



September 16, 2019

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

Work Order No.: 19I0418

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 22 sample(s) on 9/9/2019 11:00:00AM for the analyses presented in the following report as Work Order 19I0418.

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.

A handwritten signature in black ink that reads "Carey Gadzala". The signature is written in a cursive, flowing style.

Carey Gadzala
Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)

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WORK ORDER SAMPLE SUMMARY

Date: *Monday, September 16, 2019*

Client: Arcelor Mittal USA, Inc.
Project: Daily
Lab Order: 19I0418

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19I0418-01	011-Composite	011	09/08/2019 06:00	9/9/2019 11:00:00AM
19I0418-02	011-Grab	011	09/08/2019 06:00	9/9/2019 11:00:00AM
19I0418-04	001-Composite	001	09/08/2019 06:20	9/9/2019 11:00:00AM
19I0418-05	001-Grab	001	09/08/2019 06:20	9/9/2019 11:00:00AM
19I0418-06	031-Grab	031	09/09/2019 06:38	9/9/2019 11:00:00AM
19I0418-07	Mixed Liquor-Grab	Mixed Liquor	09/09/2019 06:42	9/9/2019 11:00:00AM
19I0418-08	J-Box-Grab	J-Box	09/09/2019 06:36	9/9/2019 11:00:00AM
19I0418-09	WWII-Grab	WWII	09/09/2019 07:19	9/9/2019 11:00:00AM
19I0418-10	Coldwell-Grab	Coldwell	09/09/2019 07:33	9/9/2019 11:00:00AM
19I0418-11	RSB FT Overflow-Grab	RSB FT Overflow	09/09/2019 07:58	9/9/2019 11:00:00AM
19I0418-12	RSB FT Influent-Grab	RSB FT Influent	09/09/2019 07:39	9/9/2019 11:00:00AM
19I0418-13	BFTD-Grab	BFTD	09/09/2019 07:57	9/9/2019 11:00:00AM
19I0418-14	999-Grab	999	09/09/2019 07:45	9/9/2019 11:00:00AM
19I0418-15	BFTC-Grab	BFTC	09/09/2019 08:05	9/9/2019 11:00:00AM
19I0418-16	002-Grab	002	09/08/2019 08:09	9/9/2019 11:00:00AM
19I0418-17	WAL-Grab	WAL	09/08/2019 08:19	9/9/2019 11:00:00AM
19I0418-18	CM1-Grab	CM1	09/09/2019 00:00	9/9/2019 11:00:00AM
19I0418-19	CM2-Grab	CM2	09/09/2019 00:00	9/9/2019 11:00:00AM
19I0418-20	CM6-Grab	CM6	09/09/2019 00:00	9/9/2019 11:00:00AM
19I0418-21	HM2-Grab	HM2	09/09/2019 00:00	9/9/2019 11:00:00AM
19I0418-22	HM3-Grab	HM3	09/09/2019 00:00	9/9/2019 11:00:00AM

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Field Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order:	19I0418
Client Project:	Daily		
Client Sample ID:	011-Grab	Work Order/ID:	19I0418-02
Sample Description:	011	Sampled:	09/08/2019 06:00
Matrix:	Aqueous	Received:	09/09/2019 11:00

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.71	pH Units

Client Sample ID:	001-Grab	Work Order/ID:	19I0418-05
Sample Description:	001	Sampled:	09/08/2019 06:20
Matrix:	Aqueous	Received:	09/09/2019 11:00

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.8	pH Units

Client Sample ID:	J-Box-Grab	Work Order/ID:	19I0418-08
Sample Description:	J-Box	Sampled:	09/09/2019 06:36
Matrix:	Aqueous	Received:	09/09/2019 11:00

Analyses	Result	Units
pH	8.4	pH Units

Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	19I0418-11
Sample Description:	RSB FT Overflow	Sampled:	09/09/2019 07:58
Matrix:	Aqueous	Received:	09/09/2019 11:00

