



18-Sep-2019

Robert Macial
ArcelorMittal USA LLC
Gary Plate Processing
One North Buchanan Street
Gary, IN 46402

Re: **Arcelor Mittal - Burns Harbor E.R.**

Work Order: **19091005**

Dear Robert,

ALS Environmental received 25 samples on 16-Sep-2019 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink that reads "Amanda Grzybowski".

Electronically approved by: Amanda Grzybowski

Amanda Grzybowski
Project Manager

Report of Laboratory Analysis

Certificate No: IN: C-MI-08

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Work Order: 19091005

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
19091005-01	15	Aqueous		9/16/2019 09:10	9/16/2019 18:00	<input type="checkbox"/>
19091005-01	15	Aqueous		9/16/2019 09:10	9/17/2019 13:30	<input type="checkbox"/>
19091005-02	14	Aqueous		9/16/2019 09:22	9/16/2019 18:00	<input type="checkbox"/>
19091005-02	14	Aqueous		9/16/2019 09:22	9/17/2019 13:30	<input type="checkbox"/>
19091005-03	7	Aqueous		9/16/2019 09:36	9/16/2019 18:00	<input type="checkbox"/>
19091005-03	7	Aqueous		9/16/2019 09:36	9/17/2019 13:30	<input type="checkbox"/>
19091005-04	6	Aqueous		9/16/2019 09:45	9/16/2019 18:00	<input type="checkbox"/>
19091005-04	6	Aqueous		9/16/2019 09:45	9/17/2019 13:30	<input type="checkbox"/>
19091005-05	5	Aqueous		9/16/2019 09:57	9/16/2019 18:00	<input type="checkbox"/>
19091005-05	5	Aqueous		9/16/2019 09:57	9/17/2019 13:30	<input type="checkbox"/>
19091005-06	4	Aqueous		9/16/2019 10:09	9/16/2019 18:00	<input type="checkbox"/>
19091005-06	4	Aqueous		9/16/2019 10:09	9/17/2019 13:30	<input type="checkbox"/>
19091005-07	3	Aqueous		9/16/2019 10:18	9/16/2019 18:00	<input type="checkbox"/>
19091005-07	3	Aqueous		9/16/2019 10:18	9/17/2019 13:30	<input type="checkbox"/>
19091005-08	2	Aqueous		9/16/2019 10:26	9/16/2019 18:00	<input type="checkbox"/>
19091005-08	2	Aqueous		9/16/2019 10:26	9/17/2019 13:30	<input type="checkbox"/>
19091005-09	1	Aqueous		9/16/2019 10:37	9/16/2019 18:00	<input type="checkbox"/>
19091005-09	1	Aqueous		9/16/2019 10:37	9/17/2019 13:30	<input type="checkbox"/>
19091005-10	OF001	Aqueous		9/16/2019 11:50	9/16/2019 18:00	<input type="checkbox"/>
19091005-10	OF001	Aqueous		9/16/2019 11:50	9/17/2019 13:30	<input type="checkbox"/>
19091005-11	8	Aqueous		9/16/2019 12:05	9/16/2019 18:00	<input type="checkbox"/>
19091005-11	8	Aqueous		9/16/2019 12:05	9/17/2019 13:30	<input type="checkbox"/>
19091005-12	9	Aqueous		9/16/2019 12:16	9/16/2019 18:00	<input type="checkbox"/>
19091005-12	9	Aqueous		9/16/2019 12:16	9/17/2019 13:30	<input type="checkbox"/>
19091005-13	10	Aqueous		9/16/2019 12:27	9/16/2019 18:00	<input type="checkbox"/>
19091005-13	10	Aqueous		9/16/2019 12:27	9/17/2019 13:30	<input type="checkbox"/>
19091005-14	11	Aqueous		9/16/2019 12:39	9/16/2019 18:00	<input type="checkbox"/>
19091005-14	11	Aqueous		9/16/2019 12:39	9/17/2019 13:30	<input type="checkbox"/>
19091005-15	12	Aqueous		9/16/2019 12:48	9/16/2019 18:00	<input type="checkbox"/>
19091005-15	12	Aqueous		9/16/2019 12:48	9/17/2019 13:30	<input type="checkbox"/>
19091005-16	13	Aqueous		9/16/2019 12:59	9/16/2019 18:00	<input type="checkbox"/>
19091005-16	13	Aqueous		9/16/2019 12:59	9/17/2019 13:30	<input type="checkbox"/>
19091005-17	SL-1	Aqueous		9/16/2019 13:24	9/16/2019 18:00	<input type="checkbox"/>
19091005-17	SL-1	Aqueous		9/16/2019 13:24	9/17/2019 13:30	<input type="checkbox"/>
19091005-18	SL-2	Aqueous		9/16/2019 13:48	9/16/2019 18:00	<input type="checkbox"/>
19091005-18	SL-2	Aqueous		9/16/2019 13:48	9/17/2019 13:30	<input type="checkbox"/>
19091005-19	SL-3	Aqueous		9/16/2019 13:59	9/16/2019 18:00	<input type="checkbox"/>
19091005-19	SL-3	Aqueous		9/16/2019 13:59	9/17/2019 13:30	<input type="checkbox"/>
19091005-20	SL-4	Aqueous		9/16/2019 14:10	9/16/2019 18:00	<input type="checkbox"/>

