

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Jennifer Splitt, Contracting Officer
U.S. Department of Energy
550 Main St., Room 7-010
Cincinnati, OH 45202

AC-PRES
WD:2024:0039
January 18, 2024

ATTENTION: Jennifer Dundas

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2023, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2023 through December 31, 2023

REFERENCES: 1) Letter WR:2011:0061, John D. Rendall to C. S. Haugh, "State Pollutant Discharge Elimination System (SPDES) Schedule of Compliance Action for the Water Treatment Chemicals, SPDES Permit No. NY-0000793, West Valley Demonstration Project (WVDP)," dated December 20, 2011

2) Letter WR:2013:0033, John Rendall to Mark Jackson, "Notification of Changes to the West Valley Demonstration Project (WVDP) Wastewater Generation Activities in Accordance with 6 NYCRR 750-2.6(c); State Pollutant Discharge Elimination System (SPDES) Permit No. NY-0000973, U.S. Department of Energy (DOE), West Valley Demonstration Project (WVDP)," dated August 13, 2013

Dear Ms. Splitt:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period December 1 through December 31, 2023, including the Net Iron calculation sheet, 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).

Also attached are the results of the storm water monitoring for the period of July 1, 2023, through December 31, 2023, Report, and the Annual Review Certification of the Storm Water Pollution Prevention Plan/Best Management Practices (SWPPP/BMP).

If you have any questions, please contact William Kean at (716) 942-4865 or Elizabeth Lowes at (716) 481-0429.

Sincerely,

Approval obtained electronically

Jason L. Casper
President and General Manager

JLC:WNK:MLV

- Attachments:
- A) SPDES DMR for December 1 through December 31, 2023 Monitoring Period
 - B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2023 Monitoring Period
 - C) CHBWV Environmental Certification
 - D) WVDP SPDES Permit “Special Conditions – Industry Best Management Practices,” Permittee Certification of the Annual Review
 - E) Email Confirmation from NYSDEC

cc:

- B. C. Bower, DOE-WVDP
- J. T. DesMarais, DOE-WVDP
- W. T. Frederick, DOE-WVDP
- S. A. Sherry, CHBWV
- C. Chun, CHBWV
- L. K. Hollfelder, CHBWV
- W. N. Kean, CHBWV
- E. A. Lowes, CHBWV
- J. K. Mantione, CHBWV
- D. M. Martinet, CHBWV
- J. T. Pillittere, CHBWV (Public Reading Room)
- R. E. Steiner, CHBWV
- K. A. Wooley, CHBWV
- Letter Log (M. Varner), CHBWV
- CHBWV OITS #2230374

Attachment A

SPDES DMR for December 1 – 31, 2023

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2023, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2023 through December 31, 2023

The SPDES DMR for December 1 through December 31, 2023 Monitoring Period is provided as Attachment A. There were no discharges at outfalls 001-M, 001-S, 001-V, 001-W, 007-M, 116-M, Sum-N or internal outfall 01B-M during the monitoring period of December 1, 2023, through December 31, 2023. Please also note that there were no discharges at outfall 007-V or 007-W during the 2023 calendar year as denoted on the specific Discharge Monitoring Reports (DMRs). Finally, we are also resubmitting the DMR for outfall 001-S Semi-Annual for the reporting period of January 1, 2023 through June 30, 2023. The Chromium, Total Recoverable result of 87.0 mg/L for the monthly average was reported incorrectly. The corrected result is 0.00087 mg/L.

CHBWV is also submitting the analytical results and data for the semi-annual storm water monitoring period of July 1, 2023, through December 31, 2023 as Attachment B. All storm water sampling results were within applicable limits specified on page 14 of 31 of the SPDES permit for oil & grease.

Storm water samples were collected on August 15, August 23, October 30, and November 17, 2023. The on-site pH measured near the site's rain gauge on each of these dates was: 6.0 SU; 6.3 SU; 7.5 SU; and 7.5 SU, respectively.

Storm water sampling at outfalls S12, S14, S33, and S37 was completed on October 30, 2023, although the duration between storm events was less than the normally required 72 hours. S12 was above base flow conditions and outfalls S14, S33, and S35 had storm flow prior to the start of sampling.

In addition, outfall S43 was sampled for semi-annual lead that was completed on November 17, 2023 at the Live Fire Range. The reported result for lead of 0.0056 mg/L (first flush) was below the action level of 0.006 mg/L.

Please note that, in accordance with the Schedule of Compliance sampling requirements contained on page 23 of 31 of the SPDES permit for Paraquat Dichloride Herbicide (Gramoxone Extra), the site used herbicides on September 6 and September 11, 2023, and therefore storm water outfalls that would be affected were sampled for Paraquat Dichloride on October 8, 2023 and October 11, 2023, during the second semi-annual monitoring period.

OUTFALL	DATE	PARAMETER	RESULT	UNITS
S04	10/08/23	Paraquat Dichloride	< 0.00032	mg/L
S06	10/08/23	Paraquat Dichloride	0.0014	mg/L
S33	10/08/23	Paraquat Dichloride	< 0.00041	mg/L
S09	10/08/23	Paraquat Dichloride	< 0.00032	mg/L
S12	10/11/23	Paraquat Dichloride	<0.00032	mg/L
S34	10/08/23	Paraquat Dichloride	<0.00047	mg/L
S17	10/08/23	Paraquat Dichloride	<0.00032	mg/L
S28	10/08/23	Paraquat Dichloride	<0.00032	mg/L
S36	10/08/23	Paraquat Dichloride	<0.00032	mg/L
S20	10/08/23	Paraquat Dichloride	<0.00032	mg/L
S27	10/08/23	Paraquat Dichloride	<0.00032	mg/L
S35	10/08/23	Paraquat Dichloride	<0.00032	mg/L
Lagoon 3	10/08/23	Paraquat Dichloride	<0.00032	mg/L

As required on page 30 of 31 under General Requirements, J.3. Water Treatment Chemicals (WTCs), the WVDP has not used any water treatment chemicals during 2023 and therefore we have not included a WTC Annual Report Form for 2023.

