

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

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

AC-PRES
WD:2021:0025
January 20, 2021

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, 2020, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2020 through December 31, 2020

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. Cooney:

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, 2020 including the Net Iron calculation sheet has been submitted electronically. A copy of this submittal is attached.

Also attached are the results of the storm water monitoring for the period of July 1, 2020 through December 31, 2020, 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) 942-2641 or cell phone at (716) 481-0429 if you have any questions.

Sincerely,

Approval Obtained Electronically
John D. Rendall
President & General Manager

JDR:WNK:bnj

Attachments: A) SPDES DMR for December 1 through December 31, 2020 Monitoring Period
B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2020 Monitoring Period
C) CHBWV Environmental Certification
D) WVDP SPDES Permit "Special Conditions – Industry Best Management Practices," Permittee Certification of the Annual Review

cc: B. C. Bower, DOE-WVDP
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
D. P. Klenk, CHBWV
E. A. Lowes, CHBWV
J. K. Mantione, CHBWV
L. J. Ortega, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
M. A. Rodges, CHBWV
K. A. Wooley, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #2030244

Attachment A

SPDES DMR for December 1 – 31, 2020

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2020, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2020 through December 31, 2020

The SPDES DMR for the December 1 through December 31, 2020 Monitoring Period is provided as Attachment A. There were no discharges at outfall 001-M, 007-M, 116-M, Sum-N or internal outfall 01B-M during the monitoring period of December 1, 2020 through December 31, 2020. Please also note that there were also no discharges at outfall 001-S or 001-V during the monitoring period of July 1, 2020 through December 31, 2020, or outfall 007-V during the 2020 calendar year as denoted on the specific Discharge Monitoring Reports (DMR).

In addition, CHBWV is also submitting, for your use the analytical results and data for the semi-annual storm water monitoring period of July 1, 2020 through December 31, 2020 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 July 23, October 7, October 19, October 21, and October 29, 2020. The on-site pH measured near the site's rain gauge on each of these dates was: 6.9 SU; 6.8 SU; 7.3 SU; 7.0; and 5.7 SU, respectively.

Storm Water sampling that was not completed during the first semi-annual monitoring period included outfalls S06, S14, S27, S39 and the lead sample at S43. These were completed during the second semi-annual monitoring period and those results have been reported within this Discharge Monitoring Report within Attachment B.

Storm water sampling was attempted during the storm event that occurred on October 20, 2020 however the 0.49 inches of precipitation was not enough to generate storm flow at the outfalls. Storm water sampling that was then conducted on October 21, at outfalls S39, S41, S35 and S43 (Pb) although the duration between these two storm events was less than the requisite 72 hours (24) as normally required, however there was no flow at the outfalls prior to the time of sampling that occurred on October 21, 2020.

Storm water sampling that was conducted on October 29, 2020 at outfall S12 was completed although the duration between storm events was less than the requisite 72 hours (33) as normally required, however this outfall had returned to base flow conditions prior to sampling.

In addition, semi-annual lead sampling was completed on July 23, 2020 and October 21, 2020 at storm water outfall S43 located at the Live Fire Range with reported results of 0.002 mg/L and 0.003 mg/L with an action level of 0.006 mg/L. Please note that the sample collected on July 23, 2020 was for the first semi-annual monitoring period of January 1, 2020 through June 30, 2020.

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 onsite on July 6-8, 2020 and therefore, storm water outfalls that could be affected were sampled for Paraquat Dichloride on July 16 and July 23, 2020 during the second semi-annual monitoring period.

