

CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Angela M. Cooney, Contracting Officer
U. S. Department of Energy
250 East 5th St., Suite 500
Cincinnati, OH 45202

AC-PRES
WD:2018:0291
March 20, 2018

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

Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period February 1 through February 28, 2018 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).

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:WKN:bnj

Attachments: A) SPDES DMR for February 1 – February 28, 2018
B) Email Confirmation from NYSDEC

cc: T. Taggart, DOE-EMCBC
B. C. Bower, DOE-WVDP
S. A. Anderson, CHBWV
J. J. Baker, CHBWV
J. L. Casper, CHBWV
N. Feher, CHBWV
L. K. Hollfelder, CHBWV
W. N. Kean, CHBWV
L. J. Ortega, CHBWV
J. T. Pillittere, CHBWV (Public Reading Room)
D. H. Pritchard, CHBWV
J. E. Wangelin, CHBWV
J. D. Williams, CHBWV
Letter Log (B. Jeffery), CHBWV
CHBWV OITS #1730252

Attachment A
SPDES DMR

DMR Copy of Record

Permit		Permittee:		Facility:	
Permit #:	NY0000973	U.S. DEPT OF ENERGY		WEST VALLEY DEMONSTRATION PROJ	
Major:	Yes	Permittee Address:		Facility Location:	
		1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585		10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799	
Permitted Feature:		Discharge:			
001 External Outfall		001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM			
Report Dates & Status		DMR Due Date:		Status:	
Monitoring Period: From 02/01/18 to 02/28/18		03/28/18		NetDMR Validated	
Considerations for Form Completion					
Principal Executive Officer					
First Name:		Title:		Telephone:	
Bryan C.		Director, USDOE-WVDP		716-942-4368	
Last Name:					
Bower					
No Data Indicator (NODI)					
Form NODI: -					

Code	Parameter Name	Monitoring Location	Season	# Param. NODI	Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00154	Sulfate [as S]	1 - Effluent Gross	0	-	Sample					=	77			=	77	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	-	Sample					<	6.04			<	6.38	19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD	
					Permit Req. Value NODI											19 - mg/L	02/BA - Twice Per Batch	CA - CALCTD	
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	-	Sample					=	11			=	15	19 - mg/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req. Value NODI					>=	3 MINIMUM					19 - mg/L	02/BA - Twice Per Batch	GR - GRAB	
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	-	Sample					<	2			<	2	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
00400	pH	1 - Effluent Gross	0	-	Sample					=	7.4			=	7.4	12 - SU	01/BA - Once Per Batch	GR - GRAB	
					Permit Req. Value NODI					>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU	01/BA - Once Per Batch	GR - GRAB	
00530	Solids, total suspended	1 - Effluent Gross	0	-	Sample					<=	4			<=	4	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
00545	Solids, settleable	1 - Effluent Gross	0	-	Sample					<	0.1			<	0.1	25 - mL/L	02/BA - Twice Per Batch	GR - GRAB	
					Permit Req. Value NODI											25 - mL/L	02/BA - Twice Per Batch	GR - GRAB	
00556	Oil & Grease	1 - Effluent Gross	0	-	Sample					=	1.9			=	1.9	19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	-	Sample					=	0.03			=	0.03	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	-	Sample					=	0.048			=	0.048	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	-	Sample					=	0.67			=	0.74	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	-	Sample					<	0.05			<	0.05	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
00978	Arsenic, total recoverable	1 - Effluent Gross	0	-	Sample					=	0.00073			=	0.00073	19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	24 - COMP24	
00979	Cobalt, total recoverable	1 - Effluent Gross	0	-	Sample					<	0.0006			<	0.0006	19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
00981	Selenium, total recoverable	1 - Effluent Gross	0	-	Sample					<	0.0004			<	0.0004	19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
					Permit Req. Value NODI											19 - mg/L	01/BA - Once Per Batch	GR - GRAB	
01045	Iron, total [as Fe]	1 - Effluent Gross	0	-	Sample					=	0.352			=	0.383	19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	
					Permit Req. Value NODI											19 - mg/L	02/BA - Twice Per Batch	24 - COMP24	