In accordance with the Special Conditions – Industry Best Management Practices (2) Compliance Deadlines, the WVDP has completed the annual review of the BMP which is included as part of the site document “Clean Water Act/State Pollutant Discharge Elimination System Best Management Practices and Storm Water Pollution Prevention Plan for the West Valley Demonstration Project” (WVDP-206). As part of the annual review process, it was determined that a revision was not required at this time.

SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2023
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$V1 = 0.000 \text{ L/month}$$

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

$$\text{OUTFALL 007} = M7 = \frac{(X1 + X2) V7}{2} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$V7 = 0.00 \text{ L/month}$$

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

$$\text{RAW WATER} = MRW = \frac{(X1 + X2 + X3 + X4) VRW}{4} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$X3 = 0.000 \text{ mg/L}$$

$$X4 = 0.000 \text{ mg/L}$$

$$VRW = 0.00 \text{ L/month}$$

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

DMR Copy of Record

Permit			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	001 External Outfall	Discharge:	001-A OUTFALL 001 ANNUAL
Facility:		Facility Location:	WEST VALLEY DEMONSTRATION PROJ 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Report Dates & Status			
Monitoring Period:	From 01/01/23 to 12/31/23	DMR Due Date:	01/28/24
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: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading			Quality or Concentration			# of Ex.	Frequency of Analysis	Sample Type			
						Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units		
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample					<	0.00007	<	0.00007	19 - mg/L	0	01/YR - Annual	24 - COMP24
					Permit Req.					<=	0.002 DAILY MX	19 - mg/L					
					Value NODI												
34488	Trichlorofluoromethane	1 - Effluent Gross	0	--	Sample					<	0.0005	<	0.0005	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.01 DAILY MX	19 - mg/L					
					Value NODI												
34631	3,3'-Dichlorobenzidine	1 - Effluent Gross	0	--	Sample					<	0.0004	<	0.0004	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.005 MO AVG	<=	0.01 DAILY MX	19 - mg/L			
					Value NODI												
34668	Dichlorodifluoromethane	1 - Effluent Gross	0	--	Sample					<	0.0003	<	0.0003	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.01 DAILY MX	19 - mg/L					
					Value NODI												
39337	.alpha.-BHC	1 - Effluent Gross	0	--	Sample					<	0.007	<	0.007	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.01 MO AVG	Req Mon DAILY MX	28 - ug/L				
					Value NODI												
39700	Hexachlorobenzene	1 - Effluent Gross	0	--	Sample					<	0.05	<	0.05	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.2 MO AVG	Req Mon DAILY MX	28 - ug/L				
					Value NODI												
77819	Tri-n-butyl phosphate	1 - Effluent Gross	0	--	Sample					<	0.0006	<	0.0006	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.1 DAILY MX	19 - mg/L					
					Value NODI												
78247	Chromium, hexavalent tot recoverable	1 - Effluent Gross	0	--	Sample					<	0.005	<	0.005	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.011 DAILY MX	19 - mg/L					
					Value NODI												
78356	2-Butanone	1 - Effluent Gross	0	--	Sample					<	0.002	<	0.002	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.5 DAILY MX	19 - mg/L					
					Value NODI												
81551	Xylene [mix of m+o+p]	1 - Effluent Gross	0	--	Sample					<	0.001	<	0.001	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.					<=	0.05 DAILY MX	19 - mg/L					
					Value NODI												

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
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWW Environmental Services is 0.02 mg/L.

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: 2024-01-17 08:21 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM
Name: Elizabeth Lowes
E-Mail: elizabeth.lowes@chbwv.com
Date/Time: 2024-01-17 16:09 (Time Zone: -05:00)

DMR Copy of Record

Permit			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	001 External Outfall	Discharge:	001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM
Facility:	WEST VALLEY DEMONSTRATION PROJ		
Facility Location:	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799		

Report Dates & Status			
Monitoring Period:	From 12/01/23 to 12/31/23	DMR Due Date:	01/28/24
Status:	NetDMR Validated		

Considerations for Form Completion

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

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units	
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample													19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD	
					Permit Req.						Req Mon MO AVG	<=	22.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.						>=	3.0 MINIMUM		Req Mon MAXIMUM						
					Value NODI						C - No Discharge		C - No Discharge							
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	10.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00400	pH	1 - Effluent Gross	0	--	Sample												12 - SU	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.						>=	6.5 MINIMUM		<=	8.5 MAXIMUM					
					Value NODI						C - No Discharge		C - No Discharge							
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						<=	30.0 MO AVG	<=	45.0 DAILY MX						
					Value NODI						C - No Discharge		C - No Discharge							
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample												25 - mL/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.						Req Mon MO AVG	<=	0.3 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.						Req Mon MO AVG	<=	15.0 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.1 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample												19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG		Req Mon DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.4 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample												19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.						Req Mon MO AVG	<=	0.15 DAILY MX							
					Value NODI						C - No Discharge		C - No Discharge							