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Work Order: 19091005

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
19091005-20	SL-4	Aqueous		9/16/2019 14:10	9/17/2019 13:30	<input type="checkbox"/>
19091005-21	SL-5	Aqueous		9/16/2019 14:21	9/16/2019 18:00	<input type="checkbox"/>
19091005-21	SL-5	Aqueous		9/16/2019 14:21	9/17/2019 13:30	<input type="checkbox"/>
19091005-22	SL-6	Aqueous		9/16/2019 14:38	9/16/2019 18:00	<input type="checkbox"/>
19091005-22	SL-6	Aqueous		9/16/2019 14:38	9/17/2019 13:30	<input type="checkbox"/>
19091005-23	SL-7	Aqueous		9/16/2019 14:59	9/16/2019 18:00	<input type="checkbox"/>
19091005-23	SL-7	Aqueous		9/16/2019 14:59	9/17/2019 13:30	<input type="checkbox"/>
19091005-24	SL-8	Aqueous		9/16/2019 15:38	9/16/2019 18:00	<input type="checkbox"/>
19091005-24	SL-8	Aqueous		9/16/2019 15:38	9/17/2019 13:30	<input type="checkbox"/>
19091005-25	000	Aqueous		9/16/2019 16:13	9/16/2019 18:00	<input type="checkbox"/>
19091005-25	000	Aqueous		9/16/2019 16:13	9/17/2019 13:30	<input type="checkbox"/>

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Work Order: 19091005

Case Narrative

Samples in this Work Order were received and analyzed at the ALS Valparaiso facility at 2400 Cumberland Drive, Valparaiso, Indiana; under Florida NELAP certification ID# E871119.

Any Batch MS/MSD results that are flagged, but not addressed in this Case Narrative, are not related to this project's sample(s); therefore the data does not require qualification.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 15
Collection Date: 9/16/2019 09:10 AM

Work Order: 19091005
Lab ID: 19091005-01
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							Analyst: ALS
Dissolved Oxygen (field)	7.50		0		mg/L	1	9/16/2019
PH (FIELD)							Analyst: ALS
pH (field)	7.67		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							Analyst: ALS
Temperature (field)	23.1		0		°C	1	9/16/2019
CYANIDE, TOTAL							Analyst: JB
Cyanide, Total	0.0013	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							Analyst: JB
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							Analyst: CD
Ammonia as Nitrogen	0.112		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 14
Collection Date: 9/16/2019 09:22 AM

