

August 26, 2019

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

Work Order No.: 19H1598

Re: NPDES Excursion

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 25 sample(s) on 8/26/2019 9:50:00AM for the analyses presented in the following report as Work Order 19H1598.

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

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

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

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

Sincerely,  
Microbac Laboratories, Inc.



Carey Gadzala  
Project Manager

**WORK ORDER SAMPLE SUMMARY**

**Date:** *Monday, August 26, 2019*

**Client:** Arcelor Mittal USA, Inc.  
**Project:** NPDES Excursion  
**Lab Order:** 19H1598

| Lab Sample ID | Client Sample ID       | Tag Number | Collection Date  | Date Received       |
|---------------|------------------------|------------|------------------|---------------------|
| 19H1598-01    | 15 Portage Marina East |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-02    | #8                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-03    | #9                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-04    | #10                    |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-05    | #11                    |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-06    | #12                    |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-07    | SL-1                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-08    | #13                    |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-09    | #14                    |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-10    | #7                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-11    | #6                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-12    | #5                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-13    | #4                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-14    | #3                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-15    | #2                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-16    | #1                     |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-17    | OF001                  |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-18    | 000                    |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-19    | SL-2                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-20    | SL-3                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-21    | SL-4                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-22    | SL-5                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-23    | SL-6                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-24    | SL-7                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |
| 19H1598-25    | SL-8                   |            | 08/25/2019 09:50 | 8/26/2019 9:50:00AM |

## Field Results

Date: *Monday, August 26, 2019*

|   |                                   |
|---|-----------------------------------|
| <b>Client:</b> Arcelor Mittal USA, Inc.         | <b>Work Order:</b> 19H1598        |
| <b>Client Project:</b> NPDES Excursion          |                                   |
| <b>Client Sample ID:</b> 15 Portage Marina East | <b>Work Order/ID:</b> 19H1598-01  |
| <b>Sample Description:</b>                      | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous                          | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 5.9    | mg/L     |
| pH               | 7.32   | pH Units |
| Temperature      | 23.7   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #8 | <b>Work Order/ID:</b> 19H1598-02  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 5.9    | mg/L     |
| pH               | 7.28   | pH Units |
| Temperature      | 23.4   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #9 | <b>Work Order/ID:</b> 19H1598-03  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 5.5    | mg/L     |
| pH               | 7.32   | pH Units |
| Temperature      | 23.6   | Deg C    |

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #10 | <b>Work Order/ID:</b> 19H1598-04  |
| <b>Sample Description:</b>   | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous       | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.0    | mg/L     |
| pH               | 7.35   | pH Units |
| Temperature      | 23.7   | Deg C    |

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #11 | <b>Work Order/ID:</b> 19H1598-05  |
| <b>Sample Description:</b>   | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous       | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 5.9    | mg/L     |
| pH               | 7.44   | pH Units |
| Temperature      | 23.5   | Deg C    |

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #12 | <b>Work Order/ID:</b> 19H1598-06  |
| <b>Sample Description:</b>   | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous       | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units |
|------------------|--------|-------|
| Dissolved Oxygen | 6.0    | mg/L  |

[Microbac Laboratories, Inc.](http://www.microbac.com)

**Field Results**

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|             |      |          |
|-------------|------|----------|
| pH          | 7.47 | pH Units |
| Temperature | 23.8 | Deg C    |

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> SL-1 | <b>Work Order/ID:</b> 19H1598-07  |
| <b>Sample Description:</b>    | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous        | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 8.0    | mg/L     |
| pH               | 7.91   | pH Units |
| Temperature      | 21.7   | Deg C    |

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #13 | <b>Work Order/ID:</b> 19H1598-08  |
| <b>Sample Description:</b>   | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous       | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.9    | mg/L     |
| pH               | 7.73   | pH Units |
| Temperature      | 22.6   | Deg C    |

