Receive	ed:	08/13/2019 10:55
Sample Description:	CM1							Sample	ed:	08/13/2019 0:00
Client Sample ID:	CM1-Grab							Work O	order/ID:	19H0742-10
Client Project:	Daily									
Client:	Arcelor Mittal USA,	Inc.								

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Analytical Results

Wednesday, August 28, 2019

Client:	Arcelor Mittal USA, I	nc.							
Client Project:	Daily								
Client Sample ID:	CM2-Grab						Work O	rder/ID:	19H0742-11
Sample Description:	CM2						Sample	d:	08/13/2019 0:00
Matrix:	Aqueous						Receive	ed:	08/13/2019 10:55
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SN	1 2540 D-1997			Ana	alyst: KMT
Total Suspended Solid	ds		ł	Prep Method: SN	/I 2540 D-1997		I	Prep Date/1	lime:08/13/2019 11:28
Total Suspended Solid	ls	dij	Α	13		1.0	mg/L	1	08/13/2019 13:23

Revised 8/28/2019

Analytical Results

Wednesday, August 28, 2019

Client:	Arcelor Mittal USA, I	nc.							
Client Project:	Daily								
Client Sample ID:	CM6-Grab						Work O	rder/ID:	19H0742-12
Sample Description:	CM6						Sample	d:	08/13/2019 0:00
Matrix:	Aqueous						Receive	d:	08/13/2019 10:55
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 2	2540 D-1997			Ana	alyst: KMT
Total Suspended Solid	ds		ł	Prep Method: SM 2	2540 D-1997		F	Prep Date/	Time:08/13/2019 11:28
Total Suspended Solid	ls	dij	Α	6.6	1	1.0	mg/L	1	08/13/2019 13:23

Revised 8/28/2019

Analytical Results

Wednesday, August 28, 2019

Total Suspended Solid	ds	dij	Α	12		1.0)	mg/L	1	08/13/2019 13:23
Total Suspended Soli	ds		F	Prep Method:	SM 2540 D-1997	,			Prep Date/	Time:08/13/2019 11:28
				Method:	SM 2540 D-1997				Ana	alyst: KMT
Analyses		Certs	AT	Result	I	RL	Qual	Units	DF	Analyzed
Matrix:	Aqueous							Receive	ed:	08/13/2019 10:55
Sample Description:	HM1							Sample	d:	08/13/2019 0:00
Client Sample ID:	HM1-Grab							Work O	rder/ID:	19H0742-13
Client Project:	Daily									
Client:	Arcelor Mittal US	A, Inc.								

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Analytical Results

Wednesday, August 28, 2019

Total Suspended Solid	ls	dij	Α	14		1	.0	mg/L	1	08/13/2019 13:23
Total Suspended Soli	ds		F	Prep Method:	SM 2540 D-199	97			Prep Date/	Time:08/13/2019 11:28
				Method:	SM 2540 D-199	97			An	alyst: KMT
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed
Matrix:	Aqueous							Receive	ed:	08/13/2019 10:55
Sample Description:	HM2							Sample	d:	08/13/2019 0:00
Client Sample ID:	HM2-Grab							Work O	rder/ID:	19H0742-14
Client Project:	Daily									
Client:	Arcelor Mittal US	A, Inc.								

Revised 8/28/2019

Analytical Results

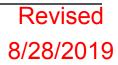
Wednesday, August 28, 2019

Total Suspended Solid	ds	dij	Α	10		1.()	mg/L	1	08/13/2019 13:23
Total Suspended Soli	ds		F	Prep Method:	SM 2540 D-1997	,			Prep Date/	Time:08/13/2019 11:28
				Method:	SM 2540 D-1997	,			An	alyst: KMT
Analyses		Certs	AT	Result	ļ	RL	Qual	Units	DF	Analyzed
Matrix:	Aqueous							Receive	ed:	08/13/2019 10:55
Sample Description:	HM3							Sample	d:	08/13/2019 0:00
Client Sample ID:	HM3-Grab							Work O	rder/ID:	19H0742-15
Client Project:	Daily									
Client:	Arcelor Mittal USA	A, Inc.								

