

August 24, 2019

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

Work Order No.: 19H1550

Re: NPDES Excursion

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 22 sample(s) on 8/24/2019 9:00:00AM for the analyses presented in the following report as Work Order 19H1550.

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.

Carup Macizala

Carey Gadzala Project Manager

Microbac Laboratories, Inc.



WORK ORDER SAMPLE SUMMARY

Date:

Client:	Arcelor Mittal USA, Inc.
Project:	NPDES Excursion
Lab Order:	19H1550

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1550-01	#12		08/23/2019 12:47	8/23/2019 9:00:00AM
19H1550-02	#11		08/23/2019 12:54	8/23/2019 9:00:00AM
19H1550-03	#10		08/23/2019 12:59	8/23/2019 9:00:00AM
19H1550-04	#9		08/23/2019 13:09	8/23/2019 9:00:00AM
19H1550-05	#8		08/23/2019 13:15	8/23/2019 9:00:00AM
19H1550-06	#7		08/23/2019 13:22	8/23/2019 9:00:00AM
19H1550-07	#6		08/23/2019 13:28	8/23/2019 9:00:00AM
19H1550-08	#5		08/23/2019 13:35	8/23/2019 9:00:00AM
19H1550-09	#4		08/23/2019 13:44	8/23/2019 9:00:00AM
19H1550-10	#3		08/23/2019 13:51	8/23/2019 9:00:00AM
19H1550-11	2		08/23/2019 13:57	8/23/2019 9:00:00AM
19H1550-12	1		08/23/2019 14:08	8/23/2019 9:00:00AM
19H1550-13	0F001		08/23/2019 14:19	8/23/2019 9:00:00AM
19H1550-14	000		08/23/2019 18:20	8/23/2019 9:00:00AM
19H1550-15	SL-1		08/23/2019 18:41	8/23/2019 9:00:00AM
19H1550-16	SL-4		08/23/2019 19:03	8/23/2019 9:00:00AM
19H1550-17	SL-3		08/23/2019 19:15	8/23/2019 9:00:00AM
19H1550-18	SL-2		08/23/2019 19:25	8/23/2019 9:00:00AM
19H1550-19	SL-5		08/23/2019 19:34	8/23/2019 9:00:00AM
19H1550-20	SL-6		08/23/2019 20:01	8/23/2019 9:00:00AM
19H1550-21	SL-7		08/23/2019 20:09	8/23/2019 9:00:00AM
19H1550-22	SL-8		08/23/2019 20:29	8/23/2019 9:00:00AM



Field Results			
Client:	Arcelor Mittal USA, Inc.	Work Order:	19H1550
Client Project:	NPDES Excursion		
Client Sample ID:	#12	Work Order/ID:	19H1550-01
Sample Description:	_	Sampled:	08/23/2019 12:47
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.7	mg/L
рН		7.32	pH Units
Temperature		25.6	Deg C
Client Sample ID:	#11	Work Order/ID:	19H1550-02
Sample Description:		Sampled:	08/23/2019 12:54
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analysos	· · · · · · · · · · · · · · · · · · ·	Result	Units
Analyses Dissolved Oxygen		6.2	mg/L
pH		7.47	pH Units
Temperature		26.3	Deg C
Oliant Comple ID:	#10	Work Order/ID:	1011550 02
Client Sample ID:	#10		19H1550-03 08/23/2019 12:59
Sample Description: Matrix:	Aguagua	Sampled: Received:	08/24/2019 09:00
	Aqueous	Received:	08/24/2019 09.00
Analyses		Result	Units
Dissolved Oxygen		5.8	mg/L
pH Tama and ma		7.52	pH Units
Temperature		25.5	Deg C
Client Sample ID:	#9	Work Order/ID:	19H1550-04
Sample Description:		Sampled:	08/23/2019 13:09
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		5.3	mg/L
pH		7.71	pH Units
Temperature		25.1	Deg C
Client Sample ID:	#8	Work Order/ID:	19H1550-05
Sample Description:		Sampled:	08/23/2019 13:15
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.2	mg/L
рН		7.72	pH Units
Temperature		25.4	Deg C
h			
Client Sample ID:	#7	Work Order/ID:	19H1550-06
Client Sample ID: Sample Description:	#7	Work Order/ID: Sampled:	19H1550-06 08/23/2019 13:22
Client Sample ID: Sample Description: Matrix:		Work Order/ID: Sampled: Received:	
Sample Description:	#7 Aqueous	Sampled:	08/23/2019 13:22

