Ms. Angela M. Cooney, Contracting Officer  
U. S. Department of Energy  
250 East 5th St., Suite 500  
Cincinnati, OH 45202  


Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative’s approval to inform you that the SPDES DMR for the reporting period March 1 through March 31, 2019 has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

If you have any questions, please contact William Kean at extension 4865 or Janice Williams at extension 2913.

Sincerely,

Scott A. Anderson  
President & General Manager

Attachments:  
A) SPDES DMR for March 1 – March 31, 2019  
B) Email Confirmation from NYSDEC

cc: T. Taggart, DOE-EMC CBC  
B. C. Bower, DOE-WVDP  
C. Chun, CHBWV  
L. K. Hollfelder, CHBWV  
W. N. Kean, CHBWV  
L. J. Ortega, CHBWV  
J. T. Pillittere, CHBWV (Public Reading Room)  
D. H. Pritchard, CHBWV  
J. D. Rendall, CHBWV  
J. E. Wangelin, CHBWV  
J. D. Williams, CHBWV  
Letter Log (B. Jeffery), CHBWV  
CHBWV OITS #1830368
Attachment A
SPDES DMR
ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - MARCH 1 THROUGH MARCH 31, 2019
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001

\[ M_1 = \frac{(X_1 + X_2) V_1}{2} = 0 \text{ mg/month} \]

\[ X_1 = 0.00 \text{ mg/L} \]

\[ X_2 = 0.00 \text{ mg/L} \]

\[ V_1 = 0.00 \text{ L/month} \]

Note: There was no discharge from outfall 001 during this monitoring period.

OUTFALL 007

\[ M_7 = \frac{(X_1 + X_2) V_7}{2} = 0.00 \text{ mg/month} \]

\[ X_1 = 0.00 \text{ mg/L} \]

\[ X_2 = 0.00 \text{ mg/L} \]

\[ V_7 = 0.00 \text{ L/month} \]

Note: There was no discharge from outfall 007 during this monitoring period.

RAW WATER

\[ MRW = \frac{(X_1 + X_2 + X_3 + X_4) VRW}{4} = 0.00 \text{ mg/month} \]

\[ X_1 = 0.00 \text{ mg/L} \]

\[ X_2 = 0.00 \text{ mg/L} \]

\[ X_3 = 0.00 \text{ mg/L} \]

\[ X_4 = 0.00 \text{ mg/L} \]

\[ VRW = 0.00 \text{ L/month} \]

Note: Raw water from the reservoir system is no longer used for process water since
the site installed two groundwater wells. This eliminated the need to collect raw
water samples on a weekly basis and altered the iron discharge concentration equation
as the mass of iron entering the system is no longer necessary.

IRON DISCHARGE CONCENTRATION

\[ \frac{M_1 + M_7 - MRW}{V_1 + V_7} = 0.00 \text{ mg/L} \]
Permit:
- Permit #: NY0000973
- Permittee: U.S. DEPT OF ENERGY
- Facility: WEST VALLEY DEMONSTRATION PROJ
- Permittee Address: 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
- Facility Location: 10822 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
- Permitted Feature: 001 External Outfall
- Discharge: 001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM

Report Dates & Status:
- Monitoring Period: From 03/01/19 to 03/31/19
- DMR Due Date: 04/28/19
- Status: NetDMR Validated

Considerations for Form Completion:
- Principal Executive Officer
  - First Name: Bryan C.
  - Title: Director, USDOE-WVDP
  - Telephone: 716-942-4368
  - Last Name: Bower