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 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)

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.

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Cooler Receipt Log

Cooler ID: Default Cooler



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

Tuesday

Lab Work No: 1940742

* Date Obtained ** Sample Date: _

No cm 3

13-19

Location	Time	Sampler	Туре	Preserved	Cooled	Containers			Parameters	Comments
	11110		-ypc	110301700	Coolea	Туре	Qty	Vol. (ml)	Falameters	Comments
011 **	DG:M	QV	Comp	No	Yes	Glass	1	4000		01
	00.00		Grab	No	No	Plastic	1	500	pН	02
001 **	16.20		Comp	No	Yes	Glass	1	4000		03
	00.00		Grab	No	No	Plastic	1	125	pН	04
Mixed Liquor *	04:42		Grab	No	No	Plastic	1	2000	TSS, Settling	05
DIW-131 *	NA		Grab	No	No	Plastic	1	125	рН	
J-Box *	06:39		Grab	No	No	Plastic	1	1000	TSS, pH	06
RSB FT Overflow *	61:44		Grab	No	No	Plastic	1	125	рН	07
999 *	07:30		Grab	No	No	Plastic	1	500	pН	08
002 **	07:53		Grab	No	No	Plastic	. 1	125	pН	09
SWTP *	NA	****	Grab	No	No	Plastic	76	1000	TSS	10-15

*** WPL is for previous sample date

**** Sample collected by Water Process personnel

01 -0.3 41°C

Relinquished by: allo Received by:

Date: 8-13-19 Date: 8/13/19

Time 58:05 Time: 0840

Env 2x Rev. 8 07/01/16 (TEK)

19H0742 Carey Gadzala ArcelorMittal - Burns Harbor, IN Daily 08/13/2019



Microbac Laboratories, Inc. - Chicagoland Division

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

Exp. Date 0.00 0.00 10-11-19 00.0 0.00 630-19 Result (mg/L) 22-12-5 0.00 0.00 0.08 STD ID / Lot # 0,00 0.00 0-00 Titrant Vol. 0.08 145348 00.00 0.00 0.00 129214 (mL) 14267 KI Solution: Acetate buffer: PAO Titrant: Titrant Stop 0.00 0 0 0.00 0,00 0.00 0.08 0,0 (mL) Titrant Start S S S (mL) pH (pH Units) Exp. Date ¦∂ ∳^ 4 404 64 40 40 すう Q. . . 0846 Sample Vol. 1+1626 Date/Time: 8 - 12 - 1 9 (mL) 49074 - Si pH Paper Lot #: LCS ID: Analyst: Dup dng Ë Sample 100 00 ≙ **Dutfall 002** Outfall 003 Outfall 011 Outfall 001 Outfall 011 Outfall Blank S

Date/Time:	8/11/19 0840				STD ID / Lot #	Exn Dafe
Analyst _	1			KI Solution:	KI Solution: (46367)	6/20/19
pH Paper Lot #:		Exp. Date		Acetate buffer. [2]26	129216	1/1/10
TCS ID:	A 9074	11/20		PAO Titrant:	PAO Titrant: 145348	10
Sample	Sample Vol.		Titrant Start	Titrant Stop	Titrant Vol	Result
Ω	(ml)	pH (pH Units)	(m)	(m)	(m)	(mg/l)
Blank	200	4.0	0.00	0.00	60.0	0.00
LCS		4.0		0 0 5	200	
Outfall 001		4.0		0 - 0	00.0	0.00
Outfall 002		50		0.00	00	
Outfall 003		-1 1		000		
Outfall 011		4)	0,0
Outfall 011 Dup						
Outfall 00 2. Dup	->	4.0	\rightarrow	0 .00	0.00	00-0
Chlorine, mg/L =	Chlorine, mg/L = (Titrant Vol., mL) (200 mL) / (Sample Vol., mL)	L) / (Sample Vol.,	mL)			revision: a_01_2016