Field Results		Date: Saturd	ay, August 24, 2019
рН		7.52	pH Units
Temperature		24.7	Deg C
Client Sample ID: Sample Description: Matrix:	#6	Work Order/ID: Sampled: Received:	19H1550-07 08/23/2019 13:28 08/24/2019 09:00
	Aqueous		
Analyses		Result	Units
Dissolved Oxygen		6.6	mg/L
pH		7.68	pH Units
Temperature		25	Deg C
Client Sample ID:	#5	Work Order/ID:	19H1550-08
Sample Description:		Sampled:	08/23/2019 13:35
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.7	mg/L
рН		7.72	pH Units
Temperature		24.7	Deg C
	#4	West Order//D	
Client Sample ID:	#4	Work Order/ID:	19H1550-09
Sample Description:		Sampled:	08/23/2019 13:44
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.5	mg/L
рН		7.70	pH Units
Temperature		24.8	Deg C
Client Sample ID:	#3	Work Order/ID:	19H1550-10
Sample Description:		Sampled:	08/23/2019 13:51
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.8	mg/L
рН		7.78	pH Units
Temperature		25.2	Deg C
Client Sample ID:	2	Work Order/ID:	19H1550-11
Sample Description:		Sampled:	08/23/2019 13:57
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.2	mg/L
pH		7.82	pH Units
Temperature		25.3	Deg C
Client Sample ID:	1	Work Order/ID:	19H1550-12
Sample Description:		Sampled:	08/23/2019 14:08
Matrix:	Aqueous	Received:	08/24/2019 09:00
1114U IA.	, 1940040	Neceiveu.	50/27/2013 03.00



Field Results		Date: Saturd	ay, August 24, 2019
Dissolved Oxygen		7.1	mg/L
pH		7.75	pH Units
Temperature		25.7	Deg C
Client Sample ID: Sample Description: Matrix:	0F001 Aqueous	Work Order/ID: Sampled: Received:	19H1550-13 08/23/2019 14:19 08/24/2019 09:00
	Aqueous		
Analyses		Result	Units
Dissolved Oxygen		6.5	mg/L
pH		7.80	pH Units
Temperature		26.7	Deg C
Client Sample ID: Sample Description:	000	Work Order/ID: Sampled:	19H1550-14 08/23/2019 18:20
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.7	mg/L
pН		7.4	pH Units
Temperature		21.2	Deg C
Client Sample ID: Sample Description: Matrix:	SL-1 Aqueous	Work Order/ID: Sampled: Received:	19H1550-15 08/23/2019 18:41 08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		7.9	mg/L
рН		7.62	pH Units
Temperature		23.4	Deg C
Client Sample ID: Sample Description: Matrix:	SL-4 Aqueous	Work Order/ID: Sampled: Received:	19H1550-16 08/23/2019 19:03 08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		7.9	mg/L
pН		7.70	pH Units
Temperature		22.9	Deg C
Client Sample ID: Sample Description: Matrix:	SL-3 Aqueous	Work Order/ID: Sampled: Received:	19H1550-17 08/23/2019 19:15 08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		7.0	mg/L
pH		7.74	pH Units

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Field Results		Date: Satur	day, August 24, 2019
Client Sample ID:	SL-2	Work Order/ID	19H1550-18
Sample Description:		Sampled:	08/23/2019 19:25
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		7.0	mg/L
pН		7.71	pH Units
Temperature		23.1	Deg C
Client Sample ID:	SL-5	Work Order/ID:	19H1550-19
Sample Description:		Sampled:	08/23/2019 19:34
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		7.3	mg/L
pH		7.84	pH Units
Temperature		22.5	Deg C
Client Sample ID:	SL-6	Work Order/ID:	
Sample Description:		Sampled:	08/23/2019 20:01
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		7.0	mg/L
рН		7.76	pH Units
Temperature		22.5	Deg C
Client Sample ID:	SL-7	Work Order/ID	19H1550-21
Sample Description:		Sampled:	08/23/2019 20:09
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		6.9	mg/L
рН		7.8	pH Units
Temperature		22.2	Deg C
		Weste Order//D	4014550.00
Client Sample ID:	SL-8	Work Order/ID	
Sample Description:		Sampled:	08/23/2019 20:29
Matrix:	Aqueous	Received:	08/24/2019 09:00
Analyses		Result	Units
Dissolved Oxygen		7.2	mg/L
рН		7.96	pH Units
Temperature		22.2	Deg C

Microbac Laboratories, Inc.

Analytical Results

Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	nc.							
Client Sample ID:	#12						Work O	rder/ID:	19H1550-01
Sample Description:							Sample	d:	08/23/2019 12:47
Matrix:	Aqueous						Receive	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	-CN C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA			F	Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	Α	NE	0.0050	m	ig/L	1	08/24/2019 16:23
				Method: SW-846 9	9014			An	alyst: AJR
Free Cyanide			F	Prep Method: SW-846 9	9014		F	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	NE	0.0062	m	ıg/L	1	08/24/2019 13:17
				Method: EPA 350.	1 Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		F	Prep Method: EPA 350.	1 Rev 2.0		F	Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	As N)	di	Α	0.24	0.10	m	ıg/L	1	08/24/2019 12:53