Analyses	Result	Units
pH	8.5	pH Units

Client Sample ID:	999-Grab	Work Order/ID:	19I0418-14
Sample Description:	999	Sampled:	09/09/2019 07:45
Matrix:	Aqueous	Received:	09/09/2019 11:00

Analyses	Result	Units
pH	7.7	pH Units

Client Sample ID:	002-Grab	Work Order/ID:	19I0418-16
Sample Description:	002	Sampled:	09/08/2019 08:09
Matrix:	Aqueous	Received:	09/09/2019 11:00

Analyses	Result	Units
pH	8.0	pH Units

Client Sample ID:	WAL-Grab	Work Order/ID:	19I0418-17
Sample Description:	WAL	Sampled:	09/08/2019 08:19
Matrix:	Aqueous	Received:	09/09/2019 11:00

Analyses	Result	Units
pH	9.0	pH Units

Field ResultsDate: *Monday, September 16, 2019*

CASE NARRATIVE**Date:** *Monday, September 16, 2019*

Client: Arcelor Mittal USA, Inc.
Project: Daily
Lab Order: 19I0418

The Matrix Spike and Matrix Spike Duplicate performed on the following sample failed the accuracy criteria for free cyanide with a low bias. The precision criteria were met. This data is indicative of a bias related to sample matrix.

<u>Laboratory ID</u>	<u>Sample Name</u>
19I0418-01	011-Composite

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-01
Client Project:	Daily	Sampled:	09/08/2019 6:00
Client Sample ID:	011-Composite	Received:	09/09/2019 11:00
Sample Description:	011		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Method: EPA 200.7 Rev 4.4									
Analyst: RPL									
Prep Date/Time: 09/09/2019 12:22									
Total Recoverable Metals by ICP									
Lead	ejj	A	ND	0.0033	0.0075	U	mg/L	1	09/09/2019 14:49
Zinc	ejj	A	0.017	0.0073	0.020		mg/L	1	09/09/2019 14:49
Method: SM 4500-CN C/E-1999									
Analyst: ABG									
Prep Date/Time: 09/09/2019 12:35									
Total Cyanide									
Cyanide, Total	ejj	A	ND	0.0020	0.0050	U	mg/L	1	09/09/2019 15:48
Method: SW-846 9014									
Analyst: ABG									
Prep Date/Time: 09/09/2019 15:28									
Free Cyanide									
Free Cyanide		A	ND		0.0062		mg/L	1	09/09/2019 16:05
Method: EPA 350.1 Rev 2.0									
Analyst: ABG									
Prep Date/Time: 09/09/2019 13:27									
Nitrogen, Ammonia as N									
Nitrogen, Ammonia (As N)	ei	A	0.28	0.054	0.10		mg/L	1	09/09/2019 16:35
Method: EPA 420.4 Rev 1.0									
Analyst: ABG									
Prep Date/Time: 09/09/2019 13:04									
Total Phenolics									
Phenolics, Total Recoverable	ejj	A	ND	0.0060	0.010	U	mg/L	1	09/09/2019 17:31
Method: SM 2540 D-1997									
Analyst: KMT									
Prep Date/Time: 09/09/2019 10:40									
Total Suspended Solids									
Total Suspended Solids	ejj	A	1.6	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-02
Client Project:	Daily	Sampled:	09/08/2019 6:00
Client Sample ID:	011-Grab	Received:	09/09/2019 11:00
Sample Description:	011		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Method: EPA 1664B					Analyst: KMT				
Oil & Grease (HEM) by SPE									
Prep Date/Time: 09/09/2019 07:27									
Oil & Grease (HEM)	ejj	A	ND	1.4	5.0	U	mg/L	1	09/09/2019 14:42

