

August 16, 2019

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

Work Order No.: 19H0921

Re: Special

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 10 sample(s) on 8/14/2019 5:55:00PM for the analyses presented in the following report as Work Order 19H0921.

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.



Carey Gadzala  
Project Manager



**WORK ORDER SAMPLE SUMMARY**

**Date:** *Friday, August 16, 2019*

**Client:** Arcelor Mittal USA, Inc.  
**Project:** Special  
**Lab Order:** 19H0921

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H0921-01	Location 8		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-02	Location 7		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-03	Location 5		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-04	Location 6		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-05	Location 2 (011)		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-06	Location 3 (001)		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-07	Location 4		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-08	Location 1		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-09	Location Near Entrance		08/14/2019 14:09	8/14/2019 5:55:00PM
19H0921-10	Location 160		08/14/2019 14:09	8/14/2019 5:55:00PM

## Field Results

Date: *Friday, August 16, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order:</b>	19H0921
<b>Client Project:</b>	Special		
<b>Client Sample ID:</b>	Location 8	<b>Work Order/ID:</b>	19H0921-01
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	7.68	pH Units

<b>Client Sample ID:</b>	Location 7	<b>Work Order/ID:</b>	19H0921-02
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.09	pH Units

<b>Client Sample ID:</b>	Location 5	<b>Work Order/ID:</b>	19H0921-03
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.18	pH Units

<b>Client Sample ID:</b>	Location 6	<b>Work Order/ID:</b>	19H0921-04
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.12	pH Units

<b>Client Sample ID:</b>	Location 2 (011)	<b>Work Order/ID:</b>	19H0921-05
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.20	pH Units

<b>Client Sample ID:</b>	Location 3 (001)	<b>Work Order/ID:</b>	19H0921-06
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.19	pH Units

<b>Client Sample ID:</b>	Location 4	<b>Work Order/ID:</b>	19H0921-07
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.09	pH Units

## Field Results

Date: *Friday, August 16, 2019*

<b>Client Sample ID:</b>	Location 1	<b>Work Order/ID:</b>	19H0921-08
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.25	pH Units

<b>Client Sample ID:</b>	Location Near Entrance	<b>Work Order/ID:</b>	19H0921-09
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.28	pH Units

<b>Client Sample ID:</b>	Location 160	<b>Work Order/ID:</b>	19H0921-10
<b>Sample Description:</b>		<b>Sampled:</b>	08/14/2019 14:09
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/14/2019 17:55

Analyses	Result	Units
pH	8.41	pH Units



# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 8  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-01  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B			Analyst: jln		
Volatile Organic Compounds			Prep Method: NA	Prep Date/Time: 08/15/2019 07:24				
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 11:11
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 11:11
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 11:11
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 11:11
Acetone	di	A	ND	50		µg/L	1	08/15/2019 11:11
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 11:11
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 11:11
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 11:11
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 11:11
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 11:11
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 11:11
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 11:11
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:11
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 11:11
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 11:11

Microbac Laboratories, Inc.

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## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 8  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-01  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: <b>SW-846 8260B</b>			Analyst: <b>jln</b>		
<b>Volatile Organic Compounds</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 07:24</b>		
Vinyl chloride	<b>di</b>	A	<b>ND</b>	1.0		µg/L	1	08/15/2019 11:11
Total 1,2-Dichloroethene		M	<b>ND</b>	5.0		µg/L	1	08/15/2019 11:11
Total Xylenes	<b>di</b>	M	<b>ND</b>	5.0		µg/L	1	08/15/2019 11:11
Surr: 1,2-Dichloroethane-d4		S	106	74.5-132		%REC	1	08/15/2019 11:11
Surr: 4-Bromofluorobenzene		S	102	80-120		%REC	1	08/15/2019 11:11
Surr: Dibromofluoromethane		S	104	80-120		%REC	1	08/15/2019 11:11
Surr: Toluene-d8		S	105	80-120		%REC	1	08/15/2019 11:11
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>		
<b>Total Cyanide</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 09:35</b>		
Cyanide, Total	<b>dij</b>	A	<b>ND</b>	0.0050		mg/L	1	08/15/2019 15:18
			Method: <b>SM 4500-O C-2001</b>			Analyst: <b>DAT</b>		
<b>Dissolved Oxygen</b>			Prep Method: <b>SM 4500-O C-2001</b>			Prep Date/Time: <b>08/15/2019 10:21</b>		
Oxygen, Dissolved	<b>di</b>	A	<b>9.1</b>	0.20	H	mg/L	1	08/15/2019 10:21
			Method: <b>EPA 350.1 Rev 2.0</b>			Analyst: <b>EF</b>		
<b>Nitrogen, Ammonia as N</b>			Prep Method: <b>EPA 350.1 Rev 2.0</b>			Prep Date/Time: <b>08/15/2019 13:55</b>		
Nitrogen, Ammonia (As N)	<b>di</b>	A	<b>0.14</b>	0.10		mg/L	1	08/15/2019 18:49



# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 7  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-02  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B			Analyst: jln		
Volatile Organic Compounds			Prep Method: NA	Prep Date/Time: 08/15/2019 07:24				
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 11:32
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 11:32
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 11:32
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 11:32
Acetone	di	A	ND	50		µg/L	1	08/15/2019 11:32
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 11:32
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 11:32
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 11:32
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 11:32
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 11:32
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 11:32
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 11:32
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:32
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 11:32
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 11:32

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## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 7  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-02  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: <b>SW-846 8260B</b> Analyst: <b>jln</b> Prep Method: <b>NA</b> Prep Date/Time: <b>08/15/2019 07:24</b>								
<b>Volatile Organic Compounds</b>								
Vinyl chloride	di	A	ND	1.0		µg/L	1	08/15/2019 11:32
Total 1,2-Dichloroethene		M	ND	5.0		µg/L	1	08/15/2019 11:32
Total Xylenes	di	M	ND	5.0		µg/L	1	08/15/2019 11:32
Surr: 1,2-Dichloroethane-d4		S	107	74.5-132		%REC	1	08/15/2019 11:32
Surr: 4-Bromofluorobenzene		S	100	80-120		%REC	1	08/15/2019 11:32
Surr: Dibromofluoromethane		S	105	80-120		%REC	1	08/15/2019 11:32
Surr: Toluene-d8		S	104	80-120		%REC	1	08/15/2019 11:32
Method: <b>SM 4500-CN C/E-1999</b> Analyst: <b>ABG</b> Prep Method: <b>NA</b> Prep Date/Time: <b>08/15/2019 09:35</b>								
<b>Total Cyanide</b>								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/15/2019 15:20
Method: <b>SM 4500-O C-2001</b> Analyst: <b>DAT</b> Prep Method: <b>SM 4500-O C-2001</b> Prep Date/Time: <b>08/15/2019 10:21</b>								
<b>Dissolved Oxygen</b>								
Oxygen, Dissolved	di	A	8.6	0.20	H	mg/L	1	08/15/2019 10:21
Method: <b>EPA 350.1 Rev 2.0</b> Analyst: <b>EF</b> Prep Method: <b>EPA 350.1 Rev 2.0</b> Prep Date/Time: <b>08/15/2019 13:55</b>								
<b>Nitrogen, Ammonia as N</b>								
Nitrogen, Ammonia (As N)	di	A	0.18	0.10		mg/L	1	08/15/2019 18:51



# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 5  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-03  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
				Method: SW-846 8260B		Analyst: jln		
Volatile Organic Compounds				Prep Method: NA		Prep Date/Time: 08/15/2019 07:24		
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 11:54
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 11:54
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 11:54
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 11:54
Acetone	di	A	ND	50		µg/L	1	08/15/2019 11:54
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 11:54
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 11:54
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 11:54
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 11:54
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 11:54
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 11:54
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 11:54
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 11:54
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 11:54
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 11:54

Microbac Laboratories, Inc.

## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 5  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-03  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: <b>SW-846 8260B</b>			Analyst: <b>jln</b>		
<b>Volatile Organic Compounds</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 07:24</b>		
Vinyl chloride	<b>di</b>	A	<b>ND</b>	1.0		µg/L	1	08/15/2019 11:54
Total 1,2-Dichloroethene		M	<b>ND</b>	5.0		µg/L	1	08/15/2019 11:54
Total Xylenes	<b>di</b>	M	<b>ND</b>	5.0		µg/L	1	08/15/2019 11:54
Surr: 1,2-Dichloroethane-d4		S	105	74.5-132		%REC	1	08/15/2019 11:54
Surr: 4-Bromofluorobenzene		S	102	80-120		%REC	1	08/15/2019 11:54
Surr: Dibromofluoromethane		S	105	80-120		%REC	1	08/15/2019 11:54
Surr: Toluene-d8		S	104	80-120		%REC	1	08/15/2019 11:54
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>		
<b>Total Cyanide</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 09:35</b>		
Cyanide, Total	<b>dij</b>	A	<b>0.084</b>	0.0050		mg/L	1	08/15/2019 13:41
			Method: <b>SM 4500-O C-2001</b>			Analyst: <b>DAT</b>		
<b>Dissolved Oxygen</b>			Prep Method: <b>SM 4500-O C-2001</b>			Prep Date/Time: <b>08/15/2019 10:21</b>		
Oxygen, Dissolved	<b>di</b>	A	<b>8.9</b>	0.20	H	mg/L	1	08/15/2019 10:21
			Method: <b>EPA 350.1 Rev 2.0</b>			Analyst: <b>EF</b>		
<b>Nitrogen, Ammonia as N</b>			Prep Method: <b>EPA 350.1 Rev 2.0</b>			Prep Date/Time: <b>08/15/2019 13:55</b>		
Nitrogen, Ammonia (As N)	<b>di</b>	A	<b>0.53</b>	0.10		mg/L	1	08/15/2019 18:54

# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 6  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-04  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B			Analyst: jln		
			Prep Method: NA	Prep Date/Time: 08/15/2019 07:24				
<b>Volatile Organic Compounds</b>								
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 12:16
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 12:16
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 12:16
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 12:16
Acetone	di	A	ND	50		µg/L	1	08/15/2019 12:16
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 12:16
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 12:16
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 12:16
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 12:16
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 12:16
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 12:16
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 12:16
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:16
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 12:16
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 12:16

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## Analytical Results

Date: Friday, August 16, 2019

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H0921-04
<b>Client Project:</b>	Special	<b>Sampled:</b>	08/14/2019 14:09
<b>Client Sample ID:</b>	Location 6	<b>Received:</b>	08/14/2019 17:55
<b>Sample Description:</b>			
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: <b>SW-846 8260B</b> Analyst: <b>jln</b> Prep Method: <b>NA</b> Prep Date/Time: <b>08/15/2019 07:24</b>								
<b>Volatile Organic Compounds</b>								
Vinyl chloride	di	A	ND	1.0		µg/L	1	08/15/2019 12:16
Total 1,2-Dichloroethene		M	ND	5.0		µg/L	1	08/15/2019 12:16
Total Xylenes	di	M	ND	5.0		µg/L	1	08/15/2019 12:16
Surr: 1,2-Dichloroethane-d4		S	106	74.5-132		%REC	1	08/15/2019 12:16
Surr: 4-Bromofluorobenzene		S	102	80-120		%REC	1	08/15/2019 12:16
Surr: Dibromofluoromethane		S	105	80-120		%REC	1	08/15/2019 12:16
Surr: Toluene-d8		S	105	80-120		%REC	1	08/15/2019 12:16
Method: <b>SM 4500-CN C/E-1999</b> Analyst: <b>ABG</b> Prep Method: <b>NA</b> Prep Date/Time: <b>08/15/2019 09:35</b>								
<b>Total Cyanide</b>								
Cyanide, Total	dij	A	0.15	0.0050		mg/L	1	08/15/2019 13:42
Method: <b>SM 4500-O C-2001</b> Analyst: <b>DAT</b> Prep Method: <b>SM 4500-O C-2001</b> Prep Date/Time: <b>08/15/2019 10:21</b>								
<b>Dissolved Oxygen</b>								
Oxygen, Dissolved	di	A	8.5	0.20	H	mg/L	1	08/15/2019 10:21
Method: <b>EPA 350.1 Rev 2.0</b> Analyst: <b>EF</b> Prep Method: <b>EPA 350.1 Rev 2.0</b> Prep Date/Time: <b>08/15/2019 15:53</b>								
<b>Nitrogen, Ammonia as N</b>								
Nitrogen, Ammonia (As N)	di	A	0.55	0.10		mg/L	1	08/15/2019 19:15



# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 2 (011)  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-05  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B			Analyst: jln		
Volatile Organic Compounds			Prep Method: NA	Prep Date/Time: 08/15/2019 07:24				
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 12:37
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 12:37
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 12:37
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 12:37
Acetone	di	A	ND	50		µg/L	1	08/15/2019 12:37
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 12:37
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 12:37
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 12:37
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 12:37
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 12:37
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 12:37
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 12:37
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:37
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 12:37
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 12:37

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## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 2 (011)  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-05  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: <b>SW-846 8260B</b>			Analyst: <b>jln</b>		
<b>Volatile Organic Compounds</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 07:24</b>		
Vinyl chloride	<b>di</b>	A	<b>ND</b>	1.0		µg/L	1	08/15/2019 12:37
Total 1,2-Dichloroethene		M	<b>ND</b>	5.0		µg/L	1	08/15/2019 12:37
Total Xylenes	<b>di</b>	M	<b>ND</b>	5.0		µg/L	1	08/15/2019 12:37
Surr: 1,2-Dichloroethane-d4		S	105	74.5-132		%REC	1	08/15/2019 12:37
Surr: 4-Bromofluorobenzene		S	101	80-120		%REC	1	08/15/2019 12:37
Surr: Dibromofluoromethane		S	104	80-120		%REC	1	08/15/2019 12:37
Surr: Toluene-d8		S	104	80-120		%REC	1	08/15/2019 12:37
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>		
<b>Total Cyanide</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 09:35</b>		
Cyanide, Total	<b>dij</b>	A	<b>0.35</b>	0.0050		mg/L	1	08/15/2019 15:22
			Method: <b>SM 4500-O C-2001</b>			Analyst: <b>DAT</b>		
<b>Dissolved Oxygen</b>			Prep Method: <b>SM 4500-O C-2001</b>			Prep Date/Time: <b>08/15/2019 10:21</b>		
Oxygen, Dissolved	<b>di</b>	A	<b>6.8</b>	0.20	H	mg/L	1	08/15/2019 10:21
			Method: <b>EPA 350.1 Rev 2.0</b>			Analyst: <b>EF</b>		
<b>Nitrogen, Ammonia as N</b>			Prep Method: <b>EPA 350.1 Rev 2.0</b>			Prep Date/Time: <b>08/15/2019 15:53</b>		
Nitrogen, Ammonia (As N)	<b>di</b>	A	<b>0.91</b>	0.10		mg/L	1	08/15/2019 19:22



# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 3 (001)  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-06  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B			Analyst: jln		
			Prep Method: NA			Prep Date/Time: 08/15/2019 07:24		
<b>Volatile Organic Compounds</b>								
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 12:59
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 12:59
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 12:59
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 12:59
Acetone	di	A	ND	50		µg/L	1	08/15/2019 12:59
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 12:59
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 12:59
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 12:59
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 12:59
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 12:59
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 12:59
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 12:59
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 12:59
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 12:59
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 12:59

