CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Bridget M. Purdy, Contracting Officer
U. S. Department of Energy
West Valley Demonstration Project
10282 Rock Springs Road
West Valley, New York 14171-9799

AC-PRES
WD:2017:0733
July 27, 2017

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Reports (DMR)

Dear Ms. Purdy:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period June 1 through June 30, 2017 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 January 1, 2017 through June 30, 2017, as well as the Whole Effluent Toxicity (WET) testing results completed in April 2017.

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

Sincerely,

Scott A. Anderson for

Jeffrey D. Bradford
President & General Manager

JDB:WNK:bnj

Attachments:
A) SPDES DMR for June 1 – 30, 2017
B) Storm Water Monitoring Results
C) WET Testing Summary Pages
D) Email Confirmation from NYSDEC

cc:
B. C. Bower, DOE-WVDP
S. A. Anderson, CHBWV
J. J. Baker, CHBWV
J. L. Casper, CHBWV
C. Dayton, CHBWV (Public Reading Room)
N. Feher, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
C. B. Lee, CHBWV
L. J. Ortega, CHBWV
D. H. Pritchard, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1630358

Attachment A
SPDES DMR

State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2017, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2017 through June 30, 2017

The West Valley Demonstration Project's SPDES DMR for the reporting period June 1 through June 30, 2017 including the Net Iron calculation sheet has been provided electronically.

CHBWV is also submitting for your use, analytical results and data for the semi-annual storm water monitoring period of January 1, 2017 through June 30, 2017, 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 May 25, June 15, June 19, and June 26, 2017. The on-site pH, measured near the site's rain gauge on each of these dates was: 8.3 SU; 7.8 SU; 7.8 S.U.; and 8.0 SU respectively.

In addition, semi-annual lead sampling was completed on May 25, 2017 at storm water outfall S-43 located at the Live Fire Range with reported results of 0.015 mg/L, with an action level of 0.006 mg/L. Although this result is above the action level, the drainage ditch that runs along the eastern border of the range was recently regraded prior to the storm water sampling event and it is believe that the significant amount of sediment in the sample biased this result high. During the second semi-annual sampling period for total lead, an additional sample will also be collected and analyzed for dissolved lead.

Storm water sampling conducted on June 19, 2017 included outfalls S04; S06; and S09. Please note that the duration between storm events was less than the 72 hours as normally required, however each of the outfalls had minimal flow above normal conditions. As the time frame for sampling was coming to a close, the decision was made to sample the June 19, 2017 storm event.

Storm water outfall S34 was not collected during the June 19, 2017 event because the flow at this outfall did not increase in volume. Outfall S34 was collected on June 26, 2017. Please note that the duration between storm events was less than the 72 hours as normally required, however the outfall had minimal flow above normal conditions. As the time frame for sampling was coming to a close, the decision was made to sample the June 26, 2017 storm event.

Please note that, in accordance with the Schedule of Compliance sampling requirements contained on page 23 of 31 for Paraquat Dichloride Herbicide (Gramoxone Extra), the site has not used herbicides during this storm water monitoring period of January 1 through June 30, 2017, and therefore, storm water outfalls were not analyzed for Paraquat Dichloride.

WET testing was completed at outfall 001 in April 2017. In regards to the Whole Effluent Toxicity (WET) testing results for outfall 001, the complete test report was previously reported to Ms. Nicole Wright in a letter dated June 28, 2017. In that letter it was noted that the test results for *Ceriodaphnia dubia* were within permit limits. Test results for *Pimephales promelas* were within the acute limits, but outside of the chronic limits and therefore, the reported result of 2 is above the action level of 1. As stated in the original test report letter, results have been certified by both the testing laboratory and permittee. Mortality observed in the chronic test for *Pimephales promelas* is consistent with pathogen (fungus) interference as described in the test reference manual. An indicator of this interference, sporadic mortality, was observed in the 100% effluent concentration, with survival of 0%, 20%, 90% and 100% for the four replicates used for the test.