00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample													Req Mon MO AVG <=	0.005 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB					
					Permit Req.																C - No Discharge	C - No Discharge					
					Value NODI																						
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample															Req Mon MO AVG <=	0.004 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB			
					Permit Req.																	C - No Discharge	C - No Discharge				
					Value NODI																						
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24			
					Permit Req.																	C - No Discharge	C - No Discharge				
					Value NODI																						
01105	Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample															<=	2.0 MO AVG	<=	4.0 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.																		C - No Discharge	C - No Discharge			
					Value NODI																						
01128	Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample															Req Mon MO AVG <=	0.014 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB			
					Permit Req.																		C - No Discharge	C - No Discharge			
					Value NODI																						
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample															<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.																		C - No Discharge	C - No Discharge			
					Value NODI																						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																			02/BA - Twice Per Batch	CN - CONTIN		
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD																	
					Value NODI		C - No Discharge		C - No Discharge																		
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample																Req Mon MO AVG <=	0.1 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB		
					Permit Req.																			C - No Discharge	C - No Discharge		
					Value NODI																						
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample																Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/BA - Twice Per Batch	GR - GRAB		
					Permit Req.																			C - No Discharge	C - No Discharge		
					Value NODI																						
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample															<=	50.0 MO AVG	Req Mon DAILY MX	3M - ng/L	01/BA - Once Per Batch	GR - GRAB		
					Permit Req.																			C - No Discharge	C - No Discharge		
					Value NODI																						
81646	Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample																Req Mon MO AVG <=	0.04 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB		
					Permit Req.																			C - No Discharge	C - No Discharge		
					Value NODI																						

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

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

Attachments

Name	Type	Size
WVDP_December_2023_Synopsis.pdf	pdf	1741999.0
2023_December_2023_Storm_Water_Data.pdf	pdf	8461153.0
WVDP_Permittee_Certificate_2023_Annual_Review.pdf	pdf	277464.0

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: 2024-01-17 09:41 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM
 Name: Elizabeth Lowes
 E-Mail: elizabeth.lowes@chbwv.com
 Date/Time: 2024-01-17 16:09 (Time Zone: -05:00)

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:	001 External Outfall	Discharge:	001-S OUTFALL 001 SEMI-ANNUAL		

Report Dates & Status					
Monitoring Period:	From 01/01/23 to 06/30/23	DMR Due Date:	07/28/23	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: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading				Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type						
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2				Value 2	Qualifier 3	Value 3	Units		
00722	Cyanide, free [amenable to chlorination]	1 - Effluent Gross	0	--	Sample												02/YR - Twice Per Year	GR - GRAB				
					Permit Req.															02/YR - Twice Per Year	GR - GRAB	
					Value NODI																	
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24			
					Permit Req.																02/YR - Twice Per Year	24 - COMP24
					Value NODI																	
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24			
					Permit Req.																02/YR - Twice Per Year	24 - COMP24
					Value NODI																	
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24			
					Permit Req.																02/YR - Twice Per Year	24 - COMP24
					Value NODI																	
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24			
					Permit Req.																02/YR - Twice Per Year	24 - COMP24
					Value NODI																	
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24			
					Permit Req.																02/YR - Twice Per Year	24 - COMP24
					Value NODI																	
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24			
					Permit Req.																02/YR - Twice Per Year	24 - COMP24
					Value NODI																	
39410	Heptachlor	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	GR - GRAB			
					Permit Req.																02/YR - Twice Per Year	GR - GRAB
					Value NODI																	

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
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

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: 2024-01-17 08:43 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM
Name: Elizabeth Lowes
E-Mail: elizabeth.lowes@chbwv.com
Date/Time: 2024-01-17 16:09 (Time Zone: -05:00)

DMR Copy of Record

Permit			
Permit #:	NY0000973	Permittee:	U.S. DEPT OF ENERGY
Major:	Yes	Permittee Address:	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
Permitted Feature:	001 External Outfall	Discharge:	001-S OUTFALL 001 SEMI-ANNUAL
Facility:		Facility Location:	WEST VALLEY DEMONSTRATION PROJ 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Report Dates & Status			
Monitoring Period:	From 07/01/23 to 12/31/23	DMR Due Date:	01/28/24
Status:	NetDMR Validated		
Considerations for Form Completion			

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

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req.	Quantity or Loading				Quality or Concentration				# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2			
00722	Cyanide, free [amenable to chlorination]	1 - Effluent Gross	0	--	Sample Permit Req.						Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L	02/YR - Twice Per Year	GR - GRAB
					Value NODI						C - No Discharge		C - No Discharge			
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample Permit Req.						Req Mon MO AVG	<=	2.0 DAILY MX	19 - mg/L	02/YR - Twice Per Year	24 - COMP24
					Value NODI						C - No Discharge		C - No Discharge			
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample Permit Req.						Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L	02/YR - Twice Per Year	24 - COMP24
					Value NODI						C - No Discharge		C - No Discharge			
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req.						Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L	02/YR - Twice Per Year	24 - COMP24
					Value NODI						C - No Discharge		C - No Discharge			
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req.						Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L	02/YR - Twice Per Year	24 - COMP24
					Value NODI						C - No Discharge		C - No Discharge			
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req.						Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L	02/YR - Twice Per Year	24 - COMP24
					Value NODI						C - No Discharge		C - No Discharge			
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req.						Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L	02/YR - Twice Per Year	24 - COMP24
					Value NODI						C - No Discharge		C - No Discharge			
39410	Heptachlor	1 - Effluent Gross	0	--	Sample Permit Req.					<=	0.01 MO AVG		Req Mon DAILY MX	28 - ug/L	02/YR - Twice Per Year	GR - GRAB
					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
As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

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: 2024-01-17 08:21 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM
Name: Elizabeth Lowes
E-Mail: elizabeth.lowes@chbwv.com
Date/Time: 2024-01-17 16:09 (Time Zone: -05:00)

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:	001 External Outfall	Discharge:	001-U OUTFALL 001 ACTION LEVELS ANNUAL		