Work Order: 19091005
Lab ID: 19091005-02
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.90		0		mg/L	1	9/16/2019
PH (FIELD)							
pH (field)	7.79		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							
Temperature (field)	22.6		0		°C	1	9/16/2019
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0102	J	0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 7
Collection Date: 9/16/2019 09:36 AM

Work Order: 19091005
Lab ID: 19091005-03
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.20		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.78		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.6		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.166		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:24
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 6
Collection Date: 9/16/2019 09:45 AM

Work Order: 19091005
Lab ID: 19091005-04
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.10		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.83		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.6		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0020	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.179		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:25
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 5
Collection Date: 9/16/2019 09:57 AM

Work Order: 19091005
Lab ID: 19091005-05
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	6.60		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.83		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.2		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0018	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.171		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:26
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 4
Collection Date: 9/16/2019 10:09 AM

Work Order: 19091005
Lab ID: 19091005-06
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.20		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.86		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.8		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0021	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.173		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:28
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 3
Collection Date: 9/16/2019 10:18 AM

Work Order: 19091005
Lab ID: 19091005-07
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							Analyst: ALS
Dissolved Oxygen (field)	8.20		0		mg/L	1	9/16/2019
PH (FIELD)							Analyst: ALS
pH (field)	7.87		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							Analyst: ALS
Temperature (field)	21.2		0		°C	1	9/16/2019
CYANIDE, TOTAL							Analyst: JB
Cyanide, Total	0.0013	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							Analyst: JB
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							Analyst: CD
Ammonia as Nitrogen	0.135		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 2
Collection Date: 9/16/2019 10:26 AM

Work Order: 19091005
Lab ID: 19091005-08
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.40		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.89		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	18.9		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0016	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.126		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:32
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 1
Collection Date: 9/16/2019 10:37 AM

Work Order: 19091005
Lab ID: 19091005-09
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.40		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.94		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	19.0		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0020	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.173		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:34
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: OF001
Collection Date: 9/16/2019 11:50 AM

Work Order: 19091005
Lab ID: 19091005-10
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							Analyst: ALS
Dissolved Oxygen (field)	9.70		0		mg/L	1	9/16/2019
PH (FIELD)							Analyst: ALS
pH (field)	8.00		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							Analyst: ALS
Temperature (field)	20.3		0		°C	1	9/16/2019
CYANIDE, TOTAL							Analyst: JB
Cyanide, Total	0.0024	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							Analyst: JB
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							Analyst: CD
Ammonia as Nitrogen	0.234		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 8
Collection Date: 9/16/2019 12:05 PM

Work Order: 19091005
Lab ID: 19091005-11
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.30		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.66		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.7		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0017	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.166		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:36
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 9
Collection Date: 9/16/2019 12:16 PM

Work Order: 19091005
Lab ID: 19091005-12
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.10		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.69		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.7		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0016	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.155		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:37
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 10
Collection Date: 9/16/2019 12:27 PM

Work Order: 19091005
Lab ID: 19091005-13
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.70		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.63		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.5		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0014	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.139		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:38
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 11
Collection Date: 9/16/2019 12:39 PM

Work Order: 19091005
Lab ID: 19091005-14
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.40		0		mg/L	1	9/16/2019
PH (FIELD)							
pH (field)	7.69		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							
Temperature (field)	23.6		0		°C	1	9/16/2019
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.105		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 12
Collection Date: 9/16/2019 12:48 PM

Work Order: 19091005
Lab ID: 19091005-15
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.30		0		mg/L	1	9/16/2019
PH (FIELD)							
pH (field)	7.72		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							
Temperature (field)	22.3		0		°C	1	9/16/2019
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.118		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 13
Collection Date: 9/16/2019 12:59 PM

Work Order: 19091005
Lab ID: 19091005-16
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.10		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.71		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.4		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	0.0013	J	0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.120		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:42
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-1
Collection Date: 9/16/2019 01:24 PM

Work Order: 19091005
Lab ID: 19091005-17
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.20		0		mg/L	1	9/16/2019
PH (FIELD)							
pH (field)	7.80		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							
Temperature (field)	21.3		0		°C	1	9/16/2019
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0645		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-2
Collection Date: 9/16/2019 01:48 PM