01105 Aluminum, total [as Al]	1 - Effluent Gross	0	--	Sample	=	0.139	=	0.139	19 - mg/L	01/BA - Once Per Batch 24 - COMP24
				Permit Req.	<=	2 MO AVG	<=	4 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24 - COMP24
				Value NODI						
01128 Vanadium, total recoverable	1 - Effluent Gross	0	--	Sample	<	0.0015	<	0.0015	19 - mg/L	01/BA - Once Per Batch GR - GRAB
				Permit Req.		Req Mon MO AVG	<=	.014 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
				Value NODI						
34726 Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample	=	0.19	=	0.2	19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
				Permit Req.	<=	1.5 MO AVG	<=	2.1 DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch 24 - COMP24
				Value NODI						
50050 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.217	=	0.267	03 - MGD	02/BA - Twice Per Batch CN - CONTIN
				Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD	02/BA - Twice Per Batch CN - CONTIN
				Value NODI					0	
50060 Chlorine, total residual	1 - Effluent Gross	0	--	Sample	=	0.02	=	0.02	19 - mg/L	01/BA - Once Per Batch GR - GRAB
				Permit Req.		Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
				Value NODI						
70285 Solids, total dissolved	1 - Effluent Gross	0	--	Sample	=	742	=	812	19 - mg/L	02/BA - Twice Per Batch GR - GRAB
				Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch GR - GRAB
				Value NODI						
71900 Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample	=	19	=	19	3M - ng/L	01/BA - Once Per Batch GR - GRAB
				Permit Req.	<=	50 MO AVG		Req Mon DAILY MX	3M - ng/L 0	01/BA - Once Per Batch GR - GRAB
				Value NODI						
81646 Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	--	Sample	=	0.01	=	0.01	19 - mg/L	01/BA - Once Per Batch GR - GRAB
				Permit Req.		Req Mon MO AVG	<=	.04 DAILY MX	19 - mg/L	01/BA - Once Per Batch 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 DMF'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: 2018-03-20 12:17 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-03-20 12:17 (Time Zone: -04:00)

DMR Copy of Record

Permit		Permittee:		Facility:	
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		DMR Due Date:	Status:		
Monitoring Period:	From 02/01/18 to 02/28/18	03/28/18	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	Session #	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
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00400	pH	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
50060	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
50090	Chlorine, total residual	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												
					Sample												
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample												
					Permit Req.												
					Value NODI												

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbvv.com
Name: William Kean
E-Mail: william.kean@chbvv.com
Date/Time: 2018-03-20 12:17 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbvv.com
Name: Janice Williams
E-Mail: janice.williams@chbvv.com
Date/Time: 2018-03-20 12:17 (Time Zone: -04:00)

DMR Copy of Record

Permit
 Permit #: NY0000973
 Major: Yes
 Permitted Feature: 01B Internal Outfall
 Report Dates & Status
 Monitoring Period: From 02/01/18 to 02/28/18
 Considerations for Form Completion
 Discharge: 01B-M MERCURY PRETREATMENT
 DMR Due Date: 03/28/18
 Status: NetDMR Validated
 Facility: WEST VALLEY DEMONSTRATION PROJ
 Facility Location: 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799
 Permittee: U.S. DEPT OF ENERGY
 Permittee Address: 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585

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

No Data Indicator (NODI)

Form NODI:

