



September 11, 2019

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

Work Order No.: 19H1299

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 26 sample(s) on 8/21/2019 10:00:00AM for the analyses presented in the following report as Work Order 19H1299.

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](mailto: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)

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)



**WORK ORDER SAMPLE SUMMARY**

**Date:** *Wednesday, September 11, 2019*

**Client:** Arcelor Mittal USA, Inc.  
**Project:** Daily  
**Lab Order:** 19H1299

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1299-01	011-Composite	011	08/20/2019 05:25	8/21/2019 10:00:00AM
19H1299-02	011-Grab	011	08/20/2019 05:25	8/21/2019 10:00:00AM
19H1299-03	001-Composite	001	08/20/2019 06:00	8/21/2019 10:00:00AM
19H1299-04	001-Grab	001	08/20/2019 06:00	8/21/2019 10:00:00AM
19H1299-05	031-Grab	031	08/21/2019 06:12	8/21/2019 10:00:00AM
19H1299-06	Mixed Liquor-Grab	Mixed Liquor	08/21/2019 06:14	8/21/2019 10:00:00AM
19H1299-07	J-Box-Grab	J-Box	08/21/2019 06:10	8/21/2019 10:00:00AM
19H1299-08	WWII-Grab	WWII	08/21/2019 06:51	8/21/2019 10:00:00AM
19H1299-09	Coldwell-Grab	Coldwell	08/21/2019 07:03	8/21/2019 10:00:00AM
19H1299-10	RSB FT Overflow-Grab	RSB FT Overflow	08/21/2019 07:08	8/21/2019 10:00:00AM
19H1299-11	RSB FT Influent-Grab	RSB FT Influent	08/21/2019 07:09	8/21/2019 10:00:00AM
19H1299-12	BFTD-Grab	BFTD	08/21/2019 07:34	8/21/2019 10:00:00AM
19H1299-13	WPL-Grab	WPL	08/21/2019 07:15	8/21/2019 10:00:00AM
19H1299-14	999-Grab	999	08/21/2019 07:20	8/21/2019 10:00:00AM
19H1299-15	BFTC-Grab	BFTC	08/21/2019 07:39	8/21/2019 10:00:00AM
19H1299-16	002-Composite	002	08/20/2019 07:46	8/21/2019 10:00:00AM
19H1299-17	002-Grab	002	08/20/2019 07:46	8/21/2019 10:00:00AM
19H1299-18	WAL-Grab	WAL	08/20/2019 07:56	8/21/2019 10:00:00AM
19H1299-20	CM1-Grab	CM1	08/21/2019 00:00	8/21/2019 10:00:00AM
19H1299-21	CM2-Grab	CM2	08/21/2019 00:00	8/21/2019 10:00:00AM
19H1299-22	CM3-Grab	CM3	08/21/2019 00:00	8/21/2019 10:00:00AM
19H1299-23	CM6-Grab	CM6	08/21/2019 00:00	8/21/2019 10:00:00AM
19H1299-24	HM1-Grab	HM1	08/21/2019 00:00	8/21/2019 10:00:00AM
19H1299-25	HM2-Grab	HM2	08/21/2019 00:00	8/21/2019 10:00:00AM
19H1299-26	HM3-Grab	HM3	08/21/2019 00:00	8/21/2019 10:00:00AM

Microbac Laboratories, Inc.

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## Field Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order:</b>	19H1299
<b>Client Project:</b>	Daily		
<b>Client Sample ID:</b>	011-Grab	<b>Work Order/ID:</b>	19H1299-02
<b>Sample Description:</b>	011	<b>Sampled:</b>	08/20/2019 05:25
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/21/2019 10:00

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.9	pH Units

<b>Client Sample ID:</b>	001-Grab	<b>Work Order/ID:</b>	19H1299-04
<b>Sample Description:</b>	001	<b>Sampled:</b>	08/20/2019 06:00
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/21/2019 10:00

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.9	pH Units

<b>Client Sample ID:</b>	J-Box-Grab	<b>Work Order/ID:</b>	19H1299-07
<b>Sample Description:</b>	J-Box	<b>Sampled:</b>	08/21/2019 06:10
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/21/2019 10:00