No Data Indicator (NODI):
- Form NODI: --

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<tr>
<th>Parameter</th>
<th>Name</th>
<th>Season #</th>
<th>Permit Req.</th>
<th>Value NODI</th>
<th>Monitoring Location</th>
<th>Quantity or Loading</th>
<th>Quality or Concentration</th>
<th># of Ex.</th>
<th>Frequency of Analysis</th>
<th>Sample Type</th>
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<tr>
<td>00154 Sulfate [as S]</td>
<td>1 - Effluent Gross</td>
<td>D - Sample</td>
<td>Permit Req.</td>
<td>Rem Mon MO AVG</td>
<td>Req Mon DAILY MX 19 - mg/L</td>
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<td>C - No Discharge</td>
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<td>00181 Oxygen demand, ultimate</td>
<td>1 - Effluent Gross</td>
<td>D - Sample</td>
<td>Permit Req.</td>
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<td>C - No Discharge</td>
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<td>00300 Oxygen, dissolved [O2]</td>
<td>1 - Effluent Gross</td>
<td>D - Sample</td>
<td>Permit Req.</td>
<td>Rem Mon MO AVG ≤</td>
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<td>Permit Req.</td>
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<td>30 DAILY MX 19 - mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>02/BA - Twice Per Batch</td>
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<td>00545 Solids, settleable</td>
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<td>Permit Req.</td>
<td>Rem Mon MO AVG ≤</td>
<td>3 DAILY MX 25 - mL/L</td>
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<td>Permit Req.</td>
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<td>Permit Req.</td>
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<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>24 - COMP24</td>
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<td>00978 Arsenic, total recoverable</td>
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<td>Permit Req.</td>
<td>Rem Mon MO AVG ≤</td>
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<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
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<td>00979 Cobalt, total recoverable</td>
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<td>D - Sample</td>
<td>Permit Req.</td>
<td>Rem Mon MO AVG ≤</td>
<td>0.005 DAILY MX 19 - mg/L</td>
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<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
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<tr>
<td>00981 Selenium, total recoverable</td>
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<td>D - Sample</td>
<td>Permit Req.</td>
<td>Rem Mon MO AVG ≤</td>
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<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
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<tr>
<td>Aluminum, total [as Al]</td>
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<td>&lt;=</td>
<td>2 MO AVG</td>
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<td>&lt;=</td>
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<td>&lt;=</td>
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<tr>
<td>Nitrogen, ammonia, total [as NH3]</td>
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<td>&lt;=</td>
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<td>MO AVG</td>
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<td>DAILY MX</td>
<td>03 - MGD</td>
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<td>Chlorine, total residual</td>
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<td>C - No Discharge</td>
<td>Req Mon</td>
<td>MO AVG</td>
<td>Req Mon</td>
<td>DAILY MX</td>
<td>19 - mg/L</td>
<td>01/BA - Once Per Batch</td>
<td>GR - GRAB</td>
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<tr>
<td>Solids, total dissolved</td>
<td>1</td>
<td>Permit Req.</td>
<td>C - No Discharge</td>
<td>Req Mon</td>
<td>MO AVG</td>
<td>Req Mon</td>
<td>DAILY MX</td>
<td>19 - mg/L</td>
<td>02/BA - Twice Per Batch</td>
<td>GR - GRAB</td>
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<tr>
<td>Mercury, total [as Hg]</td>
<td>1</td>
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<td>C - No Discharge</td>
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<td>Req Mon</td>
<td>DAILY MX</td>
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<td>Surfactants [linear alkylate sulfonate]</td>
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<td>MO AVG</td>
<td>19 - mg/L</td>
<td>01/BA - Once Per Batch</td>
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</tbody>
</table>

Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments

Attachments
No attachments.

