

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:2020:0008
January 15, 2020

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, 2019, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2019 through December 31, 2019

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, 2019 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, 2019 through December 31, 2019, 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 extension 4865 or Janice Williams at extension 2913.

Sincerely,



Scott A. Anderson
President & General Manager

SAA:WNK:bnj

- Attachments:**
- A) SPDES DMR for December 1 through December 31, 2019 Monitoring Period
 - B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2019 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
C. Chun, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
L. J. Ortega, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
J. D. Rendall, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
D. P. Klenk, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1930186

Attachment A

SPDES DMR for December 1 – 31, 2019

SYNOPSIS

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2019, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2019 through December 31, 2019

The SPDES DMR for the December 1 through December 31, 2019 Monitoring Period is provided as Attachment A. There was no discharge at outfall 001, 007, 116, Sum N or internal outfall 01B during the monitoring period of December 1, 2019 through December 31, 2019. Please also note that there were no discharges at outfall 007 during the 2019 calendar year as denoted on the 007-V Discharge Monitoring Report (DMR).

In addition to reporting the semi-annual and annual outfall 001 analytical results, CHBWV is also submitting, for your use the analytical results and data for the semi-annual storm water monitoring period of July 1, 2019 through December 31, 2019 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 13, October 3, October 16, and October 22, 2019. The on-site pH measured near the site's rain gauge on each of these dates was: 7.9 SU; 6.0 SU; 6.7 SU; and 6.6 SU, respectively.

In addition, semi-annual lead sampling was completed on October 22, 2019 at storm water outfall S43 located at the Live Fire Range with reported results of 0.001 mg/L with an action level of 0.006 mg/L.

Storm water sampling that was conducted on October 3, 2019 at outfall S34 was completed although the duration between storm events was less than the 72 hours (22) as normally required, however flow at the outfall had returned to base flow prior to the storm event sampled.

Storm water sampling that was conducted on October 16, 2019 at outfalls S04, S33 and S12 was completed although the duration between storm events was less than the 72 hours (37) as normally required, however flow at the outfalls had returned to base flow (S04 and S12) prior to the storm event or no flow existed at the outfall (S33) prior to the storm event sampled.

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 along portions of the railroad spur located onsite on June 11-12, 2019 and therefore, storm water outfalls that could possibly be effected (S17, S28, S34, S36 and S39) were sampled for Paraquat Dichloride on August 12, 2019 during the second semi-annual monitoring period.

OUTFALL	DATE	PARAMETER	RESULT	UNITS
S17	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S28	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S34	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S36	8/12/19	Paraquat Dichloride	< 0.002	mg/L
S39	8/12/19	Paraquat Dichloride	< 0.002	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 2019 and therefore we have not included a WTC Annual Report Form for 2019.

In accordance with the Special Conditions – Industry Best Management Practices (2) Compliance Deadlines, the WVDP completed the annual review of the BMP/SWPPP (Attachment C) and a revision to the Best Management Practices (BMP's) is not required at this time.

As indicated within the Synopsis for the State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the period December 1 through December 31, 2018 an "update" to the Storm Water Pollutant Prevention Plan (SWPPP) was required and was completed in 2019. The completed 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) was forwarded to the Regional Engineer on April 2, 2019.

SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2019
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	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-A OUTFALL 001 ANNUAL		