Analytical Results

Date: Monday, September 16, 2019

Client: Arcelor Mittal USA, Inc.
Client Project: Daily
Client Sample ID: 001-Composite **Work Order/ID:** 19I0418-04
Sample Description: 001 **Sampled:** 09/08/2019 6:20
Matrix: Aqueous **Received:** 09/09/2019 11:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Method: EPA 200.7 Rev 4.4									
Analyst: RPL									
Prep Date/Time: 09/09/2019 12:22									
Total Recoverable Metals by ICP									
Copper	ejj	A	ND	0.0013	0.010		mg/L	1	09/09/2019 14:54
Lead	ejj	A	ND	0.0033	0.0075	U	mg/L	1	09/09/2019 14:54
Zinc	ejj	A	ND	0.0073	0.020		mg/L	1	09/09/2019 14:54
Method: EPA 200.8 Rev 5.4									
Analyst: BTM									
Prep Date/Time: 09/09/2019 12:22									
Total Recoverable Metals by ICP/MS									
Silver	ejj	A	ND	0.000053	0.00060	U	mg/L	1	09/09/2019 16:21
Method: SM 4500-CN C/E-1999									
Analyst: ABG									
Prep Date/Time: 09/09/2019 12:35									
Total Cyanide									
Cyanide, Total	ejj	A	ND	0.0020	0.0050	U	mg/L	1	09/09/2019 15:49
Method: SW-846 9014									
Analyst: ABG									
Prep Date/Time: 09/09/2019 15:28									
Free Cyanide									
Free Cyanide		A	ND		0.0062		mg/L	1	09/09/2019 16:10
Method: EPA 350.1 Rev 2.0									
Analyst: ABG									
Prep Date/Time: 09/09/2019 13:27									
Nitrogen, Ammonia as N									
Nitrogen, Ammonia (As N)	ei	A	0.34	0.054	0.10		mg/L	1	09/09/2019 16:42
Method: EPA 420.4 Rev 1.0									
Analyst: ABG									
Prep Date/Time: 09/09/2019 13:04									
Total Phenolics									
Phenolics, Total Recoverable	ejj	A	ND	0.0060	0.010	U	mg/L	1	09/09/2019 17:33
Method: SM 2540 D-1997									
Analyst: KMT									
Prep Date/Time: 09/09/2019 10:40									
Total Suspended Solids									
Total Suspended Solids	ejj	A	1.7	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-05
Client Project:	Daily	Sampled:	09/08/2019 6:20
Client Sample ID:	001-Grab	Received:	09/09/2019 11:00
Sample Description:	001		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: EPA 1664B				Analyst: KMT			
Oil & Grease (HEM) by SPE										
Prep Date/Time: 09/09/2019 07:27										
Oil & Grease (HEM)	ejj	A	ND	1.4	5.0	U	mg/L	1	09/09/2019 14:42	

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-06
Client Project:	Daily	Sampled:	09/09/2019 6:38
Client Sample ID:	031-Grab	Received:	09/09/2019 11:00
Sample Description:	031		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: SM 5210 B-2001				Analyst: EF				
										Prep Date/Time: 09/10/2019 15:35	
Biochemical Oxygen Demand											
Biochemical Oxygen Demand	ejj	A	ND	2.0	2.0	U	mg/L	1	09/15/2019 19:40		
			Method: SM 2540 D-1997				Analyst: KMT				
										Prep Date/Time: 09/09/2019 10:40	
Total Suspended Solids											
Total Suspended Solids	ejj	A	3.1	1.0	1.0		mg/L	1	09/09/2019 13:50		

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-07
Client Project:	Daily	Sampled:	09/09/2019 6:42
Client Sample ID:	Mixed Liquor-Grab	Received:	09/09/2019 11:00
Sample Description:	Mixed Liquor		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: SM 2540 F-1997				Analyst: DAT			
Prep Date/Time: 09/09/2019 12:32										
Settleable Solids										
Settleable Solids	i	A	160	1.0	1.0		ml/L	1	09/09/2019 12:32	
			Method: SM 2540 D-1997				Analyst: KMT			
Prep Date/Time: 09/09/2019 10:40										
Total Suspended Solids										
Total Suspended Solids	ejj	A	1600	1.0	1.0		mg/L	1	09/09/2019 13:50	