Analyses	Result	Units
pH	8.7	pH Units

<b>Client Sample ID:</b>	RSB FT Overflow-Grab	<b>Work Order/ID:</b>	19H1299-10
<b>Sample Description:</b>	RSB FT Overflow	<b>Sampled:</b>	08/21/2019 07:08
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/21/2019 10:00

Analyses	Result	Units
pH	8.9	pH Units

<b>Client Sample ID:</b>	999-Grab	<b>Work Order/ID:</b>	19H1299-14
<b>Sample Description:</b>	999	<b>Sampled:</b>	08/21/2019 07:20
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/21/2019 10:00

Analyses	Result	Units
pH	8.2	pH Units

<b>Client Sample ID:</b>	002-Grab	<b>Work Order/ID:</b>	19H1299-17
<b>Sample Description:</b>	002	<b>Sampled:</b>	08/20/2019 07:46
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/21/2019 10:00

Analyses	Result	Units
pH	8.4	pH Units

<b>Client Sample ID:</b>	WAL-Grab	<b>Work Order/ID:</b>	19H1299-18
<b>Sample Description:</b>	WAL	<b>Sampled:</b>	08/20/2019 07:56
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/21/2019 10:00

Analyses	Result	Units
pH	8.6	pH Units

## Field Results

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Date: *Wednesday, September 11, 2019*

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**CASE NARRATIVE**

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**Date:** *Wednesday, September 11, 2019*

**Client:** Arcelor Mittal USA, Inc.

**Project:** Daily

**Lab Order:** 19H1299

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Report has been revised at the clients request to include Cu and Ag for Outfall 001. 9/11/19

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-01
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/20/2019 5:25
<b>Client Sample ID:</b>	011-Composite	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	011		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Method: EPA 200.7 Rev 4.4									
Analyst: BTM									
Prep Date/Time: 08/21/2019 10:38									
<b>Total Recoverable Metals by ICP</b>									
Lead	ejj	A	ND	0.0033	0.0075	U	mg/L	1	08/21/2019 13:56
Zinc	ejj	A	0.011	0.0073	0.020		mg/L	1	08/21/2019 13:56
Method: SM 4500-CN C/E-1999									
Analyst: ABG									
Prep Date/Time: 08/21/2019 10:45									
<b>Total Cyanide</b>									
Cyanide, Total	ejj	A	0.0072	0.0020	0.0050		mg/L	1	08/21/2019 13:58
Method: SW-846 9014									
Analyst: AJR									
Prep Date/Time: 08/27/2019 12:44									
<b>Free Cyanide</b>									
Free Cyanide		A	0.0083		0.0062		mg/L	1	08/27/2019 13:18
Method: EPA 350.1 Rev 2.0									
Analyst: ABG									
Prep Date/Time: 08/21/2019 11:03									
<b>Nitrogen, Ammonia as N</b>									
Nitrogen, Ammonia (As N)	ei	A	0.32	0.054	0.10		mg/L	1	08/21/2019 13:06
Method: EPA 420.4 Rev 1.0									
Analyst: ABG									
Prep Date/Time: 08/21/2019 14:37									
<b>Total Phenolics</b>									
Phenolics, Total Recoverable	ejj	A	ND	0.0060	0.010	U	mg/L	1	08/21/2019 16:39
Method: SM 2540 D-1997									
Analyst: KMT									
Prep Date/Time: 08/21/2019 10:35									
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	2.1	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-02
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/20/2019 5:25
<b>Client Sample ID:</b>	011-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	011		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: EPA 1664B				Analyst: KMT			
<b>Oil &amp; Grease (HEM) by SPE</b>										
Prep Date/Time: 08/21/2019 07:39										
Oil & Grease (HEM)	ejj	A	ND	1.4	5.0	U	mg/L	1	08/21/2019 14:40	

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-03
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/20/2019 6:00
<b>Client Sample ID:</b>	001-Composite	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	001		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
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Method: EPA 200.7 Rev 4.4

