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:2017:0897
September 18, 2017

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (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 August 1 through August 31, 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 Whole Effluent Toxicity (WET) testing completed in July 2017.

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

Sincerely,

Jeffrey D. Bradford
President & General Manager

JDB:WNK:bnj

Attachments:
A) SPDES DMR for August 1 – August 31, 2017
B) WET Testing Summary Pages
C) 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 #1630332

Attachment A
SPDES DMR

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 08/01/17 to 08/31/17**	**DMR Due Date:**	**09/28/17**	**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			
01045	Iron, total [as Fe]	2 - Effluent Net	0	--	Sample															
					Permit Req.									Req Mon MO AVG	<=	1 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-AUGUST-2017-NET-IRON-CALC.pdf	pdf	30356

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-09-18 08:58 (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 08/01/17 to 08/31/17**	**DMR Due Date:**	**09/28/17**	**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:**	716-942-4368
Last Name:	Bower				

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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

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Edit Check Errors

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Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-09-18 08:58 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

DMR Copy of Record

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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 08/01/17 to 08/31/17**	**DMR Due Date:**	**09/28/17**	**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			
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

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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:	2017-09-18 08:58 (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 08/01/17 to 08/31/17**	**DMR Due Date:**	**09/28/17**	**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			
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

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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:	2017-09-18 08:58 (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-M** OUTFALL 001 MONTHLY PROC WW, GW, STORM		
Report Dates & Status					
Monitoring Period:	**From 08/01/17 to 08/31/17**	**DMR Due Date:**	**09/28/17**	**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			
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

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Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2.5(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. Please note that the WVDP completed Whole Effluent Toxicity (WET) testing during the July 2017 monitoring period at outfall 001. As you will note, the testing results for the Ceriodaphnia dubia (Water Flea) failed the Chronic reporting limit. The complete WET testing report is currently being evaluated, and will be forwarded to Ms. Nicole Wright of NYSDEC's Toxicity Testing Unit upon the completion of the evaluation.

Attachments

Name	Type	Size
WVDP-JULY-2017-WHOLE-EFFLUENT-TOXICTY-SUMMARY-RESULTS.pdf	pdf	100403

Report Last Saved By

U.S. DEPT OF ENERGY

User:	william.kean@chbwv.com	Date/Time:	2017-09-18 08:58 (Time Zone: -04:00)
Name:	William Kean		
E-Mail:	william.kean@chbwv.com		

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - AUGUST 1 THROUGH AUGUST 31, 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
Whole Effluent Toxicity (WET)
Testing Summary Pages

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

Facility Name: West Valley Demonstration Project Test Start Date: 7/14/17
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	_ Daphnia Pulex	_ Chlorine Spiked in Lab	_ Flowthru
(chronic reporting	_ Mysid Shrimp	_ Chlorinated on site	_ Other
acute values)	_ Sheepshead	XUnchlorinated	
_ 24hr screening	_ 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): 7/12-13/17 7/16-17/17

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: 7/5/17

Test Acceptability Criteria

Mean Control Survival: 100% Mean Control Reproduction: 23.1 young/female
Mean Diluent Survival: 100% Mean Diluent Reproduction: 34.3 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	50%
		LOEC	100%
TUc	1.0	TUc	2.0
IC25	N/A	IC25	58.5%
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: 7/14/17
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	_ Daphnia Pulex	_ Chlorine Spiked in Lab	_ Flowthru
(chronic reporting	_ Mysid Shrimp	_ Chlorinated on site	_ Other
acute values)	_ Sheepshead	X Unchlorinated	
_ 24hr screening	_ 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): 7/12-13/17 7/16-17/17

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: 7/5/17

Test Acceptability Criteria

Mean Control Survival: 85% Mean Control Weight: 0.633 mg
Mean Diluent Survival: 95% Mean Diluent Weight: 0.672 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	100%
		LOEC	>100%
TUc	1.0	TUc	1.0
IC25	N/A	IC25	>100%
IC50	N/A	IC50	>100%