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-08
Client Project:	Daily	Sampled:	09/09/2019 6:36
Client Sample ID:	J-Box-Grab	Received:	09/09/2019 11:00
Sample Description:	J-Box		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: ABG			
Nitrogen, Ammonia as N			Prep Date/Time: 09/09/2019 13:27						
Nitrogen, Ammonia (As N)	ei	A	0.47	0.054	0.10		mg/L	1	09/09/2019 16:45
			Method: EPA 420.4 Rev 1.0			Analyst: ABG			
Total Phenolics			Prep Date/Time: 09/09/2019 13:04						
Phenolics, Total Recoverable	ejj	A	ND	0.0060	0.010	U	mg/L	1	09/09/2019 17:38
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids	ejj	A	16	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-09
Client Project:	Daily	Sampled:	09/09/2019 7:19
Client Sample ID:	WWII-Grab	Received:	09/09/2019 11:00
Sample Description:	WWII		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999			Analyst: ABG			
			Prep Date/Time: 09/09/2019 12:35						
Total Cyanide									
Cyanide, Total	ejj	A	0.022	0.0020	0.0050		mg/L	1	09/09/2019 15:51

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-10
Client Project:	Daily	Sampled:	09/09/2019 7:33
Client Sample ID:	Coldwell-Grab	Received:	09/09/2019 11:00
Sample Description:	Coldwell		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 200.7 Rev 4.4			Analyst: RPL			
Total Recoverable Metals by ICP						Prep Date/Time: 09/11/2019 11:17			
Lead	ejj	A	0.10	0.0033	0.0075		mg/L	1	09/11/2019 13:52
Zinc	ejj	A	0.65	0.0073	0.020		mg/L	1	09/11/2019 13:52
			Method: SM 4500-CN C/E-1999			Analyst: ABG			
Total Cyanide						Prep Date/Time: 09/09/2019 12:35			
Cyanide, Total	ejj	A	0.024	0.0020	0.0050		mg/L	1	09/09/2019 15:53
			Method: EPA 350.1 Rev 2.0			Analyst: ABG			
Nitrogen, Ammonia as N						Prep Date/Time: 09/09/2019 13:27			
Nitrogen, Ammonia (As N)	ei	A	52	0.54	1.0		mg/L	1	09/09/2019 16:47
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids						Prep Date/Time: 09/09/2019 10:40			
Total Suspended Solids	ejj	A	87	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-11
Client Project:	Daily	Sampled:	09/09/2019 7:58
Client Sample ID:	RSB FT Overflow-Grab	Received:	09/09/2019 11:00
Sample Description:	RSB FT Overflow		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 200.7 Rev 4.4			Analyst: RPL			
Total Recoverable Metals by ICP									
Prep Date/Time: 09/10/2019 08:42									
Lead	ejj	A	0.020	0.0033	0.0075		mg/L	1	09/10/2019 12:13
			Method: EPA 350.1 Rev 2.0			Analyst: ABG			
Nitrogen, Ammonia as N									
Prep Date/Time: 09/09/2019 13:27									
Nitrogen, Ammonia (As N)	ei	A	7.3	0.054	0.10		mg/L	1	09/09/2019 16:49
			Method: SM 2540 D-1997			Analyst: KMT			
Total Suspended Solids									
Prep Date/Time: 09/09/2019 10:40									
Total Suspended Solids	ejj	A	10	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: Monday, September 16, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-11RE1
Client Project:	Daily	Sampled:	09/09/2019 7:58
Client Sample ID:	RSB FT Overflow-Grab	Received:	09/09/2019 11:00
Sample Description:	RSB FT Overflow		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 200.7 Rev 4.4			Analyst: RPL			
Total Recoverable Metals by ICP									
Prep Date/Time: 09/11/2019 08:59									
Zinc	ejj	A	0.050	0.0073	0.020		mg/L	1	09/11/2019 12:27

Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-12
Client Project:	Daily	Sampled:	09/09/2019 7:39
Client Sample ID:	RSB FT Influent-Grab	Received:	09/09/2019 11:00
Sample Description:	RSB FT Influent		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids									
Total Suspended Solids	ejj	A	1200	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-13
Client Project:	Daily	Sampled:	09/09/2019 7:57
Client Sample ID:	BFTD-Grab	Received:	09/09/2019 11:00
Sample Description:	BFTD		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids									
Total Suspended Solids	ejj	A	44	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-14
Client Project:	Daily	Sampled:	09/09/2019 7:45
Client Sample ID:	999-Grab	Received:	09/09/2019 11:00
Sample Description:	999		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997				Analyst: KMT		
			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids									
Total Suspended Solids	ejj	A	3.1	1.0	1.0		mg/L	1	09/09/2019 13:50



Analytical Results

Date: Monday, September 16, 2019

Client: Arcelor Mittal USA, Inc.
Client Project: Daily
Client Sample ID: BFTC-Grab
Sample Description: BFTC
Matrix: Aqueous

Work Order/ID: 19I0418-15
Sampled: 09/09/2019 8:05
Received: 09/09/2019 11:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids									
Total Suspended Solids	ejj	A	48	1.0	1.0		mg/L	1	09/09/2019 13:50

Microbac Laboratories, Inc.

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Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-17
Client Project:	Daily	Sampled:	09/08/2019 8:19
Client Sample ID:	WAL-Grab	Received:	09/09/2019 11:00
Sample Description:	WAL		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: SM 2540 D-1997				Analyst: KMT				
										Prep Date/Time: 09/09/2019 10:40	
Total Suspended Solids											
Total Suspended Solids	ejj	A	6.2	1.0	1.0		mg/L	1	09/09/2019 13:50		

Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-18
Client Project:	Daily	Sampled:	09/09/2019 0:00
Client Sample ID:	CM1-Grab	Received:	09/09/2019 11:00
Sample Description:	CM1		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: SM 2540 D-1997				Analyst: KMT				
										Prep Date/Time: 09/09/2019 10:40	
Total Suspended Solids											
Total Suspended Solids	ejj	A	11	1.0	1.0		mg/L	1	09/09/2019 13:50		

Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-19
Client Project:	Daily	Sampled:	09/09/2019 0:00
Client Sample ID:	CM2-Grab	Received:	09/09/2019 11:00
Sample Description:	CM2		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids									
Total Suspended Solids	ejj	A	16	1.0	1.0		mg/L	1	09/09/2019 13:50

Analytical Results

Date: *Monday, September 16, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19I0418-20
Client Project:	Daily	Sampled:	09/09/2019 0:00
Client Sample ID:	CM6-Grab	Received:	09/09/2019 11:00
Sample Description:	CM6		
Matrix:	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids									
Total Suspended Solids	ejj	A	11	1.0	1.0		mg/L	1	09/09/2019 13:50



Analytical Results

Date: Monday, September 16, 2019

Client: Arcelor Mittal USA, Inc.
Client Project: Daily
Client Sample ID: HM2-Grab
Sample Description: HM2
Matrix: Aqueous

Work Order/ID: 19I0418-21
Sampled: 09/09/2019 0:00
Received: 09/09/2019 11:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
			Prep Date/Time: 09/09/2019 10:40						
Total Suspended Solids									
Total Suspended Solids	ejj	A	13	1.0	1.0		mg/L	1	09/09/2019 13:50

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

Analytical Results

Date: *Monday, September 16, 2019*

Client: Arcelor Mittal USA, Inc.

Client Project: Daily

Client Sample ID: HM3-Grab

Sample Description: HM3

Matrix: Aqueous

Work Order/ID: 19I0418-22

Sampled: 09/09/2019 0:00

Received: 09/09/2019 11:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: SM 2540 D-1997				Analyst: KMT			
Total Suspended Solids										
Prep Date/Time: 09/09/2019 10:40										
Total Suspended Solids	ejj	A	17	1.0	1.0		mg/L	1	09/09/2019 13:50	

ANALYTE TYPES: (AT)

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

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.