Parameter Code	Monitoring Location Name	Season	Param. NODI	Sample Permit Req. Value NODI	Quantity or Loading Qualifier 1 Value 1	Qualifier 2 Value 2	Units	Quality or Concentration Qualifier 1 Value 1	Qualifier 2 Value 2	Qualifier 3 Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00058 Flow rate	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon MO AVG	Req Mon DAILY MX	07 - gal/d						01/07 - Weekly	CN - CONTIN
				Sample Permit Req. Value NODI	C - No Discharge	C - No Discharge								
71900 Mercury, total [as Hg]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI				Req Mon MO AVG <=	50 DAILY MX	3M - ng/L			02/BA - Twice Per Batch	GR - GRAB
					C - No Discharge	C - No Discharge								

Submission Note

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

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com
 Name: William Kean
 E-Mail: william.kean@chbwv.com
 Date/Time: 2018-03-20 12:17 (Time Zone: -04:00)

Report Last Signed By

User: janice.williams@chbwv.com
 Name: Janice Williams
 E-Mail: janice.williams@chbwv.com
 Date/Time: 2018-03-20 12:17 (Time Zone: -04:00)

DMR Copy of Record

Permit		Permittee:		Facility:												
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:		Discharge:														
116 Internal Outfall		116-M PSEUDO MON. POINT @FRANKS CRK														
Report Dates & Status																
Monitoring Period:		DMR Due Date:		Status:												
From 02/01/18 to 02/28/18		03/28/18		NetDMR Validated												
Considerations for Form Completion																
IF PSEUDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THE NO DISCHARGE BOX OR ENTER 'NODI A' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.																
Principal Executive Officer																
First Name:		Title:		Telephone:												
Bryan C.		Director, USDOE-WVDP		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	Qualifier 3	Value 3				Units		
70295	Solids, total dissolved Z - Instream Monitoring	0	-	-	Sample											
					Permit Req.											
					Value NODI											
Name	Type	Size														
WVDP_February_2018_TDS_Calc.pdf	pdf	30304														