Analytical Results

Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	nc.							
Client Sample ID:	#11						Work C	order/ID:	19H1550-02
Sample Description:							Sample	ed:	08/23/2019 12:54
Matrix:	Aqueous						Receive	ed:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA				Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	Α	ND	0.0050		mg/L	1	08/24/2019 16:25
				Method: SW-846 9	014			An	alyst: AJR
Free Cyanide			F	Prep Method: SW-846 9	014			Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 13:22
				Method: EPA 350.1	Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		F	Prep Method: EPA 350.	1 Rev 2.0			Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	As N)	di	Α	1.7	0.10		mg/L	1	08/24/2019 12:55

Analytical Results

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	IC.						
Client Sample ID:	#10					Wo	rk Order/ID	: 19H1550-03
Sample Description:						San	npled:	08/23/2019 12:59
Matrix:	Aqueous					Rec	eived:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual Un	its DF	Analyzed
				Method: SM 4500-	CN C/E-1999			Analyst: AJR
Total Cyanide			F	Prep Method: NA			Prep Dat	te/Time:08/24/2019 11:00
Cyanide, Total		dij	Α	ND	0.0050	mg/L	1	08/24/2019 16:21
				Method: SW-846 9	014			Analyst: AJR
Free Cyanide			F	Prep Method: SW-846 9	014		Prep Dat	te/Time:08/24/2019 11:39
Free Cyanide			А	ND	0.0062	mg/L	1	08/24/2019 13:27
				Method: EPA 350.1	1 Rev 2.0			Analyst: AJR
Nitrogen, Ammonia a	s N		F	Prep Method: EPA 350.	1 Rev 2.0		Prep Dat	te/Time:08/24/2019 11:08
Nitrogen, Ammonia (A	As N)	di	Α	0.38	0.10	mg/L	1	08/24/2019 12:57

Analytical Results

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	nc.							
Client Sample ID:	#9						Work O	rder/ID:	19H1550-04
Sample Description:							Sample	d:	08/23/2019 13:09
Matrix:	Aqueous						Receive	ed:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-0	CN C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA				Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	Α	ND	0.0050		mg/L	1	08/24/2019 16:26
				Method: SW-846 9	014			An	alyst: AJR
Free Cyanide			F	Prep Method: SW-846 9	014			Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 13:32
				Method: EPA 350.1	Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	5 N		F	Prep Method: EPA 350.1	Rev 2.0			Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.33	0.10		mg/L	1	08/24/2019 13:00

Analytical Results

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	IC.							
Client Sample ID:	#8						Work O	rder/ID:	19H1550-05
Sample Description:							Sample	d:	08/23/2019 13:15
Matrix:	Aqueous						Receive	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-0	CN C/E-1999			Ar	alyst: AJR
Total Cyanide			F	Prep Method: NA			I	Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	Α	ND	0.0050		mg/L	1	08/24/2019 16:28
				Method: SW-846 9	014			Ar	alyst:AJR
Free Cyanide			F	Prep Method: SW-846 9	014		I	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 13:37
				Method: EPA 350.1	Rev 2.0			Ar	alyst:AJR
Nitrogen, Ammonia a	s N		F	Prep Method: EPA 350.1	Rev 2.0		I	Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	As N)	di	Α	0.36	0.10		mg/L	1	08/24/2019 13:02

Analytical Results

Saturday, August 24, 2019

Date:

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	nc.							
Client Sample ID:	#7						Work O	rder/ID:	19H1550-06
Sample Description:							Sample	d:	08/23/2019 13:22
Matrix:	Aqueous						Receive	ed:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			An	alyst: AJR
Total Cyanide			P	rep Method: NA				Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	A	NE	0.0050		mg/L	1	08/24/2019 16:30
				Method: SW-846 9	014			An	alyst: AJR
Free Cyanide			P	rep Method: SW-846 9	014			Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	NE	0.0062		mg/L	1	08/24/2019 13:38
				Method: EPA 350.	1 Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		P	rep Method: EPA 350.	1 Rev 2.0			Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.31	0.10		mg/L	1	08/24/2019 13:04

Analytical Results

Client:	Arcelor Mittal USA, I	nc.							
Client Project:	NPDES Excursion								
Client Sample ID:	#6						Work O	rder/ID:	19H1550-0
Sample Description:							Sample	d:	08/23/2019 13:2
Matrix:	Aqueous						Receive	∋d:	08/23/2019 9:0
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
	Method: SM 4500-CN C/E-1999					Analyst: AJR			
Total Cyanide			F	Prep Method: NA				Prep Date/7	Time:08/24/2019 13:58
Cyanide, Total		dij	Α	ND	0.0050	I	mg/L	1	08/24/2019 16:32
				Method: SW-846 9	014			Ana	alyst: AJR
Free Cyanide			F	Prep Method: SW-846 9	014			Prep Date/7	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062	r	ng/L	1	08/24/2019 13:40
				Method: EPA 350.	1 Rev 2.0			Ana	alyst: AJR
Nitrogen, Ammonia a	Ammonia as N Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time				Time:08/24/2019 11:08				
Nitrogen, Ammonia (A	As N)	di A 0.35 0.10 mg/L 1 08/24/2019 13:07					08/24/2019 13:07		