OUTFALL	DATE	PARAMETER	RESULT	UNITS
S04	7/16/20	Paraquat Dichloride	< 0.0004	mg/L
S09	7/16/20	Paraquat Dichloride	< 0.0004	mg/L
S20	7/16/20	Paraquat Dichloride	< 0.0004	mg/L
S27	7/16/20	Paraquat Dichloride	< 0.0004	mg/L
S33	7/16/20	Paraquat Dichloride	< 0.0004	mg/L
S34	7/16/20	Paraquat Dichloride	<0.0004	mg/L
S06	7/23/20	Paraquat Dichloride	<0.007	mg/L
S12	7/23/20	Paraquat Dichloride	<0.0004	mg/L
S14	7/23/20	Paraquat Dichloride	<0.0004	mg/L
S17	7/23/20	Paraquat Dichloride	<0.0004	mg/L
S28	7/23/20	Paraquat Dichloride	<0.0004	mg/L
S37	7/23/20	Paraquat Dichloride	<0.0004	mg/L
S41	7/23/20	Paraquat Dichloride	<0.0004	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 2020 and therefore we have not included a WTC Annual Report Form for 2020.

In accordance with the Special Conditions – Industry Best Management Practices (2) Compliance Deadlines, the WVDP has completed the annual review of the BMP/SWPPP (Attachment C) and a revision to the “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) has been completed. Based on conversations in the spring of this year, a revision to the BMP/SWPPP was determined to be necessary in order to cover the demolition activities of the WVDP’s Main Plant Process Building (MPPB). The complete document and the Notice of Intent (NOI) will be forwarded to the New York State Department of Environmental Conservation in the near future.

SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2020
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.

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

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

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

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

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

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

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

DMR Copy of Record

Permit

Permit #:NY0000973

Major:Yes

Permitted Feature:001
External Outfall

Permittee:U.S. DEPT OF ENERGY

Permittee Address:1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Discharge:001-A
OUTFALL 001 ANNUAL

Facility:WEST VALLEY DEMONSTRATION PROJ

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

Report Dates & Status

Monitoring Period:From 01/01/20 to 12/31/20

DMR Due Date:01/28/21

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:--

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			
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample								<	0.0003	<	0.0003	19 - mg/L	0	01/YR - Annual	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.002 DAILY MX	19 - mg/L		01/YR - Annual	24 - COMP24
					Value NODI															
34488	Trichlorofluoromethane	1 - Effluent Gross	0	--	Sample								<	0.0003	<	0.0003	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.01 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					Value NODI															
34631	3,3'-Dichlorobenzidine	1 - Effluent Gross	0	--	Sample								<	0.0008	<	0.0008	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.								<=	0.005 MO AVG	<=	0.01 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					Value NODI															
34668	Dichlorodifluoromethane	1 - Effluent Gross	0	--	Sample								<	0.0004	<	0.0004	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.01 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					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		01/YR - Annual	GR - GRAB
					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		01/YR - Annual	GR - GRAB
					Value NODI															
77819	Tri-n-butyl phosphate	1 - Effluent Gross	0	--	Sample								<	0.0008	<	0.0008	19 - mg/L	0	01/YR - Annual	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					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.									Req Mon MO AVG	<=	0.011 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					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.									Req Mon MO AVG	<=	0.5 DAILY MX	19 - mg/L		01/YR - Annual	GR - GRAB
					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.									Req Mon MO AVG	<=	0.05 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) TestAmerica: 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 the CHBWV wastewater treatment plant operators is 0.01 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:	2021-01-20 15:55 (Time Zone: -05:00)
Report Last Signed By	
User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2021-01-20 16:49 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

U.S. DEPT OF ENERGY
1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:
Facility Location:

WEST VALLEY DEMONSTRATION PROJ
10282 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 12/01/20 to 12/31/20

DMR Due Date:
01/28/21

Status:
NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Bryan C.
Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

U.S. DEPT OF ENERGY
1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:
Facility Location:

WEST VALLEY DEMONSTRATION PROJ
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 07/01/20 to 12/31/20

DMR Due Date:

01/28/21

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Bryan C.
Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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		
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.005 DAILY MX	19 - mg/L		
					Value NODI									C - No Discharge		C - No Discharge			
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	2.0 DAILY MX	19 - mg/L		
					Value NODI									C - No Discharge		C - No Discharge			
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.079 DAILY MX	19 - mg/L		
					Value NODI									C - No Discharge		C - No Discharge			
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.13 DAILY MX	19 - mg/L		
					Value NODI									C - No Discharge		C - No Discharge			
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.006 DAILY MX	19 - mg/L		
					Value NODI									C - No Discharge		C - No Discharge			
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.11 DAILY MX	19 - mg/L		
					Value NODI									C - No Discharge		C - No Discharge			
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.014 DAILY MX	19 - mg/L		
					Value NODI									C - No Discharge		C - No Discharge			
39410	Heptachlor	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	GR - GRAB
					Permit Req.								<=	0.01 MO AVG		Req Mon DAILY MX	28 - ug/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@chbvw.com