Report Dates & Status

Monitoring Period:	From 01/01/23 to 12/31/23	DMR Due Date:	01/28/24	Status:	NetDMR Validated
---------------------------	---------------------------	----------------------	----------	----------------	------------------

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

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

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type				
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3				Value 3	Units		
01007	Barium, total [as Ba]	V - See Comments	0	--	Sample									=	0.03	19 - mg/L	0	01/YR - Annual	24 - COMP24			
					Permit Req.													<=	0.5 DAILY MX	19 - mg/L	01/YR - Annual	24 - COMP24
					Value NODI																	
01097	Antimony, total [as Sb]	V - See Comments	0	--	Sample									<	0.0068	19 - mg/L	0	01/YR - Annual	24 - COMP24			
					Permit Req.													<=	1.0 DAILY MX	19 - mg/L	01/YR - Annual	24 - COMP24
					Value NODI																	
32106	Chloroform	V - See Comments	0	--	Sample									<	0.0005	19 - mg/L	0	01/YR - Annual	GR - GRAB			
					Permit Req.													<=	0.3 DAILY MX	19 - mg/L	01/YR - Annual	GR - GRAB
					Value NODI																	

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

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) Eurofins: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

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:	2024-01-17 08:22 (Time Zone: -05:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2024-01-17 16:09 (Time Zone: -05:00)

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:	001 External Outfall			Discharge:	001-V OUTFALL 001 ACTION LEVELS SEMI-ANNUAL														
Report Dates & Status																			
Monitoring Period:	From 07/01/23 to 12/31/23			DMR Due Date:	01/28/24				Status:	NetDMR Validated									
Considerations for Form Completion																			
SEE PERMIT FOR REPORTING REQUIREMENTS																			
Principal Executive Officer																			
First Name:	Bryan			Title:	Director, USDOE-WVDP				Telephone:	716-942-4368									
Last Name:	Bower																		
No Data Indicator (NODI)																			
Form NODI:	--																		
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01022	Boron, total [as B]	V - See Comments	0	--										<=	2.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Sample Permit Req.										C - No Discharge				
					Value NODI														
01152	Titanium, total [as Ti]	V - See Comments	0	--										<=	0.65 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Sample Permit Req.										C - No Discharge				
					Value NODI														
71870	Bromide [as Br]	V - See Comments	0	--										<=	5.0 DAILY MX	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Sample Permit Req.										C - No Discharge				
					Value NODI														
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:	2024-01-17 08:22 (Time Zone: -05:00)																		
Report Last Signed By																			
User:	ELIZABETH.LOWES@CHBWV.COM																		
Name:	Elizabeth Lowes																		
E-Mail:	elizabeth.lowes@chbwv.com																		
Date/Time:	2024-01-17 16:09 (Time Zone: -05:00)																		

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:	001 External Outfall	Discharge:	001-W OUTFALL 001 WET TESTING QUARTERLY															

Report Dates & Status																		
Monitoring Period:	From 10/01/23 to 12/31/23					DMR Due Date:	02/28/24					Status:	NetDMR Validated					

Considerations for Form Completion
SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

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

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req.	Sample Value NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
							Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--											<=	0.3 MAXIMUM	2F - tox acute	01/90 - Quarterly	24 - COMP24
																C - No Discharge			
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--											<=	1.0 MAXIMUM	2G - tox chronic	01/90 - Quarterly	24 - COMP24
																C - No Discharge			
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--											<=	0.3 MAXIMUM	2F - tox acute	01/90 - Quarterly	24 - COMP24
																C - No Discharge			
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--											<=	1.0 MAXIMUM	2G - tox chronic	01/90 - Quarterly	24 - COMP24
																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
No attachments.

Report Last Saved By
U.S. DEPT OF ENERGY

User: william.kean@chbvv.com
Name: William Kean
E-Mail: william.kean@chbvv.com
Date/Time: 2024-01-17 08:22 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWW.COM
Name: Elizabeth Lowes
E-Mail: elizabeth.lowes@chbvv.com
Date/Time: 2024-01-17 16:09 (Time Zone: -05:00)

DMR Copy of Record

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

Report Dates & Status			
Monitoring Period:	From 12/01/23 to 12/31/23	DMR Due Date:	01/28/24
Status:	NetDMR Validated		

Considerations for Form Completion

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

No Data Indicator (NODI)
Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type					
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units				
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample																		
					Permit Req.								Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCTD					
					Value NODI												C - No Discharge	C - No Discharge					
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.								>=	3.0 MINIMUM		Req Mon MAXIMUM	19 - mg/L	02/30 - Twice Per Month	GR - GRAB				
					Value NODI												C - No Discharge	C - No Discharge					
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24			
					Value NODI												C - No Discharge	C - No Discharge					
00400	pH	1 - Effluent Gross	0	--	Sample																		
					Permit Req.										>=	6.5 MINIMUM		<=	8.5 MAXIMUM	12 - SU	02/30 - Twice Per Month	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample																		
					Permit Req.											<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L	02/30 - Twice Per Month	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Value NODI												C - No Discharge	C - No Discharge					
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Value NODI												C - No Discharge	C - No Discharge					
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG		Req Mon DAILY MX	03 - MGD	01/30 - Monthly	CN - CONTIN	
					Value NODI												C - No Discharge	C - No Discharge					
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample																		
					Permit Req.												Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L	01/30 - Monthly	GR - GRAB	
					Value NODI												C - No Discharge	C - No Discharge					

70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample											Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - GRAB
					Permit Req.											C - No Discharge	C - No Discharge			
					Value NODI															
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample											Req Mon MO AVG	<= 50.0 DAILY MX	3M - ng/L	01/30 - Monthly	GR - GRAB
					Permit Req.											C - No Discharge	C - No Discharge			
					Value NODI															