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #14 | <b>Work Order/ID:</b> 19H1598-09  |
| <b>Sample Description:</b>   | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous       | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 8.3    | mg/L     |
| pH               | 7.96   | pH Units |
| Temperature      | 24.2   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #7 | <b>Work Order/ID:</b> 19H1598-10  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 5.7    | mg/L     |
| pH               | 7.51   | pH Units |
| Temperature      | 23.4   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #6 | <b>Work Order/ID:</b> 19H1598-11  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.4    | mg/L     |
| pH               | 7.71   | pH Units |
| Temperature      | 22.4   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #5 | <b>Work Order/ID:</b> 19H1598-12  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses | Result | Units |
|----------|--------|-------|
|----------|--------|-------|

**Field Results**

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|                  |      |          |
|------------------|------|----------|
| Dissolved Oxygen | 6.3  | mg/L     |
| pH               | 7.73 | pH Units |
| Temperature      | 22.6 | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #4 | <b>Work Order/ID:</b> 19H1598-13  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.6    | mg/L     |
| pH               | 7.72   | pH Units |
| Temperature      | 22.8   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #3 | <b>Work Order/ID:</b> 19H1598-14  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.6    | mg/L     |
| pH               | 7.76   | pH Units |
| Temperature      | 22.4   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #2 | <b>Work Order/ID:</b> 19H1598-15  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.4    | mg/L     |
| pH               | 7.76   | pH Units |
| Temperature      | 22.7   | Deg C    |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Client Sample ID:</b> #1 | <b>Work Order/ID:</b> 19H1598-16  |
| <b>Sample Description:</b>  | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous      | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 7.1    | mg/L     |
| pH               | 7.73   | pH Units |
| Temperature      | 23.3   | Deg C    |

|                                |                                   |
|--------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> OF001 | <b>Work Order/ID:</b> 19H1598-17  |
| <b>Sample Description:</b>     | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous         | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.4    | mg/L     |
| pH               | 7.79   | pH Units |
| Temperature      | 24.4   | Deg C    |

**Field Results**

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|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> 000 | <b>Work Order/ID:</b> 19H1598-18  |
| <b>Sample Description:</b>   | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous       | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.7    | mg/L     |
| pH               | 7.77   | pH Units |
| Temperature      | 21.3   | Deg C    |

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> SL-2 | <b>Work Order/ID:</b> 19H1598-19  |
| <b>Sample Description:</b>    | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous        | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 8.2    | mg/L     |
| pH               | 8.04   | pH Units |
| Temperature      | 23.2   | Deg C    |

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> SL-3 | <b>Work Order/ID:</b> 19H1598-20  |
| <b>Sample Description:</b>    | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous        | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 7.7    | mg/L     |
| pH               | 8.11   | pH Units |
| Temperature      | 23.4   | Deg C    |

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> SL-4 | <b>Work Order/ID:</b> 19H1598-21  |
| <b>Sample Description:</b>    | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous        | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 8.0    | mg/L     |
| pH               | 8.04   | pH Units |
| Temperature      | 23.7   | Deg C    |

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> SL-5 | <b>Work Order/ID:</b> 19H1598-22  |
| <b>Sample Description:</b>    | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous        | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 7.6    | mg/L     |
| pH               | 7.92   | pH Units |
| Temperature      | 23.9   | Deg C    |

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Client Sample ID:</b> SL-6 | <b>Work Order/ID:</b> 19H1598-23  |
| <b>Sample Description:</b>    | <b>Sampled:</b> 08/25/2019 09:50  |
| <b>Matrix:</b> Aqueous        | <b>Received:</b> 08/26/2019 09:50 |

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.7    | mg/L     |
| pH               | 7.99   | pH Units |
| Temperature      | 24.2   | Deg C    |

**Field Results**

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**Client Sample ID:** SL-7  
**Sample Description:**  
**Matrix:** Aqueous

**Work Order/ID:** 19H1598-24  
**Sampled:** 08/25/2019 09:50  
**Received:** 08/26/2019 09:50

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 6.8    | mg/L     |
| pH               | 8.02   | pH Units |
| Temperature      | 23.8   | Deg C    |

**Client Sample ID:** SL-8  
**Sample Description:**  
**Matrix:** Aqueous

**Work Order/ID:** 19H1598-25  
**Sampled:** 08/25/2019 09:50  
**Received:** 08/26/2019 09:50

| Analyses         | Result | Units    |
|------------------|--------|----------|
| Dissolved Oxygen | 7.1    | mg/L     |
| pH               | 8.0    | pH Units |
| Temperature      | 23.8   | Deg C    |