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## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 3 (001)  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-06  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: <b>SW-846 8260B</b>			Analyst: <b>jln</b>		
<b>Volatile Organic Compounds</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 07:24</b>		
Vinyl chloride	<b>di</b>	A	<b>ND</b>	1.0		µg/L	1	08/15/2019 12:59
Total 1,2-Dichloroethene		M	<b>ND</b>	5.0		µg/L	1	08/15/2019 12:59
Total Xylenes	<b>di</b>	M	<b>ND</b>	5.0		µg/L	1	08/15/2019 12:59
Surr: 1,2-Dichloroethane-d4		S	105	74.5-132		%REC	1	08/15/2019 12:59
Surr: 4-Bromofluorobenzene		S	101	80-120		%REC	1	08/15/2019 12:59
Surr: Dibromofluoromethane		S	104	80-120		%REC	1	08/15/2019 12:59
Surr: Toluene-d8		S	104	80-120		%REC	1	08/15/2019 12:59
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>		
<b>Total Cyanide</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 09:35</b>		
Cyanide, Total	<b>dij</b>	A	<b>0.12</b>	0.0050		mg/L	1	08/15/2019 15:23
			Method: <b>SM 4500-O C-2001</b>			Analyst: <b>DAT</b>		
<b>Dissolved Oxygen</b>			Prep Method: <b>SM 4500-O C-2001</b>			Prep Date/Time: <b>08/15/2019 10:21</b>		
Oxygen, Dissolved	<b>di</b>	A	<b>8.8</b>	0.20	H	mg/L	1	08/15/2019 10:21
			Method: <b>EPA 350.1 Rev 2.0</b>			Analyst: <b>EF</b>		
<b>Nitrogen, Ammonia as N</b>			Prep Method: <b>EPA 350.1 Rev 2.0</b>			Prep Date/Time: <b>08/15/2019 15:53</b>		
Nitrogen, Ammonia (As N)	<b>di</b>	A	<b>0.37</b>	0.10		mg/L	1	08/15/2019 19:25





# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 4  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-07  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B			Analyst: jln		
Volatile Organic Compounds			Prep Method: NA	Prep Date/Time: 08/15/2019 07:24				
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 13:21
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 13:21
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 13:21
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 13:21
Acetone	di	A	ND	50		µg/L	1	08/15/2019 13:21
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 13:21
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 13:21
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 13:21
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 13:21
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 13:21
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 13:21
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 13:21
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:21
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 13:21
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 13:21

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## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 4  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-07  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: <b>SW-846 8260B</b>			Analyst: <b>jln</b>		
<b>Volatile Organic Compounds</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 07:24</b>		
Vinyl chloride	<b>di</b>	A	<b>ND</b>	1.0		µg/L	1	08/15/2019 13:21
Total 1,2-Dichloroethene		M	<b>ND</b>	5.0		µg/L	1	08/15/2019 13:21
Total Xylenes	<b>di</b>	M	<b>ND</b>	5.0		µg/L	1	08/15/2019 13:21
Surr: 1,2-Dichloroethane-d4		S	104	74.5-132		%REC	1	08/15/2019 13:21
Surr: 4-Bromofluorobenzene		S	101	80-120		%REC	1	08/15/2019 13:21
Surr: Dibromofluoromethane		S	104	80-120		%REC	1	08/15/2019 13:21
Surr: Toluene-d8		S	105	80-120		%REC	1	08/15/2019 13:21
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>		
<b>Total Cyanide</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 09:35</b>		
Cyanide, Total	<b>dij</b>	A	<b>ND</b>	0.0050		mg/L	1	08/15/2019 15:25
			Method: <b>SM 4500-O C-2001</b>			Analyst: <b>DAT</b>		
<b>Dissolved Oxygen</b>			Prep Method: <b>SM 4500-O C-2001</b>			Prep Date/Time: <b>08/15/2019 10:21</b>		
Oxygen, Dissolved	<b>di</b>	A	<b>8.9</b>	0.20	H	mg/L	1	08/15/2019 10:21
			Method: <b>EPA 350.1 Rev 2.0</b>			Analyst: <b>EF</b>		
<b>Nitrogen, Ammonia as N</b>			Prep Method: <b>EPA 350.1 Rev 2.0</b>			Prep Date/Time: <b>08/15/2019 15:53</b>		
Nitrogen, Ammonia (As N)	<b>di</b>	A	<b>0.21</b>	0.10		mg/L	1	08/15/2019 19:27



# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 1  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-08  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B			Analyst: jln		
Volatile Organic Compounds			Prep Method: NA	Prep Date/Time: 08/15/2019 07:24				
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 13:43
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 13:43
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 13:43
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 13:43
Acetone	di	A	ND	50		µg/L	1	08/15/2019 13:43
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 13:43
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 13:43
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 13:43
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 13:43
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 13:43
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 13:43
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 13:43
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 13:43
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 13:43
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 13:43

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## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 1  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-08  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: <b>SW-846 8260B</b> Analyst: <b>jln</b> Prep Method: <b>NA</b> Prep Date/Time: <b>08/15/2019 07:24</b>								
<b>Volatile Organic Compounds</b>								
Vinyl chloride	di	A	ND	1.0		µg/L	1	08/15/2019 13:43
Total 1,2-Dichloroethene		M	ND	5.0		µg/L	1	08/15/2019 13:43
Total Xylenes	di	M	ND	5.0		µg/L	1	08/15/2019 13:43
Surr: 1,2-Dichloroethane-d4		S	107	74.5-132		%REC	1	08/15/2019 13:43
Surr: 4-Bromofluorobenzene		S	101	80-120		%REC	1	08/15/2019 13:43
Surr: Dibromofluoromethane		S	105	80-120		%REC	1	08/15/2019 13:43
Surr: Toluene-d8		S	105	80-120		%REC	1	08/15/2019 13:43
Method: <b>SM 4500-CN C/E-1999</b> Analyst: <b>ABG</b> Prep Method: <b>NA</b> Prep Date/Time: <b>08/15/2019 09:35</b>								
<b>Total Cyanide</b>								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/15/2019 15:27
Method: <b>SM 4500-O C-2001</b> Analyst: <b>DAT</b> Prep Method: <b>SM 4500-O C-2001</b> Prep Date/Time: <b>08/15/2019 10:21</b>								
<b>Dissolved Oxygen</b>								
Oxygen, Dissolved	di	A	9.4	0.20	H	mg/L	1	08/15/2019 10:21
Method: <b>EPA 350.1 Rev 2.0</b> Analyst: <b>EF</b> Prep Method: <b>EPA 350.1 Rev 2.0</b> Prep Date/Time: <b>08/15/2019 15:53</b>								
<b>Nitrogen, Ammonia as N</b>								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/15/2019 19:29



# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location Near Entrance  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-09  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
			Method: SW-846 8260B	Analyst: jln				
			Prep Method: NA	Prep Date/Time: 08/15/2019 07:24				
<b>Volatile Organic Compounds</b>								
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 14:04
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 14:04
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 14:04
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 14:04
Acetone	di	A	ND	50		µg/L	1	08/15/2019 14:04
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 14:04
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 14:04
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 14:04
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 14:04
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 14:04
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 14:04
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 14:04
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:04
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 14:04
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 14:04

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## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location Near Entrance  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-09  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: <b>SW-846 8260B</b>			Analyst: <b>jln</b>		
<b>Volatile Organic Compounds</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 07:24</b>		
Vinyl chloride	<b>di</b>	A	<b>ND</b>	1.0		µg/L	1	08/15/2019 14:04
Total 1,2-Dichloroethene		M	<b>ND</b>	5.0		µg/L	1	08/15/2019 14:04
Total Xylenes	<b>di</b>	M	<b>ND</b>	5.0		µg/L	1	08/15/2019 14:04
Surr: 1,2-Dichloroethane-d4		S	107	74.5-132		%REC	1	08/15/2019 14:04
Surr: 4-Bromofluorobenzene		S	102	80-120		%REC	1	08/15/2019 14:04
Surr: Dibromofluoromethane		S	104	80-120		%REC	1	08/15/2019 14:04
Surr: Toluene-d8		S	104	80-120		%REC	1	08/15/2019 14:04
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>		
<b>Total Cyanide</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 09:35</b>		
Cyanide, Total	<b>dij</b>	A	<b>ND</b>	0.0050		mg/L	1	08/15/2019 16:09
			Method: <b>SM 4500-O C-2001</b>			Analyst: <b>DAT</b>		
<b>Dissolved Oxygen</b>			Prep Method: <b>SM 4500-O C-2001</b>			Prep Date/Time: <b>08/15/2019 10:21</b>		
Oxygen, Dissolved	<b>di</b>	A	<b>9.4</b>	0.20	H	mg/L	1	08/15/2019 10:21
			Method: <b>EPA 350.1 Rev 2.0</b>			Analyst: <b>EF</b>		
<b>Nitrogen, Ammonia as N</b>			Prep Method: <b>EPA 350.1 Rev 2.0</b>			Prep Date/Time: <b>08/15/2019 15:53</b>		
Nitrogen, Ammonia (As N)	<b>di</b>	A	<b>ND</b>	0.10		mg/L	1	08/15/2019 19:32

# Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 160  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-10  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analized
				Method: SW-846 8260B		Analyst: jln		
Volatile Organic Compounds				Prep Method: NA		Prep Date/Time: 08/15/2019 07:24		
1,1,1,2-Tetrachloroethane	di	A	ND	10		µg/L	1	08/15/2019 14:26
1,1,1-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
1,1,2,2-Tetrachloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
1,1,2-Trichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
1,1-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
1,1-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
1,2-Dichloroethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
1,2-Dichloropropane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
2-Butanone	di	A	ND	10		µg/L	1	08/15/2019 14:26
2-Hexanone	di	A	ND	10		µg/L	1	08/15/2019 14:26
4-Methyl-2-pentanone	di	A	ND	10		µg/L	1	08/15/2019 14:26
Acetone	di	A	ND	50		µg/L	1	08/15/2019 14:26
Acrolein	di	A	ND	100		µg/L	1	08/15/2019 14:26
Acrylonitrile	di	A	ND	100		µg/L	1	08/15/2019 14:26
Benzene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Bromodichloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Bromoform	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Bromomethane	di	A	ND	10		µg/L	1	08/15/2019 14:26
Carbon Disulfide	di	A	ND	10		µg/L	1	08/15/2019 14:26
Carbon tetrachloride	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Chlorobenzene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Chloroethane	di	A	ND	10		µg/L	1	08/15/2019 14:26
Chloroform	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Chloromethane	di	A	ND	10		µg/L	1	08/15/2019 14:26
cis-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
cis-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Dibromochloromethane	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Ethylbenzene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
m,p-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Methylene chloride	di	A	ND	10		µg/L	1	08/15/2019 14:26
Methyl-t-Butyl Ether	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
o-Xylene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Styrene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Tetrachloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Toluene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
trans-1,2-Dichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
trans-1,3-Dichloropropene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Trichloroethene	di	A	ND	5.0		µg/L	1	08/15/2019 14:26
Trichlorofluoromethane	di	A	ND	10		µg/L	1	08/15/2019 14:26
Vinyl Acetate	di	A	ND	10		µg/L	1	08/15/2019 14:26

Microbac Laboratories, Inc.

## Analytical Results

Date: Friday, August 16, 2019

Client: Arcelor Mittal USA, Inc.  
 Client Project: Special  
 Client Sample ID: Location 160  
 Sample Description:  
 Matrix: Aqueous

Work Order/ID: 19H0921-10  
 Sampled: 08/14/2019 14:09  
 Received: 08/14/2019 17:55