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 06/01/17 to 06/30/17**	**DMR Due Date:**	**07/28/17**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	717-942-4368
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			
00154	Sulfate [as S]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	22 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	CA - CALCTD
					Value NODI									C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	3 MINIMUM				Req Mon MAXIMUM	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	10 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU		01/BA - Once Per Batch	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.3 DAILY MX	25 - mL/L		02/BA - Twice Per Batch	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	15 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.4 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.15 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.005 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.004 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				

01105	Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample														
					Permit Req.									<=	2 MO AVG	<=	4 DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Value NODI										C - No Discharge		C - No Discharge				
01128	Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample														
					Permit Req.										Req Mon MO AVG	<=	.014 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Value NODI										C - No Discharge		C - No Discharge				
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample														
					Permit Req.									<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Value NODI										C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										02/BA - Twice Per Batch	CN - CONTIN
					Value NODI		C - No Discharge		C - No Discharge												
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample														
					Permit Req.										Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Value NODI										C - No Discharge		C - No Discharge				
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample														
					Permit Req.										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB
					Value NODI										C - No Discharge		C - No Discharge				
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample														
					Permit Req.									<=	50 MO AVG		Req Mon DAILY MX	3M - ng/L		01/BA - Once Per Batch	GR - GRAB
					Value NODI										C - No Discharge		C - No Discharge				
81646	Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample														
					Permit Req.										Req Mon MO AVG	<=	.04 DAILY MX	19 - mg/L		01/BA - Once 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

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 this DMR are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501.

Attachments

Name	Type	Size
WVDP_2017_STORMWATER_DATA.pdf	pdf	141503
WVDP_June_2017_DMR_Synopsis.pdf	pdf	70004

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

DMR Copy of Record

Permit					
Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	001 External Outfall	**Discharge:**	**001-S** OUTFALL 001 SEMI-ANNUAL		
Report Dates & Status					
Monitoring Period:	**From 01/01/17 to 06/30/17**	**DMR Due Date:**	**07/28/17**	**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			
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--	Sample								<	0.005	<	0.005	19 - mg/L		02/YR - Twice Per Year	GR - GRAB
					Permit Req.									Req Mon MO AVG	<=	.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								=	0.05	=	0.05	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	2 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								=	0.0021	=	0.0021	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.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								=	0.0075	=	0.0075	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.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								=	0.0003	=	0.0003	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.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								=	0.0011	=	0.0011	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.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								=	0.0024	=	0.0024	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.									Req Mon MO AVG	<=	.014 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
39410	Heptachlor	1 - Effluent Gross	0	--	Sample								<	0.007	<	0.007	28 - ug/L		02/YR - Twice Per Year	GR - GRAB
					Permit Req.								<=	.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 this DMR is as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501.

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

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 01/01/17 to 06/30/17**	**DMR Due Date:**	**07/28/17**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	717-942-4368
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			
01022	Boron, total [as B]	V - See Comments	0	--	Sample										=	0.056	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	2 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
01152	Titanium, total [as Ti]	V - See Comments	0	--	Sample										<	0.0011	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	.65 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					Value NODI															
71870	Bromide [as Br]	V - See Comments	0	--	Sample										<	0.37	19 - mg/L		02/YR - Twice Per Year	24 - COMP24
					Permit Req.										<=	5 DAILY MX	19 - mg/L	0	02/YR - Twice Per Year	24 - COMP24
					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 this DMR is as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501.

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

DMR Copy of Record

Permit

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

Report Dates & Status

Monitoring Period:	**From 04/01/17 to 06/30/17**	**DMR Due Date:**	**08/28/17**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING 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			
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample										=	0.3	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	.3 MAXIMUM	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Value NODI															
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample										=	1	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	1 MAXIMUM	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
					Value NODI															
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample										=	0.3	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	.3 MAXIMUM	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Value NODI															
X 61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample										=	2	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	1 MAXIMUM	2G - tox chronic	1	01/90 - Quarterly	24 - COMP24
					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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

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 this DMR is as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Please note that the Whole Effluent Toxicity (WET) Testing report has been sent under separate cover to the NYSDEC Toxicity Unit. The chronic toxicty test results for the Pimephales promelas failed due to a possible pathogen (fungus) interference.