Report Dates & Status					
Monitoring Period:	From 01/01/19 to 12/31/19	DMR Due Date:	01/28/20	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
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.00007	<	0.00007	19 - mg/L	01/YR - Annual	24 - COMP24		
					Permit Req.						Req Mon MO AVG	<=	0.002 DAILY MX	19 - mg/L					
					Value NODI														
34488	Trichlorofluoromethane	1 - Effluent Gross	0	--	Sample						<	0.0005	<	0.0005	19 - mg/L	01/YR - Annual	GR - GRAB		
					Permit Req.						Req Mon MO AVG	<=	0.01 DAILY MX	19 - mg/L					
					Value NODI														
34631	3,3'-Dichlorobenzidine	1 - Effluent Gross	0	--	Sample						<	0.0008	<	0.0008	19 - mg/L	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	01/YR - Annual	GR - GRAB		
					Permit Req.						Req Mon MO AVG	<=	0.01 DAILY MX	19 - mg/L					
					Value NODI														
39337	.alpha.-BHC	1 - Effluent Gross	0	--	Sample						<	0.006	<	0.006	28 - ug/L	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	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						<	0.0008	<	0.0008	19 - mg/L	01/YR - Annual	GR - GRAB		
					Permit Req.						Req Mon MO AVG	<=	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	01/YR - Annual	GR - GRAB		
					Permit Req.						Req Mon MO AVG	<=	0.011 DAILY MX	19 - mg/L					
					Value NODI														
78356	2-Butanone	1 - Effluent Gross	0	--	Sample						<	0.002	<	0.002	19 - mg/L	01/YR - Annual	GR - GRAB		
					Permit Req.						Req Mon MO AVG	<=	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	01/YR - Annual	GR - GRAB		
					Permit Req.						Req Mon MO AVG	<=	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) 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 CHBWW 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@chbwv.com
Date/Time: 2020-01-14 07:39 (Time Zone: -05:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2020-01-14 13:44 (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-M OUTFALL 001 MONTHLY PROC WW, GW, STORM		

Report Dates & Status					
Monitoring Period:	From 12/01/19 to 12/31/19	DMR Due Date:	01/28/20	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			
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample													Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	22.0 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						>=	3.0 MINIMUM						Req Mon MAXIMUM	19 - mg/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	10.0 DAILY MX	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00400	pH	1 - Effluent Gross	0	--	Sample						>=	6.5 MINIMUM					<=	8.5 MAXIMUM	12 - SU	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24		
					Permit Req.																	
					Value NODI																	
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	0.3 DAILY MX	25 - mL/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	15.0 DAILY MX	19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	0.1 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00625	Nitrogen, Kjeldahl, total [as N]	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																	
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	0.4 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample												Req Mon MO AVG <=	0.15 DAILY MX	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req.												C - No Discharge	C - No Discharge				
					Value NODI																	
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																	

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 07/01/19 to 12/31/19		DMR Due Date:	01/28/20				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 [amen. to chlorination]	1 - Effluent Gross	0	--	Sample					<	0.002			<	0.002	19 - mg/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.									<=	0.005 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	GR - GRAB
					Value NODI														
01055	Manganese, total [as Mn]	1 - Effluent Gross	0	--	Sample					=	0.015			=	0.015	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									<=	2.0 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01067	Nickel, total [as Ni]	1 - Effluent Gross	0	--	Sample					=	0.0011			=	0.0011	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									<=	0.079 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample					=	0.0056			=	0.0056	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									<=	0.13 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample					<	0.0005			<	0.0005	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									<=	0.006 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample					<	0.001			<	0.001	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									<=	0.11 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI														
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample					=	0.0008			=	0.0008	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.									<=	0.014 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI														
39410	Heptachlor	1 - Effluent Gross	0	--	Sample					<	0.006			<	0.006	28 - ug/L	02/YR - Twice Per Year	GR - GRAB	
					Permit Req.					<=	0.01 MO AVG				Req Mon DAILY MX	28 - ug/L	0	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) 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 CHBWW wastewater treatment plant operators is 0.01 mg/L.																			
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:	2020-01-14 07:36 (Time Zone: -05:00)																		
Report Last Signed By																			
User:	janice.williams@chbvw.com																		

Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2020-01-14 13:44 (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 01/01/19 to 12/31/19		DMR Due Date:	01/28/20				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:	--																		
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				
01007	Barium, total [as Ba]	V - See Comments	0	--										=	0.03	19 - mg/L	01/YR - Annual	24 - COMP24	
														<=	0.5 DAILY MX	19 - mg/L 0	01/YR - Annual	24 - COMP24	
01097	Antimony, total [as Sb]	V - See Comments	0	--										<	0.0068	19 - mg/L	01/YR - Annual	24 - COMP24	
														<=	1.0 DAILY MX	19 - mg/L 0	01/YR - Annual	24 - COMP24	
32106	Chloroform	V - See Comments	0	--										<	0.0005	19 - mg/L	01/YR - Annual	GR - GRAB	
														<=	0.3 DAILY MX	19 - mg/L 0	01/YR - Annual	GR - GRAB	
Submission Note																			
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																			
Edit Check Errors																			
No errors.																			
Comments																			
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 CHBWW wastewater treatment plant operators is 0.01 mg/L.																			
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:	2020-01-14 07:36 (Time Zone: -05:00)																		
Report Last Signed By																			
User:	janice.williams@chbvw.com																		
Name:	Janice Williams																		
E-Mail:	janice.williams@chbvw.com																		
Date/Time:	2020-01-14 13:44 (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 07/01/19 to 12/31/19	DMR Due Date:	01/28/20	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: --