## Analytical Results

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|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-01      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | 15 Portage Marina East   | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:28 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 12:37 |



## Analytical Results

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|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-02      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #8                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:30 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 12:39 |

## Analytical Results

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|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-03      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #9                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF                  | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|---------------------|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       | Analyst: <b>AJR</b> |                  |
| <b>Total Cyanide</b> |       | Prep Method: <b>NA</b>             |           |        | Prep Date/Time: <b>08/26/2019 13:14</b> |       |                     |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1                   | 08/26/2019 15:32 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       | Analyst: <b>AJR</b> |                  |
| <b>Free Cyanide</b>  |       | Prep Method: <b>SW-846 9014</b>    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |                     |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1                   | 08/26/2019 12:41 |

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|                            |                          |  |                       |                 |
|----------------------------|--------------------------|--|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. |  | <b>Work Order/ID:</b> | 19H1598-04      |
| <b>Client Project:</b>     | NPDES Excursion          |  | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #10                      |  | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |  |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 13:14</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:33 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 12:42 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-05      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #11                      | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 13:14</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:35 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 12:44 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-06      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #12                      | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 13:14</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:37 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 12:46 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-07      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-1                     | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT | Result    | RL                                 | Qual | Units                                   | DF | Analyzed         |
|----------------------|-------|----|-----------|------------------------------------|------|---|----|------------------|
| <b>Total Cyanide</b> |       |    |           | Method: <b>SM 4500-CN C/E-1999</b> |      | Analyst: <b>AJR</b>                     |    |                  |
|                      |       |    |           | Prep Method: <b>NA</b>             |      | Prep Date/Time: <b>08/26/2019 13:14</b> |    |                  |
| Cyanide, Total       | dij   | A  | <b>ND</b> | 0.0050                             |      | mg/L                                    | 1  | 08/26/2019 15:42 |
| <b>Free Cyanide</b>  |       |    |           | Method: <b>SW-846 9014</b>         |      | Analyst: <b>AJR</b>                     |    |                  |
|                      |       |    |           | Prep Method: <b>SW-846 9014</b>    |      | Prep Date/Time: <b>08/26/2019 11:29</b> |    |                  |
| Free Cyanide         |       | A  | <b>ND</b> | 0.0062                             |      | mg/L                                    | 1  | 08/26/2019 12:47 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-08      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #13                      | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:43 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 12:49 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-09      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #14                      | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:45 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:05 |



## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-10      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #7                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:47 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:07 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-11      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #6                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:48 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:12 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-12      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #5                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT | Result                             | RL     | Qual | Units                                   | DF                  | Analyzed         |
|----------------------|-------|----|------------------------------------|--------|------|---|---------------------|------------------|
|                      |       |    | Method: <b>SM 4500-CN C/E-1999</b> |        |      |   | Analyst: <b>AJR</b> |                  |
| <b>Total Cyanide</b> |       |    | Prep Method: <b>NA</b>             |        |      | Prep Date/Time: <b>08/26/2019 12:58</b> |                     |                  |
| Cyanide, Total       | dij   | A  | <b>0.0070</b>                      | 0.0050 |      | mg/L                                    | 1                   | 08/26/2019 15:50 |
|                      |       |    | Method: <b>SW-846 9014</b>         |        |      |   | Analyst: <b>AJR</b> |                  |
| <b>Free Cyanide</b>  |       |    | Prep Method: <b>SW-846 9014</b>    |        |      | Prep Date/Time: <b>08/26/2019 11:29</b> |                     |                  |
| Free Cyanide         |       | A  | <b>ND</b>                          | 0.0062 |      | mg/L                                    | 1                   | 08/26/2019 13:17 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-13      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #4                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:52 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:26 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-14      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #3                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       | Prep Method: <b>NA</b>             |           |        | Prep Date/Time: <b>08/26/2019 12:58</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 15:53 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       | Prep Method: <b>SW-846 9014</b>    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:27 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-15      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #2                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       | Prep Method: <b>NA</b>             |           |        | Prep Date/Time: <b>08/26/2019 13:14</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 16:09 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       | Prep Method: <b>SW-846 9014</b>    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:29 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-16      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | #1                       | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 13:14</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 16:10 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:31 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-17      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | OF001                    | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 14:17</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 16:54 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:32 |



## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-18      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | 000                      | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 14:17</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 16:56 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:34 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-19      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-2                     | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 14:17</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 16:57 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:36 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-20      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-3                     | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 14:17</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 16:59 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:37 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-21      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-4                     | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       | Prep Method: <b>NA</b>             |           |        | Prep Date/Time: <b>08/26/2019 13:00</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 17:03 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       | Prep Method: <b>SW-846 9014</b>    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:39 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-22      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-5                     | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 13:00</b> |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        |   |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 17:04 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
|                      |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        |   |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 13:41 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |  |                       |                 |
|----------------------------|--------------------------|--|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. |  | <b>Work Order/ID:</b> | 19H1598-23      |
| <b>Client Project:</b>     | NPDES Excursion          |  | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-6                     |  | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |  |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 13:00</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 17:06 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 14:34 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-24      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-7                     | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       | Prep Method: <b>NA</b>             |           |        | Prep Date/Time: <b>08/26/2019 13:00</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 17:08 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       | Prep Method: <b>SW-846 9014</b>    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 14:36 |

## Analytical Results

Date: *Monday, August 26, 2019*

|                            |                          |                       |                 |
|----------------------------|--------------------------|-----------------------|-----------------|
| <b>Client:</b>             | Arcelor Mittal USA, Inc. | <b>Work Order/ID:</b> | 19H1598-25      |
| <b>Client Project:</b>     | NPDES Excursion          | <b>Sampled:</b>       | 08/25/2019 9:50 |
| <b>Client Sample ID:</b>   | SL-8                     | <b>Received:</b>      | 08/26/2019 9:50 |
| <b>Sample Description:</b> |                          |                       |                 |
| <b>Matrix:</b>             | Aqueous                  |                       |                 |

| Analyses             | Certs | AT                                 | Result    | RL     | Qual                                    | Units | DF | Analyzed         |
|----------------------|-------|------------------------------------|-----------|--------|---|-------|----|------------------|
|                      |       | Method: <b>SM 4500-CN C/E-1999</b> |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>NA</b>             |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Total Cyanide</b> |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 13:00</b> |       |    |                  |
| Cyanide, Total       | dij   | A                                  | <b>ND</b> | 0.0050 |   | mg/L  | 1  | 08/26/2019 17:09 |
|                      |       | Method: <b>SW-846 9014</b>         |           |        |   |       |    |                  |
|                      |       | Prep Method: <b>SW-846 9014</b>    |           |        |   |       |    |                  |
|                      |       |                                    |           |        | Analyst: <b>AJR</b>                     |       |    |                  |
| <b>Free Cyanide</b>  |       |                                    |           |        | Prep Date/Time: <b>08/26/2019 11:29</b> |       |    |                  |
| Free Cyanide         |       | A                                  | <b>ND</b> | 0.0062 |   | mg/L  | 1  | 08/26/2019 14:38 |



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**ANALYTE TYPES: (AT)**

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

**Partial**  
**8/26/2019**

---

**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 &amp; Env. NELAP (#E-10397)

j Kentucky Wastewater Laboratory Certification Program (#108202)

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**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)****RL:** Reporting Limit**RPD:** Relative Percent Difference

**Cooler Receipt Log**

Cooler ID: Default Cooler

**Partial**  
**8/26/2019****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 |

**Microbac Laboratories, Inc.**250 West 84<sup>th</sup> Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | [www.microbac.com](http://www.microbac.com)

CHAIN OF CUSTODY RECORD



Number **152255**  
Instructions on back

Lab Report Address

Client Name: **AMBH**

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

Routine (5 to 7 business days)  
 RUSH\* (notify lab)

(needed by)

Report Type

Results Only  Level 1  Level 2  Level 3  Level 4  EDD  
 Mail  Fax  e-mail (address)