DMR Copy of Record

Permit		Permittee:		Facility:	
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:		Discharge:			
SUM Internal Outfall		SUM-N SUM OF OUTFALLS 1 & 7			
Report Dates & Status					
Monitoring Period:		DMR Due Date:		Status:	
From 02/01/18 to 02/28/18		03/28/18		NetDMR Validated	
Considerations for Form Completion					
Principal Executive Officer					
First Name:		Title:		Telephone:	
Bryan C.		Director, USDOE-WVDP		716-942-4368	
Last Name:					
Bower					
No Data Indicator (NODI)					
Form NODI: --					
Parameter	Monitoring Location	Season #	Param. NODI	Quantity or Loading	Quality or Concentration
Code	Name			Qualifier 1 Value 1	Qualifier 2 Value 2
				Qualifier 1 Value 1	Qualifier 2 Value 2
				Qualifier 3 Value 3	Qualifier 4 Value 4
				Qualifier 5 Value 5	Qualifier 6 Value 6
				Qualifier 7 Value 7	Qualifier 8 Value 8
				Qualifier 9 Value 9	Qualifier 10 Value 10
				Qualifier 11 Value 11	Qualifier 12 Value 12
				Qualifier 13 Value 13	Qualifier 14 Value 14
				Qualifier 15 Value 15	Qualifier 16 Value 16
				Qualifier 17 Value 17	Qualifier 18 Value 18
				Qualifier 19 Value 19	Qualifier 20 Value 20
				Qualifier 21 Value 21	Qualifier 22 Value 22
				Qualifier 23 Value 23	Qualifier 24 Value 24
				Qualifier 25 Value 25	Qualifier 26 Value 26
				Qualifier 27 Value 27	Qualifier 28 Value 28
				Qualifier 29 Value 29	Qualifier 30 Value 30
				Qualifier 31 Value 31	Qualifier 32 Value 32
				Qualifier 33 Value 33	Qualifier 34 Value 34
				Qualifier 35 Value 35	Qualifier 36 Value 36
				Qualifier 37 Value 37	Qualifier 38 Value 38
				Qualifier 39 Value 39	Qualifier 40 Value 40
				Qualifier 41 Value 41	Qualifier 42 Value 42
				Qualifier 43 Value 43	Qualifier 44 Value 44
				Qualifier 45 Value 45	Qualifier 46 Value 46
				Qualifier 47 Value 47	Qualifier 48 Value 48
				Qualifier 49 Value 49	Qualifier 50 Value 50
				Qualifier 51 Value 51	Qualifier 52 Value 52
				Qualifier 53 Value 53	Qualifier 54 Value 54
				Qualifier 55 Value 55	Qualifier 56 Value 56
				Qualifier 57 Value 57	Qualifier 58 Value 58
				Qualifier 59 Value 59	Qualifier 60 Value 60
				Qualifier 61 Value 61	Qualifier 62 Value 62
				Qualifier 63 Value 63	Qualifier 64 Value 64
				Qualifier 65 Value 65	Qualifier 66 Value 66
				Qualifier 67 Value 67	Qualifier 68 Value 68
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				Qualifier 71 Value 71	Qualifier 72 Value 72
				Qualifier 73 Value 73	Qualifier 74 Value 74
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				Qualifier 81 Value 81	Qualifier 82 Value 82
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				Qualifier 87 Value 87	Qualifier 88 Value 88
				Qualifier 89 Value 89	Qualifier 90 Value 90
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				Qualifier 99 Value 99	Qualifier 100 Value 100
				Qualifier 101 Value 101	Qualifier 102 Value 102
				Qualifier 103 Value 103	Qualifier 104 Value 104
				Qualifier 105 Value 105	Qualifier 106 Value 106
				Qualifier 107 Value 107	Qualifier 108 Value 108
				Qualifier 109 Value 109	Qualifier 110 Value 110
				Qualifier 111 Value 111	Qualifier 112 Value 112
				Qualifier 113 Value 113	Qualifier 114 Value 114
				Qualifier 115 Value 115	Qualifier 116 Value 116
				Qualifier 117 Value 117	Qualifier 118 Value 118
				Qualifier 119 Value 119	Qualifier 120 Value 120
				Qualifier 121 Value 121	Qualifier 122 Value 122
				Qualifier 123 Value 123	Qualifier 124 Value 124
				Qualifier 125 Value 125	Qualifier 126 Value 126
				Qualifier 127 Value 127	Qualifier 128 Value 128
				Qualifier 129 Value 129	Qualifier 130 Value 130
				Qualifier 131 Value 131	Qualifier 132 Value 132
				Qualifier 133 Value 133	Qualifier 134 Value 134
				Qualifier 135 Value 135	Qualifier 136 Value 136
				Qualifier 137 Value 137	Qualifier 138 Value 138
				Qualifier 139 Value 139	Qualifier 140 Value 140
				Qualifier 141 Value 141	Qualifier 142 Value 142
				Qualifier 143 Value 143	Qualifier 144 Value 144
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				Qualifier 151 Value 151	Qualifier 152 Value 152
				Qualifier 153 Value 153	Qualifier 154 Value 154
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				Qualifier 157 Value 157	Qualifier 158 Value 158
				Qualifier 159 Value 159	Qualifier 160 Value 160
				Qualifier 161 Value 161	Qualifier 162 Value 162
				Qualifier 163 Value 163	Qualifier 164 Value 164
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				Qualifier 167 Value 167	Qualifier 168 Value 168
				Qualifier 169 Value 169	Qualifier 170 Value 170
				Qualifier 171 Value 171	Qualifier 172 Value 172
				Qualifier 173 Value 173	Qualifier 174 Value 174
				Qualifier 175 Value 175	Qualifier 176 Value 176
				Qualifier 177 Value 177	Qualifier 178 Value 178
				Qualifier 179 Value 179	Qualifier 180 Value 180
				Qualifier 181 Value 181	Qualifier 182 Value 182
				Qualifier 183 Value 183	Qualifier 184 Value 184
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				Qualifier 187 Value 187	Qualifier 188 Value 188
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				Qualifier 191 Value 191	Qualifier 192 Value 192
				Qualifier 193 Value 193	Qualifier 194 Value 194
				Qualifier 195 Value 195	Qualifier 196 Value 196
				Qualifier 197 Value 197	Qualifier 198 Value 198
				Qualifier 199 Value 199	Qualifier 200 Value 200
				Qualifier 201 Value 201	Qualifier 202 Value 202
				Qualifier 203 Value 203	Qualifier 204 Value 204
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ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - FEBRUARY 1 THROUGH FEBRUARY 28, 2018
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\begin{aligned}\text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 2573288.27 \text{ mg/month} \\ X1 &= 0.321 \text{ mg/L} \\ X2 &= 0.383 \text{ mg/L} \\ V1 &= 7310478.04 \text{ L/month}\end{aligned}$$