Analyst: BTM

### Total Recoverable Metals by ICP

Prep Date/Time: 08/21/2019 10:38

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Copper	ejj	A	0.0036	0.0013	0.010		mg/L	1	08/21/2019 14:01
Lead	ejj	A	ND	0.0033	0.0075	U	mg/L	1	08/21/2019 14:01
Zinc	ejj	A	ND	0.0073	0.020	U	mg/L	1	08/21/2019 14:01

Method: EPA 200.8 Rev 5.4

Analyst: BTM

### Total Recoverable Metals by ICP/MS

Prep Date/Time: 09/08/2019 12:49

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Silver	ejj	A	ND	0.000053	0.00060	U	mg/L	1	09/09/2019 11:51

Method: SM 4500-CN C/E-1999

Analyst: ABG

### Total Cyanide

Prep Date/Time: 08/21/2019 10:45

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Cyanide, Total	ejj	A	0.0028	0.0020	0.0050		mg/L	1	08/21/2019 14:00

Method: SW-846 9014

Analyst: AJR

### Free Cyanide

Prep Date/Time: 08/27/2019 12:44

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Free Cyanide		A	ND		0.0062		mg/L	1	08/27/2019 13:19

Method: EPA 350.1 Rev 2.0

Analyst: ABG

### Nitrogen, Ammonia as N

Prep Date/Time: 08/21/2019 11:03

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Nitrogen, Ammonia (As N)	ei	A	0.31	0.054	0.10		mg/L	1	08/21/2019 13:13

Method: EPA 420.4 Rev 1.0

Analyst: ABG

### Total Phenolics

Prep Date/Time: 08/21/2019 14:37

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Phenolics, Total Recoverable	ejj	A	ND	0.0060	0.010	U	mg/L	1	08/21/2019 16:44

Method: SM 2540 D-1997

Analyst: KMT

### Total Suspended Solids

Prep Date/Time: 08/21/2019 10:35

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Total Suspended Solids	ejj	A	1.6	1.0	1.0		mg/L	1	08/21/2019 12:47



## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-04
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/20/2019 6:00
<b>Client Sample ID:</b>	001-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	001		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: EPA 1664B				Analyst: KMT			
<b>Oil &amp; Grease (HEM) by SPE</b>										
Prep Date/Time: 08/21/2019 07:39										
Oil & Grease (HEM)	ejj	A	ND	1.4	5.0	U	mg/L	1	08/21/2019 14:40	

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-05
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 6:12
<b>Client Sample ID:</b>	031-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	031		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: <b>SM 9222 D-1997</b>				Analyst: <b>ORM</b>			
							Prep Date/Time: <b>08/21/2019 11:21</b>			
<b>Fecal Coliform by Membrane Filtration</b>										
Fecal Coliform	d	A	ND	1.0	1.0	U	CFU/100ml	1	08/21/2019 11:21	
			Method: <b>SM 5210 B-2001</b>				Analyst: <b>EF</b>			
							Prep Date/Time: <b>08/21/2019 15:19</b>			
<b>Biochemical Oxygen Demand</b>										
Biochemical Oxygen Demand	ejj	A	ND	2.0	2.0	U	mg/L	1	08/26/2019 13:44	
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>			
							Prep Date/Time: <b>08/21/2019 10:35</b>			
<b>Total Suspended Solids</b>										
Total Suspended Solids	ejj	A	5.4	1.0	1.0		mg/L	1	08/21/2019 12:47	

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-06
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 6:14
<b>Client Sample ID:</b>	Mixed Liquor-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	Mixed Liquor		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: <b>SM 2540 F-1997</b>				Analyst: <b>AMR</b>			
Prep Date/Time: <b>08/21/2019 11:12</b>										
<b>Settleable Solids</b>										
Settleable Solids	i	A	120	1.0	1.0		ml/L	1	08/21/2019 11:12	
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>			
Prep Date/Time: <b>08/21/2019 10:35</b>										
<b>Total Suspended Solids</b>										
Total Suspended Solids	ejj	A	1400	1.0	1.0		mg/L	1	08/21/2019 12:47	