Analytical Results

Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	nc.							
Client Sample ID:	#5						Work O	rder/ID:	19H1550-08
Sample Description:							Sample	d:	08/23/2019 13:35
Matrix:	Aqueous						Receive	ed:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500	CN C/E-1999			An	alyst: AJR
Total Cyanide			P	rep Method: NA				Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	Α	NE	0.0050		mg/L	1	08/24/2019 16:33
				Method: SW-846 9	0014			An	alyst: AJR
Free Cyanide			P	rep Method: SW-846	9014			Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	NE	0.0062		mg/L	1	08/24/2019 13:42
				Method: EPA 350.	1 Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		P	rep Method: EPA 350	1 Rev 2.0			Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.32	0.10		mg/L	1	08/24/2019 13:09

Analytical Results

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	nc.							
Client Sample ID:	#4						Work O	rder/ID:	19H1550-09
Sample Description:							Sample	d:	08/23/2019 13:44
Matrix:	Aqueous						Receive	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			An	alyst: AJR
Total Cyanide			P	Prep Method: NA				Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	A	ND	0.0050		mg/L	1	08/24/2019 16:35
				Method: SW-846 9	014			An	alyst: AJR
Free Cyanide			P	Prep Method: SW-846 S	014		I	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 13:44
				Method: EPA 350.	1 Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	5 N		P	Prep Method: EPA 350.	1 Rev 2.0		I	Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.30	0.10		mg/L	1	08/24/2019 13:12

Analytical Results

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	nc.							
Client Sample ID:	#3						Work O	rder/ID:	19H1550-10
Sample Description:							Sample	d:	08/23/2019 13:51
Matrix:	Aqueous						Receive	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-0	CN C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA			I	Prep Date/	Time:08/24/2019 13:58
Cyanide, Total		dij	Α	ND	0.0050	1	mg/L	1	08/24/2019 16:37
				Method: SW-846 9	014			An	alyst: AJR
Free Cyanide			F	Prep Method: SW-846 9	014		I	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 13:45
				Method: EPA 350.1	Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		F	Prep Method: EPA 350.1	l Rev 2.0		I	Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	As N)	di	Α	0.29	0.10		mg/L	1	08/24/2019 13:19

Analytical Results

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	nc.							
Client Sample ID:	2						Work O	rder/ID:	19H1550-11
Sample Description:							Sample	d:	08/23/2019 13:57
Matrix:	Aqueous						Receive	ed:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			Ana	alyst: AJR
Total Cyanide			P	Prep Method: NA				Prep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	Α	NE	0.0050		mg/L	1	08/24/2019 16:11
				Method: SW-846 9	014			Ana	alyst: AJR
Free Cyanide			P	Prep Method: SW-846 9	014			Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 13:47
				Method: EPA 350.	1 Rev 2.0			Ana	alyst: AJR
Nitrogen, Ammonia as	5 N		P	Prep Method: EPA 350.	1 Rev 2.0			Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.33	0.10		mg/L	1	08/24/2019 13:21

Analytical Results

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion	nc.							
Client Sample ID:	1						Work O	rder/ID:	19H1550-12
Sample Description:							Sample	d:	08/23/2019 14:08
Matrix:	Aqueous						Receive	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500	-CN C/E-1999			Ana	alyst: AJR
Total Cyanide			F	Prep Method: NA			F	Prep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	Α	0.0054	0.0050	m	ng/L	1	08/24/2019 16:13
				Method: SW-846	9014			Ana	alyst: AJR
Free Cyanide			F	Prep Method: SW-846	9014		F	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	N	0.0062	m	ng/L	1	08/24/2019 13:49
				Method: EPA 350	1 Rev 2.0			Ana	alyst: AJR
Nitrogen, Ammonia as	5 N		F	Prep Method: EPA 350	.1 Rev 2.0		F	Prep Date/	Time: 08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.42	0.10	m	ng/L	1	08/24/2019 13:47

Analytical Results

Analytical Re	sults					D	ate:	Satur	day, August 24, 2019
Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	nc.							
Client Sample ID: Sample Description:	0F001						Work O Sample		19H1550-13 08/23/2019 14:19
Matrix:	Aqueous						Receive		08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-0	CN C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA			I	Prep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	Α	ND	0.0050		mg/L	1	08/24/2019 16:15
				Method: SW-846 9	014			An	alyst:AJR
Free Cyanide			F	Prep Method: SW-846 9	014		I	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 13:50
				Method: EPA 350.1	Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		F	Prep Method: EPA 350.1	l Rev 2.0		I	Prep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.46	0.10		mg/L	1	08/24/2019 13:50

Analytical Results

Client:

Matrix:

Analyses

Total Cyanide

Client Project:

