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, 2018 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,

Jeffrey D. Bradford  
President & General Manager

JDB:WNK:bnj

Attachments:  
A) SPDES DMR for March 1 – March 31, 2018  
B) Email Confirmation from NYSDEC

cc: T. Taggart, DOE-EMCBC  
B. C. Bower, DOE-WVDP  
S. A. Anderson, CHBWV  
J. L. Casper, CHBWV  
N. Feher, 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. E. Wangelin, CHBWV  
J. D. Williams, CHBWV  
Letter Log (B. Jeffery), CHBWV  
CHBWV OITS #1730520
**DMR Copy of Record**

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

**Report Dates & Status**
- Monitoring Period: From 03/01/18 to 03/31/18
- DMR Due Date: 04/28/18
- 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)**
- Form NODI: --

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<th>Season</th>
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<th>Quality or Concentration</th>
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<th>Frequency of Analysis</th>
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<td>3M - ng/L</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.

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: 2018-04-16 08:12 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-04-17 08:04 (Time Zone: -04:00)
DMR Copy of Record

Permit
Permit #: NY0000973 Permittee: U.S. DEPT OF ENERGY Permit #:
NY0000973 Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Permittee Address: 1000 INDEPENDENCE AVE SW Facility Location: 10282 ROCK SPRINGS ROAD
WASHINGTON, DC 20585 WEST VALLEY, NY 14171-9799
Permitted Feature: 007 Discharge: 007-M
External Outfall SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

Report Dates & Status
Monitoring Period: From 03/01/18 to 03/31/18 DMR Due Date: 04/28/18 Status: NetDMR Validated

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

No Data Indicator (NODI)
Form NODI:

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<th>Parameter</th>
<th>Monitoring Location</th>
<th>Sample</th>
<th>Season #</th>
<th>Param. NODI</th>
<th>Quantity or Loading</th>
<th>Quality or Concentration</th>
<th># of Exc.</th>
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<th>Sample Type</th>
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<tr>
<td>00300</td>
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<td>Effluent Gross</td>
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<td>Reg Mon MO AVG &lt;= 10 DAILY MAX 19 - mg/L</td>
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<td>Monthly</td>
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<tr>
<td>50050</td>
<td>Flow, in conduit or thru treatment plant</td>
<td>Effluent Gross</td>
<td>Sample</td>
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<td>Reg Mon MO AVG &lt;= 1 DAILY MAX 19 - mg/L</td>
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<td>Monthly</td>
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<td>Monthly</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>User:</td>
<td><a href="mailto:william.kean@chbwv.com">william.kean@chbwv.com</a></td>
</tr>
<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>
<tr>
<td>Date/Time:</td>
<td>2018-04-16 08:12 (Time Zone: -04:00)</td>
</tr>
<tr>
<td>Report Last Signed By</td>
<td></td>
</tr>
<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>2018-04-17 08:04 (Time Zone: -04:00)</td>
</tr>
</tbody>
</table>
DMR Copy of Record

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

Report Dates & Status
Monitoring Period: From 03/01/18 to 03/31/18
DMR Due Date: 04/28/18
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

Form NODI:
00056 Flow rate 1 - Effluent Gross 0
Permit Req. Value NODI
C - No Discharge C - No Discharge
07 - gal/d 01/07 - Weekly CN - CONTIN

71900 Mercury, total [as Hg] 1 - Effluent Gross 0
Permit Req. Value NODI
C - No Discharge C - No Discharge
Req Mon MO AVG <4 50 DAILY MX 3M - ng/L 02/BA - Twice Per Batch GR - GRAB

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: 2018-04-16 08:12 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-04-17 08:04 (Time Zone: -04:00)
DMR Copy of Record

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

Report Dates & Status
Monitoring Period: From 03/01/18 to 03/31/18
DMR Due Date: 04/28/18
Status: NetDMR Validated

Considerations for Form Completion
IF PSUEDO 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 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>Qualifier 3</th>
<th>Value 3</th>
<th>Units</th>
<th>Frequency of Analysis</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>70295Solsd. total dissolved Z</td>
<td>Instream Monitoring</td>
<td>-</td>
<td></td>
<td></td>
<td>Solids, total dissolved</td>
<td>Z</td>
<td></td>
<td></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: 2018-04-16 08:12 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-04-17 08:04 (Time Zone: -04:00)
DMR Copy of Record

Permit

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

Major: Yes
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 03/01/18 to 03/31/18
DMR Due Date: 04/28/18
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: --

Parameter | Monitoring Location | Season # | Param. NODI | Quantity or Loading | Quality or Concentration | # of Ex. | Frequency of Analysis | Sample Type
--- | --- | --- | --- | --- | --- | --- | --- | ---
iron, total [as Fe] | Effluent Net | 2 | -- | Sample | Permit Req | 1 | Daily | MX | 19 - mg/L
Value NODI | C - No Discharge | C - No Discharge

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

Name | Type | Size
--- | --- | ---
WVDP_March_2018_Net_Iron_Calc.pdf | pdf | 28041

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: 2018-04-16 08:12 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-04-17 08:04 (Time Zone: -04:00)
ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - MARCH 1 THROUGH MARCH 31, 2018
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001

\[ M1 = \frac{(X1 + X2)}{2} \]

\[ X1 = 0.00 \text{ mg/L} \]

\[ X2 = 0.00 \text{ mg/L} \]

\[ V1 = 0.00 \text{ L/month} \]

\[ M1 = 0 \text{ mg/month} \]

OUTFALL 007

\[ M7 = \frac{(X1 + X2)}{2} \]

\[ X1 = 0.00 \text{ mg/L} \]

\[ X2 = 0.00 \text{ mg/L} \]

\[ V7 = 0.00 \text{ L/month} \]

\[ M7 = 0.00 \text{ mg/month} \]

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

RAW WATER

\[ MRW = \frac{(X1 + X2 + X3 + X4)}{4} \]

\[ X1 = 0.00 \text{ mg/L} \]

\[ X2 = 0.00 \text{ mg/L} \]

\[ X3 = 0.00 \text{ mg/L} \]

\[ X4 = 0.00 \text{ mg/L} \]

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

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.

\[ \text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = 0.00 \text{ mg/L} \]