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-07
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 6:10
<b>Client Sample ID:</b>	J-Box-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	J-Box		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 350.1 Rev 2.0			Analyst: ABG			
						Prep Date/Time: 08/21/2019 11:03			
<b>Nitrogen, Ammonia as N</b>									
Nitrogen, Ammonia (As N)	ei	A	0.22	0.054	0.10		mg/L	1	08/21/2019 13:16
			Method: EPA 420.4 Rev 1.0			Analyst: ABG			
						Prep Date/Time: 08/21/2019 14:37			
<b>Total Phenolics</b>									
Phenolics, Total Recoverable	ejj	A	ND	0.0060	0.010	U	mg/L	1	08/21/2019 16:46
			Method: SM 2540 D-1997			Analyst: KMT			
						Prep Date/Time: 08/21/2019 10:35			
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	12	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-08
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 6:51
<b>Client Sample ID:</b>	WWII-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	WWII		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>			
			Prep Date/Time: <b>08/21/2019 10:45</b>						
<b>Total Cyanide</b>									
Cyanide, Total	ejj	A	0.035	0.0020	0.0050		mg/L	1	08/21/2019 14:02

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-09
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 7:03
<b>Client Sample ID:</b>	Coldwell-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	Coldwell		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 200.7 Rev 4.4			Analyst: RPL			
<b>Total Recoverable Metals by ICP</b>						Prep Date/Time: 08/22/2019 08:48			
Lead	ejj	A	0.053	0.0033	0.0075		mg/L	1	08/22/2019 13:29
Zinc	ejj	A	0.35	0.0073	0.020		mg/L	1	08/22/2019 13:29
			Method: SM 4500-CN C/E-1999			Analyst: ABG			
<b>Total Cyanide</b>						Prep Date/Time: 08/21/2019 10:45			
Cyanide, Total	ejj	A	0.18	0.0020	0.0050		mg/L	1	08/21/2019 14:03
			Method: EPA 350.1 Rev 2.0			Analyst: ABG			
<b>Nitrogen, Ammonia as N</b>						Prep Date/Time: 08/21/2019 11:03			
Nitrogen, Ammonia (As N)	ei	A	47	0.54	1.0		mg/L	1	08/21/2019 13:18
			Method: SM 2540 D-1997			Analyst: KMT			
<b>Total Suspended Solids</b>						Prep Date/Time: 08/21/2019 10:35			
Total Suspended Solids	ejj	A	51	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-10
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 7:08
<b>Client Sample ID:</b>	RSB FT Overflow-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	RSB FT Overflow		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 200.7 Rev 4.4			Analyst: RPL			
<b>Total Recoverable Metals by ICP</b>									
Prep Date/Time: 08/22/2019 08:48									
Lead	ejj	A	0.055	0.0033	0.0075		mg/L	1	08/22/2019 13:34
Zinc	ejj	A	0.15	0.0073	0.020		mg/L	1	08/22/2019 13:34
			Method: EPA 350.1 Rev 2.0			Analyst: ABG			
<b>Nitrogen, Ammonia as N</b>									
Prep Date/Time: 08/21/2019 11:03									
Nitrogen, Ammonia (As N)	ei	A	8.5	0.054	0.10		mg/L	1	08/21/2019 13:21
			Method: SM 2540 D-1997			Analyst: KMT			
<b>Total Suspended Solids</b>									
Prep Date/Time: 08/21/2019 10:35									
Total Suspended Solids	ejj	A	20	1.0	1.0		mg/L	1	08/21/2019 12:47



## Analytical Results

Date: Wednesday, September 11, 2019

**Client:** Arcelor Mittal USA, Inc.  
**Client Project:** Daily  
**Client Sample ID:** RSB FT Influent-Grab  
**Sample Description:** RSB FT Influent  
**Matrix:** Aqueous

**Work Order/ID:** 19H1299-11  
**Sampled:** 08/21/2019 7:09  
**Received:** 08/21/2019 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: SM 2540 D-1997			Analyst: KMT			
			Prep Date/Time: 08/21/2019 10:35						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	3200	1.0	1.0		mg/L	1	08/21/2019 12:47