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
01022	Boron, total [as B]	V - See Comments	0	--	Sample								=	0.047	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.													
					Value NODI													
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample								<	0.001	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					Permit Req.													
					Value NODI													
71870	Bromide [as Br]	V - See Comments	0	--	Sample								<	0.067	19 - mg/L	02/YR - Twice Per Year	24 - COMP24	
					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

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: 2020-01-14 07:36 (Time Zone: -05:00)

Report Last Signed By

User: janice.williams@chbwv.com
 Name: Janice Williams
 E-Mail: janice.williams@chbwv.com
 Date/Time: 2020-01-14 13:44 (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
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 12/01/19 to 12/31/19	DMR Due Date:	01/28/20
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	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3				Units	
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG <=	22.0 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCTD	
					Permit Req.										C - No Discharge	C - No Discharge				
					Value NODI															
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample											Req Mon MAXIMUM	19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.				>=	3.0 MINIMUM					C - No Discharge	C - No Discharge				
					Value NODI															
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG <=	10.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24	
					Permit Req.										C - No Discharge	C - No Discharge				
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample											Req Mon MO AVG <=	8.5 MAXIMUM	12 - SU	02/30 - Twice Per Month	GR - GRAB
					Permit Req.				>=	6.5 MINIMUM					C - No Discharge	C - No Discharge				
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG <=	30.0 MO AVG <=	45.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Permit Req.										C - No Discharge	C - No Discharge				
					Value NODI															
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG <=	0.3 DAILY MX	25 - mL/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.										C - No Discharge	C - No Discharge				
					Value NODI															
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG <=	15.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - GRAB	
					Permit Req.										C - No Discharge	C - No Discharge				
					Value NODI															
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG <=	0.1 DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					Permit Req.										C - No Discharge	C - No Discharge				
					Value NODI															
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24	
					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	02/30 - Twice Per Month	24 - COMP24	
					Permit Req.										C - No Discharge	C - No Discharge				
					Value NODI															
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG <=	1.49 MO AVG <=	2.1 DAILY MX	19 - mg/L	02/30 - Twice Per Month	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															
					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	01/30 - Monthly	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	02/30 - 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: 2020-01-14 07:36 (Time Zone: -05:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2020-01-14 13:44 (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-V OUTFALL 007 ANNUAL MONITORING	

Report Dates & Status

Monitoring Period: From 01/01/19 to 12/31/19	DMR Due Date: 01/28/20	Status: NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

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

No Data Indicator (NODI)

Form NODI: --

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

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com
 Name: William Kean
 E-Mail: william.kean@chbwv.com
 Date/Time: 2020-01-14 07:35 (Time Zone: -05:00)

Report Last Signed By

User: janice.williams@chbwv.com
 Name: Janice Williams
 E-Mail: janice.williams@chbwv.com
 Date/Time: 2020-01-14 13:44 (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 12/01/19 to 12/31/19	DMR Due Date:	01/28/20	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		
00056	Flow rate	1 - Effluent Gross	0	--	Sample																
					Permit Req.	Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d											01/07 - Weekly	CN - CONTIN
					Value NODI	C - No Discharge		C - No Discharge													
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample																
					Permit Req.			Req Mon MO AVG <=	50.0 DAILY MX	3M - ng/L										02/BA - Twice Per Batch	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

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: 2020-01-14 07:35 (Time Zone: -05:00)