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: 2024-01-17 08:22 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM
Name: Elizabeth Lowes
E-Mail: elizabeth.lowes@chbwv.com
Date/Time: 2024-01-17 16:09 (Time Zone: -05:00)

DMR Copy of Record

Parameter		Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
32106	Chloroform	1 - Effluent Gross	0	--													
					Sample Permit Req.												
					Value NODI												

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:	007 External Outfall	Discharge:	007-V OUTFALL 007 ANNUAL MONITORING		

Report Dates & Status

Monitoring Period:	From 01/01/23 to 12/31/23	DMR Due Date:	01/28/24	Status:	NetDMR Validated
---------------------------	----------------------------------	----------------------	-----------------	----------------	-------------------------

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan	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
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
32106	Chloroform	1 - Effluent Gross	0	--													
					Sample Permit Req.												
					Value NODI												

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@chbww.com
Name:	William Kean
E-Mail:	william.kean@chbww.com
Date/Time:	2024-01-17 08:22 (Time Zone: -05:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbww.com
Date/Time:	2024-01-17 16:09 (Time Zone: -05:00)

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:	007 External Outfall				Discharge:	007-W OUTFALL 007 WET TESTING QUARTERLY												
Report Dates & Status																		
Monitoring Period:	From 10/01/23 to 12/31/23				DMR Due Date:	02/28/24					Status:	NetDMR Validated						
Considerations for Form Completion																		
SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS																		
Principal Executive Officer																		
First Name:	Bryan				Title:	Director, USDOE-WVDP					Telephone:	716-942-4368						
Last Name:	Bower																	
No Data Indicator (NODI)																		
Form NODI:	--																	
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req.	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample Permit Req.						<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24		
					Value NODI							C - No Discharge						
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample Permit Req.						<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24		
					Value NODI							C - No Discharge						
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample Permit Req.						<=	0.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24		
					Value NODI							C - No Discharge						
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample Permit Req.						<=	1.0 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24		
					Value NODI							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																		
No attachments.																		
Report Last Saved By																		
U.S. DEPT OF ENERGY																		
User:	william.kean@chbvw.com																	
Name:	William Kean																	
E-Mail:	william.kean@chbvw.com																	
Date/Time:	2024-01-17 08:22 (Time Zone: -05:00)																	
Report Last Signed By																		
User:	ELIZABETH.LOWES@CHBWW.COM																	
Name:	Elizabeth Lowes																	
E-Mail:	elizabeth.lowes@chbvw.com																	
Date/Time:	2024-01-17 16:09 (Time Zone: -05:00)																	

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:	01B Internal Outfall	Discharge:	01B-M MERCURY PRETREATMENT																
Report Dates & Status																			
Monitoring Period:	From 12/01/23 to 12/31/23	DMR Due Date:	01/28/24	Status:	NetDMR Validated														
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:	Bryan	Title:	Director, USDOE-WVDP	Telephone:	716-942-4368														
Last Name:	Bower																		
No Data Indicator (NODI)																			
Form NODI:	--																		
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00056	Flow rate	1 - Effluent Gross	0	--	Sample													01/07 - Weekly	CN - CONTIN
					Permit Req.	Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d										
					Value NODI	C - No Discharge		C - No Discharge											
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample													02/BA - Twice Per Batch	GR - GRAB
					Permit Req.								Req Mon MO AVG	<=	50.0 DAILY MX	3M - ng/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																			
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:	2024-01-17 08:23 (Time Zone: -05:00)																		
Report Last Signed By																			
User:	ELIZABETH.LOWES@CHBWV.COM																		
Name:	Elizabeth Lowes																		
E-Mail:	elizabeth.lowes@chbwv.com																		
Date/Time:	2024-01-17 16:09 (Time Zone: -05:00)																		

DMR Copy of Record

Parameter		Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
70295	Solids, total dissolved	Z - Instream Monitoring	0	--														02/DS - Twice Per Discharge	CA - CALCTD
					Sample														
					Permit Req.								Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L			
					Value NODI								C - No Discharge		C - No Discharge				

Permit
 Permit #: **NY0000973**
 Major: Yes
 Permitted Feature: 116
 Internal Outfall

Permittee: U.S. DEPT OF ENERGY
 Permittee Address: 1000 INDEPENDENCE AVE SW
 WASHINGTON, DC 20585
 Discharge: **116-M**
 PSEUDO MON. POINT @FRANKS CRK

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

Report Dates & Status
 Monitoring Period: From 12/01/23 to 12/31/23
 DMR Due Date: 01/28/24
 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
 Last Name: Bower
 Title: Director, USDOE-WVDP
 Telephone: 716-942-4368

No Data Indicator (NODI)
 Form NODI: --

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.

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: 2024-01-17 08:23 (Time Zone: -05:00)

Report Last Signed By
 User: ELIZABETH.LOWES@CHBWV.COM
 Name: Elizabeth Lowes
 E-Mail: elizabeth.lowes@chbwv.com
 Date/Time: 2024-01-17 16:09 (Time Zone: -05:00)

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 12/01/23 to 12/31/23			DMR Due Date:	01/28/24				Status:	NetDMR Validated								
Considerations for Form Completion																		
Principal Executive Officer																		
First Name:	Bryan			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		
Code	Name			Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
01045	Iron, total [as Fe]	2 - Effluent Net	0	--														
				Sample Permit Req.									Req Mon MO AVG	<=	1.0 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCTD
				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_December_2023_Net_Iron_Calculation.pdf	pdf	280194.0				
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:	2024-01-17 09:41 (Time Zone: -05:00)																	
Report Last Signed By																		
User:	ELIZABETH.LOWES@CHBWV.COM																	
Name:	Elizabeth Lowes																	
E-Mail:	elizabeth.lowes@chbwv.com																	
Date/Time:	2024-01-17 16:09 (Time Zone: -05:00)																	