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## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-12
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 7:34
<b>Client Sample ID:</b>	BFTD-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	BFTD		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
			Prep Date/Time: <b>08/21/2019 10:35</b>						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	30	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-13
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 7:15
<b>Client Sample ID:</b>	WPL-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	WPL		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: <b>SM 4500 H+ B-2000</b>				Analyst: <b>DAT</b>			
										Prep Date/Time: <b>08/22/2019 10:04</b>
<b>pH</b>										
pH	ejj	A	< 2		2.00	H	S.U.	1	08/22/2019 10:04	
			Method: <b>SM 2710 F-2004</b>				Analyst: <b>DAT</b>			
										Prep Date/Time: <b>08/21/2019 12:13</b>
<b>Specific Gravity</b>										
Specific Gravity		A	1.31	0.0100	0.0100		T/4 C	1	08/21/2019 12:13	

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-14
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 7:20
<b>Client Sample ID:</b>	999-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	999		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
			Prep Date/Time: <b>08/21/2019 10:35</b>						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	6.1	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-15
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 7:39
<b>Client Sample ID:</b>	BFTC-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	BFTC		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
			Prep Date/Time: <b>08/21/2019 10:35</b>						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	<b>46</b>	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-16
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/20/2019 7:46
<b>Client Sample ID:</b>	002-Composite	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	002		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>		
			Prep Date/Time: <b>08/21/2019 10:35</b>						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	1.9	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-17
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/20/2019 7:46
<b>Client Sample ID:</b>	002-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	002		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Method: EPA 1664B					Analyst: KMT				
<b>Oil &amp; Grease (HEM) by SPE</b>									
Prep Date/Time: 08/21/2019 07:39									
Oil & Grease (HEM)	ejj	A	ND	1.4	5.0	U	mg/L	1	08/21/2019 14:40

## Analytical Results

Date: Wednesday, September 11, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-18
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/20/2019 7:56
<b>Client Sample ID:</b>	WAL-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	WAL		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: EPA 1664B				Analyst: KMT		
Prep Date/Time: 08/21/2019 07:39									
<b>Oil &amp; Grease (HEM) by SPE</b>									
Oil & Grease (HEM)	ejj	A	8.2	1.4	5.0		mg/L	1	08/21/2019 14:40
			Method: SM 2710 F-2004				Analyst: DAT		
Prep Date/Time: 08/21/2019 12:13									
<b>Specific Gravity</b>									
Specific Gravity		A	0.999	0.0100	0.0100		T/4 C	1	08/21/2019 12:13
			Method: SM 2540 D-1997				Analyst: KMT		
Prep Date/Time: 08/21/2019 10:35									
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	5.2	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-20
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 0:00
<b>Client Sample ID:</b>	CM1-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	CM1		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
			Prep Date/Time: <b>08/21/2019 10:35</b>						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	<b>11</b>	1.0	1.0		mg/L	1	08/21/2019 12:47





# Analytical Results

Date: Wednesday, September 11, 2019

**Client:** Arcelor Mittal USA, Inc.  
**Client Project:** Daily  
**Client Sample ID:** CM2-Grab **Work Order/ID:** 19H1299-21  
**Sample Description:** CM2 **Sampled:** 08/21/2019 0:00  
**Matrix:** Aqueous **Received:** 08/21/2019 10:00

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: SM 2540 D-1997				Analyst: KMT			
<b>Total Suspended Solids</b>										
Prep Date/Time: 08/21/2019 10:35										
Total Suspended Solids	ejj	A	12	1.0	1.0		mg/L	1	08/21/2019 12:47	

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-22
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 0:00
<b>Client Sample ID:</b>	CM3-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	CM3		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
			Prep Date/Time: <b>08/21/2019 10:35</b>						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	<b>14</b>	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-23
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 0:00
<b>Client Sample ID:</b>	CM6-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	CM6		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
<b>Total Suspended Solids</b>									
Prep Date/Time: <b>08/21/2019 10:35</b>									
Total Suspended Solids	ejj	A	12	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-24
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 0:00
<b>Client Sample ID:</b>	HM1-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	HM1		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>						
						Analyst: <b>KMT</b>			
						Prep Date/Time: <b>08/21/2019 10:35</b>			
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	<b>10</b>	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-25
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 0:00
<b>Client Sample ID:</b>	HM2-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	HM2		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
			Prep Date/Time: <b>08/21/2019 10:35</b>						
<b>Total Suspended Solids</b>									
Total Suspended Solids	ejj	A	25	1.0	1.0		mg/L	1	08/21/2019 12:47