Name:

William Kean

E-Mail:

william.kean@chbvw.com

Date/Time:

2021-01-20 15:55 (Time Zone: -05:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2021-01-20 16:49 (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 01/01/20 to 12/31/20	DMR Due Date:	01/28/21	Status:	NetDMR Validated
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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: --

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			
01007	Barium, total [as Ba]	V - See Comments	0	--	Sample								=	0.04	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								=	0.011	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								<	0.0003	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) TestAmerica: 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 the CHBWV wastewater treatment plant operators is 0.01 mg/L.

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:	2021-01-20 15:56 (Time Zone: -05:00)

Report Last Signed By

User:	ELIZABETH.LOWES@CHBWV.COM
Name:	Elizabeth Lowes
E-Mail:	elizabeth.lowes@chbwv.com
Date/Time:	2021-01-20 16:49 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 07/01/20 to 12/31/20

DMR Due Date:

01/28/21

Status:

NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

First Name:

Bryan C.

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.

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:

2021-01-20 15:56 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2021-01-20 16:49 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

U.S. DEPT OF ENERGY
1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:
Facility Location:

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

Permitted Feature:

007
External Outfall

Discharge:

007-M
SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

Report Dates & Status

Monitoring Period:
From 12/01/20 to 12/31/20

DMR Due Date:
01/28/21

Status:
NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:
Last Name:

Bryan C.
Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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			
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CA - CALCTD
					Permit Req.									Req Mon MO AVG	<=	22.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L			
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	10.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU			
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L			
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	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														01/30 - Monthly	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	0.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 01/01/20 to 12/31/20

DMR Due Date:

01/28/21

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:

--

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		
32106	Chloroform	1 - Effluent Gross	0	--	Sample													01/YR - Annual	GR - GRAB
					Permit Req.										<=	0.2 DAILY MX	19 - mg/L		
					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:

2021-01-20 15:56 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbvw.com

Date/Time:

2021-01-20 16:49 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 12/01/20 to 12/31/20

DMR Due Date:

01/28/21

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:

--

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:

2021-01-20 15:56 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2021-01-20 16:49 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

U.S. DEPT OF ENERGY
1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:
Facility Location:

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

Permitted Feature:

116
Internal Outfall

Discharge:

116-M
PSEUDO MON. POINT @FRANKS CRK

Report Dates & Status

Monitoring Period:

From 12/01/20 to 12/31/20

DMR Due Date:

01/28/21

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:
Last Name:

Bryan C.
Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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		
70295	Solids, total dissolved	Z - Instream Monitoring	0	--	Sample														
					Permit Req.									Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge
					Value NODI									C - No Discharge		C - No Discharge			CA - CALCTD

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:

2021-01-20 15:56 (Time Zone: -05:00)

Report Last Signed By

ELIZABETH.LOWES@CHBWV.COM

User:

Elizabeth Lowes

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2021-01-20 16:49 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 12/01/20 to 12/31/20

DMR Due Date:

01/28/21

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:

--

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			
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_2020_Net_Iron_Calculation.pdf	pdf	87106.0

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:

2021-01-20 16:07 (Time Zone: -05:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2021-01-20 16:49 (Time Zone: -05:00)

Attachment B

**Storm Water Discharge Monitoring Results for
July 1 through December 31, 2020
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S06*
Monitoring Period: January 1 through June 30, 2020***