Work Order: 19091005
Lab ID: 19091005-18
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.30		0		mg/L	1	9/16/2019
PH (FIELD)							
pH (field)	7.92		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							
Temperature (field)	20.6		0		°C	1	9/16/2019
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0497		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-3
Collection Date: 9/16/2019 01:59 PM

Work Order: 19091005
Lab ID: 19091005-19
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	9.70		0		mg/L	1	9/16/2019
PH (FIELD)							
pH (field)	8.07		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							
Temperature (field)	19.9		0		°C	1	9/16/2019
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0182	J	0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-4
Collection Date: 9/16/2019 02:10 PM

Work Order: 19091005
Lab ID: 19091005-20
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.50		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	8.10		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	19.8		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0103	J	0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:54
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-5
Collection Date: 9/16/2019 02:21 PM

Work Order: 19091005
Lab ID: 19091005-21
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.60		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	8.07		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	19.9		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 09:58
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-6
Collection Date: 9/16/2019 02:38 PM

Work Order: 19091005
Lab ID: 19091005-22
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.80		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	8.08		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	19.9		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 10:01
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-7
Collection Date: 9/16/2019 02:59 PM

Work Order: 19091005
Lab ID: 19091005-23
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.60		0		mg/L	1	9/16/2019
PH (FIELD)							
pH (field)	8.10		0		s.u.	1	9/16/2019
TEMPERATURE (FIELD)							
Temperature (field)	19.8		0		°C	1	9/16/2019
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 10:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-8
Collection Date: 9/16/2019 03:38 PM

Work Order: 19091005
Lab ID: 19091005-24
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.30		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.94		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	19.6		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/17/2019 10:06
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 18-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 000
Collection Date: 9/16/2019 04:13 PM

Work Order: 19091005
Lab ID: 19091005-25
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.40		0		mg/L	1	9/16/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.81		0		s.u.	1	9/16/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.1		0		°C	1	9/16/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, TOTAL							
Cyanide, Total	U		0.0012	0.0050	mg/L	1	9/17/2019 11:24
				Method: KELADA-01			Analyst: JB
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/18/2019 10:50
				Method: KELADA-01			Analyst: JB
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0293	J	0.00980	0.0320	mg NH3-N/L	1	9/17/2019 10:07
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
WorkOrder: 19091005

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
°C	Degrees Celcius
mg NH3-N/L	Milligrams Ammonia-Nitrogen per Liter
mg/L	Milligrams per Liter
s.u.	Standard Units

Client: ArcelorMittal USA LLC

QC BATCH REPORT

Work Order: 19091005

Project: Arcelor Mittal - Burns Harbor E.R.

Batch ID: **R270741e** Instrument ID **SKALAR1** Method: **Kelada-01**

MBLK	Sample ID: MB-R270741-R270741e				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM			
Client ID:	Run ID: SKALAR1_190917A			SeqNo: 5924695		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total U 0.0050

LCS	Sample ID: LCS-R270741-R270741e				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM			
Client ID:	Run ID: SKALAR1_190917A			SeqNo: 5924696		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.101 0.0050 0.1 0 101 90-110 0

MS	Sample ID: 19091005-01B MS				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM			
Client ID: 15	Run ID: SKALAR1_190917A			SeqNo: 5924698		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.1009 0.0050 0.1 0.00128 99.6 90-110 0

MS	Sample ID: 19091005-13B MS				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM			
Client ID: 10	Run ID: SKALAR1_190917A			SeqNo: 5924716		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.1052 0.0050 0.1 0.0014 104 90-110 0

MSD	Sample ID: 19091005-01B MSD				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM			
Client ID: 15	Run ID: SKALAR1_190917A			SeqNo: 5924699		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.1022 0.0050 0.1 0.00128 101 90-110 0.1009 1.36 20