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: °C
 MICROBAC®

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

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Chain of Custody

ArcelorMittal Burns Harbor/Microbac Labs

Monday

Lab Work No: 19J0418

* Date Obtained: 9-9-19

** Sample Date: 9-8-19

Location	Time	Sampler	Type	Preserved	Cooled	Containers			Parameters	Comments
						Type	Qty	Vol. (ml)		
011 **	<u>06:00</u>	<u>QP</u>	Comp	No	Yes	Glass	1	4000	NH3, TSS, Zn, Pb	<u>01</u>
			Grab	No	No	Plastic	1	500	pH, Tot Res Cl	<u>02</u>
			Grab	Yes	No	Glass	2	1000	FOG (prepreserved)	<u>03</u>
001 **	<u>06:20</u>		Comp	No	Yes	Glass	1	4000	NH3	<u>04</u>
			Grab	No	No	Plastic	1	125	pH	<u>05</u>
031 *	<u>06:38</u>		Grab	No	Yes	Plastic	1	1000	TSS	<u>06</u>
			Grab	No	No	Plastic	1	1000	BOD	<u>07</u>
Mixed Liquor *	<u>06:42</u>		Grab	No	No	Plastic	1	2000	TSS, Settling	<u>07</u>
J-Box *	<u>06:36</u>		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	<u>08</u>
DIW-131 *	<u>07:19</u>		Grab	No	No	Plastic	1	125	pH	09
WWII *	<u>07:19</u>		Grab	No	No	Plastic	1	1000	Cn	<u>09</u>
Coldwell *	<u>07:33</u>		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	<u>10</u>
RSB FT Overflow *	<u>07:58</u>		Grab	No	No	Plastic	2	1000	NH3, pH, TSS, Pb, Zn	<u>11</u>
RSB FT Influent *	<u>07:39</u>		Grab	No	No	Plastic	1	500	TSS	<u>12</u>
BFTD *	<u>07:57</u>		Grab	No	No	Plastic	1	500	TSS	<u>13</u>
999 *	<u>07:45</u>		Grab	No	No	Plastic	1	500	TSS, pH	<u>14</u>
BFTC *	<u>08:05</u>		Grab	No	No	Plastic	1	500	TSS	<u>15</u>
002 **	<u>08:09</u>		Grab	No	No	Plastic	1	125	pH	<u>16</u>
WAL 1 **	<u>08:19</u>		Grab	No	No	Glass	1	1000	TSS, pH	<u>17</u>
WAL 2 **	<u>5-D</u>		Grab	No	No	Glass	1	1000	TSS, pH	18
WAL 3 **	<u>08:19</u>		Grab	No	No	Glass	1	1000	TSS, pH	19
SWTP *	<u>8-D</u>	***	Grab	No	No	Plastic	<u>25</u>	1000	TSS	<u>18-22</u>

**** Sample collected by Water Process personnel

NO CM 3
NO HM 1

5.7
-0.3

5.4

Relinquished by: [Signature]
Received by: [Signature]

Date: 9-9-19
Date: 9/9/19

Time: 08:25
Time: 08:25

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

19J0418 Carey Gadzala
ArcelorMittal - Burns Harbor, IN
Daily
09/09/2019



Microbac Laboratories, Inc. - Chicagoland Division

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

Date/Time: 9/8/19
 Analyst: DIF
 pH Paper Lot #: HJ626
 LCS ID: A9074

KI Solution: 146367
 Acetate buffer: 147996
 PAO Titrant: 145348

Exp. Date
6/30/20
7/29/20
5/31/20

Sample ID	Sample Vol. (mL)	pH (pH Units)	Titrant Start (mL)	Titrant Stop (mL)	Titrant Vol. (mL)	Result (mg/L)
Blank	200	4.0	0.00	0.00	0.00	0.00
LCS		4.0		0.02	0.02	0.02
Outfall 001		4.0		0.00	0.00	0.00
Outfall 002		4.0		0.00	0.00	0.00
Outfall 003		4.0		0.00	0.00	0.00
Outfall 011		4.0		0.00	0.00	0.00
Outfall 011 Dup		4.0		0.00	0.00	0.00
Outfall 003 Dup		4.0		0.00	0.00	0.00