Attachment B

**Storm Water Discharge Monitoring Results for
July 1 through December 31, 2023
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab	Flow-weighted Composite		
Group A Parameters	pH	8.1	S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.6		N.R.	15 mg/L
	BOD-5	3.9		2.1	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	8.8		4.8	
	Total Dissolved Solids (TDS)	660		330	
Phosphorus, Total	0.018		0.048		
Group B Parameters	Aluminum	0.83		0.88	
	Iron	1.3		0.81	
	Copper, Total Recoverable (TR)	0.0032		0.0032	
	Lead (TR)	0.0016		0.0038	
	Zinc (TR)	0.012		0.014	
Group C Parameters	Total Nitrogen (as N)	< 0.75		< 0.49	
	TKN	0.71		0.35	
	Nitrate Nitrogen (as N)	< 0.020		0.12	
	Nitrite Nitrogen (as N)	< 0.020		< 0.020	
	Ammonia Nitrogen (as NH3)	< 0.0090		< 0.0090	
	Cadmium, TR	< 0.000071		< 0.000071	
	Chromium, TR	0.0013		0.0014	
	Hexavalent Chromium, TR	< 0.0050		< 0.0050	
	Selenium, TR	< 0.00044		< 0.00044	
	Vanadium, TR	< 0.0012		0.0015	
	Surfactant (as LAS)	N.R.		N.R.	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	N.R.		N.R.	
	Sulfide	N.R.		N.R.	
Paraquat Dichloride	< 0.00032		N.R.		
Flow	Total Flow, gallons	N.R.		220,000	
	Maximum Flow rate, gallons per minute	3,000		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/23/23		08/23/23	
	Duration of storm event, in minutes	N.R.		495	Rain started at 0515 EST on 8/23/23 and ended at 1330 EST on 8/23/23.
	Date and Time of sample collection	08/23/23 1355		08/23/23 1605	
	Sampling Duration (Minutes)	Instantaneous		140	
	Total rainfall during sampling event, in inches	N.R.		0.19	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		125	0.16 inches was recorded on 8/17/23 at 2400 EST. The outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S33
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.2 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	2.3 / <1.6	N.R.	15 mg/L
	BOD-5	4.5 / 4.3	4.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	60 / 280	220	
	Total Dissolved Solids (TDS)	370 / 370	400	
Phosphorus, Total	0.40 / 0.37	0.49		
Group B Parameters	Aluminum	0.29 / 0.14	1.7	
	Iron	2.6 / 2.2	11	
	Copper, Total Recoverable (TR)	0.0014 / 0.00096	0.0055	
	Lead (TR)	0.0011 / 0.0012	0.0080	
	Zinc (TR)	0.0095/0.0097	0.056	
Group C Parameters	Total Nitrogen (as N)	N.R.	N.R.	
	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.012 / 0.024	0.015	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Paraquat Dichloride	< 0.00041	N.R.		
Flow	Total Flow, gallons	N.R.	33,000	
	Maximum Flow rate, gallons per minute	210	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/30/23	10/30/23	
	Duration of storm event, in minutes	N.R.	1140	Rain started at 0015 EST on 10/30/23 and ended at 1915 EST on 10/30/23.
	Date and Time of sample collection	10/30/23 0800	10/30/23 1040	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.43	An additional 0.20 inches was recorded after sampling was completed for a storm total of 0.63 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	17	Precipitation of 0.50 inches was recorded on 10/29/23 at 0730 EST. There was flow at the outfall on arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S12
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results in mg/L, Mercury, total in ng/L via method 1631		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.4 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	2.1	1.6	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	14	74	
	Total Dissolved Solids (TDS)	500	710	
	Phosphorus, Total	0.059	0.12	
Group B Parameters	Aluminum	0.29	0.61	
	Iron	0.88	2.9	
	Copper, Total Recoverable (TR)	0.0022	0.0033	
	Lead (TR)	0.0022	0.0039	
	Zinc (TR)	0.0096	0.025	
Group C Parameters	Total Nitrogen (as N)	< 0.82	< 1.3	
	TKN	0.42	0.87	
	Nitrate Nitrogen (as N)	0.23	0.25	
	Nitrite Nitrogen (as N)	< 0.17	< 0.17	
	Ammonia Nitrogen (as NH3)	0.017	0.018	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	< 0.0000067	< 0.0000065	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	69	N.R.	
Paraquat Dichloride	< 0.00032	N.R.		
Flow	Total Flow, gallons	N.R.	120,000	
	Maximum Flow rate, gallons per minute	930	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/30/23	10/30/23	
	Duration of storm event, in minutes	N.R.	1140	Rain started at 0015 EST on 10/30/23 and ended at 1915 EST on 10/30/23.
	Date and Time of sample collection	10/30/23 0610	10/30/23 0855	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.43	An additional 0.20 inches fell after sampling was completed for a storm total of 0.63 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	17	Precipitation of 0.50 inches was recorded on 10/29/23 at 0730 EDT. There was flow above base flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab / Duplicate	Flow-weighted Composite		
Group A Parameters	pH	8.1	S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6		N.R.	15 mg/L
	BOD-5	5.2		5.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	340		340	
	Total Dissolved Solids (TDS)	490		420	
	Phosphorus, Total	0.38		0.23	
Group B Parameters	Aluminum	8.0		4.4	
	Iron	23		11	
	Copper, Total Recoverable (TR)	0.024		0.015	
	Lead (TR)	0.031		0.024	
	Zinc (TR)	0.23		0.14	
Group C Parameters	Total Nitrogen (as N)	N.R.		N.R.	
	TKN	N.R.		N.R.	
	Nitrate Nitrogen (as N)	N.R.		N.R.	
	Nitrite Nitrogen (as N)	N.R.		N.R.	
	Ammonia Nitrogen (as NH3)	N.R.		N.R.	
	Cadmium, TR	N.R.		N.R.	
	Chromium, TR	N.R.		N.R.	
	Hexavalent Chromium, TR	N.R.		N.R.	
	Selenium, TR	N.R.		N.R.	
	Vanadium, TR	N.R.		N.R.	
	Surfactant (as LAS)	0.020		0.038	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	N.R.		N.R.	