ME-3386

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pH - METHOD 9045D Arcelor Mittal /Burns Harbor NPDES

Sample ID		pH	Analyst	Date/Time of Analysis
Buffer ID:	4: 185909	7: 188312	10: 187680	
Meter ID:		18011-		
Calibration	<u>(4)1010</u>		BAD	8/13/19 0840
	4 1 (1) 10	<u>6.99</u> 99.9		
Slope				
Lake 999		8.22		
Location 001		8.11	·	
Location 002		<i>8.32</i>		
Location 011		8.20		
WAL 1				
WAL 2				
SWTP J-Box		8.67	i	
DIW 131				
RSB		9.08		·
Dup- RSB		9.06		
CCV		7.01		
······································				

Sample ID		рН	Analyst	Date/Time of Analysis
Buffer ID:	4:	7:	10:	
Meter ID:				•
Calibration	4 / 7 / 10			
ICV	4 / 7 / 10			
Slope				an a
Lake 999				
Location 001				
Location 002				
Location 011				
WAL 1				
WAL 2				
SWTP J-Box				
DIW 131				
RSB				
Dup-				······································
CCV				
· · ·	•			
			· ·	
······				

ME-3415

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	6	Percent job complete	Job notes			r J M M M	5			- - 		2		ſ.						ees, hours, and date listed on the	Job title	Date × (13 119	
Form number	Requisition number		illable quipment/subcontractors/material	D Description	2ty Hours/amt total	D Description	2ty Hours/amt total	D Description	2ty Hours/amt total	D Description	2ty Hours/amt total	Description	2ty Hours/amt total	Description			nation of the abbreviations.	TST (TM	gned have verified that contractor employe	a authorization signature	T	ין פֿוּ
Laby Contractor ref #/job #		\$	DT Total														n. See reverse side of form for an expla		OE			7229 Prin	- Joseph -
1 icroba	PO number	- Sampl	/ Craft ST	ion TEC 1										Total hours this sheet (Previous hours	Total hours to date	ft in the box to the right of each abbreviation $C_{1,7}$		LIC	ally worked by	in Tech	12/19	AM Authorizer
hitch	Representative Har af	0	Last name First na	0H. Br.													Enter the total hours worked by each crai			ned attest that the hours recorded on the time of the time of the time of the second second on the second	Contractor authorization signature	Otto	- Contractor Pink - AM Receive
	19 Shift and Contractor company name Contractor ref # /job # Form number	Shift Contractor company name Contractor ref #/job # Form number esentative Microbac Lab Contractor ref #/job # Requisition number esentative Microbac Lab P0 number 0799897	Shift Contractor company name Contractor ref #/job # Form number centrative M : c.s.bac Laby Contractor ref #/job # Form number centrative M : c.s.bac Laby Contractor ref #/job # Form number centrative M : c.s.bac Laby Contractor ref #/job # Form number centrative M : c.s.bac Laby PO number Requisition number Description of work Samp le S Per	Shift Contractor company name Contractor ref #/job # Form number resentative M : c.o.bac Laby Contractor ref #/job # Form number resentative M : c.o.bac Laby P0 number P0 number a / / c Description of work Samp le S P2 mame First name Craft ST OT	Shift Contractor company name Contractor ref #/job # Form number esentative M i craba e Laby Contractor ref #/job # Form number esentative M i craba e Laby P0 number P0 number a x / c_ Description of work Sample S P2 a x / c_ Description of work Sample S Part a x / c_ Description of work Sample S Description number a x / c_ Description of work Sample S Description number a x / c_ Description of work Sample S Description number a x / c_ Description of work Sample S Description	Shift Contractor ref #/job # Form number Resentative M:c.s.bac. 