Date/Time: 9/9/19
 Analyst: STF
 pH Paper Lot #: HJ626
 LCS ID: A9074

KI Solution: 146367
 Acetate buffer: 147996
 PAO Titrant: 145348

Exp. Date
6/30/20
7/29/20
5/31/20

Sample ID	Sample Vol. (mL)	pH (pH Units)	Titrant Start (mL)	Titrant Stop (mL)	Titrant Vol. (mL)	Result (mg/L)
Blank	200	4.0	6.00	0.00	0.00	0.00
LCS		4.0		0.04	0.04	0.04
Outfall 001		4.0		0.00	0.00	0.00
Outfall 002		4.0		0.00	0.00	0.00
Outfall 003		4.0		0.00	0.00	0.00
Outfall 011		4.0		0.00	0.00	0.00
Outfall 011 Dup		4.0		0.00	0.00	0.00
Outfall 001 Dup		4.0		0.00	0.00	0.00

revision: a_01_2016

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

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

Sample ID	pH	Analyst	Date/Time of Analysis
185909	188312	DTF	9/9/19 0820
4: Buffer ID: 185909	7: 188312	10: 19/046	
Meter ID: 185909			
Calibration: 4/7/10			
ICV: 4/7/10			
Slope: 999			
Lake 999: 7.12			
Location 001: 7.78			
Location 002: 8.01			
Location 011: 7.71			
WAL 1: 8.97			
WAL 2: 8.37			
SWTP J-Box: 8.37			
DIW 131: 8.51			
RSB: 8.51			
Dup- J Box: 8.39			
CCV: 2.01			



Sample ID	pH	Analyst	Date/Time of Analysis
4: Buffer ID: [blank]	7: [blank]	10: [blank]	
Meter ID: [blank]			
Calibration: 4/7/10			
ICV: 4/7/10			
Slope: [blank]			
Lake 999: [blank]			
Location 001: [blank]			
Location 002: [blank]			
Location 011: [blank]			
WAL 1: [blank]			
WAL 2: [blank]			
SWTP J-Box: [blank]			
DIW 131: [blank]			
RSB: [blank]			
Dup- [blank]			
CCV: [blank]			

Env 66x Rev. 1 07/01/16(TEK)

Date: 08.25
Time: 08:20

Date: 9-9-19
Date: 9/9/19

Relinquished by: [Signature]
Received by: Dawn + Amp

0.11 = 0.00

* From composite sample bottle for that day

Location	Time	Sampler	Type	Preserved	Cooled	Containers			Parameters	Comments
						Type	Qty	Vol. (ml)		
001	08:20	Grab	No	No	plastic	1	500	total residual chlorine	0.00	
002	08:09	Grab	No	No	plastic	1	500	total residual chlorine	0.00	
003	07:45	Grab	No	No	plastic	1	500	total residual chlorine	0.00	
DUP 601		Grab	No	No	plastic	1	500	total residual chlorine	0.00	

Daily During Zebra Muscle Treatment

ArcelorMittal Burns Harbor/Microbac Labs

Chain of Custody

Lab Work No: _____

* Date Obtained: 9-9-19
** Sample Date: 9-8-19

ArcelorMittal





Burns Harbor
Contractor timesheet

Section 1
 Date 9/9/19 Shift Day Contractor company name MICROBAC LABS Contractor ref # /job # _____ Form number 309695
 ArcelorMittal Representative Warren Howard PO number _____ Requisition number 0799897
 Department E-0 Description of work WATER SAMPLES Percent job complete _____

Section 2
 Badge no. 188897 Last name FARRIS First name DARREN Craft TEC ST 1 OT _____ DT _____ Total 1
 Job notes _____