Report Last Saved By
U.S. DEPT OF ENERGY
User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2019-03-28 13:09 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2019-04-02 09:11 (Time Zone: -04:00)
### DMR Copy of Record

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### Report Dates & Status

| Monitoring Period: | From 03/01/19 to 03/31/19 |
| DMR Due Date: | 04/28/19 |
| Status: | NetDMR Validated |

### Considerations for Form Completion

| Principal Executive Officer |
| First Name: | Bryan C. |
| Last Name: | Bower |
| Title: | Director, USDOE-WVDP |
| Telephone: | 716-942-4368 |

### No Data Indicator (NODI)

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<tr>
<th>Parameter Code</th>
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<th>Param. NODI</th>
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<th>Frequency of Analysis</th>
<th>Sample Type</th>
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<td>Permit Req</td>
<td>Reg Mon MO AVG &lt;= 10 DAILY MAX</td>
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<td>GR - GRAB</td>
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<td>19 - mg/L</td>
<td>02/30 - Twice Per Month</td>
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<td>00420</td>
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<td>1 - Effluent Gross</td>
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<td>Permit Req</td>
<td>Reg Mon MO AVG &lt;= 10 DAILY MAX</td>
<td>19 - mg/L</td>
<td>02/30 - Twice Per Month</td>
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<td>00500</td>
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<td>19 - mg/L</td>
<td>02/30 - Twice Per Month</td>
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<td>19 - mg/L</td>
<td>02/30 - Twice Per Month</td>
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<td>00615</td>
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<td>02/30 - Twice Per Month</td>
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<tr>
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<td>Reg Mon MO AVG &lt;= 10 DAILY MAX</td>
<td>19 - mg/L</td>
<td>02/30 - Twice Per Month</td>
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<tr>
<td>00700</td>
<td>Nitrogen, ammonia, total [as NH3]</td>
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<td>Reg Mon MO AVG &lt;= 10 DAILY MAX</td>
<td>19 - mg/L</td>
<td>02/30 - Twice Per Month</td>
<td>COMPP24</td>
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<tr>
<td>50050</td>
<td>Flow, in conduit or thru treatment plant</td>
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<td>02/30 - Twice Per Month</td>
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<td>Reg Mon MO AVG &lt;= 10 DAILY MAX</td>
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<td>Permit Req</td>
<td>Reg Mon MO AVG &lt;= 10 DAILY MAX</td>
<td>19 - mg/L</td>
<td>02/30 - Twice Per Month</td>
<td>GR - GRAB</td>
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### Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.
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<td><a href="mailto:william.kean@chbwv.com">william.kean@chbwv.com</a></td>
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<tr>
<td>Name:</td>
<td>William Kean</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:william.kean@chbwv.com">william.kean@chbwv.com</a></td>
</tr>
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<td>Date/Time:</td>
<td>2019-03-28 13:10 (Time Zone: -04:00)</td>
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<tr>
<th>Report Last Signed By</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td><a href="mailto:janice.williams@chbwv.com">janice.williams@chbwv.com</a></td>
</tr>
<tr>
<td>Name:</td>
<td>Janice Williams</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:janice.williams@chbwv.com">janice.williams@chbwv.com</a></td>
</tr>
<tr>
<td>Date/Time:</td>
<td>2019-04-02 09:11 (Time Zone: -04:00)</td>
</tr>
</tbody>
</table>
DMR Copy of Record

Permit

Permit #: NY0000973

Major: Yes

Permitted Feature: 01B Internal Outfall

Discharge: 01B-M MERCURY PRETREATMENT

Permittee: U.S. DEPT OF ENERGY

Facility: WEST VALLEY DEMONSTRATION PROJ

Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Report Dates & Status

Monitoring Period: From 03/01/19 to 03/31/19
DMR Due Date: 04/28/19
Status: NetDMR Validated

Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature: 01B Internal Outfall

Discharge: 01B-M MERCURY PRETREATMENT

Permittee: U.S. DEPT OF ENERGY

Facility: WEST VALLEY DEMONSTRATION PROJ

Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Considerations for Form Completion

Principal Executive Officer

First Name: Bryan C.
Last Name: Bower
Title: Director, USDOE-WVDP
Telephone: 716-942-4368

No Data Indicator (NODI)