	Sulfide	N.R.		N.R.	
	Paraquat Dichloride	<0.00047		N.R.	
Flow	Total Flow, gallons	N.R.		210,000	
	Maximum Flow rate, gallons per minute	2,700		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	11/17/23		11/17/23	
	Duration of storm event, in minutes	N.R.		495	Rain started at 1100 EST on 11/17/23 and ended at 1915 EST on 11/17/23.
	Date and Time of sample collection	11/17/23 1120		11/17/23 1405	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during event, in inches	N.R.		0.40	An additional 0.45 inches was recorded after sampling was completed for a storm total of 0.85 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		191	Precipitation of 0.17 inches was recorded on 11/9/23 at 1145 EST. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S14
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.2 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.1	N.R.	15 mg/L
	BOD-5	2.5	1.5	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	11	6.8	
	Total Dissolved Solids (TDS)	730	1000	
	Phosphorus, Total	0.072	0.028	
Group B Parameters	Aluminum	0.33	0.21	
	Iron	0.58	0.36	
	Copper, Total Recoverable (TR)	0.0018	0.0014	
	Lead (TR)	< 0.0005	< 0.0005	
	Zinc (TR)	0.0037	< 0.0033	
Group C Parameters	Total Nitrogen (as N)	< 1.3	< 0.73	
	TKN	1.2	0.60	
	Nitrate Nitrogen (as N)	0.090	0.10	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.031	0.034	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	< 0.0033	< 0.0033	
	Surfactant (as LAS)	0.013	0.019	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.1	0.1	
	Sulfide	< 0.033	< 0.033	
Paraquat Dichloride	N.R.	N. R.		
Flow	Total Flow, gallons	N.R.	820	
	Maximum Flow rate, gallons per minute	10	N.R.	
	Method of flow measurement	Weir		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/30/23	10/30/23	
	Duration of storm event, in minutes	N.R.	1140	Rain started at 0015 EST on 10/30/23 and ended at 1915 EST on 10/30/23.
	Date and Time of sample collection	10/30/23 0550	10/30/23 0840	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.43	An additional 0.20 inches was recorded after sampling was completed for a storm total of 0.63 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	17	Precipitation of 0.50 inches was recorded on 10/29/23 at 0730 EST. There was flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S36
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.9 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	4.9	4.2	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	160	76	
	Total Dissolved Solids (TDS)	330	250	
	Phosphorus, Total	0.058	0.053	
Group B Parameters	Aluminum	2.0	1.1	
	Iron	3.5	2.8	
	Copper, Total Recoverable (TR)	0.0053	0.0039	
	Lead (TR)	0.013	0.0072	
	Zinc (TR)	0.027	0.024	
Group C Parameters	Total Nitrogen (as N)	< 1.2	< 0.97	
	TKN	1.1	0.76	
	Nitrate Nitrogen (as N)	0.099	0.17	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.028	0.023	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	0.0034	< 0.0033	
	Surfactant (as LAS)	0.0080	0.0078	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.4	0.1	
	Sulfide	< 0.033	< 0.033	
Paraquat Dichloride	<0.00032	N.R.		
Flow	Total Flow, gallons	N.R.	1700	
	Maximum Flow rate, gallons per minute	13	N.R.	
	Method of flow measurement	Bucket and Stopwatch		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	11/17/23	11/17/23	
	Duration of storm event, in minutes	N.R.	495	Rain started at 1100 EST on 11/17/23 and ended at 1915 EST on 11/17/23.
	Date and Time of sample collection	11/17/23 1145	11/17/23 1355	
	Sampling Duration (Minutes)	Instantaneous	140	
	Total rainfall during sampling event, in inches	N.R.	0.40	An additional 0.45 inches was recorded after sampling was completed for a storm total of 0.85 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	191	Precipitation of 0.17 inches was recorded on 11/09/23 at 1145 EST. There was flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit	
		First Flush Grab/Duplicate	Flow-weighted Composite		
Group A Parameters	pH	7.2	S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.8		N.R.	15 mg/L
	BOD-5	12		< 2.0	Not specified in permit. N.R. = Not required. * Data was flagged "R" Unreliable during the data validation Process.
	Total Suspended Solids (TSS)	< 4.0	"R"	< 4.0	
	Total Dissolved Solids (TDS)	< 2.4		< 2.4	
Phosphorus, Total	0.0054		< 0.0050		
Aluminum	0.21		0.10		
Group B Parameters	Iron	0.20		0.11	
	Copper, Total Recoverable (TR)	0.00061		0.00056	
	Lead (TR)	0.00044		0.00024	
	Zinc (TR)	0.0065		0.0035	
	Total Nitrogen (as N)	< 0.29		0.64	
Group C Parameters	TKN	< 0.19		0.42	
	Nitrate Nitrogen (as N)	0.074		0.20	
	Nitrite Nitrogen (as N)	0.026		0.022	
	Ammonia Nitrogen (as NH3)	0.083		0.15	
	Cadmium, TR	N.R.		N.R.	
	Chromium, TR	N.R.		N.R.	
	Hexavalent Chromium, TR	N.R.		N.R.	
	Selenium, TR	N.R.		N.R.	
	Vanadium, TR	N.R.		N.R.	
	Surfactant (as LAS)	0.069		0.025	
	Alpha BHC	N.R.		N.R.	
	Settleable Solids	N.R.		N.R.	
	Sulfide	< 0.033		< 0.033	
	Paraquat Dichloride	< 0.00032		N.R.	
Flow	Total Flow, gallons	N.R.		330,000	
	Maximum Flow rate, gallons per minute	7,100		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	8/15/23		8/15/23	Rain started at 1500 EST on 8/15/23 and ended at 2030 EST on 8/15/23. Precipitation of 0.15 inches was recorded on 8/10/23 at 1500 EST. There was flow at the outfall upon arrival.
	Duration of storm event, in minutes	N.R.		330	
	Date and Time of sample collection	8/15/23 1630		8/15/23 1915	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during event, in inches	N.R.		0.58	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		118	