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

Project: **Receiving Water Monitoring**

Sampled by (PRINT): **Patrick Solomon**

Sampler Signature: *Patrick Solomon*

Sampler Phone No.: **219-644-7585**

\* 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

| Client Sample ID       | Date Collected | Time Collected | No. of Containers | Matrix | Grab / Comp | Preservative Types ** | NH4 | Cn (Total) | Cn (Free) | Temp (Field) | pH (Field) | D.O. (Field) | Additional Notes |
|------------------------|----------------|----------------|-------------------|--------|-------------|-----------------------|-----|------------|-----------|--------------|------------|--------------|------------------|
| 15-Portage Marina east | 8/25/19        | 10:05          | 3                 | AQG    | U, 2, 4     |                       | X   | X          | X         | 23.7         | 7.32       | 5.9          | 19H1598          |
| 8-9                    |                | 10:09          |                   |        |             |                       |     |            |           | 23.4         | 7.28       | 5.9          | 61               |
| 10                     |                | 10:14          |                   |        |             |                       |     |            |           | 23.6         | 7.32       | 5.5          | 02               |
| 11                     |                | 10:20          |                   |        |             |                       |     |            |           | 23.7         | 7.35       | 6.0          | 03               |
| 12                     |                | 10:25          |                   |        |             |                       |     |            |           | 23.5         | 7.44       | 5.9          | 04               |
| 5L-1                   |                | 10:30          |                   |        |             |                       |     |            |           | 23.8         | 7.47       | 6.0          | 05               |
| 13                     |                | 10:35          |                   |        |             |                       |     |            |           | 21.7         | 7.91       | 8.0          | 06               |
| 14                     |                | 10:40          |                   |        |             |                       |     |            |           | 22.6         | 7.73       | 6.9          | 07               |
| 7                      |                | 10:58          |                   |        |             |                       |     |            |           | 24.2         | 7.96       | 8.3          | 08               |
|                        |                | 11:05          |                   |        |             |                       |     |            |           | 23.4         | 7.51       | 5.7          | 09               |
|                        |                |                |                   |        |             |                       |     |            |           |              |            |              | 10               |

Possible Hazard Identification  Hazardous  Non-Hazardous  Radioactive

Sample Disposition  Dispose as appropriate  Return  Archive

Comments

When collected  
Time  
pH  
Temp  
D.O.

Relinquished By (signature) *Patrick Solomon*

Date/Time 8/25/19 12:58

Received By (signature) *[Signature]*

Date/Time 8/26/19 0800

Relinquished By (signature) *[Signature]*

Date/Time 8/26/19 0950

Received By (signature) *[Signature]*

Date/Time

Relinquished By (signature) *[Signature]*

Date/Time 8/26/19 0930

Received By (signature) *[Signature]*

Date/Time





Number **152358**  
Instructions on back

TO BE COMPLETED BY MICROBAC  
 Temperature Upon Receipt (°C) **7.1**  
 Therm ID **-03**  
 Holding Time **68**  
 Samples Received on Ice?  Yes  No  N/A  
 Custody Seals Intact?  Yes  No  N/A

Turnaround Time  
 Routine (5 to 7 business days)  
 RUSH\* (notify lab)

Invoice Address  
 Client Name: **AMBH**  
 Address:  
 City, State, Zip:  
 Contact:  
 Telephone No.:

Lab Report Address  
 Client Name: **AMBH**  
 Address:  
 City, State, Zip:  
 Contact:  
 Telephone No.:

Send Report via:  Mail  Fax  e-mail (address)  
 Compliance Monitoring?  Yes  No  
 Agency/Program

Project: **Receiving Water Monitoring** Location:  
 Sampled by (PRINT): **Patrick Coleman** Sampler Signature: *Patrick Coleman* Sampler Phone No.: **219-644-7585**