MSD	Sample ID: 19091005-13B MSD				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM			
Client ID: 10	Run ID: SKALAR1_190917A			SeqNo: 5924717		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.1041 0.0050 0.1 0.0014 103 90-110 0.1052 1.08 20

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
Work Order: 19091005
Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270741e** Instrument ID **SKALAR1** Method: **Kelada-01**

The following samples were analyzed in this batch:

19091005-01B	19091005-02B	19091005-03B
19091005-04B	19091005-05B	19091005-06B
19091005-07B	19091005-09B	19091005-10B
19091005-11B	19091005-12B	19091005-13B
19091005-14B	19091005-15B	19091005-16B
19091005-17B	19091005-18B	19091005-19B
19091005-20B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19091005
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270741f** Instrument ID **SKALAR1** Method: **Kelada-01**

MBLK		Sample ID: MB-R270741-R270741f				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM		
Client ID:		Run ID: SKALAR1_190917A				SeqNo: 5924727		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total U 0.0050

LCS		Sample ID: LCS-R270741-R270741f				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM		
Client ID:		Run ID: SKALAR1_190917A				SeqNo: 5924728		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.09805 0.0050 0.1 0 98 90-110 0

MS		Sample ID: 19091005-21B MS				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM		
Client ID: SL-5		Run ID: SKALAR1_190917A				SeqNo: 5924730		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.09752 0.0050 0.1 0.00081 96.7 90-110 0

MSD		Sample ID: 19091005-21B MSD				Units: mg/L		Analysis Date: 9/17/2019 11:24 AM		
Client ID: SL-5		Run ID: SKALAR1_190917A				SeqNo: 5924731		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.1044 0.0050 0.1 0.00081 104 90-110 0.09752 6.84 20

The following samples were analyzed in this batch:

19091005-21B	19091005-22B	19091005-23B
19091005-24B	19091005-25B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19091005
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270813d** Instrument ID **SKALAR1** Method: **Kelada-01**

MBLK		Sample ID: MB-R270813-R270813d				Units: mg/L		Analysis Date: 9/18/2019 10:50 AM		
Client ID:		Run ID: SKALAR1_190918A				SeqNo: 5926708		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD U 0.0050

LCS		Sample ID: LCS-R270813-R270813d				Units: mg/L		Analysis Date: 9/18/2019 10:50 AM		
Client ID:		Run ID: SKALAR1_190918A				SeqNo: 5926709		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1078 0.0050 0.1 0 108 90-110 0

MS		Sample ID: 19091005-01C MS				Units: mg/L		Analysis Date: 9/18/2019 10:50 AM		
Client ID: 15		Run ID: SKALAR1_190918A				SeqNo: 5926711		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.09679 0.0050 0.1 -0.00002 96.8 90-110 0

MS		Sample ID: 19091005-13C MS				Units: mg/L		Analysis Date: 9/18/2019 10:50 AM		
Client ID: 10		Run ID: SKALAR1_190918A				SeqNo: 5927265		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.09889 0.0050 0.1 -0.00074 99.6 90-110 0

MSD		Sample ID: 19091005-01C MSD				Units: mg/L		Analysis Date: 9/18/2019 10:50 AM		
Client ID: 15		Run ID: SKALAR1_190918A				SeqNo: 5926712		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.103 0.0050 0.1 -0.00002 103 90-110 0.09679 6.23 20

MSD		Sample ID: 19091005-13C MSD				Units: mg/L		Analysis Date: 9/18/2019 10:50 AM		
Client ID: 10		Run ID: SKALAR1_190918A				SeqNo: 5927266		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1036 0.0050 0.1 -0.00074 104 90-110 0.09889 4.66 20

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
Work Order: 19091005
Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270813d** Instrument ID **SKALAR1** Method: **Kelada-01**

The following samples were analyzed in this batch:

19091005-01C	19091005-02C	19091005-03C
19091005-04C	19091005-05C	19091005-06C
19091005-07C	19091005-08C	19091005-09C
19091005-10C	19091005-11C	19091005-12C
19091005-13C	19091005-14C	19091005-15C
19091005-16C	19091005-17C	19091005-18C
19091005-19C	19091005-20C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19091005
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270813e** Instrument ID **SKALAR1** Method: **Kelada-01**