Attachments

Name	Type	Size
Whole_Effluent_Toxicty_Summary_Apr_17.pdf	pdf	110195

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

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

Report Dates & Status

Monitoring Period:	**From 06/01/17 to 06/30/17**	**DMR Due Date:**	**07/28/17**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	717-942-4368
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			
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	22 DAILY MX	19 - mg/L		01/30 - Monthly	CA - CALCTD
					Value NODI									C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	3 MINIMUM				Req Mon MAXIMUM	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	10 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample															
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.3 DAILY MX	25 - mL/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	15 DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/30 - Monthly	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample															
					Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L		02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample															
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									01/30 - Monthly	CN - CONTIN
					Value NODI		C - No Discharge		C - No Discharge											
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L		01/30 - Monthly	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge				
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - GRAB
					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 DAILY MX	3M - ng/L		01/30 - Monthly	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@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

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 06/01/17 to 06/30/17**	**DMR Due Date:**	**07/28/17**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	717-942-4368
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														01/30 - Monthly	CA - CALCTD
					Permit Req.									Req Mon MO AVG	<=	1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
Net_Iron_Effluent_Concentration_Calculation_Jun_17.pdf	pdf	35293

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

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 06/01/17 to 06/30/17**	**DMR Due Date:**	**07/28/17**	**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:**	717-942-4368
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			
					Sample															
70295	Solids, total dissolved	Z - Instream Monitoring	0	--	Permit Req.									Req Mon MO AVG	<=	500 DAILY MX	19 - mg/L		02/DS - Twice Per Discharge	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

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

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 06/01/17 to 06/30/17**	**DMR Due Date:**	**07/28/17**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
Principal Executive Officer					
First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	717-942-4368
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			
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 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@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

DMR Copy of Record

Permit

Permit #:	**NY0000973**	**Permittee:**	U.S. DEPT OF ENERGY	**Facility:**	WEST VALLEY DEMONSTRATION PROJ
Major:	Yes	**Permittee Address:**	1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585	**Facility Location:**	10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
Permitted Feature:	007 External Outfall	**Discharge:**	**007-W** OUTFALL 007 WET TESTING QUARTERLY		

Report Dates & Status

Monitoring Period:	**From 04/01/17 to 06/30/17**	**DMR Due Date:**	**08/28/17**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

SEE PERMIT FOOTNOTES FOR WET TESTING REQUIREMENTS

Principal Executive Officer

First Name:	Bryan C.	**Title:**	Director, USDOE-WVDP	**Telephone:**	717-942-4368
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			
61425	Toxicity [acute], Ceriodaphnia dubia	V - See Comments	0	--	Sample															
					Permit Req.										<=	.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				
61426	Toxicity [chronic], Ceriodaphnia dubia	V - See Comments	0	--	Sample															
					Permit Req.										<=	1 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				
61427	Toxicity [acute], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample															
					Permit Req.										<=	.3 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				
61428	Toxicity [chronic], Pimephales promelas [Fathead Minnow]	V - See Comments	0	--	Sample															
					Permit Req.										<=	1 MAXIMUM	2G - tox chronic		01/90 - Quarterly	24 - COMP24
					Value NODI											C - No Discharge				

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-07-26 16:50 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2017
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

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

X1 = 0.00 mg/L

X2 = 0.00 mg/L

V1 = 0.00 L/month

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

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

X1 = 0.00 mg/L

X2 = 0.00 mg/L

V7 = 0.00 L/month

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

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

X1 = 0.00 mg/L

X2 = 0.00 mg/L

X3 = 0.00 mg/L

X4 = 0.00 mg/L

VRW = 0.00 L/month

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

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

Attachment B
Storm Water Monitoring Results

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: January 1 through June 30, 2017

