

September 13, 2019

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

Work Order No.: 19I0560

Re: LLHg - 001

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 9/10/2019 10:30:00AM for the analyses presented in the following report as Work Order 19I0560.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely,
Microbac Laboratories, Inc.



Carey Gadzala
Project Manager



WORK ORDER SAMPLE SUMMARY**Date:** *Friday, September 13, 2019*

Client: Arcelor Mittal USA, Inc.
Project: LLHg - 001
Lab Order: 19I0560

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date | Date Received |
|----------------------|-------------------------|-------------------|------------------------|----------------------|
| 19I0560-01 | Field Blank | | 09/10/2019 10:30 | 9/10/2019 10:30:00AM |
| 19I0560-02 | 001-Grab | 001 | 09/10/2019 10:30 | 9/10/2019 10:30:00AM |
| 19I0560-03 | 001- DUP | 001 | 09/10/2019 10:30 | 9/10/2019 10:30:00AM |

Microbac Laboratories, Inc.

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com

Analytical Results

Date: Friday, September 13, 2019

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19I0560-01 |
| Client Project: | LLHg - 001 | Sampled: | 09/10/2019 10:30 |
| Client Sample ID: | Field Blank | Received: | 09/10/2019 10:30 |
| Sample Description: | | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|--------|-------------------|-------|------|--------------|----|------------------|
| | | | | Method: EPA 1631E | | | Analyst: BTM | | |
| Total Mercury using CVAFS - Heated Preparation | | | | | | | | | |
| Prep Date/Time: 09/12/2019 08:20 | | | | | | | | | |
| Mercury | eijlm | A | ND | 0.118 | 0.500 | | ng/L | 1 | 09/13/2019 12:38 |

Analytical Results

Date: *Friday, September 13, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19I0560-02 |
| Client Project: | LLHg - 001 | Sampled: | 09/10/2019 10:30 |
| Client Sample ID: | 001-Grab | Received: | 09/10/2019 10:30 |
| Sample Description: | 001 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------|-------|-------|--------------|-------|----|------------------|
| | | | Method: EPA 1631E | | | Analyst: BTM | | | |
| Total Mercury using CVAFS - Heated Preparation | | | | | | | | | |
| Prep Date/Time: 09/12/2019 08:20 | | | | | | | | | |
| Mercury | eijlm | A | 0.312 | 0.118 | 0.500 | | ng/L | 1 | 09/13/2019 12:41 |

Analytical Results

Date: *Friday, September 13, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19I0560-03 |
| Client Project: | LLHg - 001 | Sampled: | 09/10/2019 10:30 |
| Client Sample ID: | 001- DUP | Received: | 09/10/2019 10:30 |
| Sample Description: | 001 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-------------------|-------|-------|--------------|-------|----|------------------|
| | | | Method: EPA 1631E | | | Analyst: BTM | | | |
| Total Mercury using CVAFS - Heated Preparation | | | | | | | | | |
| Prep Date/Time: 09/12/2019 08:20 | | | | | | | | | |
| Mercury | eijlm | A | 0.221 | 0.118 | 0.500 | | ng/L | 1 | 09/13/2019 12:43 |

ANALYTE TYPES: (AT)

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

QCS = Quality Control Standard

ICSA = Interference Check Standard "A"

ICSAB = Interference Check Standard "AB"

BSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

^d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)

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

^j Kentucky Wastewater Laboratory Certification Program (#108202)

^l North Carolina DENR NPDES effluent, surface water (#597)

^m New York State Department of Health (#12006)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

MDL: Minimum Detection Limit

RL: Reporting Limit

RPD: Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler

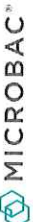
Temp: °C
 MICROBAC®

Cooler Inspection Checklist

| | |
|--|-----|
| Ice Present or not required? | Yes |
| Shipping containers sealed or not required? | Yes |
| Custody seals intact or not required? | Yes |
| Chain of Custody (COC) Present? | Yes |
| COC includes customer information? | Yes |
| Relinquished and received signature on COC? | Yes |
| Sample collector identified on COC? | Yes |
| Sample type identified on COC? | Yes |
| Correct type of Containers Received | Yes |
| Correct number of containers listed on COC? | Yes |
| Containers Intact? | Yes |
| COC includes requested analyses? | Yes |
| Enough sample volume for indicated tests received? | Yes |
| Sample labels match COC (Name, Date & Time?) | Yes |
| Samples arrived within hold time? | Yes |
| Correct preservatives on COC or not required? | Yes |
| Chemical preservations checked or not required? | Yes |
| Preservation checks meet method requirements? | Yes |
| VOA vials have zero headspace, or not recd.? | Yes |

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Number **151904**
 Instructions on back

Lab Report Address

Client Name: **AMBIA**

Address:
 City, State, Zip:
 Contact:

Telephone No.:

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

Project: Location: PO 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

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C)
 Therm ID

Holding Time

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

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

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 ** | Additional Notes |
|------------------|----------------|----------------|-------------------|--------|-------------|-----------------------|------------------|
| FB 179161 | 9/10/19 | 0920 | 1 | | | | 19 I 0560 |
| 001 179724 | ↓ | 0923 | | | | | 01 |
| 001 DUP 179158 | ↓ | 0925 | | | | | 02 |
| | | | | | | | 03 |
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1910560 Carey Gadzala
 ArcelorMittal - Burns Harbor, IN
 LLHg - 001
 09/10/2019

Possible Hazard Identification Hazardous Non-Hazardous Radioactive

Sample Disposition Dispose as appropriate Return Archive

Relinquished By (signature) **B. Otto** Date/Time **9/10/19 1030**

Relinquished By (signature) Date/Time

Relinquished By (signature) Date/Time

Received By (signature) Date/Time

Received By (signature) Date/Time

Received By (signature) Date/Time

Handwritten signature and date
 Date/Time **9/10/19 1030**