MBLK	Sample ID: MB-R270813-R270813e				Units: mg/L			Analysis Date: 9/18/2019 10:50 AM		
Client ID:	Run ID: SKALAR1_190918A				SeqNo: 5927276		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD U 0.0050

LCS	Sample ID: LCS-R270813-R270813e				Units: mg/L			Analysis Date: 9/18/2019 10:50 AM		
Client ID:	Run ID: SKALAR1_190918A				SeqNo: 5927277		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1081 0.0050 0.1 0 108 90-110 0

MS	Sample ID: 19091005-21C MS				Units: mg/L			Analysis Date: 9/18/2019 10:50 AM		
Client ID: SL-5	Run ID: SKALAR1_190918A				SeqNo: 5927279		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1029 0.0050 0.1 -0.00082 104 90-110 0

MSD	Sample ID: 19091005-21C MSD				Units: mg/L			Analysis Date: 9/18/2019 10:50 AM		
Client ID: SL-5	Run ID: SKALAR1_190918A				SeqNo: 5927280		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1074 0.0050 0.1 -0.00082 108 90-110 0.1029 4.26 20

The following samples were analyzed in this batch:

19091005-21C	19091005-22C	19091005-23C
19091005-24C	19091005-25C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19091005
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270685** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

MBLK		Sample ID: MBLK-R270685			Units: mg NH3-N/L			Analysis Date: 9/17/2019 09:19 AM		
Client ID:		Run ID: VAL-LACHAT_190917A			SeqNo: 5922688		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen U 0.032

MBLK		Sample ID: MBLK-R270685			Units: mg NH3-N/L			Analysis Date: 9/17/2019 09:55 AM		
Client ID:		Run ID: VAL-LACHAT_190917A			SeqNo: 5922718		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen U 0.032

LCS		Sample ID: LCS-R270685			Units: mg NH3-N/L			Analysis Date: 9/17/2019 09:20 AM		
Client ID:		Run ID: VAL-LACHAT_190917A			SeqNo: 5922689		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.407 0.032 0.4 0 102 90-110 0

LCS		Sample ID: LCS-R270685			Units: mg NH3-N/L			Analysis Date: 9/17/2019 09:56 AM		
Client ID:		Run ID: VAL-LACHAT_190917A			SeqNo: 5922719		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.408 0.032 0.4 0 102 90-110 0

MS		Sample ID: 19091005-18A MS			Units: mg NH3-N/L			Analysis Date: 9/17/2019 09:48 AM		
Client ID: SL-2		Run ID: VAL-LACHAT_190917A			SeqNo: 5922712		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.234 0.032 0.2 0.0497 92.2 90-110 0

MS		Sample ID: 19091005-19A MS			Units: mg NH3-N/L			Analysis Date: 9/17/2019 09:52 AM		
Client ID: SL-3		Run ID: VAL-LACHAT_190917A			SeqNo: 5922715		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.189 0.032 0.2 0.0182 85.4 90-110 0 S

MS		Sample ID: 19091005-22A MS			Units: mg NH3-N/L			Analysis Date: 9/17/2019 10:02 AM		
Client ID: SL-6		Run ID: VAL-LACHAT_190917A			SeqNo: 5922724		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.216 0.032 0.2 -0.00474 110 90-110 0 S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19091005
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270685** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

MSD		Sample ID: 19091005-18A MSD				Units: mg NH3-N/L		Analysis Date: 9/17/2019 09:49 AM		
Client ID: SL-2		Run ID: VAL-LACHAT_190917A				SeqNo: 5922713		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ammonia as Nitrogen	0.234	0.032	0.2	0.0497	92.2	90-110	0.234	0	20	