Date: Saturday, August 24, 2019 Arcelor Mittal USA, Inc. NPDES Excursion 000 Work Order/ID: 19H1550-14 **Client Sample ID:** 08/23/2019 18:20 Sample Description: Sampled: Aqueous **Received:** 08/23/2019 9:00 RL Units Certs AT Result Qual DF Analyzed Method: SM 4500-CN C/E-1999 Analyst: AJR Prep Method: NA Prep Date/Time: 08/24/2019 11:00 ND Cyanide, Total dij А 0.0050 mg/L 1 08/24/2019 15:29

			Method: SW-846 9		Analyst: AJR			
Free Cyanide		F	Prep Method: SW-846 9		Prep Date/Time:08/24/2019 11:39			
Free Cyanide	A ND 0.0062 mg/L 1 08/24/2019 13							
			Method: EPA 350.1		Analyst: AJR			
Nitrogen, Ammonia as N	Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/24/2019 11							
Nitrogen, Ammonia (As N)	di	Α	0.26	0.10	mg/L	1	08/24/2019 13:52	

Analytical Results

Nitrogen, Ammonia (As N)

Analytical Re			D	ate:	Satur	day, August 24, 2019			
Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	Inc.							
Client Sample ID: Sample Description:	SL-1						Work O Sample		19H1550-15 08/23/2019 18:41
Matrix:	Aqueous						Receive	ed:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA			I	Prep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	Α	0.011	0.0050		mg/L	1	08/24/2019 16:16
				Method: SW-846 9	014			An	alyst:AJR
Free Cyanide			F	Prep Method: SW-846 9	014		I	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	NE	0.0062		mg/L	1	08/24/2019 13:57
	- N	Method: EPA 350.1 Rev 2.0							alyst: AJR Time: 08/24/2019 11:0 8
Nitrogen, Ammonia as	nonia as N Prep Method: EPA 350.1 Rev 2.0						Fiep Date/	11110.00/24/2019 11:00	

0.10

mg/L

1

08/24/2019 13:55

A 0.17

di

Analytical Results

Client:

Matrix:

Analyses

Total Cyanide

Date: Saturday, August 24, 2019 Arcelor Mittal USA, Inc. NPDES Excursion **Client Project:** SL-4 Work Order/ID: 19H1550-16 **Client Sample ID:** 08/23/2019 19:03 Sample Description: Sampled: **Received:** Aqueous 08/23/2019 9:00 Certs AT Result RL Units Qual DF Analyzed Method: SM 4500-CN C/E-1999 Analyst: AJR Prep Method: NA Prep Date/Time: 08/24/2019 11:00 Cyanide, Total dij А ND 0.0050 mg/L 1 08/24/2019 15:31 Method: SW-846 9014 Analyst: AJR

				· · · · · · · · · · · · · · · · · · ·			
Free Cyanide		Prep Method: SW-846 9		Prep Date/Time:08/24/2019 11:39			
Free Cyanide	A	ND	0.0062	mg/L	1	08/24/2019 13:59	
		Method: EPA 350.		Analyst: AJR			
Nitrogen, Ammonia as N		Prep Method: EPA 350.		Prep Date/Time:08/24/2019 11:08			
Nitrogen, Ammonia (As N)	di A	0.22	0.10	mg/L	1	08/24/2019 13:57	

Analytical Results

Client:

Matrix:

Analyses

Client Project:

Client Sample ID:

Sample Description:

Date: Saturday, August 24, 2019 Arcelor Mittal USA, Inc. NPDES Excursion SL-3 Work Order/ID: 19H1550-17 08/23/2019 19:15 Sampled: **Received:** Aqueous 08/23/2019 9:00 RL Units Certs AT Result Qual DF Analyzed Method: SM 4500-CN C/E-1999 Analyst: AJR

	I	Prep Method: NA	Prep Date/Time:08/24/2019 11:00					
dij	A	ND	1	08/24/2019 15:33				
	Method: SW-846 9014 Analyst: AJR							
	F	Prep Method: SW-846 9		Prep Date/Time:08/24/2019 11:39				
	Α	ND	0.0062	mg/L	1	08/24/2019 14:00		
		Method: EPA 350.1	Rev 2.0		Analyst: AJR			
	I	Prep Method: EPA 350.1		Prep Date/	/Time:08/24/2019 11:08			
di	Α	0.23	0.10	mg/L	1	08/24/2019 13:59		
		dij A	Method: SW-846 9 Prep Method: SW-846 9 A ND Method: EPA 350.1 Prep Method: EPA 350.1	dij A ND 0.0050 Method: SW-846 9014 Prep Method: SW-846 9014 A ND 0.0062 Method: EPA 350.1 Rev 2.0 Prep Method: EPA 350.1 Rev 2.0	dij A ND 0.0050 mg/L Method: SW-846 9014 Prep Method: SW-846 9014 A ND 0.0062 mg/L Method: EPA 350.1 Rev 2.0 Prep Method: EPA 350.1 Rev 2.0	dij A ND 0.0050 mg/L 1 Method: SW-846 9014 Ar Ar Prep Method: SW-846 9014 Prep Date A ND 0.0062 mg/L 1 Method: EPA 350.1 Rev 2.0 Ar Prep Method: EPA 350.1 Rev 2.0 Prep		