Report Last Signed By

User: janice.williams@chbvw.com
 Name: Janice Williams
 E-Mail: janice.williams@chbvw.com
 Date/Time: 2020-01-14 13:44 (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:	116 Internal Outfall	Discharge:	116-M PSEUDO MON. POINT @FRANKS CRK															
Report Dates & Status																		
Monitoring Period:	From 12/01/19 to 12/31/19		DMR Due Date:	01/28/20				Status:	NetDMR Validated									
Considerations for Form Completion																		
IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A'IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.																		
Principal Executive Officer																		
First Name:	Bryan C.		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			
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:	2020-01-14 07:35 (Time Zone: -05:00)																	
Report Last Signed By																		
User:	janice.williams@chbwv.com																	
Name:	Janice Williams																	
E-Mail:	janice.williams@chbwv.com																	
Date/Time:	2020-01-14 13:44 (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 12/01/19 to 12/31/19				DMR Due Date:	01/28/20				Status:	NetDMR Validated							
Considerations for Form Completion																		
Principal Executive Officer																		
First Name:	Bryan C.				Title:	Director, USDOE-WVDP				Telephone:	716-942-4368							
Last Name:	Bower																	
No Data Indicator (NODI)																		
Form NODI:	--																	
Parameter	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
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_2019_Net_Iron_Calculation.pdf	pdf	207408.0				
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:	2020-01-14 07:35 (Time Zone: -05:00)																	
Report Last Signed By																		
User:	janice.williams@chbwv.com																	
Name:	Janice Williams																	
E-Mail:	janice.williams@chbwv.com																	
Date/Time:	2020-01-14 13:44 (Time Zone: -05:00)																	

Attachment B

**Storm Water Discharge Monitoring Results for
July 1 through December 31, 2019
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: July 1 through December 31, 2019**

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	2.1		N.R.	15 mg/L
	BOD-5	3.7		2.8	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	79		76	
	Total Dissolved Solids (TDS)	460		250	
	Phosphorus, Total	0.26		0.17	
Group B Parameters	Aluminum	0.47		1.5	
	Iron	3.7		5.4	
	Copper, Total Recoverable (TR)	< 0.0030		0.0049	
	Lead (TR)	0.00093		0.0058	
	Zinc (TR)	0.015		0.035	
Group C Parameters	Total Nitrogen (as N)	< 1.1		< 1.1	
	TKN	1.1		0.91	
	Nitrate Nitrogen (as N)	< 0.033		0.12	
	Nitrite Nitrogen (as N)	< 0.033		< 0.033	
	Ammonia Nitrogen (as NH3)	0.22		0.19	
	Cadmium, TR	< 0.00030		< 0.00030	
	Chromium, TR	< 0.0010		0.0019	
	Hexavalent Chromium, TR	< 0.0050		< 0.0050	
	Selenium, TR	< 0.0020		< 0.0020	
	Vanadium, TR	< 0.0010		0.0025	
	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	N.R.		N.R.		
Flow	Total Flow, gallons	N.R.		490,000	
	Maximum Flow rate, gallons per minute	4,500		N.R.	
	Method of flow measurement	Staff Gauge			
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/16/19		10/16/19	
	Duration of storm event, in minutes	N.R.		960	Rain started at 0900 EDT on 10/16/19 and ended at 0100 EDT on 10/17/19.
	Date and Time of sample collection	10/16/19 1020		10/16/19 1300	
	Sampling Duration (Minutes)	Instantaneous		180	
	Total rainfall during sampling event, in inches	N.R.		0.69	An additional 0.29 inches was recorded after sampling was completed for a storm event total of 0.98 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.		37	Precipitation of 0.22 inches was recorded on 10/14/19 at 2015 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, 2019**

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	< 1.5	N.R.	15 mg/L
	BOD-5	4.2	1.8	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	110	23	
	Total Dissolved Solids (TDS)	420	340	
	Phosphorus, Total	1.1	0.21	
Group B Parameters	Aluminum	0.41	0.16	
	Iron	18	5.5	
	Copper, Total Recoverable (TR)	< 0.0030	< 0.0030	
	Lead (TR)	0.0017	< 0.00050	
	Zinc (TR)	0.022	0.0066	
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)	< 0.013	0.014	
	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.	130,000	
	Maximum Flow rate, gallons per minute	4,400	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/16/19	10/16/19	
	Duration of storm event, in minutes	N.R.	960	Rain started at 0900 EDT on 10/16/19 and ended at 0100 EDT on 10/17/19.
	Date and Time of sample collection	10/16/19 1035	10/16/19 1315	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.69	An additional 0.29 inches was recorded after sampling at this outfall was completed for a storm total of 0.98 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	37	Precipitation of 0.22 inches was recorded on 10/14/19 at 2015 EDT. There was no flow at the outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S12/Duplicate
Monitoring Period: July 1 through December 31, 2019**