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)	28	27	
	Total Dissolved Solids (TDS)	340	270	
	Phosphorus, Total	0.16	0.061	
Group B Parameters	Aluminum	1.2	1.4	
	Iron	1.5	1.5	
	Copper, Total Recoverable (TR)	0.0034	0.0042	
	Lead (TR)	0.0026	0.0013	
	Zinc (TR)	0.014	0.015	
Group C Parameters	Total Nitrogen (as N)	< 0.48	0.48	
	TKN	0.40	0.35	
	Nitrate Nitrogen (as N)	0.059	0.10	
	Nitrite Nitrogen (as N)	< 0.020	0.029	
	Ammonia Nitrogen (as NH3)	0.035	0.029	
	Cadmium, TR	< 0.000071	< 0.000071	
	Chromium, TR	0.0013	0.0017	
	Hexavalent Chromium, TR	< 0.0050	< 0.0050	
	Selenium, TR	< 0.00044	< 0.00044	
	Vanadium, TR	< 0.0012	< 0.0012	
	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.	330,000	
	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	6/19/17	6/19/17	
	Duration of storm event, in minutes	N.R.	1260	Rain started at 0145 EDT on 6/19/17 and ended at 2245 EDT on 6/19/17.
	Date and Time of sample collection	6/19/17 1335	6/19/17 1615	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.39	An additional 0.02 inches fell after sampling was completed for 0.41 inches total.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	3	Precipitation of 1.26 inches was recorded on 6/18/17 at 2230 EDT. No flow above base flow upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S06
Monitoring Period: January 1 through June 30, 2017

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	< 1.4	N.R.	15 mg/L
	BOD-5	1.9	< 1.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	< 1.0	< 2.3	
	Total Dissolved Solids (TDS)	490	580	
	Phosphorus, Total	0.021	0.022	
Group B Parameters	Aluminum	< 0.0068	< 0.0068	
	Iron	0.094	0.31	
	Copper, Total Recoverable (TR)	0.00072	0.00077	
	Lead (TR)	< 0.00050	< 0.00050	
	Zinc (TR)	< 0.0033	< 0.0033	
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	0.011	
	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.	10,000	
	Maximum Flow rate, gallons per minute	60	N.R.	
	Method of flow measurement	ISCO Flow Meter		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	06/19/17	06/19/17	
	Duration of storm event, in minutes	N.R.	1260	Rain started at 0145 EDT on 6/19/17 and ended at 2245 EDT on 6/19/17.
	Date and Time of sample collection	06/19/17 1340	06/19/17 1620	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.39	An additional 0.02 inches was recorded after sampling was completed for a storm total of 0.41 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	3	Precipitation of 1.26 inches was recorded on 6/18/17 at 2230 EDT. Outfall was above base flow conditions.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S09
Monitoring Period: January 1 through June 30, 2017

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	8.5 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.4	N.R.	15 mg/L
	BOD-5	5.7	2.9	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	17	470	
	Total Dissolved Solids (TDS)	210	210	
	Phosphorus, Total	0.050	0.81	
Group B Parameters	Aluminum	0.19	12	
	Iron	0.26	18	
	Copper, Total Recoverable (TR)	0.0058	0.029	
	Lead (TR)	0.00037	0.014	
	Zinc (TR)	0.0091	0.12	
Group C Parameters	Total Nitrogen (as N)	1.8	4.4	
	TKN	1.7	1.7	
	Nitrate Nitrogen (as N)	0.12	2.6	
	Nitrite Nitrogen (as N)	0.023	0.12	
	Ammonia Nitrogen (as NH3)	0.060	0.18	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	< 0.0000067	< 0.0000067	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	9.4	N.R.	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	315,000	
	Maximum Flow rate, gallons per minute	7600	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/19/17	6/19/17	
	Duration of storm event, in minutes	N.R.	1260	Rain started at 0145 EDT on 6/19/17 and ended at 2245 EDT on 6/19/17.
	Date and Time of sample collection	6/19/17 1330	6/19/17 1615	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.39	An additional 0.02 inches was recorded after sampling ended for a storm total of 0.41 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	3	Precipitation of 1.26 inches was recorded on 6/18/17 at 2230 EDT. Slight flow above base flow upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34/DUPLICATE
Monitoring Period: January 1 through June 30, 2017