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.3 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	2.1	2.0	Not specified in permit. N.R. = Not Required. *Please see synopsis regarding this outfall.
	Total Suspended Solids (TSS)	< 2.3	1.8	
	Total Dissolved Solids (TDS)	1,100	1,100	
	Phosphorus, Total	0.090	0.067	
Group B Parameters	Aluminum	< 0.068	< 0.068	
	Iron	0.17	0.31	
	Copper, Total Recoverable (TR)	0.00057	< 0.00030	
	Lead (TR)	< 0.00050	< 0.00050	
	Zinc (TR)	0.0079	0.0068	
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)	< 0.0043	0.0067	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.007	N.R.	
Flow	Total Flow, gallons	N.R.	4,700	
	Maximum Flow rate, gallons per minute	30	N.R.	
	Method of flow measurement	ISCO Flow Meter		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/07/20	10/07/20	
	Duration of storm event, in minutes	N.R.	345	Rain started at 0900 EDT on 10/7/20 and ended at 1445 EDT on 10/7/20.
	Date and Time of sample collection	10/07/20 0940	10/07/20 1220	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.23	An addition 0.05 inches was recorded after sampling was complete for a storm event total of 0.28 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	107	Precipitation of 0.31 inches was recorded on 10/2/20 at 2145 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S14*
Monitoring Period: January 1 through June 30, 2020***

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	7.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	3.8	3.6	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	120	28	
	Total Dissolved Solids (TDS)	270	710	
	Phosphorus, Total	0.54	0.14	
Group B Parameters	Aluminum	2.0	0.93	* Please see synopsis regarding this outfall.
	Iron	3.0	1.2	
	Copper, Total Recoverable (TR)	0.0034	0.0024	
	Lead (TR)	0.0065	0.0023	
	Zinc (TR)	0.024	0.0087	
Group C Parameters	Total Nitrogen (as N)	< 3.1	< 1.4	
	TKN	3.0	1.2	
	Nitrate Nitrogen (as N)	0.12	0.19	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.061	0.028	
	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	0.0025	0.0014	
	Surfactant (as LAS)	0.017	0.046	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.8	< 0.1	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	<0.0004	N. R.	
Flow	Total Flow, gallons	N.R.	1,700	
	Maximum Flow rate, gallons per minute	23	N.R.	
	Method of flow measurement	Weir		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	7/23/20	7/23/20	
	Duration of storm event, in minutes	N.R.	675	Rain started at 0030 EDT on 7/23/20 and ended at 1145 EDT on 7/23/20.
	Date and Time of sample collection	7/23/20 1030	7/23/20 1310	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	1.22	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	93	Precipitation of 0.36 inches was recorded on 7/19/20 at 1645 EDT. No flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S39*
Monitoring Period: January 1 through June 30, 2020***

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	8.1 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	130	100	
	Total Dissolved Solids (TDS)	250	220	* Please see Synopsis regarding this outfall.
	Phosphorus, Total	0.090	0.12	
Group B Parameters	Aluminum	7.7	14	
	Iron	6.9	14	
	Copper, Total Recoverable (TR)	0.0076	0.013	
	Lead (TR)	0.0034	0.0056	
	Zinc (TR)	0.098	0.044	
Group C Parameters	Total Nitrogen (as N)	< 1.4	< 0.98	
	TKN	1.4	0.94	
	Nitrate Nitrogen (as N)	< 0.020	< 0.020	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.030	0.053	
	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	0.0084	0.013	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.5	0.2	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	130,000	
	Maximum Flow rate, gallons per minute	1,500	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/21/20	10/21/20	
	Duration of storm event, in minutes	N.R.	285	Rain started at 0445 EDT on 10/21/20 and ended at 0930 EDT on 10/21/20.
	Date and Time of sample collection	10/21/20 0810	10/21/20 1050	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	1.28	.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	24	Precipitation of 0.45 inches was recorded on 10/20/20 at 0515 EDT. No flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S27*
Monitoring Period: January 1 through June 30, 2020***