Bilable equipment/subcontractors/material		Job notes	
ID	Description	ID	Description
Qty	Hours/amt total	Qty	Hours/amt total
ID	Description	ID	Description
Qty	Hours/amt total	Qty	Hours/amt total
ID	Description	ID	Description
Qty	Hours/amt total	Qty	Hours/amt total
ID	Description	ID	Description
Qty	Hours/amt total	Qty	Hours/amt total
ID	Description	ID	Description
Qty	Hours/amt total	Qty	Hours/amt total
ID	Description	ID	Description
Qty	Hours/amt total	Qty	Hours/amt total
ID	Description	ID	Description
Qty	Hours/amt total	Qty	Hours/amt total

Shift start time _____
 Shift end time _____
 Total hours this sheet 1
 Previous hours _____
 Total hours to date 1
 Is this job capital work? Yes No

Section 3 Enter the total hours worked by each craft in the box to the right of each abbreviation. See reverse side of form for an explanation of the abbreviations.

ABW	CL	EL	GLZ	JAN	LTR	PF	TEC
BL	CO	EN	INS	LA	MW	PT	TST
BM	CP	FN	IW	LIC	OE	SU	TM

Section 4
 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 Darren Farris Job title FLD SERVICE TECH
 Printed name DARREN FARRIS Date 9/9/19
 Work authorization permit # 307302
 ArcelorMittal authorization signature Warren Howard Job title Supervisor
 Printed name Warren Howard Date 9/9/19

307302

Daily work authorization form for all visiting workers



ArcelorMittal

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.

Section 1

The named contractor or work crew is cleared to perform the job described herein:

Company name MICROBAC LABS ArcelorMittal representative Walter Howard Date 9/19/19
 Company contact/phone no CAREY GAZZALA 709 8378 ArcelorMittal representative department ESD Cell _____
 Location and project/job description ENVIRO BLDG / WATER SAMPLES ArcelorMittal representative phone number 4863 Clinic pickup point 46

Section 2

HIRAC-Lite	Yes	N/A	No	Yes	N/A	No
1) Are emergency evacuation areas identified and known?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) Is there a current and valid isolation (LOTO) procedure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Will everyone apply a personal safety lock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) Are there potential hazards or high risk job steps?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Do we have the correct tools for the job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Is additional PPE required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10) Could someone be caught in or between anything?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11) Could someone get hurt as a result of a fall from height?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12) Can something fall and/or strike me or someone else?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13) Is everyone properly trained for this job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14) Are flags and details in place if needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15) Can we slip or trip on anything (including travel to and from the job)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16) Have all affected people been notified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17) Can we strain or overexert ourselves?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other Hazards and Considerations for Discussion

	Yes	N/A	No	Yes	N/A	No
19) Pneumatic air tools & lines	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20) Vehicle / mob equip traffic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21) Gas hazards-CO, CO2, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22) Hot process, metal, temp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23) Pressurized / steam pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24) Housekeeping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25) Production hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26) Material handling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27) Crane and rigging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28) Overhead work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29) Scaffold work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30) Explosives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31) Barricades	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32) Radiation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33) Asbestos	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34) Noise	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35) Lasers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36) Sewers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 3

Visiting worker name (print) D. FARRIS Badge # 186897
 Hierarchy of Controls: 1. Elimination 2. Substitution 3. Engineering 4. Administrative 5. PPE
 Controls: _____ Hazard # _____
 Responsible Person: D. FARRIS Hazard # _____
 Controls: _____ Hazard # _____
 Responsible Person: _____ Hazard # _____

15 Beware of uneven surface
 17 Proper lifting of cables
 20 Vehicle movement

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 ArcelorMittal representative named below.
 Contractor or crew leader Daniel Tamb ArcelorMittal representative Walter Howard Replacement rep/phone _____
 (Ensure form is fully completed prior to signing) Original to contractor, (1) copy to ArcelorMittal representative
 Controlled by Maintenance Administration Dept. ArcelorMittal Harbor
 2016-04-BH-Daily Work Authorization