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S35
Monitoring Period: July 1 through December 31, 2023**

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	< 1.0 "R"	1.0 "R"	Not specified in permit. N.R. = Not Required. Data was flagged "R" unreliable during the data validation process.
	Total Suspended Solids (TSS)	2.8	1.8	
	Total Dissolved Solids (TDS)	280	280	
	Phosphorus, Total	0.021	< 0.020	
Group B Parameters	Aluminum	0.13	0.088	
	Iron	0.16	0.15	
	Copper, Total Recoverable (TR)	0.0019	0.0021	
	Lead (TR)	< 0.00050	< 0.00050	
	Zinc (TR)	0.017	0.015	
Group C Parameters	Total Nitrogen (as N)	< 1.1	< 1.1	
	TKN	0.71	0.76	
	Nitrate Nitrogen (as N)	0.38	0.29	
	Nitrite Nitrogen (as N)	< 0.033 "R"	< 0.033 "R"	
	Ammonia Nitrogen (as NH3)	0.036	0.030	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.013	0.020	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Paraquat Dichloride	< 0.00032	N.R.		
Flow	Total Flow, gallons	N.R.	180,000	
	Maximum Flow rate, gallons per minute	1,300	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/30/23	10/30/23	
	Duration of storm event, in minutes	N.R.	1140	Rain started at 0015 EST on 10/30/23 and ended at 1915 EST on 10/30/23.
	Date and Time of sample collection	10/30/23 0615	10/30/23 0900	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.43	An additional 0.20 inches was recorded after sampling was completed for a storm total of 0.63 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	17	Precipitation of 0.50 inches was recorded on 10/29/23 at 0730 EST. There was flow at the outfall upon arrival.

Attachment C
CHBWV Environmental Certification

CHBWV ENVIRONMENTAL CERTIFICATION

1. To be signed by a CHBWV Officer

I certify under penalty of law that I have reviewed the environmental submittal, including all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the document has been prepared in accordance with all applicable requirements and the information is, to the best of my knowledge and belief, true, accurate, and complete.

E. A. Lowes/V.P. Regulatory Strategy
Name/Title (type or print)

E. A. Lowes
Signature

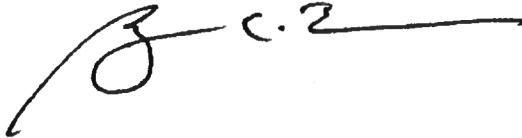
1/11/2024
Date signed

Attachment D

**WVDP SPDES Permit “Special Conditions – Industry Best Management Practices,”
Permittee Certification of Annual Review**

**WVDP SPDES Permit “Special Conditions – Industry Best Management Practices,”
Permittee Certification of Annual Review**

I certify under penalty of law that the annual review of the Clean Water Act/SPDES Best Management Practices (BMP) and Storm Water Pollution Prevention Plan (SWPPP) for the WVDP (WVDP-206) was completed by December 31, 2023, as per the “Special Conditions – Industry Best Management Practices” section of the SPDES Permit.



12/28/2023

Bryan C. Bower, Project Director
U.S. Department of Energy
West Valley Demonstration Project

Date

Attachment E

Email Confirmation from NYSDEC

From: netdmr-notification@epa.gov
To: [Robert Steiner](#); [Matia Varner](#); [William Frederick](#); rwing@cattco.org; [Elizabeth Lowes](#); [Jamie Prowse](#); [Jennifer Dundas](#); [Joshua Desmarais](#); R9.NetDMR@dec.ny.gov; [William Kean](#); [Bonnie Jeffery](#); [Michael Pendl](#)
Subject: NetDMR DMR(s) Submittal Passed for: NY0000973
Date: Wednesday, January 17, 2024 5:31:43 PM

The following signed 13 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _a54c14c7-982a-4d7d-b6f9-89be2d2d80c4
User ID: ELIZABETH.LOWES@CHBWV.COM
Timestamp: 01/17/2024 16:09:44

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: S - OUTFALL 001 SEMI-ANNUAL
Monitoring Period End Date: 06/30/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: A - OUTFALL 001 ANNUAL
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: M - OUTFALL 001 MONTHLY PROC WW, GW, STORM
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: S - OUTFALL 001 SEMI-ANNUAL
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: U - OUTFALL 001 ACTION LEVELS ANNUAL
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 001
Discharge: V - OUTFALL 001 ACTION LEVELS SEMI-ANNUAL
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ

Permit ID: NY0000973
Permitted Feature: 001
Discharge: W - OUTFALL 001 WET TESTING QUARTERLY
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 007
Discharge: M - SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 007
Discharge: V - OUTFALL 007 ANNUAL MONITORING
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 007
Discharge: W - OUTFALL 007 WET TESTING QUARTERLY
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK
Monitoring Period End Date: 12/31/23

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ
Permit ID: NY0000973
Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 12/31/23

Thank you.

This is a submission from the LIVE (Production) site.