Analytical Results

Client: Client Project:	Arcelor Mittal USA, Ir NPDES Excursion	IC.							
Client Sample ID:	SL-2					١	Nork Or	der/ID:	19H1550-18
Sample Description:						5	Sampled	:	08/23/2019 19:25
Matrix:	Aqueous					F	Received	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA			P	rep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	Α	ND	0.0050	mg	/L	1	08/24/2019 15:34
				Method: SW-846 9	014			An	alyst:AJR
Free Cyanide			F	Prep Method: SW-846 9	014		Р	rep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062	mg	/L	1	08/24/2019 14:02
				Method: EPA 350.	l Rev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		F	Prep Method: EPA 350.	1 Rev 2.0		Р	rep Date/	Time:08/24/2019 11:08
Nitrogen, Ammonia (A	s N)	di	Α	0.26	0.10	mg	/L	1	08/24/2019 14:02

Analy I Doculto

Analytical Re	sults						D	ate:	Sature	day, August 24, 2019
Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	nc.								
Client Sample ID: Sample Description:	SL-5							Work O Sample	rder/ID: d:	19H1550-19 08/23/2019 19:34
Matrix:	Aqueous							Receive	ed:	08/23/2019 9:00
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed
				Method: SM 4	500-CN	C/E-1999			An	alyst: AJR
Total Cyanide			I	Prep Method: NA					Prep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	A		ND	0.0050		mg/L	1	08/24/2019 15:36
				Method: SW-8	46 9014	L .			An	alyst: AJR
Free Cyanide			I	Prep Method: SW-8	346 9014	4			Prep Date/	Time:08/24/2019 11:39
Free Ovenide			٨		ND	0.0062		ma/l	1	09/24/2010 14:04

Free Cyanide		A	ND	0.0062	mg/L	1	08/24/2019 14:04	
			Method: EPA 350.1	Rev 2.0		An	alyst: AJR	
Nitrogen, Ammonia as N		F	Prep Method: EPA 350.1	1 Rev 2.0		Prep Date/	Time:08/24/2019 11:14	
Nitrogen, Ammonia (As N)	di	Α	0.19	0.10	mg/L	1	08/24/2019 14:04	1

<u>Ar</u> alvtical Results

Nitrogen, Ammonia (As N)

Analytical Re	sults					D	ate:	Satur	day, August 24, 2019
Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	nc.							
Client Sample ID: Sample Description:	SL-6						Work Or Sample		19H1550-20 08/23/2019 20:01
Matrix:	Aqueous						Receive	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-CN	C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA			I	Prep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	Α	ND	0.0050		mg/L	1	08/24/2019 15:38
				Method: SW-846 901	4			An	alyst: AJR
Free Cyanide			F	Prep Method: SW-846 901	4		I	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 14:05
				Method: EPA 350.1 R	ev 2.0			An	alyst:AJR
Nitrogen, Ammonia a	s N		F	Prep Method: EPA 350.1 R	ev 2.0			Prep Date/	Time:08/24/2019 12:33

0.10

mg/L

1

08/24/2019 14:11

A 0.11

di

Analytical Results

SL-7

Client:

Client Project:

Client Sample ID:

Sample Description:

Saturday, August 24, 2019 Date: Arcelor Mittal USA, Inc. NPDES Excursion Work Order/ID: 19H1550-21 08/23/2019 20:09 Sampled: -00/00/0010 0.00

Campie Decemption					eamp	loan	00/20/20/0 20/00
Matrix: Aqueo	ous				Recei	ved:	08/23/2019 9:00
Analyses	Certs	AT	Result	RL	Qual Units	5 DF	Analyzed
			Method: SM 4500-CI	N C/E-1999		Aı	nalyst: AJR
Total Cyanide		F	Prep Method: NA			Prep Date	/Time:08/24/2019 11:00
Cyanide, Total	dij	Α	ND	0.0050	mg/L	1	08/24/2019 15:39
			Method: SW-846 901	4		Aı	nalyst: AJR
Free Cyanide		F	Prep Method: SW-846 901	14		Prep Date	/Time:08/24/2019 11:39
Free Cyanide		Α	ND	0.0062	mg/L	1	08/24/2019 14:07
			Method: EPA 350.1 F	Rev 2.0		Aı	nalyst: AJR
Nitrogen, Ammonia as N		F	Prep Method: EPA 350.1	Rev 2.0		Prep Date	/Time:08/24/2019 12:33
Nitrogen, Ammonia (As N)	di	Α	ND	0.10	mg/L	1	08/24/2019 14:14

Analytical Results

Nitrogen, Ammonia (As N)