## Analytical Results

Date: *Wednesday, September 11, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1299-26
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/21/2019 0:00
<b>Client Sample ID:</b>	HM3-Grab	<b>Received:</b>	08/21/2019 10:00
<b>Sample Description:</b>	HM3		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>			Analyst: <b>KMT</b>			
<b>Total Suspended Solids</b>									
Prep Date/Time: <b>08/21/2019 10:35</b>									
Total Suspended Solids	ejj	A	20	1.0	1.0		mg/L	1	08/21/2019 12:47

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**ANALYTE TYPES: (AT)**

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



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**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)

e Illinois DOPH Micro analysis of drinking water (#1755266)

i Kansas Dept Health &amp; Env. NELAP (#E-10397)

j Kentucky Wastewater Laboratory Certification Program (#108202)

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**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)****H:** Sample was analyzed past holding time.**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®

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### 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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Microbac Laboratories, Inc.

250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)





# Chain of Custody

ArcelorMittal Burns Harbor/Microbac Labs

Wednesday

Lab Work No: 19H1299

\* Date Obtained 8-21-19

\*\* Sample Date: 8-20-19

Location	Time	Sampler	Type	Preserved	Cooled	Containers			Parameters	Comments
						Type	Qty	Vol. (ml)		
011 **	05:25	CP	Comp	No	Yes	Glass	1	4000	NH3, TSS, Phenol, Zn, Cn, Pb	01
			Grab	No	No	Plastic	1	500	pH, Tot Res Cl	02
			Grab	Yes	No	Glass	1	1000	FOG (prepreserved)	↓
001 **	06:00		Comp	No	Yes	Glass	1	4000	NH3, Phenol, TSS	03
			Grab	No	Yes	Plastic	1	500	pH, Tot Res Cl	04
			Grab	Yes	No	Glass	1	1000	FOG (prepreserved)	↓
031 *	06:12		Grab	No	No	Plastic	1	1000	TSS	05
			Grab	No	No	Plastic	1	1000	BOD	↓
			Grab	Yes	No	Plastic	1	125	Fecal (sterilized bottle)	↓
Mixed Liquor *	06:14		Grab	No	No	Plastic	1	2000	TSS, Settling	06
J-Box *	06:10		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	07
DIW-131 *	NA		Grab	No	No	Plastic	1	125	pH	08
WWII *	06:51		Grab	No	No	Plastic	1	1000	Cn	08
Coldwell	07:03		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	09
RSB FT Overflow *	07:08		Grab	No	No	Plastic	2	1000	NH3, pH, TSS, Pb, Zn	10
RSB FT Influent *	07:09		Grab	No	No	Plastic	1	500	TSS	11
BFTD *	07:21		Grab	No	No	Plastic	1	500	TSS	12
WPL ***	07:15		Grab	No	No	Glass	1	1000	SpG, pH	13
999 *	07:20		Grab	No	No	Plastic	1	500	TSS, pH	14
BFTC *	07:39		Grab	No	No	Plastic	1	500	TSS	15
002 **	07:46		Comp	No	Yes	Plastic	1	500	TSS	16
			Grab	No	No	Plastic	1	125	pH	17
			Grab	Yes	No	Glass	1	1000	FOG (prepreserved)	↓
WAL 1**	07:56		Grab	No	No	Glass	1	1000	TSS, SpG, pH	18
			Grab	Yes	No	Glass	2	1000	FOG (prepreserved)	↓ 19
WAL 2**	SD		Grab	No	No	Glass	1	1000	TSS, SpG, pH	19
			Grab	Yes	No	Glass	2	1000	FOG (prepreserved)	↓
WAL 3**	07:57		Grab	No	No	Glass	1	1000	TSS, SpG, pH	20
			Grab	Yes	No	Glass	2	1000	FOG (prepreserved)	↓
SWTP *		****	Grab	No	No	Plastic	7	1000	TSS	20-26