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Laby PO number PO number Image: Second to se	Shit Contractor ref #/job # Form number Requisition number M : c. a base Lab Percentative Po number Requisition number Point Po number Po number Percentative Po number Po number Percentative Po number Requisition number Percentative Po number Point Percentation of work Sample S Point Percentation of work Sample S Point Prist name First name Craft ST Prist name First name Craft Prist name Prist name Prist name Prist name Point Prist name Prist name Prist name Poscription	Shift Contractor company name Contractor ref #/job # Form number Requisition number Po number Po number Po number Description of work Description of work Sample S Per Description of work Description of work Sample S Po number Description of work Sample S Po number Po number Description of work Sample S Po number Point Description Point Description Point Description Privan Privan Point Privan Privan Point Point Privan Privan Point Point	Shift Contractor ref # /job # Contractor ref # /job # Form number esentative A : c.o. bac Lab. 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307229 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	/Orkers nust meet fa	ce to face with the ArcelorM	1 1 1 ttal		4	
Section 1.	any specific	safety requirements.	d to configure the id		Arcelor/WITTOI	
ame Microbac Labs ontact/phone no Carey Cadrala, 769-8378	ArcelorMittal ArcelorMittal ArcelorMittal	Ine named contractor or work crew is cleared to perform the Jpp described nerein: ArcelorMittal representative は <i>しょく、</i>	E - D	p described nerein: Date <u>Date</u>	3/19	
1	ArcelorMittal	ArcelorMittal representative phone number_	1 86	Clinic pickup point 76		
HIRAC-Lite Yes	A/A No				Yes N/A No	
		10) Could someone be caught in or between anything?	t in or between any	thing?		1
2) Is there a current and valid isolation (LOTO) procedure?		11) Could someone get hurt as a result of a fall from height?	as a result of a fall fr	rom height?		
3) Will everyone apply a personal safety lock?		12) Can something fall and/or strike me or someone else?	r strike me or some	one else?		
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?		13) Is everyone properly trained for this job?	ned for this job?			
5) Are there potential hazards or high risk job steps?		14) Are flags and derails in place if needed?	ace if needed?			
6) Do we have the correct tools for the job?		15) Can we slip or trip on anything (including travel to and from the job)?	thing (including trav	vel to and from the job)?		
7) Is additional PPE required?		716) Have all affected people been notified?	oeen notified?			
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?		17) Can we strain or overexert ourselves?	rt ourselves?			
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	1.			Permits		
Yes N/A No Yes N/A No		Yes N/A No	Yes N/A No		Yes N/A No	
	29) Scaffold work	٥		37) Confined space		11
20) Vehicle / mob equip traffic 🌌 🚞 🖶 25) Production hazards 🔵 🚞 🚰 30	30) Explosives	🛑 🛄 🚰 34) Noise		38) Energized electrical work	vork	1
🛑 🛄 🚰 26) Material handling 🛑 🛄 🌌	31) Barricades	🛑 🛄 🛃 35) Lasers		39) Excavation / drilling		
. 🔵 🗖 🍯 27) Crane and rigging 🕚 🛄 🛃	132) Radiation	🛑 🚞 📬 36) Sewers		40) Hot work		· .
23) Pressurized / steam pipe 🛛 🕒 🔤 28) Overhead work 🛛 🕒 🚰				41) Other		
	archy of Controls	Hierarchy of Controls 1. Elimination 2. Substitution 3. Engine	3. Engineering 4. Administrative	5. PPE		
Visiting worker name (print) Badge # Hazard # Controls β . $Otho$ $lbfodec$		Responsible Person Hazard # \mathcal{B} , \mathcal{O} + $\mathcal{H}_{\mathcal{O}}$	#	Controls	Responsible Person	
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My crew and I are familiar with the safety hazards/considerations for this job. We are prepared to perform the workin a safe "workinanship" like manner. I have reviewed these considerations with the	red to perforn	n the work in a safe "workmans	ship" like manner. I	have reviewed these consic	derations with the	
Contractor or crew leader R . Of ArcelorMittal representative	ontative L	ノートー	Panlacamont	ron/nprono		
ing) Original to contra	ttal representa	-	ed by Maintenance Administration	Controlled by Maintenance Administration Dent ArceRoAGE231.0F5 23rbor	Rage 21. Af 21 hor	
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