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: <b>SW-846 8260B</b>			Analyst: <b>jln</b>		
<b>Volatile Organic Compounds</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 07:24</b>		
Vinyl chloride	<b>di</b>	A	<b>ND</b>	1.0		µg/L	1	08/15/2019 14:26
Total 1,2-Dichloroethene		M	<b>ND</b>	5.0		µg/L	1	08/15/2019 14:26
Total Xylenes	<b>di</b>	M	<b>ND</b>	5.0		µg/L	1	08/15/2019 14:26
Surr: 1,2-Dichloroethane-d4		S	106	74.5-132		%REC	1	08/15/2019 14:26
Surr: 4-Bromofluorobenzene		S	101	80-120		%REC	1	08/15/2019 14:26
Surr: Dibromofluoromethane		S	105	80-120		%REC	1	08/15/2019 14:26
Surr: Toluene-d8		S	105	80-120		%REC	1	08/15/2019 14:26
			Method: <b>SM 4500-CN C/E-1999</b>			Analyst: <b>ABG</b>		
<b>Total Cyanide</b>			Prep Method: <b>NA</b>			Prep Date/Time: <b>08/15/2019 09:35</b>		
Cyanide, Total	<b>dij</b>	A	<b>ND</b>	0.0050		mg/L	1	08/15/2019 16:11
			Method: <b>SM 4500-O C-2001</b>			Analyst: <b>DAT</b>		
<b>Dissolved Oxygen</b>			Prep Method: <b>SM 4500-O C-2001</b>			Prep Date/Time: <b>08/15/2019 10:21</b>		
Oxygen, Dissolved	<b>di</b>	A	<b>9.4</b>	0.20	H	mg/L	1	08/15/2019 10:21
			Method: <b>EPA 350.1 Rev 2.0</b>			Analyst: <b>EF</b>		
<b>Nitrogen, Ammonia as N</b>			Prep Method: <b>EPA 350.1 Rev 2.0</b>			Prep Date/Time: <b>08/15/2019 15:53</b>		
Nitrogen, Ammonia (As N)	<b>di</b>	A	<b>ND</b>	0.10		mg/L	1	08/15/2019 19:39



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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

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**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 &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.**RL:** Reporting Limit**RPD:** Relative Percent Difference

## Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 5.7°C  
 MICROBAC®

### Comments

CN container split off and preserved at lab

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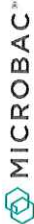
### Cooler Inspection Checklist

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.

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**RUSH!**

Number **151160**  
Instructions on back

Lab Report Address  
Client Name: **AMBH**

Address:  
City, State, Zip:

Contact:  
Telephone No.:

Turnaround Time

Routine (5 to 7 business days)

RUSH\* (notify lab)

(needed by)

Report Type

Results Only  Level 1  Level 2  Level 3  Level 4  EDD

Send Report via:  Mail  Fax  e-mail (address)

Project:

PO No.:

Compliance Monitoring?  Yes  No

Agency/Program

Sampler Signature: **B. Otto** Sampler Phone No.: **769-8378**

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)  
\*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Ammonia	CN	DO	F:1:8 PH	Additional Notes
Location 8	8/14/19	1409	6	Aq	G	24,3	X	X	X	X	19H0921
Location 7		1432					X	X	X	X	01
Location 5		1448					X	X	X	X	02
Location 6		1505					X	X	X	X	03
Location 2(011)		1524					X	X	X	X	04
Location 3(001)		1543					X	X	X	X	05
Location 4		1605					X	X	X	X	06
Location 1		1624					X	X	X	X	07
Location Near Entrance		1638					X	X	X	X	08
Location 160		1658					X	X	X	X	09
							X	X	X	X	10

Possible Hazard Identification  Hazardous  Non-Hazardous  Radioactive  Sample Disposition  Dispose as appropriate  Return  Archive

Comments  
8 = 7.68 2(011) = 8.20 160 = 8.41  
7 = 8.09 3(001) = 8.19  
5 = 8.18 4 = 8.09  
6 = 8.12 1 = 8.25  
Near Entrance = 8.28

Relinquished By (signature) **B. Otto** Date/Time **8-14-19/1755** Received By (signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
Relinquished By (signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received By (signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
Relinquished By (signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received By (signature) **Nicole Remick** Date/Time **8-14-19/1755**



CHICAGOLAND DIVISION - FIELD SAMPLING FORM

Date: 8/14/19 Client: AMBH	Field Tech (initials): BAO
Facility Location: Burns Harbor Client Contact:	Time IN: 1200 Time Out: 1755
Weather Conditions (if sampling outside) Sunny, raining, partly cloudy	
Summary of Sampling Performed: pulled samples for Ammonia, Cyanide, Dissolved Oxygen and took a pH for each site	
Field Equipment Used: pH Meter	
Include Field Measurements Here (if not included on COC)	
Comments:	

Field Tech Signature: B. BAO Date: 8/14/19

Microbac Laboratories, Inc. 250 West 84th Drive, Merrillville, IN 46410 219.769.8378