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	< 1.4 / < 1.6	N.R.	**15 mg/L**
	BOD-5	< 2.0 / < 2.0	< 2.0	**Not specified in permit. N.R. = Nor Required.**
	Total Suspended Solids (TSS)	78 / 73	80	
	Total Dissolved Solids (TDS)	270 / 260	240	
	Phosphorus, Total	0.13 / 0.13	0.14	
Group B Parameters	Aluminum	2.6 / 2.7	1.5	
	Iron	3.4 / 3.4	1.6	
	Copper, Total Recoverable (TR)	0.0043 / 0.0043	0.0046	
	Lead (TR)	0.0025 / 0.0025	0.0028	
	Zinc (TR)	0.053 / 0.054	0.043	
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)	0.021 / 0.015	0.029	
	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.	55,000	
	Maximum Flow rate, gallons per minute	1,200	N.R.	
	Method of flow measurement	**Staff Gauge**		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/26/17	6/26/17	
	Duration of storm event, in minutes	N.R.	375	**Rain started at 0945 EDT on 6/26/17 and ended at 1600 EDT on 6/26/17.**
	Date and Time of sample collection	6/26/17 1000	6/26/17 1245	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.30	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	18	**Precipitation of 0.20 inches was recorded on 6/25/17 at 1545 EDT. Outfall was at base flow conditions.**

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S28
Monitoring Period: January 1 through June 30, 2017

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	7.7 S.U.	N.R.	Not specified in permit.
	Oil and Grease	1.5	N.R.	15 mg/L
	BOD-5	< 2.0	< 3.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	200	260	
	Total Dissolved Solids (TDS)	450	230	
	Phosphorus, Total	0.37	0.41	
Group B Parameters	Aluminum	12	13	
	Iron	13	14	
	Copper, Total Recoverable (TR)	0.018	0.019	
	Lead (TR)	0.012	0.013	
	Zinc (TR)	0.076	0.082	
Group C Parameters	Total Nitrogen (as N)	1.2	0.96	
	TKN	1.0	0.87	
	Nitrate Nitrogen (as N)	0.19	0.074	
	Nitrite Nitrogen (as N)	0.020	0.020	
	Ammonia Nitrogen (as NH3)	0.045	0.034	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	0.0085	0.0090	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.3	0.7	
	Sulfide	< 0.050	< 0.050	
	Paraquat Dichloride	N. R.	N. R.	
Flow	Total Flow, gallons	N.R.	260,000	
	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	5/25/17	5/25/17	
	Duration of storm event, in minutes	N.R.	525	Rain started at 0245 EDT on 5/25/17 and ended at1130 EDT on 5/25/17.
	Date and Time of sample collection	5/25/17 0750	5/25/17 1030	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.68	An additional 0.07 inches was recorded after sampling ended for a storm total of 0.75 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	78	Precipitation of 0.21 inches was recorded on 5/21/17 at 2115 EDT. No flow at outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S41
Monitoring Period: January 1 through June 30, 2017

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	1.9	N.R.	15 mg/L
	BOD-5	2.9	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	300	670	
	Total Dissolved Solids (TDS)	730	390	
	Phosphorus, Total	0.42	1.1	
Group B Parameters	Aluminum	13	29	
	Iron	14	32	
	Copper, Total Recoverable (TR)	0.013	0.026	
	Lead (TR)	0.0057	0.011	
	Zinc (TR)	0.18	0.083	
Group C Parameters	Total Nitrogen (as N)	1.4	< 1.5	
	TKN	1.3	1.5	
	Nitrate Nitrogen (as N)	0.044	< 0.020	
	Nitrite Nitrogen (as N)	0.025	0.027	
	Ammonia Nitrogen (as NH3)	0.050	0.038	
	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	0.011	0.022	
	Surfactant (as LAS)	< 0.013	< 0.013 "R" *	
	Alpha BHC	N.R.	N.R.	* Surfactant was flagged "R" unreliable in the data validation process.
	Settleable Solids	2.2	1.1	
	Sulfide	< 0.050	< 0.050	
	Paraquat Dichloride	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	20,000	
	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	5/25/17	5/25/17	
	Duration of storm event, in minutes	N.R.	525	Rain started at 0245 EDT on 5/25/17 and ended at 1130 EDT on 5/25/17.
	Date and Time of sample collection	5/25/17 0820	5/25/17 1100	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.72	An additional 0.03 inches was recorded after sampling ended for a storm total of 0.75 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	78	Precipitation of 0.21 inches was recorded on 5/21/17 at 2115 EDT. No flow at outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: January 1 through June 30, 2017

