

Work Order No.: 19I1180

September 19, 2019

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

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 9/19/2019 10:15:00AM for the analyses presented in the following report as Work Order 19I1180.

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.

Carry Hadgala

Carey Gadzala Project Manager



WORK ORDER SAMPLE SUMMARY

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 1911180

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
1911180-01	002-Composite	002	09/18/2019 00:00	9/19/2019 10:15:00AM
1911180-02	002-Grab	002	09/18/2019 00:00	9/19/2019 10:15:00AM

Thursday, September 19, 2019

Date:



Analytical Results Date: Thursday, September 19, 2019

Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 002-Composite
 Work Order/ID:
 1911180-01

 Sample Description:
 002
 Sampled:
 09/18/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/19/2019
 10:15

ΑT Result MDL RL Units DF **Analyses** Certs Qual Analyzed Method: SM 4500-CN C/E-1999 Analyst: ABG **Total Cyanide** Prep Date/Time: 09/19/2019 11:03 Α 0.0020 0.0050 mg/L 09/19/2019 14:41 Cyanide, Total eij ND



Analytical Results Date: Thursday, September 19, 2019

Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 002-Grab
 Work Order/ID:
 1911180-02

 Sample Description:
 002
 Sampled:
 09/18/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/19/2019
 10:15

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E	PA 1664B				Ana	lyst: KMT
Oil & Grease (HEM) by SPE								Prep Date/T	ime:09/19/2019 07:16
Oil & Grease (HEM)	eij	Α	ND	1.4	5.0	U	mg/L	1	09/19/2019 14:42

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

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

QCS = Quality Control Standard CERTIFICATIONS (Certs)

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

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- i Kansas Dept Health & Env. NELAP (#E-10397)
- J Kentucky Wastewater Laboratory Certification Program (#108202)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

MDL: Minimum Detection Limit

RL: Reporting Limit

RPD: Relative Percent Difference

U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has

been adjusted for any dilution or concentration of the sample.

Cooler Receipt Log

Cooler ID: Default Cooler



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

AC.
OB
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Σ

						Instructions on back
ab Repor	ab Report Address Client Name: Arcclor m. j. H. l. Bt	Invoice Address Client Name: Address:		Turnaround Time Routine (5 to	Turnaround Time Routine (5 to 7 business days)	TO BE COMPLETED BY MICROBAC Temperature Upon Receipt (°C) Therm ID
9I118 arcelo aily	Zip:	City, State, Zip:		(needed by)		ived on Ice? X Yes
rMitt	Levi Kich	Contact:		Report Type		Custody Seals Intact? ☐ Yes ☐ No 🗡 N/A
Car al - E	No.:	Telephone No.:		Results Or	Results Only Level 1 Level 2	☐ Level 3 ☐ Level 4 ☐ EDD
ey G Burn	t via:		Send Invoice via:	ice via: Mail Fax	ax	
adzak Is Har	٠	Location:	ā.	PO No.:	Compliance Monitoring?	ring? ☐ Yes ☐ No
a bor, IN	(PRINT): Warren Howard	Sampler Signature:		Sampler Phone No.:		
N	* 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. (1) Hnnreservative	, Drinking Water (DW), Groundw (4) NaOH. (5) Zinc Acetate. (6)	ater (GW), Surface V	Water (SW), Waste W	ater (WW), Other (specify	(II) Innrecented
					REQUESTED ANALYSIS	
		Containers	дшоጋ	55 Et.	Cookers 2	100b 56 50b Ch
Lab ID	Date Client Sample ID Collected	Time of Collected Zo Matrix	A Preservative Types **	7) 31 1)	到 9 d V つ V で	ST 180
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	South Layon In (of 9/19/19		d.		_	
	011 9(19119		Q		8	
Possible H	Possible Hazard Identification Hazardous Non-F	☐ Non-Hazardous ☐ Radioactive	Sal	Sample Disposition	☐ Dispose as appropriate	☐ Return ☐ Archive
		Relinquished By (signature)	// Date/Time		Received By (signature)	Date/Time
		Wan XI	1 9 19	19 0805	The sea	7 1/19/19 0805
		Relinquished By (signature)	9/19/	6,9 1018	Received By (signature)	Date/Time
		Relinquished By (signature)	Date/Time		Received By (signature)	9 /19 /19 /0.65
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