Parameter Group	Parameter	Results, in mg/L		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	< 1.5	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required. * Please see Synopsis regarding this outfall.
	Total Suspended Solids (TSS)	420	150	
	Total Dissolved Solids (TDS)	240	220	
	Phosphorus, Total	1.1	0.36	
Group B Parameters	Aluminum	22	7.0	
	Iron	29	6.8	
	Copper, Total Recoverable (TR)	0.028	0.0080	
	Lead (TR)	0.16	0.024	
	Zinc (TR)	0.46	0.059	
Group C Parameters	Total Nitrogen (as N)	< 2.8	< 1.1	
	TKN	2.6	0.91	
	Nitrate Nitrogen (as N)	0.19	0.14	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.072	0.028	
	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	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	19,000	
	Maximum Flow rate, gallons per minute	260	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	7/23/20	7/23/20	
	Duration of storm event, in minutes	N.R.	675	Rain started at 0030 EDT on 7/23/20 and ended at 1145 EDT on 7/23/20.
	Date and Time of sample collection	7/23/20 1010	7/23/20 1300	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	1.22	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	93	Precipitation of 0.36 inches was recorded on 7/19/20 at 1540 EDT. There was no flow at outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: July 1 through December 31, 2020

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.7 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	< 2.0	2.3	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	21	54	
	Total Dissolved Solids (TDS)	2800	550	
	Phosphorus, Total	0.034	0.11	
Group B Parameters	Aluminum	0.24	2.8	
	Iron	0.45	2.9	
	Copper, Total Recoverable (TR)	0.0030	0.0061	
	Lead (TR)	0.00062	0.0051	
	Zinc (TR)	0.0089	0.033	
Group C Parameters	Total Nitrogen (as N)	< 0.53	< 1.5	
	TKN	0.49	0.98	
	Nitrate Nitrogen (as N)	< 0.020	0.54	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.038	0.34	
	Cadmium, TR	< 0.000071	< 0.000071	
	Chromium, TR	0.0017	0.0050	
	Hexavalent Chromium, TR	< 0.0050	0.0055	
	Selenium, TR	0.00074	< 0.00044	
	Vanadium, TR	0.0018	0.0069	
	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	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	290,000	
	Maximum Flow rate, gallons per minute	5,300	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/07/20	10/07/20	
	Duration of storm event, in minutes	N.R.	345	Rain started at 0900 EDT on 10/7/20 and ended at 1445 EDT on 10/7/20.
	Date and Time of sample collection	10/07/20 0820	10/07/20 1100	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.23	An additional 0.05 inches was recorded after sampling was completed for a storm event total of 0.28 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	107	Precipitation of 0.31 inches was recorded on 10/2/20 at 2145 EDT. No flow above base flow upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S33
Monitoring Period: July 1 through December 31, 2020

Parameter Group	Parameter	Results in mg/L		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	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	44	19	
	Total Dissolved Solids (TDS)	940	870	
	Phosphorus, Total	0.12	0.075	
Group B Parameters	Aluminum	0.78	0.37	
	Iron	2.8	1.4	
	Copper, Total Recoverable (TR)	0.0022	0.0016	
	Lead (TR)	0.0017	0.00089	
	Zinc (TR)	0.020	0.0096	
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)	0.028	0.049	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	70,000	
	Maximum Flow rate, gallons per minute	450	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/07/20	10/07/20	
	Duration of storm event, in minutes	N.R.	345	Rain started at 0900 EDT on 10/7/20 and ended at 1445 EDT on 10/7/20.
	Date and Time of sample collection	10/07/20 0950	10/07/20 1230	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.23	An additional 0.05 inches was recorded after sampling at this outfall was completed for a storm total of 0.28 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	107	Precipitation of 0.31 inches was recorded on 10/2/20 at 2145 EDT. There was no flow at the outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S12
Monitoring Period: July 1 through December 31, 2020