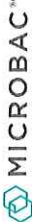
\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)  
 \*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane,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

| Lab ID | Client Sample ID | Date Collected | Time Collected | No. of Containers | Matrix | Grab / Comp | Preservative Types ** | Temp (Free) | Temp (Total) | pH (Field) | D.O. (Field) | (Field) | Additional Notes |
|--------|------------------|----------------|----------------|-------------------|--------|-------------|-----------------------|-------------|--------------|------------|--------------|---------|------------------|
|        | 6                | 8/25/19        | 11:09          | 3                 | AQ     | G           | U, 2, 4               |             | 22.4         | 7.78       | 6.4          |         | 1941598          |
|        | 5                |                | 11:16          | 1                 |        |             |                       |             | 22.6         | 7.73       | 6.3          |         | -11              |
|        | 4                |                | 11:23          | 1                 |        |             |                       |             | 22.8         | 7.72       | 6.6          |         | -12              |
|        | 3                |                | 11:27          | 1                 |        |             |                       |             | 22.4         | 7.76       | 6.6          |         | -13              |
|        | 2                |                | 11:31          | 1                 |        |             |                       |             | 22.7         | 7.76       | 6.4          |         | -14              |
|        | 1                |                | 11:38          | 1                 |        |             |                       |             | 23.3         | 7.73       | 7.1          |         | -15              |
|        | OF 001           |                | 11:48          | 1                 |        |             |                       |             | 24.4         | 7.79       | 6.4          |         | -14              |
|        |                  |                |                |                   |        |             |                       |             |              |            |              |         | -17              |

Possible Hazard Identification  Hazardous  Non-Hazardous  Radioactive  
 Sample Disposition  Dispose as appropriate  Return  Archive  
 Comments: **When collected**  
**Time**  
**pH**  
**Temp**  
**D.O.**

Relinquished By (signature) *Patrick Coleman* Date/Time **8/25/19 12:50**  
 Relinquished By (signature) *M. O'Dea* Date/Time **8/26/19 0950**  
 Relinquished By (signature) *David* Date/Time **8/26/19 0950**

CHAIN OF CUSTODY RECORD



Number **152257**  
Instructions on back

Turnaround Time

Routine (5 to 7 business days)  
 RUSH\* (notify lab)

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

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

Results Only  Level 1  Level 2  Level 3  Level 4  EDD

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

Compliance Monitoring?  Yes  No  
 Agency/Program

PO No.:

Project: Receiving Water Monitoring Location:

Sampler Signature: [Signature]  
Sampler Phone No.: 219-644-7585

Sampled by (PRINT): Patrick Gurman

\* 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

| Lab ID | Client Sample ID | Date Collected | Time Collected | No. of Containers | Matrix | Grab / Comp | Preservative Types ** | Xn (Total) | Xn (Free) | Temp (Field) | pH (Field) | D.O. (Field) | Additional Notes |
|--------|------------------|----------------|----------------|-------------------|--------|-------------|-----------------------|------------|-----------|--------------|------------|--------------|------------------|
|        | 000              | 8/25/19        | 13:38          | 3                 | AQ     | G           | U, 2.4                | X          | X         | 21.3         | 7.77       | 6.7          | 19H1598          |
|        | SL-2             |                | 14:26          |                   |        |             |                       |            |           | 23.2         | 8.04       | 8.2          | -19              |
|        | SL-3             |                | 14:35          |                   |        |             |                       |            |           | 23.4         | 8.11       | 7.7          | -19              |
|        | SL-4             |                | 14:44          |                   |        |             |                       |            |           | 23.7         | 8.04       | 8.0          | -20              |
|        | SL-5             |                | 14:52          |                   |        |             |                       |            |           | 23.9         | 7.92       | 7.6          | -21              |
|        | SL-6             |                | 15:30          |                   |        |             |                       |            |           | 24.2         | 7.99       | 6.7          | -22              |
|        | SL-7             |                | 15:38          |                   |        |             |                       |            |           | 23.8         | 8.02       | 6.8          | -23              |
|        | SL-8             |                | 16:08          |                   |        |             |                       |            |           | 23.8         | 8.00       | 7.1          | -24              |
|        |                  |                |                |                   |        |             |                       |            |           |              |            |              | -25              |

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

Comments: When collected Time pH Temp D.O.

Relinquished By (signature) [Signature] Date/Time 8/25/19 16:49  
 Relinquished By (signature) [Signature] Date/Time 8/26/19 0:50  
 Relinquished By (signature) [Signature] Date/Time 8/25/19 0:50

Received By (signature) [Signature] Date/Time 8/26/19 0800  
 Received By (signature) [Signature] Date/Time 8/25/19 0950