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	< 1.4	N.R.	15 mg/L
	BOD-5	16	3.9	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	480	39	
	Total Dissolved Solids (TDS)	220	30	
	Phosphorus, Total	0.56	0.068	
Group B Parameters	Aluminum	11	1.2	
	Iron	14	1.2	
	Copper, Total Recoverable (TR)	0.015	0.0023	
	Lead (TR)	0.0080	0.00096	
	Zinc (TR)	0.078	0.0096	
Group C Parameters	Total Nitrogen (as N)	8.2	2.1	
	TKN	4.1	1.2	
	Nitrate Nitrogen (as N)	4.0	0.85	
	Nitrite Nitrogen (as N)	0.11	0.041	
	Ammonia Nitrogen (as NH3)	0.77	0.29	
	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)	0.023	0.024	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	<0.050	< 0.050	
Flow	Total Flow, gallons	N.R.	83,000	
	Maximum Flow rate, gallons per minute	710	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/15/17	6/15/17	
	Duration of storm event, in minutes	N.R.	120	Rain started at 1630 EDT on 6/15/17 and ended at 1830 EDT on 6/15/17.
	Date and Time of sample collection	6/15/17 1700	6/15/17 1950	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.19	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	212	Precipitation of 0.62 inches was recorded on 6/6/17 at 2015 EDT. Base flow at outfall upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S27
Monitoring Period: January 1 through June 30, 2017

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	2.0	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	95	120	
	Total Dissolved Solids (TDS)	220	160	
	Phosphorus, Total	0.15	0.22	
Group B Parameters	Aluminum	6.9	6.4	
	Iron	5.7	5.3	
	Copper, Total Recoverable (TR)	0.0065	0.0066	
	Lead (TR)	0.0056	0.0062	
	Zinc (TR)	0.025	0.028	
Group C Parameters	Total Nitrogen (as N)	1.1	0.84	
	TKN	0.96	0.76	
	Nitrate Nitrogen (as N)	0.12	0.052	
	Nitrite Nitrogen (as N)	0.027	0.026	
	Ammonia Nitrogen (as NH3)	0.059	0.041	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.020	0.014	
	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.	32,000	
	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	5/25/17	5/25/17	
	Duration of storm event, in minutes	N.R.	525	Rain started at 0245 EDT on 5/25/17 and ended at 1130 EDT on 5/25/17.
	Date and Time of sample collection	5/25/17 0755	5/25/17 1040	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.70	An additional 0.05 inches was recorded after sampling ended for a storm total of 0.75 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	78	Precipitation of 0.21 inches was recorded on 5/21/17 at 2115 EDT. There was no flow at outfall upon arrival.

Attachment C
WET Testing Summary Pages

NEW ENGLAND BIOASSAY, A DIVISION OF GZA EPA TEST SUMMARY SHEET

Facility Name: West Valley Demonstration Project Test Start Date: 4/11/17
NPDES Permit Number: NY0000973 Pipe Number: 001

Test Type	Test Species	Sample Type	Sample Method
_ Acute	_ Fathead Minnow	_ Prechlorinated	_ Grab
_ Chronic	XCeriodaphnia	_ Dechlorinated	XComposite
XModified (chronic reporting acute values)	_ Daphnia Pulex	_ Chlorine Spiked in Lab	_ Flowthru
_ 24hr screening	_ Mysid Shrimp	_ Chlorinated on site	_ Other
	_ Sheepshead	XUnchlorinated	
	_ Menidia		
	_ Sea Urchin		
	_ Champia	TRC: 0.015 mg/L	
	_ Selenastrum		