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	7.2/7.2 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.6 / 2.0	N.R.	15 mg/L
	BOD-5	3.2 / 3.4	4.7	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	140 / 160	38	
	Total Dissolved Solids (TDS)	870 / 720	440	
	Phosphorus, Total	0.26	0.23	
Group B Parameters	Aluminum	0.62 / 0.62	1.5	
	Iron	1.4 / 1.5	3.4	
	Copper, Total Recoverable (TR)	0.0060 / 0.0072	0.0061	
	Lead (TR)	0.0029 / 0.0024	0.0038	
	Zinc (TR)	0.059 / 0.070	0.038	
Group C Parameters	Total Nitrogen (as N)	< 3.5 / < 2.8	< 1.1	
	TKN	3.3 / 2.7	0.84	
	Nitrate Nitrogen (as N)	0.11 / 0.11	0.25	
	Nitrite Nitrogen (as N)	< 0.033 / < 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.45 / 0.31	0.12	
	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 < 0.0000067	< 0.0000064	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	21	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	53,000	
	Maximum Flow rate, gallons per minute	440	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/16/19	10/16/19	
	Duration of storm event, in minutes	N.R.	960	Rain started at 0900 EDT on 10/16/19 and ended at 0100 EDT on 10/17/19.
	Date and Time of sample collection	10/16/19 1030	10/16/19 1320	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.70	An additional 0.28 inches was recorded after sampling was completed for a storm total of 0.98 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	37	Precipitation of 0.22 inches was recorded on 10/14/19 at 2015 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: July 1 through December 31, 2019**

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	1.9	N.R.	15 mg/L
	BOD-5	< 2.0	2.3	Not specified in permit. N.R. = Nor Required.
	Total Suspended Solids (TSS)	180	83	
	Total Dissolved Solids (TDS)	310	300	
	Phosphorus, Total	0.25	0.19	
Group B Parameters	Aluminum	0.65	0.31	
	Iron	1.6	0.66	
	Copper, Total Recoverable (TR)	0.0045	0.0037	
	Lead (TR)	0.0088	0.0054	
	Zinc (TR)	0.055	0.030	
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)	0.086	0.014	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Paraquat Dichloride	< 0.002	N.R.	
Flow	Total Flow, gallons	N.R.	1,200,000	
	Maximum Flow Rate, gallons per minute	10,000	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/3/19	10/3/19	
	Duration of storm event, in minutes	N.R.	975	Rain started at 0500 EDT on 10/3/19 and ended at 2115 EDT on 10/3/19.
	Date and Time of sample collection	10/3/19 0815	10/3/19 1100	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.27	An additional 0.06 inches was recorded after sampling at this outfall was completed for a storm total of 0.33 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	22	Precipitation of 0.44 inches was recorded on 10/2/19 at 0715 EDT. Outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S14
Monitoring Period: July 1 through December 31, 2019**

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	6.8 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.6	N.R.	15 mg/L
	BOD-5	4.4	4.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	41	20	
	Total Dissolved Solids (TDS)	450	360	
	Phosphorus, Total	0.17	0.12	
Group B Parameters	Aluminum	0.17	0.19	
	Iron	3.5	2.5	
	Copper, Total Recoverable (TR)	< 0.0030	< 0.0030	
	Lead (TR)	0.00070	0.00064	
	Zinc (TR)	0.012	0.0070	
Group C Parameters	Total Nitrogen (as N)	< 2.4	< 1.8	
	TKN	2.3	1.7	
	Nitrate Nitrogen (as N)	0.090	0.087	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	1.0	0.81	
	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	< 0.0010	< 0.0010	
	Surfactant (as LAS)	0.032	0.015	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.1	0.3	
	Sulfide	< 0.033	< 0.033	
Paraquat Dichloride	N.R.	N.R.		
Flow	Total Flow, gallons	N.R.	85	
	Maximum Flow rate, gallons per minute	2.6	N.R.	
	Method of flow measurement	Weir		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/13/19	08/13/19	
	Duration of storm event, in minutes	N.R.	405	Rain started at 0445 EDT on 8/13/19 and ended at 1130 EDT on 8/13/19.
	Date and Time of sample collection	08/13/19 1130	08/13/19 1150	
	Sampling Duration (Minutes)	Instantaneous	30	
	Total rainfall during sampling event, in inches	N.R.	0.54	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	98	Precipitation of 0.14 inches was recorded on 8/9/19 at 0315 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, 2019**