Analytical Re	sults					D	ate:	Satur	day, August 24, 2019
Client: Client Project:	Arcelor Mittal USA, I NPDES Excursion	nc.							
Client Sample ID: Sample Description:	SL-8						Work Or Sampled		19H1550-22 08/23/2019 20:29
Matrix:	Aqueous						Receive	d:	08/23/2019 9:00
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-CN	C/E-1999			An	alyst: AJR
Total Cyanide			F	Prep Method: NA			F	Prep Date/	Time:08/24/2019 11:00
Cyanide, Total		dij	Α	ND	0.0050		mg/L	1	08/24/2019 15:41
				Method: SW-846 9014				An	alyst:AJR
Free Cyanide			F	Prep Method: SW-846 9014	Ļ		F	Prep Date/	Time:08/24/2019 11:39
Free Cyanide			Α	ND	0.0062		mg/L	1	08/24/2019 14:09
				Method: EPA 350.1 Re	ev 2.0			An	alyst: AJR
Nitrogen, Ammonia as	s N		F	Prep Method: EPA 350.1 Re	ev 2.0		F	Prep Date/	Time:08/24/2019 12:33

0.10

mg/L

1

A 0.12

di

08/24/2019 14:16

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

🔊 MICROBAC®

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)

RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler

Comments

No dates or times on sample containers

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?	No
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?)	No
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

M^{f.0°C}ROBAC[®]

CHAIN OF CUSTODY RECORD	TO BE COMPLETED BY MICROBAC Temperature Upon Receipt (°C) 6. 3 Them ID	e 0/	Samples Received on Ice?	Custody Seals Intact? 🗌 Yes 🗌 No 🔀 N/A	CLevel 4 EDD		es 🗌 No	S.	served			1941550 Additional Notes	-6 (- 52	- 63	- o¢	105	-06	107	-0,6	109	ç) ~	□ Archive	Date/Time		Date/ Iime	8/24/9 69 W	Page /P
CHAIN OF CUS Number 15 Instructions on back	TO BE COM Temperatur Therm ID	Holding Time	Samples Re	Custody Sea	2 🗌 Level 3		itoring? 🗌 Yes ram	SZ-HH	fy) ane, (U) Unpre:	-	210		6.7	0 6,2	5	53	262	200	616	1617	612				þ	0	Á	
	iness days)				el 1 🛛 Level 2	<pre>e-mail (address)</pre>	Compliance Monitoring?	219-644	, Other (speci Ifate, (9) Hexa	D ANALYSIS	(P) F	10	6 7.32	67.5 8	SZ ZSZ	122 1	4 7,70	7,50	0 7.68	617 1	8 7,70	2 7.78	□ Dispose as appropriate	Received By (signature)	9	kecelved by (signature)	Received By (signature)	
	Turnaround Time Rentine (5 to 7 business days)		(Ac	be	s Only 🛛 Level 1		3 🗆	Sampler Phone No.:	e Water (WW) Sodium Thiosu	REQUESTE	b (traft) (332-)	Len CND	× 25.	1 26	25.5	25,1	25,6	24.	25,0	:40	24,5	V asti	□ Dispose a					
-	Turnaround Time Routine (5 to	K	(needed by)	Report Type	□ Results Only	a: 🗌 Mail 🗍 Fax	9	Sampler F	r (SW), Waste isulfate, (8) S		(742) L	GN	X									, >	Sample Disposition		11:20	0400		
	N					Send Invoice via:	PO No.:	Man-	(g/v), Surface Water (SW), Waste Water (WW), Other (specify) Manol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane		P	Preservative Types **	2 p'8'n	-								> >	Sample	Date/Ti		8/24/1 P	Date/Time	
¢.	See.							ure Chil	Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved	-	ontainers	Matrix Grab V C	3 40 5			_					_	→ → >	Radioactive	ed By (signature)	der	(signature)	(signature)	
×	Invoice Addres Client Name:	Address:	City, State, Zip:	Contact:	Telephone No.:		Location:		Drinking Water ((4) NaOH, (5) Zii			Time Collected	12:47	12:54	12:59	13:09	13:15	13:22	13:28	13:35	13:44	0		Relinguished By	Same of a		Relinquished By	
e.	5					🗌 e-mail (address)	Mon/heive	mar	Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Z			Date Collected	8/23/19	_				_	_			>	Hazardous Non-Hazardous	~	tor 13	KEN	ove to high Warles Relinquished By Angeleus Condittions	
)BAC*	Iress Am RH					🗌 Mail 🔤 Fax	RECEIVING WATER Moni	Detal	* Matrix Types: Soil/Solid (S), SI Preservative Types: (1) HNO3, (2) H			Client Sample ID	3	11	01	8	Ś	6	e	Ś	4			Collected /	- location	Not TAKEN	/ DAMGGEOUS Conditions	
MICROBAC*	Lab Report Address Client Name:	Address:	City, State, Zip:	Contact:	Telephone No.:	Send Report via:	Project: Rec	Sampled by (PRINT).	19H Arce	elor ES 4/2	Mittal - Bu Excursion	n	rbor										Possible Hazard Identification Comments	When	1, we	Hd	0'0	rev.12/26/2017