Dilution Water

_ receiving water collected at a point upstream of or away from the discharge, free from toxicity or other sources of contamination; (Receiving water name: Erdman Brook)
_ alternate surface water of known quality and a hardness, etc. to generally reflect the characteristics of the receiving water; (Surface water name:_____)
X synthetic water prepared using either Millipore Mill-Q or equivalent deionized water and reagent grade chemicals; or deionized water combined with mineral water;
_ or artificial sea salts mixed with deionized water;
_ deionized water and hypersaline brine; or

Effluent sampling date (s): 4/9-10/17 4/10-11/17

Effluent concentrations tested (in%): 0 6.25 12.5 25 50 100
* Permit limit concentration: TUa ≤ 0.3, TUc ≤ 1.0

Was effluent salinity adjusted? No

Actual effluent concentrations tested after salinity adjustment (%): 0 6.25 12.5 25 50 100

Reference Toxicant test date: 4/3/17

Test Acceptability Criteria

Mean Control Survival: 100%
Mean Diluent Survival: 100%
Mean Control Reproduction: 31.3 young/female
Mean Diluent Reproduction: 32.7 young/female

	Limits		Results
LC50	N/A	LC50	>100%
		Upper Value	±∞
		Lower Value	100%
		Data Analysis Method Used	Graphical
TUa	0.3	TUa	0.3
A-NOEC	N/A	A-NOEC	100%
C-NOEC	N/A	C-NOEC	100%
		LOEC	>100%
TUc	1.0	TUc	1.0
IC25	N/A	IC25	>100%
IC50	N/A	IC50	>100%

NEW ENGLAND BIOASSAY, A DIVISION OF GZA EPA TEST SUMMARY SHEET

Facility Name: West Valley Demonstration Project Test Start Date: 4/11/17
NPDES Permit Number: NY0000973 Pipe Number: 001

Test Type	Test Species	Sample Type	Sample Method
_ Acute	X Fathead Minnow	_ Prechlorinated	_ Grab
_ Chronic	_ Ceriodaphnia	_ Dechlorinated	X Composite
X Modified (chronic reporting acute values)	_ Daphnia Pulex	_ Chlorine Spiked in Lab	_ Flowthru
	_ Mysid Shrimp	_ Chlorinated on site	_ Other
_ 24hr screening	_ Sheepshead	X Unchlorinated	
	_ Menidia		
	_ Sea Urchin		
	_ Champia	TRC: 0.015 mg/L	
	_ Selenastrum		

Dilution Water

_ receiving water collected at a point upstream of or away from the discharge, free from toxicity or other sources of contamination; (Receiving water name: Erdman Brook)

_ alternate surface water of known quality and a hardness, etc. to generally reflect the characteristics of the receiving water; (Surface water name:_____)

X synthetic water prepared using either Millipore Mill-Q or equivalent deionized water and reagent grade chemicals; or deionized water combined with mineral water;

_ or artificial sea salts mixed with deionized water;

_ deionized water and hypersaline brine; or

Effluent sampling date (s): 4/9-10/17 4/10-11/17

Effluent concentrations tested (in%): 0 6.25 12.5 25 50 100
* Permit limit concentration: TUa ≤ 0.3, TUc ≤ 1.0

Was effluent salinity adjusted? No

Actual effluent concentrations tested after salinity adjustment (%): 0 6.25 12.5 25 50 100

Reference Toxicant test date: 4/3/17

Test Acceptability Criteria

Mean Control Survival: 92.5% Mean Control Weight: 0.530 mg
Mean Diluent Survival: 100% Mean Diluent Weight: 0.616 mg

	Limits		Results
LC50	N/A	LC50	>100%
		Upper Value	±∞
		Lower Value	100%
		Data Analysis Method Used	Graphical
TUa	0.3	TUa	0.3
A-NOEC	N/A	A-NOEC	100%
C-NOEC	N/A	C-NOEC	50%
		LOEC	100%
TUc	1.0	TUc	2.0
IC25	N/A	IC25	73.2%
IC50	N/A	IC50	>100%