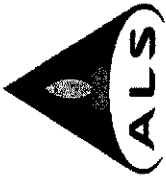
MSD		Sample ID: 19091005-19A MSD				Units: mg NH3-N/L		Analysis Date: 9/17/2019 09:53 AM		
Client ID: SL-3		Run ID: VAL-LACHAT_190917A				SeqNo: 5922716		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ammonia as Nitrogen	0.19	0.032	0.2	0.0182	85.9	90-110	0.189	0.528	20	S

MSD		Sample ID: 19091005-22A MSD				Units: mg NH3-N/L		Analysis Date: 9/17/2019 10:04 AM		
Client ID: SL-6		Run ID: VAL-LACHAT_190917A				SeqNo: 5922725		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ammonia as Nitrogen	0.213	0.032	0.2	-0.00474	109	90-110	0.216	1.4	20	

The following samples were analyzed in this batch:

19091005-01A	19091005-02A	19091005-03A
19091005-04A	19091005-05A	19091005-06A
19091005-07A	19091005-08A	19091005-09A
19091005-10A	19091005-11A	19091005-12A
19091005-13A	19091005-14A	19091005-15A
19091005-16A	19091005-17A	19091005-18A
19091005-19A	19091005-20A	19091005-21A
19091005-22A	19091005-23A	19091005-24A
19091005-25A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



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Chain of Custody Form

Page 1 of 3

Client Information		Project Information		ALS Project Manager: Amanda Gryzbowski		ALS Work Order #: 19091005									
Purchase Order	Project Name	Receiving Water Monitoring	Parameter/Method Request for Analysis												
Work Order	Project Number	Company Name	ArceIorMittal (Burns Harbor)	A Ammonia	B Total Cyanide	C Free Cyanide	D pH (Field)								
Send Report To	Invoice Attn.	Accounts Payable	250 US 12	E Temperature (Field)	F Dissolved Oxygen (Field)										
Address	Address	City/State/Zip	Burns Harbor, IN 46304												
Phone	Phone	Phone	(219) 787-2120												
Fax	Fax	Fax													
e-Mail Address															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	pH	Temp. °C	DO
1		9/10/19	9:10	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.57	23.1	7.5
2			9:22	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.79	22.6	8.9
3			9:36	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.78	22.6	7.2
4			9:45	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.83	22.6	7.1
5			9:57	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.83	22.2	6.6
6			10:09	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.80	21.8	7.2
7			10:18	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.87	21.2	8.2
8			10:26	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.89	18.9	8.4
9			10:37	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.94	19.0	8.4
10	OFO01		11:50	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.00	20.3	9.7

Sampler(s): Please Print & Sign	Shipment Method:	Required Turnaround Time:	Results Due Date:
Received by: <i>[Signature]</i>	<input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> Other	<input type="checkbox"/> 24 Hour	
Relinquished by: <i>Michael Veal</i>	Date: 9/16	Time: 4:13	Notes: HW 3.2.5
Relinquished by: <i>[Signature]</i>	Date: 9-16-19	Time: 1:00	Rec'd 9/17/19 1330 <i>[Signature]</i>
Logged by (Laboratory): <i>[Signature]</i>	Checked by (Laboratory): <i>[Signature]</i>	QC Package: (Check Box Below)	Level II: Standard QC <input type="checkbox"/>
			Level III: Standard QC + Raw Data <input type="checkbox"/>
			Level IV: SW846 Methods/CLP <input type="checkbox"/>
			Other: <input type="checkbox"/>