\*\*\* WPL is for previous sample date  
 \*\*\*\* Sample collected by Water Process personnel

7.7  
 0.1 - 0.3  
 7.4<sup>e</sup>

Relinquished by: CPD  
 Received by: PC - CDO

Date: 8-21-19 Time: 08:00  
 Date: 8/21/19 Time: 0800

Env 3x Rev. 15 04/27/17 (TEK)

19H1299 Carey Gadzala  
 ArcelorMittal - Burns Harbor, IN  
 Daily  
 08/21/2019



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

Date/Time: 8/20/14 0800  
 Analyst: BAO  
 pH Paper Lot #: HJ626  
 LCS ID: A9074

Exp. Date  
11/20

STD ID / Lot #  
146367  
 KI Solution:  
 Acetate buffer: 146366  
 PAO Titrant: 145348

Exp. Date  
6/30/19  
7/25/20  
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		0.03	0.03	0.03
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: 8/21/14 0800  
 Analyst: BAO  
 pH Paper Lot #: HJ626  
 LCS ID: A9074

Exp. Date  
11/20

STD ID / Lot #  
146367  
 KI Solution:  
 Acetate buffer: 146366  
 PAO Titrant: 145348

Exp. Date  
6/30/19  
7/25/20  
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 001 Dup		4.0		0.00	0.00	0.00

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

revision: a\_01\_2016



MICROBAC LABORATORIES  
**pH - METHOD 9045D**  
**Arcelor Mittal /Burns Harbor NPDES**

Sample ID	pH		Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 195909	7: 188312	10: 187680	
Calibration	(4) @ 10 4 / 7 / 10		BAO	8/21/19 0800
ICV		6.99		
Slope		99.1		
Lake 999		8.22		
Location 001		7.90		
Location 002		8.41		
Location 011		7.90		
WAL 1		8.62		
WAL 2				
SWTP J-Box		8.73		
DIW 131				
RSB		8.86		
Dup- 002		8.42		
CCV		7.00	✓	✓

Sample ID	pH		Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4:	7:	10:	
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				





307243

# 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 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  
Company contact/phone no. Carey Galzale 768-8378  
Location and project/job description Enrico Bldg/water Samples

ArcelorMittal representative Warren Howard  
ArcelorMittal representative department ESD  
ArcelorMittal representative phone number 4863

## Section 2

Clinic pickup point 46

HIRAC-Lite	Yes	N/A	No	10) Could someone be caught in or between anything?	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 checked="" type="checkbox"/>
2) Is there a current and valid isolation (LOTO) procedure?	<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 checked="" type="checkbox"/>
3) Will everyone apply a personal safety lock?	<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 checked="" type="checkbox"/>
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?	<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 checked="" type="checkbox"/>
5) Are there potential hazards or high risk job steps?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14) Are flags and derrails in place if needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6) Do we have the correct tools for the job?	<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 checked="" type="checkbox"/>
7) Is additional PPE required?	<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 checked="" type="checkbox"/>
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	<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 checked="" 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"/>	18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Other Hazards and Considerations for Discussion

	Yes	N/A	No	24) Housekeeping	Yes	N/A	No	33) Asbestos	Yes	N/A	No
19) Pneumatic air tools & lines	<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 checked="" type="checkbox"/>
20) Vehicle / mob equip traffic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30) Explosives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	34) Noise	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21) Gas hazards-CO, CO2, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31) Barricades	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	35) Lasers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22) Hot process, metal, temp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32) Radiation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	36) Sewers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Section 3

Visiting worker name (print) B. Otto  
Badge # 164042

Hierarchy of Controls  
1. Elimination  
2. Substitution  
3. Engineering  
4. Administrative  
5. PPE

Hazard #

Controls

Responsible Person

Hazard #

Responsible Person

15 Beware of uneven surface  
17 Proper lifting of gears  
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 B. Otto ArcelorMittal representative Warren 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  
2016-04-BH-DailyWorkAuthorization