Form NODI: --

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Monitoring Location</th>
<th>Season #</th>
<th>Param. NODI</th>
<th>Code</th>
<th>Name</th>
<th>Qualifier 1</th>
<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Units</th>
<th>Quality or Concentration</th>
<th># of Ex</th>
<th>Frequency of Analysis</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>00056 Flow rate</td>
<td>1 - Effluent Gross</td>
<td>0 - Sample</td>
<td>Permit Req.</td>
<td>0 - Permit Req.</td>
<td>Req Mon MO AVG</td>
<td>Req Mon DAILY MX 07 - paid</td>
<td>21/07 - Weekly</td>
<td>CN - CONTINUOUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>71900 Mercury, total [as Hg]</td>
<td>1 - Effluent Gross</td>
<td>0 - Sample</td>
<td>Permit Req.</td>
<td>0 - Permit Req.</td>
<td>Req Mon MO AVG</td>
<td>50 DAILY MX 3M - ng/L</td>
<td>02/BA - Twice Per Batch</td>
<td>GR - GRAB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2019-03-28 13:12 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2019-04-02 09:11 (Time Zone: -04:00)
DMR Copy of Record

Permit
Permit #: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Major: Yes
Permit Location: 10282 ROCK SPRINGS ROAD
Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGOTN, DC 20585
Facility: WEST VALLEY, NY 14171-9799
Permitted Feature: 116 Internal Outfall
Discharge: 116-M PSEUDO MON. POINT @FRANKS CRK

Report Dates & Status
Monitoring Period: From 03/01/19 to 03/31/19
DMR Due Date: 04/28/19
Status: NetDMR Validated

Considerations for Form Completion
If PSEUDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

Principal Executive Officer
First Name: Bryan
Last Name: Bower
Title: Director, USDOE-WVDP
Telephone: 716-942-4368

Form NODI:
No Data Indicator (NODI)

Parameter | Monitoring Location | Season # | Param. NODI | Quantity or Loading | Quality or Concentration | # of Ex. | Frequency of Analysis | Sample Type
---|---|---|---|---|---|---|---|---
70295SolidS, total dissolved | Z - Instream Monitoring | 0 | | | | | |

Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row. Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments

Attachments
No attachments.

Report Last Saved By
U.S. DEPT OF ENERGY
User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2019-03-28 13:14 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2019-04-02 09:11 (Time Zone: -04:00)
DMR Copy of Record

Permit
Permit #: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ

Permittee Address: 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Facility Location: 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Permitted Feature: SUM Internal Outfall
Discharge: SUM-N SUM OF OUTFALLS 1 & 7

Report Dates & Status
Monitoring Period: From 03/01/19 to 03/31/19
DMR Due Date: 04/28/19
Status: NetDMR Validated

Considerations for Form Completion
Principal Executive Officer
First Name: Bryan C. Title: Director, USDOE-WVDP Telephone: 716-942-4368
Last Name: Bower

No Data Indicator (NODI)
Form NODI: --

<table>
<thead>
<tr>
<th>Parameter Code</th>
<th>Parameter Name</th>
<th>Monitoring Location</th>
<th>Season #</th>
<th>Param. NODI</th>
<th>Quantity or Loading</th>
<th>Quality or Concentration</th>
<th># of Exc.</th>
<th>Frequency of Analysis</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>01045</td>
<td>Iron, total [as Fe]</td>
<td>Effluent Net</td>
<td>2</td>
<td>--</td>
<td>Sample</td>
<td>Req Mon MO AVG &lt;= 19 - mg/L</td>
<td>CA - CALC TD</td>
<td>01-30 - Monthly</td>
<td>CA - CALC TD</td>
</tr>
</tbody>
</table>

Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments

Attachments
No attachments.

Report Last Saved By
U.S. DEPT OF ENERGY
User: william.kean@chbwv.com
Name: William Kean
E-Mail: william.kean@chbwv.com
Date/Time: 2019-03-28 13:13 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2019-04-02 09:11 (Time Zone: -04:00)