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	7.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	< 1.0	1.5	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	19	76	
	Total Dissolved Solids (TDS)	1400	1400	
	Phosphorus, Total	0.034	0.19	
Group B Parameters	Aluminum	0.24	1.1	
	Iron	0.52	2.1	
	Copper, Total Recoverable (TR)	0.0014	0.0047	
	Lead (TR)	0.00068	0.0080	
	Zinc (TR)	0.011	0.029	
Group C Parameters	Total Nitrogen (as N)	< 0.75	< 1.0	
	TKN	0.42	0.72	
	Nitrate Nitrogen (as N)	< 0.17	< 0.17	
	Nitrite Nitrogen (as N)	< 0.17	< 0.17	
	Ammonia Nitrogen (as NH3)	0.070	0.082	
	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	< 0.0000064	< 0.0000064	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	2.8	N.R.	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	24,000	
	Maximum Flow rate, gallons per minute	220	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/29/20	10/29/20	
	Duration of storm event, in minutes	N.R.	675	Rain started at 0800 EDT on 10/29/20 and ended at 1915 EDT on 10/29/20.
	Date and Time of sample collection	10/29/20 1335	10/29/20 1620	
	Sampling Duration (Minutes)	Instantaneous	180	
	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.	33	Precipitation of 0.26 inches was recorded on 10/27/20 at 2330 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34/Duplicate
Monitoring Period: July 1 through December 31, 2020**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.7 / < 1.7	N.R.	15 mg/L
	BOD-5	< 2.0 / < 2.0	2.6	Not specified in permit. N.R. = Nor Required.
	Total Suspended Solids (TSS)	140 / 44	140	
	Total Dissolved Solids (TDS)	720 / 730	470	
	Phosphorus, Total	0.11 / 0.038	0.10	
Group B Parameters	Aluminum	1.6 / 1.2	5.1	
	Iron	3.7 / 2.3	5.0	
	Copper, Total Recoverable (TR)	0.0017 / .0029	0.0076	
	Lead (TR)	0.0021 / 0.0054	0.017	
	Zinc (TR)	0.021 / 0.037	0.073	
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)	0.053 / < 0.013	0.024	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	470,000	
	Maximum Flow Rate, gallons per minute	4,700	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/19/20	10/19/20	
	Duration of storm event, in minutes	N.R.	450	Rain started at 0630 EDT on 10/19/20 and ended at 1400 EDT on 10/19/20.
	Date and Time of sample collection	10/19/20 0820	10/19/20 1100	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.29	An additional 0.15 inches was recorded after sampling at this outfall was completed for a storm total of 0.44 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	81	Precipitation of 0.23 inches was recorded on 10/15/20 at 2130 EDT. Outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S17
Monitoring Period: July 1 through December 31, 2020**

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	7.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	3.7	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	96	120	
	Total Dissolved Solids (TDS)	480	350	
	Phosphorus, Total	0.047	0.098	
Group B Parameters	Aluminum	4.6	5.9	
	Iron	3.1	4.6	
	Copper, Total Recoverable (TR)	0.0057	0.0081	
	Lead (TR)	0.011	0.018	
	Zinc (TR)	0.032	0.050	
Group C Parameters	Total Nitrogen (as N)	< 0.97	< 0.97	
	TKN	0.80	0.84	
	Nitrate Nitrogen (as N)	0.15	0.11	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.022	0.060	
	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	0.0065	0.011	
	Surfactant (as LAS)	0.029	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.1	< 0.1	
	Sulfide	< 0.67	< 0.67	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	120,000	
	Maximum Flow rate, gallons per minute	770	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/19/20	10/19/20	
	Duration of storm event, in minutes	N.R.	450	Rain started at 0630 EDT on 10/19/20 and ended at 1400 EDT on 10/19/20.
	Date and Time of sample collection	10/19/20 1025	10/19/20 1305	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.27	An additional 0.17 was recorded after sampling was completed for a storm total of 0.44 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	81	Precipitation of 0.14 inches was recorded on 10/15/20 at 2130 EDT. No flow at Outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S41
Monitoring Period: July 1 through December 31, 2020**