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS



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Chain of Custody Form

Page 2 of 3

Client Information		ALS Project Manager: Amanda Gryzbowski		ALS Work Order #: 19091005											
Project Information		Parameter/Method Request for Analysis													
Purchase Order	Project Name	Receiving Water Monitoring		A	Ammonia										
Work Order	Project Number			B	Total Cyanide										
Company Name	Company Name	ArcelorMittal (Burns Harbor)		C	Free Cyanide										
Send Report To	Invoice Attn.	Accounts Payable		D	pH (Field)										
Address	Address	250 US 12		E	Temperature (Field)										
City/State/Zip	City/State/Zip	Burns Harbor, IN 46304		F	Dissolved Oxygen (Field)										
Phone	Phone	(219) 787-2120													
Fax	Fax														
e-Mail Address	e-Mail Address														
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	pH	Temp. °C	DO
11		9/16/19	12:05	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.66	22.7	7.3
12			12:16	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.69	22.7	8.1
13			12:27	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.69	22.5	7.7
14			12:39	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.69	23.6	7.4
15			12:48	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.72	22.3	8.3
16			12:59	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.71	22.4	8.1
17	SL-1		1:24	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.80	21.3	8.2
18	SL-2		1:48	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.02	20.6	8.3
19	SL-3		1:59	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.07	19.9	9.7
20	SL-4		2:10	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.10	19.8	8.5
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:									
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		<input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour <input type="checkbox"/> Other:		Notes: HW 3.2c Rec'd 9/17/19 1330 Q2 Q L									
Date: 9/16		Time: 4:13		Received by (Laboratory): <i>[Signature]</i>		Cooler Temp. 25°C		QC Package: (Check Box Below)							
Date: 9-16-19		Time: 1800		Checked by (Laboratory): <i>[Signature]</i>				Level II: Standard QC Level III: Standard QC + Raw Data Level IV: SW846 Methods/CLP Other:							
Date:		Time:													

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS



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Chain of Custody Form

Page 3 of 3

Client Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order		Project Name	Receiving Water Monitoring	Amanda Gryzbowski	ALS Work Order #:	1909100S	Parameter/Method Request for Analysis
Work Order		Project Number					
Company Name	ArcelorMittal (Burns Harbor)	Company Name	ArcelorMittal (Burns Harbor)				
Send Report To		Invoice Attn.	Accounts Payable				
Address	250 US 12	Address	250 US 12				
City/State/Zip	Burns Harbor, IN 46304	City/State/Zip	Burns Harbor, IN 46304				
Phone	(219) 787-2120	Phone	(219) 787-2120				
Fax		Fax					
e-Mail Address							

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	pH	Temp. °C	DO
21	SL-5	9/16/19	2:21	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.07	19.9	8.6
22	SL-6		2:38	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.08	19.9	8.8
23	SL-7		2:59	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.10	19.8	8.6
24	SL-8		3:38	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.94	19.6	8.3
25	OOO		4:13	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.81	21.1	8.4
26				Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X			
27				Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X			
28				Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X			
29				Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X			
30				Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X			

Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:	
Reinquired by:	Michael Hall	Time:	4:13	<input type="checkbox"/> STD 10 Wk Days	<input type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 24 Hour	
Reinquired by:	<i>[Signature]</i>	Date:	9/16	<input type="checkbox"/> Other			
Reinquired by:	<i>[Signature]</i>	Date:	9-16-19				
Logged by (Laboratory):	<i>[Signature]</i>	Date:					

Notes:	HN 3-2-c Rec'd 9/17/19 1330 Q2 Q1
QC Package: (Check Box Below)	
Level II: Standard QC	
Level III: Standard QC + Raw Data	
Level IV: SW846 Methods/CLP	
Other:	

Cooler Temp.	2.5°C
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Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS

Sample Receipt Checklist

Client Name: **ARCELORMITTAL-BURNSHARBO**

Date/Time Received: **16-Sep-19 00:00**

Work Order: **19091005**

Received by: **JH**

Checklist completed by Diane Shaw 17-Sep-19
eSignature Date

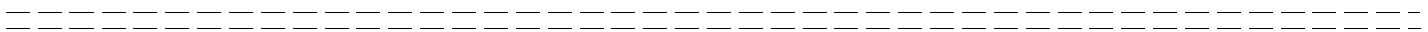
Reviewed by: Amanda Przybowski 17-Sep-19
eSignature Date

Matrices: Aqueous

Carrier name: ALSHN

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.5</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>9/16/19 18:00</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			

Login Notes: Holland - 3.2/3.2 c SR2



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: