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:2017:0835 August 22, 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 July 1 through July 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).

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 July 1 – July 31, 2017

B) 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

L. J. Ortega, CHBWV

D. H. Pritchard, CHBWV

J. E. Wangelin, CHBWV

J. D. Williams, CHBWV

Letter Log (B. Jeffery), CHBWV

CHBWV OITS #1630463

Attachment A SPDES DMR

Permit

Permit #:

NY0000973

Permittee: U.S. DEPT OF ENERGY

WEST VALLEY DEMONSTRATION PROJ

Major:

Yes

Permittee Address:

1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585

Facility Location:

Facility:

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Permitted Feature:

SUM

Internal Outfail

Discharge:

SUM OF OUTFALLS 1 & 7

Report Dates & Status

Monitoring Period:

From 07/01/17 to 07/31/17

DMR Due Date:

08/28/17

Status:

NetDMR Validated

Principal Executive Officer

Considerations for Form Completion

First Name: Last Name:

Bryan C. Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

Parameter Monitoring Location Season # Param, NODI Code Name

Quantity or Loading

Quality or Concentration Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2

Qualifier 3 Value 3

Units 19 - mg/L

01/30 - Monthly

of Ex. Frequency of Analysis Sample Type

CA - CALCTD

01045 Iron, total [as Fe] 2 - Effluent Net

Sample Permit Req Value NODI

Rea Mon MO AVG <=

1 DAILY MX 19 - mg/L 0

01/30 - Monthly

CA - CALCTD

Submission Note

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

Edit Check Errors

No errors.

Comments

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 this DMR is as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDL's) where monitoring is not performed under ELAP, to that end, the MDL's for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment operators is 0.01 mg/L.

Attachments

WVDP-JULY-2017-NET-IRON-CALC.pdf

Name

pdf

Type

Size

29096

Report Last Saved By

U.S. DEPT OF ENERGY

User:

william.kean@chbwv.com

Date/Time:

2017-08-22 09:37 (Time Zone: -04:00)

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Permit

Permit #:

NY0000973

Internal Outfall

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

Discharge:

116-M

PSEUDO MON. POINT @FRANKS CRK

Report Dates & Status

Monitoring Period:

From 07/01/17 to 07/31/17

DMR Due Date:

08/28/17

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: Last Name:

Bryan C. Bower

Title:

Value NODI

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

Parameter Monitoring Location Season # Param, NO	DI Quanti	y or Loading		Quality or Conce	ntration		# of E	x. Frequency of Analysis Sample Type
Code Name	Secretarios de l'action de la company de la	Qualifier 2 Value 2 Units Qualifier 1 Valu	ie 1 Qualifie		Qualifier		Units	
	Sample		=	300	_ =	300	19 - mg/L	02/DS - Twice Per Discharge CA - CALCTD
70295 Solids, total dissolved Z - Instream Monitoring 0 —	Permit Req.			Req Mon MO AV(3 <=	500 DAILY I	MX 19 - mg/L 0	02/DS - Twice Per Discharge CA - CALCTD

Submission Note

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

Edit Check Errors

No errors.

Comments

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Attachments

Name Size Type WVDP-JULY-2017-TDS-CALC.pdf pdf 31608 Report Last Saved By

U.S. DEPT OF ENERGY

User:

william.kean@chbwv.com

Date/Time:

2017-08-22 09:37 (Time Zone: -04:00)

Name: William Kean

E-Mail:

william.kean@chbwv.com

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

Permittee Address:

U.S. DEPT OF ENERGY

1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

Permitted Feature:

001

External Outfall

Discharge:

001-M

OUTFALL 001 MONTHLY PROC WW, GW, STORM

Report Dates & Status

Monitoring Period:

Considerations for Form Completion

From 07/01/17 to 07/31/17

DMR Due Date:

08/28/17

Status:

Facility:

Facility Location:

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WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD

WEST VALLEY, NY 14171-9799

Principal Executive Officer

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Bryan C. Bower

Title:

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Telephone:

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No Data Indicator (NODI)

Form NODI:

Code Name					Qualifier 1	Value 1 Qualifie	r 2 Value 2	Units	Qualifier	1 Value 1	Qualifier	2 Value 2	Qualifie	r 3 Value 3	Units	
				Sample		Merchania (Azerbera)		2921.000.TZTTT00		02,400,731,734,536	=	69	=		19 - mg/L	01/BA - Once Per Batch 24 - COMP24
00154 Sulfate [as S]	1 - Effluent Gross	0		Permit Req								Reg Mon MO AVG		Reg Mon DAILY MX	-	01/BA - Once Per Batch 24 - COMP24
` '				Value NOD								rioq mon mo rive		requion braci wix	15 - mg/L 0	UNDA - Once i di Balcii 24 - COMI 2-
				Sample							<	5.6	<	5.79	19 - mg/L	02/BA - Twice Per Batch CA - CALCTI
00181 Oxygen demand, ultimate	1 - Effluent Gross	0		Permit Req							•	Reg Mon MO AVG			19 - mg/L 0	02/BA - Twice Per Batch CA - CALCTI
, 		•		Value NOD								ried mon mo Ave	-	22 DAILT WA	15 - mg/L o	02/BA - TWICE PER BARCIT CA - CALCTI
				Sample					-	6.5			=	7.9	19 - mg/L	02/BA - Twice Per Batch GR - GRAB
00300 Oxygen, dissolved [DO]	1 - Effluent Gross	ถ		Permit Req					>=	3 MINIMUM			-	Reg Mon MAXIMUM		02/BA - Twice Per Batch GR - GRAB
		•		Value NOD						3 WATER TOTAL				WOWNYAM HOW HAVE	19 - 11g/C 0	UZIBA - TWICE PEI BAICII GR - GRAB
				Sample								2	<	2	19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
00310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	Ω	and the same	Permit Reg	1						•	Req Mon MO AVG			19 - mg/L 0	02/BA - Twice Per Batch 24 - COMP24
	7 Emain Groop	Ü		Value NOD	8							Ned mon Mo Ave		IU DAILT MA	ia - tithr o	02/6A - TWICE PET BRICH 24 - COMP24
				Sample					-	7.6			<u>.</u>	7.6	12 - SU	01/BA - Once Per Batch GR - GRAB
00400 pH	1 - Effluent Gross	0		Permit Req					>=	6.5 MINIMUN			~ <=		12 - SU 0	01/BA - Once Per Batch GR - GRAB
		•		Value NOD						U.S IMMINION	n			O.J INAMINOW	12-30 0	UI/BA - Olice Fel Balcil GR - GRAB
				Sample	1						<	4	<	4	19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
00530 Solids, total suspended	1 - Effluent Gross	n		Permit Reg							<=	30 MO AVG	<=		19 - mg/L 0	
and a solution, total supportation	1 Emocia Gross	·		Value NOD	4						~-	30 MO AVG	\	43 DAILT NA	19 - mg/L u	02/BA - Twice Per Batch 24 - COMP24
				Sample							<	0.1	<	0.1	25 - mL/L	02/BA - Twice Per Batch GR - GRAB
00545 Solids, settleable	1 - Effluent Gross	n		Permit Req							-	Reg Mon MO AVG			25 - mL/L 0	02/BA - Twice Per Batch GR - GRAB
	. Emagni Groop	ū		Value NOD	of the same of the							red won wo Ave	~-	S DAIL! MA	23 - HIDL 0	02/bA - Twice Per balcii GR - GRAB
				Sample							<	1.5	<	1.5	19 - ma/L	01/BA - Once Per Batch GR - GRAB
00556 Oil & Grease	1 - Effluent Gross	0	-	Permit Req							•	Reg Mon MO AVG			9	
00000 Oil & Glease I & Elikaerik Gross U	ŭ		Value NOD								Red Mon MO AVG	~-	IS DAIL! WA	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB	
				Sample							<	0.02	<	0.02	19 - mg/L	01/BA - Once Per Batch 24 - COMP24
00615 Nitrogen, nitrite total [as N]	1 - Effluent Gross	n	***	Permit Req							·	Reg Mon MO AVG			19 - mg/L 0	
oo to thinger, mine total (as 14)	r Lindon Gross	·		Value NOD	4							Red MOII MO AVG		. I DAILT WA	ia - tildir n	01/BA - Once Per Batch 24 - COMP24
				Sample							<	0.02	<	0.02	*******	01/DA 0 D D-1-1- 01 001/D01
00620 Nitrogen, nitrate total [as N]	1 - Effluent Gross	0		Permit Req							` .	Reg Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/BA - Once Per Batch 24 - COMP24
adozo i mogen, i mano iatar (ab i i	7 - Ellidelli Gress	·		Value NOD	4							Red MOI MO AVG		red MOII DWILT MY	19 - ING/L U	01/BA - Once Per Batch 24 - COMP24
				Sample								0,57		0.04	40	00m4 T : D . D . I o . 001100
00625 Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req							=	Reg Mon MO AVG			19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
ouozo i wiogen, rijeniani, tetar jas 14j	1 - Enideni Gioss	U	***	Value NOD	i							Red Mon MO AVE		Req Mon DAILY MX	19 - mg/L U	02/BA - Twice Per Batch 24 - COMP24
				Sample							<	0.05		0,05		
00746 Sulfide, dissolved, [as S]	1 - Effluent Gross	n	***	Permit Req								Reg Mon MO AVG	<		19 - mg/L	01/BA - Once Per Batch 24 - COMP24
out to builde, disserved, [as b]	r - Liment Gross	U		Value NOD	4							Red Mon MO AVG	<=	.4 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24 - COMP24
				. British strategicker and programs							==	0.00004		0.0004		
00978 Arsenic, total recoverable	1 - Effluent Gross	0	ye.w.	Sample Permit Req							22	0.00064	=		19 - mg/L	01/BA - Once Per Batch 24 - COMP24
00370 Atsenie, total recoverable	1 - Lindent Gross	U		Interest to the feet of the contract of the								Req Mon MO AVG	<==	.15 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24 - COMP24
				Value NODI Sample							<				"	
00979 Cobalt, total recoverable	1 - Effluent Gross	0	-	Permit Reg							<	0.0006	<		19 - mg/L	01/BA - Once Per Batch GR - GRAB
50313 Cobait, total recoverable	r - Elikient Gress	U		Value NOD	4							Req Mon MO AVG	<=	.005 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
				Sample	-						<	0.0004	<	0.0004	40	04/RA
00981 Selenium, total recoverable	1 - Effluent Gross	n	-	\$1000mm2,\$200mis\$610,\$200											19 - mg/L	01/BA - Once Per Batch GR - GRAB
ooo , oo amum, total recoverable	- Lindon Gloss	Ü	-	Permit Req Value NOD	di arres en a							Req Mon MO AVG	<=	.004 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
				Sample							_	0.24	_	0.54	10 "	00/DA Tuis- Da- Data 24 00:000
01045 Iron, total [as Fe]	1 - Effluent Gross	Ω		Employee process of the State of the							=	0.34	=		19 - mg/L	02/BA - Twice Per Batch 24 - COMP24
DIOTO HOR, Waliab I Cj	- Lingen G1055	U	****	Permit Req	6							Reg Mon MO AVG		Reg Mon DAILY MX	19 - ma/L 0	02/BA - Twice Per Batch 24 - COMP24

01105 Alumxnuกา, total [as Al]	1 - Effluent Gross	0		Sample Permit Req. Value NOOI						# <#	0.14 2 MO AVG	<±	U.14 4 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch 24 - COMP24 01/BA - Once Per Batch 24 - COMP24
01128 Vanadium, total recoverable	1 - Effluent Gross	0		Sample Permit Req. Value NOOI						<	0.0015 Req Mon MO AV	< G <≖	0.0015 .014 DAILY MX	19 - mg/L 19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB
34726 Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	-	Sample Permit Req. Value NOO!						= <=	0.014 1.5 MO AVG	# <#	0.019 2.1 DAILY MX	19 - mg/L 19 - mg/L 0	02/BA - Twice Per Batch 24 - COMP24 02/BA - Twice Per Batch 24 - COMP24
50050 Flow, in conduit or thru treatment plan	t 1 - Effluent Gross	0	-	Sample = Permit Req. Value NODI	0.204 Req Mon MO AVG	=	0.318 Req Mon	03 DAILY MX 03	- MGD - MGD					0	02/BA - Twice Per Batch CN - CONTIN 02/BA - Twice Per Batch CN - CONTIN
50060 Chlorine, total residual	1 - Effluent Gross	0	-	Sample Permit Reg. Value NODI						=	0.01 Req Mon MO AV	= G <≖	0.01 .1 DAILY MX	19 - mg/L 19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB
70295 Solids, total dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI						Ŧ	611 Req Mon MO AV	= G	611 Req Mon DAILY MX	19 - mg/L 19 - mg/L 0	02/BA - Twice Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB
71900 Mercury, total [as Hg]	1 - Effluent Gross	0		Sample Permit Req. Value NODI						= <=	1.8 50 MO AVG		1.8 Req Mon DAILY MX	3M - ng/L 3M - ng/L 0	01/BA - Once Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB
81646 Surfactants [linear alkylate sulfonate]	1 - Effluent Gross	0	 '	Sample Permit Req. Value NODI						E	0.01 Req Mon MO AV	* G <≖	0.01 .04 DAILY MX	19 - mg/L 19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB

Submission Note

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

Edit Check Errors

No errors.

Comments

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Attachments

User:

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

U.S. DEPT OF ENER

william.kean@chbwv.com

Name: William Kean

E-Mail: william.kean@chbwv.com

Date/Time:

2017-08-22 09:37 (Time Zone: -04:00)

Permit

Major:

Permit #:

NY0000973

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

Permitted Feature: Report Dates & Status

Monitoring Period:

007

External Outfall

From 07/01/17 to 07/31/17

Discharge:

SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

DMR Due Date:

Status:

Facility:

Facility Location:

NetDMR Validated

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD

WEST VALLEY, NY 14171-9799

Principal Executive Officer

Considerations for Form Completion

First Name: Last Name:

Bryan C. Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

Parameter	Monitoring Locat	ion Seas	on # Param. NC			itity or Loading			Quality or Concentration		# of Ex. Frequency of Analysis Sample T
ode Name				The section of the se	Qualifier 1 Value 1	Qualifier 2 Value 2	! Units Qual	ifier1 Value1 (Qualifier 2 Value 2 Qualifi	er 3 Value 3 Units	
				Sample							
00181 Oxygen demand, ultimate	1 - Effluent Gross	0	-	Permit Req.					Req Mon MO AVG <=	22 DAILY MX 19 - mg	/L 01/30 - Monthly CA - CALC
				Value NODI					C - No Discharge	C - No Discharge	
				Sample							
300 Oxygen, dissolved [DO]	1 - Effluent Gross	0	-	Permit Req.			>=	3 MINIMUM		Reg Mon MAXIMUM 19 - mg	/L 02/30 - Twice Per Month GR - GRA
				Value NODI				C - No Discharge		C - No Discharge	and the second s
				Sample				- A Proposition		o ito bisolaige	
310 BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Reg.					Reg Mon MO AVG <=	10 DAILY MX 19 - mg	/L 02/30 - Twice Per Month 24 - COM
				Value NODI					•		L 02/30 " I WICE FEI MOINII 24 - COIVI
				Sample					C - No Discharge	C - No Discharge	
400 pH	1 - Effluent Gross			Programming and representation of				0.5 4 114 114 114			
оо ргі	i - Eilidem Gross	U		Permit Req.			>=	6.5 MINIMUM	<=	8.5 MAXIMUM 12 - SU	02/30 - Twice Per Month GR - GRA
*				Value NODI				C - No Discharge		C - No Discharge	
				Sample							
530 Solids, total suspended	1 - Effluent Gross	0	***	Permit Req.				<	= 30 MO AVG <=	45 DAILY MX 19 - mg	/L 02/30 - Twice Per Month 24 - COMF
				Value NODI					C - No Discharge	C - No Discharge	
				Sample							
545 Solids, settleable	1 - Effluent Gross	0		Permit Req.					Reg Mon MO AVG <=	.3 DAILY MX 25 - ml.	/L 02/30 - Twice Per Month GR - GRA
				Value NODI					C - No Discharge	C - No Discharge	
				Sample							
00556 Oil & Grease 1 - Effluent Gross	1 - Effluent Gross	0		Permit Req.					Reg Mon MO AVG <=	15 DAILY MX 19 - mg	/L 02/30 - Twice Per Month GR - GRA
				Value NODI					C - No Discharge	C - No Discharge	and the state of t
			Sample					G - 110 Discharge	G - No Discharge		
0615 Nitrogen, nitrite total [as N]	1 - Effluent Gross	0		Permit Req.					D 14 140 M/C	4 DAIL V 14V 40	5 04 00 14 HILL 24 004 0
o i o i an ogori, mano total [as i q	1 - Lindelit Globb	U		Value NODI					Req Mon MO AVG <=	.1 DAILY MX 19 - mg	L 01/30 - Monthly 24 - COMF
				(Sental State Selection of the Control of the Contr					C - No Discharge	C - No Discharge	
25 Miles	4 500 10	:		Sample							
625 Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req.					Req Mon MO AVG	Req Mon DAILY MX 19 - mg	/L 01/30 - Monthly 24 - COMF
				Value NODI			The second second		C - No Discharge	C - No Discharge	
				Sample							
045 Iron, total [as Fe]	1 - Effluent Gross	0		Permit Req.					Req Mon MO AVG	Req Mon DAILY MX 19 - mg	7L 02/30 - Twice Per Month 24 - COMF
				Value NODI					C - No Discharge	C - No Discharge	
				Sample							
726 Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	-	Permit Req.					= 1.49 MO AVG <=	2.1 DAILY MX 19 - mg	L 02/30 - Twice Per Month 24 - COMP
				Value NODI					C - No Discharge	C - No Discharge	
				Sample							
50 Flow, in conduit or thru treatment plan	t 1 - Effluent Gross	0	-	Permit Reg.	Reg Mon MO AVG	Pen Mon DAII	Y MX 03 - MGD				01/30 - Monthly CN - CON
	. / Lindoit Group	•		Value NODI	C - No Discharge	C - No Discha					01/30 - Montany CN - CON
				British A STAG Connog A Account of	C = No Discharge	C - NO DISCHA	ige .				
60 Chlorine, total residual	4 500 10			Sample							
ou Chionne, total residual	1 - Effluent Gross	0	_	Permit Req.					Req Mon MO AVG <=	.1 DAILY MX 19 - mg	L 01/30 - Monthly GR - GRA
				Value NODI					C - No Discharge	C - No Discharge	
				Sample							
95 Solids, total dissolved	1 - Effluent Gross	0	***	Permit Req.					Req Mon MO AVG	Req Mon DAILY MX 19 - mg	L 02/30 - Twice Per Month GR - GRA
				Value NODI					C - No Discharge	C - No Discharge	*
				Sample							
i00 Mercury, total [as Hg]	1 - Effluent Gross	0	-	Permit Req.					Reg Mon MO AVG <=	50 DAILY MX 3M - ng	L 01/30 - Monthly GR - GRA
				Value NODI					C - No Discharge	C - No Discharge	
ubmission Note				74,00,11001					O - NO Discharge	O - NO Discharge	

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Attachments No attachments. Report Last Saved By U.S. DEPT OF ENERGY User: william.kean@chbwv.com Date/Time: 2017-08-22 09:37 (Time Zone: -04:00) William Kean Name: E-Mail: william.kean@chbwv.com

Edit Check Errors

No errors. Comments

Permit

Permit #:

NY0000973

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U.S. DEPT OF ENERGY

Facility:

WEST VALLEY DEMONSTRATION PROJ

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Yes

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1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585

Facility Location:

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Permitted Feature:

Q1B

Internal Outfall

Discharge:

01B-M

MERCURY PRETREATMENT

Report Dates & Status

Monitoring Period:

From 07/01/17 to 07/31/17

DMR Due Date:

Title:

08/28/17

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Last Name: Bryan C. Bower

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

Parameter Code Name	Monitoring Locati	on Seas	on # Param. N	ODI Quali	Quantity or fier 1 Value 1 Qualif		Quality or Concentration		Ex. Frequency of Anal	ysis Sample Type
00056 Flow rate	1 - Effluent Gross	0		Sample Permit Req. Value NODI	Req Mon MO AVG C - No Discharge	Req Mon DAILY MX 07 - gal/d C - No Discharge			01/07 - Weekly	CN - CONTIN
71900 Mercury, total [as Hg]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI			Req Mon MO AVG <= C - No Discharge	50 DAILY MX 3M - ng/L C - No Discharge	02/BA - Twice Per B	atch GR-GRAB
Submission Note				1.00						

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:

2017-08-22 09:37 (Time Zone: -04:00)

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - JULY 1 THROUGH JULY 31, 2017

NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001 =
$$M1 = \frac{(X1 + X2) \text{ V1}}{2}$$
 = 1903812.99 mg/month
 $X1 = 0.135 \text{ mg/L}$
 $X2 = 0.540 \text{ mg/L}$
 $V1 = 5640927.37 \text{ L/month}$

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}

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 =
$$\frac{M1 + M7 - MRW}{V1 + V7}$$
 = 0.34 mg/L

ATTACHMENT (Cont'd)

SPDES DISCHARGE MONITORING REPORT - JULY 1 THROUGH JULY 31, 2017
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: July 12, 2017

C4 = ((Q1)(C1) + (Q2)(C2) + (Q3)(C3))/Q4

= ((0.204 MGD) (611 mg/L) + (0.132 MGD) (321 mg/L) + (0.324 MGD) (95 mg/L))/(0.660 MGD)

= 300 mg/L

Date: July 18, 2017

C4 = ((Q1)(C1) + (Q2)(C2) + (Q3)(C3))/Q4

= ((0.204 MGD)(610 mg/L) + (0.132 MGD)(346 mg/L) + (0.324 MGD)(83 mg/L))/(0.660 MGD)

= 299 mg/L

- 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).