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

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

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

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.

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = 0.35 \text{ mg/L}$$

ATTACHMENT (Cont'd)

**SPDES DISCHARGE MONITORING REPORT - FEBRUARY 1 THROUGH FEBRUARY 28, 2018
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973**

Date: February 14, 2018

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.217 \text{ MGD})(812 \text{ mg/L}) + (0.862 \text{ MGD})(256 \text{ mg/L}) + (0.324 \text{ MGD})(100 \text{ mg/L})) / (1.403 \text{ MGD}) \\ &= 306 \text{ mg/L} \end{aligned}$$

Date: February 21, 2018

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.217 \text{ MGD})(671 \text{ mg/L}) + (1.747 \text{ MGD})(263 \text{ mg/L}) + (0.324 \text{ MGD})(153 \text{ mg/L})) / 2.288 \text{ MGD} \\ &= 286 \text{ mg/L} \end{aligned}$$

-
- Q1 = Flow at Outfall 001, million gallons per day (MGD).
- C1 = Total Dissolved Solids (TDS) concentration at Outfall 001, mg/L.
- Q2 = Flow in Franks Creek, MGD (without Outfall 001), measured at WNSP006 just prior to, and shortly after the discharge event.
- C2 = TDS concentration in Franks Creek measured at WNSP006 just prior to, and shortly after the discharge event.
- Q3 = Flow of augmentation water, MGD, if required.
- C3 = TDS concentration in augmentation water, MGD.
- Q4 = Q1 + Q2 + Q3, MGD (Flow in Franks Creek, including Outfall 001).
- C4 <= 500 mg/L (calculated TDS concentration at 116 in Franks Creek, which includes Outfall 001).

Attachment C
Email Confirmation from NYSDEC

Bonnie Jeffery

From: netdmr-notification@epa.gov
Sent: Tuesday, March 20, 2018 2:34 PM
To: ewwohlers@cattco.org; Christine Lee; Jason Casper; R9.NetDMR@dec.ny.gov; William Kean; James Baker; lynette.bennett@chbwv.com; Bonnie Jeffery; Moira Maloney; Amanda Steiner; jennifer.dundas@wv.doe.gov; Janice Williams
Subject: NetDMR DMR(s) Submittal Passed for: NY0000973

The following signed 5 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _fb8afe6f-4bd8-493d-9cf9-3a2e3e75d0bc

User ID: janice.williams@chbwv.com

Timestamp: 03/20/2018 12:17:58

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001
Discharge: M - OUTFALL 001 MONTHLY PROC WW, GW, STORM Monitoring Period End Date: 02/28/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 007
Discharge: M - SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER Monitoring Period End Date: 02/28/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 01B
Discharge: M - MERCURY PRETREATMENT
Monitoring Period End Date: 02/28/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 116
Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 02/28/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: SUM
Discharge: N - SUM OF OUTFALLS 1 & 7
Monitoring Period End Date: 02/28/18

Thank you.

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