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	8.1 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	130	240	
	Total Dissolved Solids (TDS)	280	240	
	Phosphorus, Total	0.18	1.0	
Group B Parameters	Aluminum	14	39	
	Iron	16	50	
	Copper, Total Recoverable (TR)	0.018	0.044	
	Lead (TR)	0.0080	0.020	
	Zinc (TR)	0.16	0.13	
Group C Parameters	Total Nitrogen (as N)	< 1.4	< 1.8	
	TKN	1.3	1.7	
	Nitrate Nitrogen (as N)	0.11	0.059	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.036	0.065	
	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	0.014	0.038	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.2	0.3	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	77,000	
	Maximum Flow rate, gallons per minute	1,900	N.R.	
	Method of flow measurement	Staff gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/21/20	10/21/20	
	Duration of storm event, in minutes	N.R.	285	Rain started at 0445 EDT on 10/21/20 and ended at 0930 2145 EST on 10/21/20.
	Date and Time of sample collection	10/21/20 0815	10/21/20 1055	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	1.28	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	24	Precipitation of 0.45 inches was recorded on 10/20/20 at 0515 EDT. There was no flow at outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: July 1 through December 31, 2020

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.0 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	< 2.4	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	4.8	5.2	
	Total Dissolved Solids (TDS)	20	10	
	Phosphorus, Total	< 0.0050	< 0.0050	
Group B Parameters	Aluminum	< 0.060	< 0.060	
	Iron	0.036	0.042	
	Copper, Total Recoverable (TR)	0.00058	0.00041	
	Lead (TR)	0.00021	< 0.00017	
	Zinc (TR)	0.0038	0.0031	
Group C Parameters	Total Nitrogen (as N)	< 0.94	< 0.59	
	TKN	0.70	0.44	
	Nitrate Nitrogen (as N)	0.22	0.13	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.43	0.23	
	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)	0.032	0.060	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.67	< 0.67	
	Paraquat Dichloride	< 0.0004	N.R.	
Flow	Total Flow, gallons	N.R.	280,000	
	Maximum Flow rate, gallons per minute	3,200	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/19/20	10/19/20	
	Duration of storm event, in minutes	N.R.	450	Rain started at 0630 EDT on 10/19/20 and ended at 1400 EDT on 10/19/20.
	Date and Time of sample collection	10/19/20 0750	10/19/19 1040	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.28	An additional 0.16 inches was recorded after sampling at this outfall was completed for a storm total of 0.44 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	81	Precipitation of 0.23 inches was recorded on 10/15/20 at 2130 EDT. Outfall was at base flow conditions.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S35
Monitoring Period: July 1 through December 31, 2020

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.7 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.6	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	31	30	
	Total Dissolved Solids (TDS)	230	180	
	Phosphorus, Total	0.030	0.013	
Group B Parameters	Aluminum	1.2	1.7	
	Iron	0.84	1.1	
	Copper, Total Recoverable (TR)	0.0031	0.0035	
	Lead (TR)	0.0034	0.0029	
	Zinc (TR)	0.018	0.023	
Group C Parameters	Total Nitrogen (as N)	< 0.89	< 0.75	
	TKN	0.85	0.71	
	Nitrate Nitrogen (as N)	< 0.020	< 0.020	
	Nitrite Nitrogen (as N)	0.021	< 0.020	
	Ammonia Nitrogen (as NH3)	0.028	0.026	
	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)	0.017	0.040	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	220,000	
	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	10/21/20	10/21/20	
	Duration of storm event, in minutes	N.R.	285	Rain started at 0445 EDT on 10/21/20 and ended at 0930 EDT on 10/21/20.
	Date and Time of sample collection	10/21/20 0710	10/21/20 1000	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	1.28	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	24	Precipitation of 0.45 inches was recorded on 10/20/20 at 0515 EDT. There was no flow at outfall upon arrival.

Attachment C

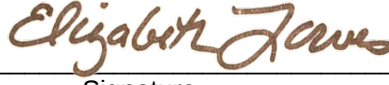
CHBWV Environmental Certification

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)


Signature

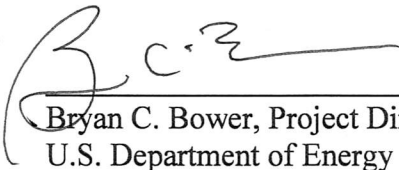
1/20/2021
Date signed

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, 2020, as per the "Special Conditions – Industry Best Management Practices" section of the SPDES Permit.



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

01-20-2021

Date