CHAIN OF CUSTODY RECORD Number 152306 Instructions on back	<i>TO BE COMPLETED BY MICROBAC</i> Temperature Upon Receipt (°C) 6 3 Therm ID Holding Time	Samples Received on Ice? TYes No N/A Custody Seals Intact? Yes No N/A	el 2	address) Alance Monitoring? ロYes ロNo ency/Program こパーはイゾー フェアン	ify) cane, (U) Unpreserved	6 2 (flold) -12 -12 -12 -12 -12 -12 -12	e Return Archive	e) Date/Time Date/Time e) Date/Time e) Bate/Time
	Turnaround Time □_Routine(5 to 7 business days) ★BUSH* (notify lab)	(needed by) Report Type	Results Only	Send Invoice via: PO No.: PO No.: PO No.: PO No.: PO Agency/Program Sampler Phone No.: PO PO P	 Surface Water (SW), Waste Water (WW), Other (specify) (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane BEOLECTED ANALYCIS 	(7) (120 E E) $(7) (120 E E)$ $(7) (120 E E)$ $(7) (120 E E)$ $(7) (120 E E)$ $(7) (120 E)$	Sample Disposition	Time Time Received By (signature)
	Invoice Address Client Name: Address:	City, State, Zip: Contact:	Telephone No.:	Location: Sampler Signature	* 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) HCI, (4) NaOH, (5) Zinc Acetate, (6) Metherol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved	Image: Second structure Image: Second structure Image: Second structure Image: Second structure <td>Von-Hazardous Dadioactive</td> <td>Relinquished By (signature) Date/Time Relinquished By (signature) Date/Time Relinquished By (signature) Date/Time Relinquished By (signature) Date/Time</td>	Von-Hazardous Dadioactive	Relinquished By (signature) Date/Time Relinquished By (signature) Date/Time Relinquished By (signature) Date/Time Relinquished By (signature) Date/Time
MICROBAC*	Lab Report Address Client Name: Am R H Address:	City, State, Zip: Contact:		Project: Reduliar Lemail (address) Project: Reduliar Warth Marth Marth Sampled by (PRINT): Pathole (Colling	* Matrix Types: Soil/Solid (S), Sludge, Oil, V ** Preservative Types: (1) HNO3, (2) H2SO4, (3)	Lab ID Client Sample ID Date A A A/A	Possible Hazard Identification	When Callected Time Dia Dia

MICROBAC*	4		CHAIN OF CUSTODY RECORD Number 152397
Lab Report Address	Invoice Address	Turnaround Time	3Y MICROBAC
Client Name: Am 3 H	Client Name:	Routine (5 to 7 business days) KUSH* (notify lab)	Temperature Upon Receipt (°C) ${\cal E}, {\cal F}$ Them ID
Address:	Address:	1	Holding Time
City, State, Zip:	City, State, Zip:	(needed by)	Samples Received on Ice? 🗌 Yes 🔲 No 🔲 N/A
Contact:	Contact:	Report Type	Custody Seals Intact? 🗌 Yes 🗌 No 🔲 N/A
Telephone No.:	Telephone No.:	Results Only Level 1 Level 2	
Send Report via: 🛛 Mail 🗌 Fax 🗍 e-mail (address)		Send Invoice via:	
Project: Receiver in the Markelin	MA Location:	PO No.: Compliance Monitoring?	ring? [Yes No
Sampled by (PRINT): Path left Curlinger	Sampler Signature:	Sampler Phone No.: 219-0	2822-44J
* Matrix Types: Soil/Solid (S), Sludge, Oi ** Preservative Types: (1) HNO3, (2) H2SO4, (Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Metbanol,	* 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) Metbanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved	, (U) Unpreserved
		REQUESTED ANALYSIS	
	omp		(72) (72)
D Collent Sample ID Coll	Date Time Collected Zo Types **	тр 	of the 1941550
000 8h31	19 19:20 3 20 6 6	2,4 K K X 71,2 7,4	61- 13
1-75		2 m L H 23 H L H	7,9 -1,5
8-19	50:61	1 22.9 7.70	7.9 -15
N-1-1-22		hl.L 1.22	7.7 0.1
21-2	11.45	11.1. 1.22	- 18
51-10	10.00		13 Field PH 7.84 7
5-15.	20°03	77.7 7 6	10 -22
51-00	V 20.29 V V V	V V V 22 2 7.96	7.2 -22
Possible Hazard Identification	Onn-Hazardous Radioactive	Sample Disposition	ReturnArchive
when cullected	Relinduighed By (signature)	Date/Time Received By (signature)	e/Time/
TIME	0	edime u	Date/Time -
Temp	h	19 0900	
00.	(signature)	Date/ Ime Received by (signature)	Orter/Inte US UD
rev.12/26/2017		2	Page Page 33 of 33