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	8.0 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	5.1	3.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	220	360	
	Total Dissolved Solids (TDS)	380	480	
	Phosphorus, Total	0.42	0.35	
Group B Parameters	Aluminum	0.48	0.76	
	Iron	0.76	1.1	
	Copper, Total Recoverable (TR)	0.0050	0.0055	
	Lead (TR)	0.0048	0.0033	
	Zinc (TR)	0.14	0.037	
Group C Parameters	Total Nitrogen (as N)	< 1.8	< 1.3	
	TKN	1.6	1.3	
	Nitrate Nitrogen (as N)	0.13	0.064	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.23	0.13	
	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	< 0.0010	< 0.0010	
	Surfactant (as LAS)	< 0.025	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.5	0.1	
	Sulfide	< 0.033	< 0.033	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	3,300	
	Maximum Flow rate, gallons per minute	34	N.R.	
	Method of flow measurement	Staff gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/22/19	10/22/19	
	Duration of storm event, in minutes	N.R.	900	Rain started at 0645 EDT on 10/22/19 and ended at 2145 EST on 10/22/19.
	Date and Time of sample collection	10/22/19 1045	10/22/19 1325	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.34	An additional 0.29 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.	102	Precipitation of 0.65 inches was recorded on 10/18/19 at 0100 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, 2019**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	8.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	2.0	N.R.	15 mg/L
	BOD-5	5.4	1.2	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	7.8	7.9	
	Total Dissolved Solids (TDS)	5.7	61	
	Phosphorus, Total	0.038	0.043	
Group B Parameters	Aluminum	0.093	0.18	
	Iron	0.16	0.22	
	Copper, Total Recoverable (TR)	< 0.0030	< 0.0030	
	Lead (TR)	< 0.00050	< 0.00050	
	Zinc (TR)	0.0082	0.0065	
Group C Parameters	Total Nitrogen (as N)	< 0.55	< 0.38	
	TKN	0.32	0.22	
	Nitrate Nitrogen (as N)	0.20	0.13	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.17	0.16	
	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)	< 0.025	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	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	1,800	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/22/19	10/22/19	
	Duration of storm event, in minutes	N.R.	900	Rain started at 0645 EDT on 10/22/19 and ended at 2145 EDT on 10/22/18.
	Date and Time of sample collection	10/22/19 0915	10/22/19 1200	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.32	An additional 0.31 inches was recorded after sampling at this outfall 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.	102	Precipitation of 0.65 inches was recorded on 10/18/18 at 0100 EDT. Base flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S35
Monitoring Period: July 1 through December 31, 2019**

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.6 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.5	N.R.	15 mg/L
	BOD-5	2.5	1.9	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	170	36	
	Total Dissolved Solids (TDS)	280	230	
	Phosphorus, Total	0.27	0.076	
Group B Parameters	Aluminum	0.75	0.47	
	Iron	1.4	0.79	
	Copper, Total Recoverable (TR)	0.0040	< 0.0030	
	Lead (TR)	0.019	0.0043	
	Zinc (TR)	0.035	0.020	
Group C Parameters	Total Nitrogen (as N)	< 1.8	< 1.0	
	TKN	1.5	0.83	
	Nitrate Nitrogen (as N)	0.30	0.14	
	Nitrite Nitrogen (as N)	< 0.033	< 0.033	
	Ammonia Nitrogen (as NH3)	0.15	0.13	
	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	< 0.013	
	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.	31,000	
	Maximum Flow rate, gallons per minute	300	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	08/13/19	08/13/19	
	Duration of storm event, in minutes	N.R.	405	Rain started at 0445 EDT on 8/13/19 and ended at 1130 EDT on 8/13/19.
	Date and Time of sample collection	08/13/19 1130	08/13/19 1410	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.54	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	98	Precipitation of 0.14 inches was recorded on 8/9/19 at 0315 EDT. There was no flow at outfall upon arrival.