

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)

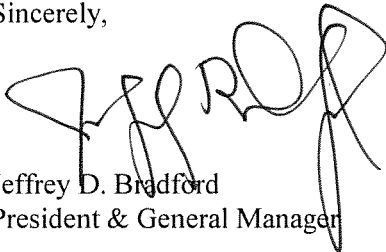
Dear Ms. Purdy:

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 #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

U.S. DEPT OF ENERGY
1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:
Facility Location:

WEST VALLEY DEMONSTRATION PROJ
10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

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:
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		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			
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:
Name:
E-Mail:

william.kean@chbww.com
William Kean
william.kean@chbww.com

Date/Time:

2017-09-18 08:58 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #:
Major:

NY0000973
Yes

Permittee:
Permittee Address:

U.S. DEPT OF ENERGY
1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:
Facility Location:

WEST VALLEY DEMONSTRATION PROJ
10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

Permitted Feature:

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:
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		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type	
Code	Name				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
70295	Solids, total dissolved	Z - Instream Monitoring	0	--	Sample														
					Permit Req.									Req Mon MO AVG <=	500 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:

2017-09-18 08:58 (Time Zone: -04:00)

Name:

William Kean

E-Mail:

william.kean@chbwv.com

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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														01/07 - Weekly	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	07 - gal/d										
					Value NODI		C - No Discharge		C - No Discharge											
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample														02/BA - Twice Per Batch	GR - GRAB
					Permit Req.									Req Mon MO AVG <=	50 DAILY MX	3M - ng/L				
					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

Name:

William Kean

E-Mail:

william.kean@chbwv.com

Date/Time:

2017-09-18 08:58 (Time Zone: -04:00)

DMR Copy of Record

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NY0000973

Major:

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U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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

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09/28/17

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Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

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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														01/30 - Monthly	CA - CALCTD
					Permit Req.								Req Mon MO AVG	<=	22 DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	3 MINIMUM				Req Mon MAXIMUM	19 - mg/L			
					Value NODI							C - No Discharge				C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								Req Mon MO AVG	<=	10 DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
00400	pH	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU			
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								<=	30 MO AVG	<=	45 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.								Req Mon MO AVG	<=	.3 DAILY MX	25 - mL/L				
					Value NODI								C - No Discharge		C - No Discharge					
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.								Req Mon MO AVG	<=	15 DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - COMP24
					Permit Req.								Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	24 - COMP24
					Permit Req.								Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	24 - COMP24
					Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI		C - No Discharge		C - No Discharge											
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.								Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L				
					Value NODI								C - No Discharge		C - No Discharge					
71900	Mercury, total [as Hg]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	GR - GRAB
					Permit Req.								Req Mon MO AVG	<=	50 DAILY MX	3M - ng/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

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

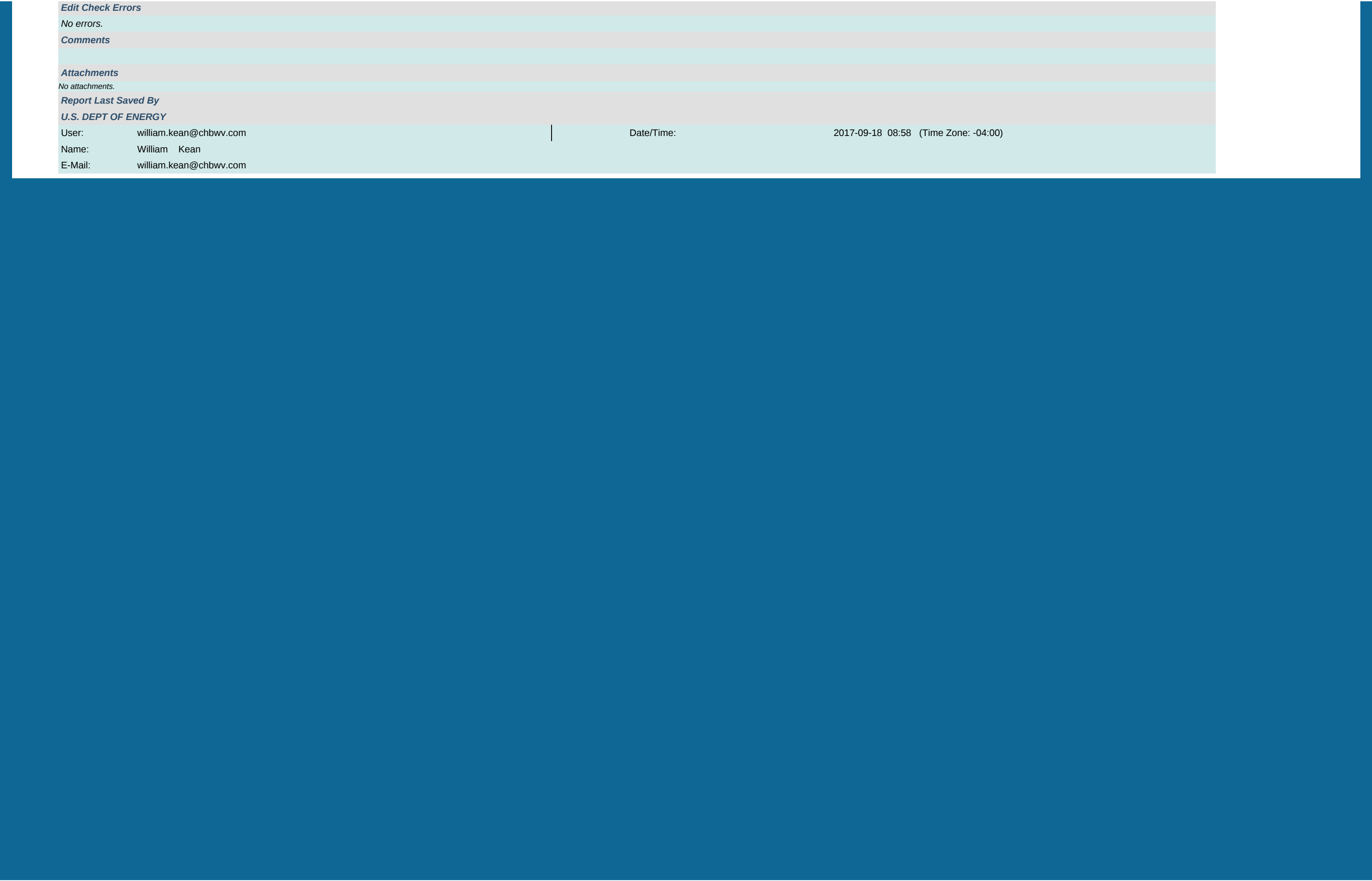
User:william.kean@chbwv.com

Name:William Kean

E-Mail:william.kean@chbwv.com

Date/Time:

2017-09-18 08:58 (Time Zone: -04:00)



DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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.

Last Name:

Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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										Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										C - No Discharge		C - No Discharge				
00181	Oxygen demand, ultimate	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG	<=	22 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	CA - CALCTD
					Permit Req. Value NODI										C - No Discharge		C - No Discharge				
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample												Req Mon MAXIMUM	19 - mg/L		02/BA - Twice Per Batch	GR - GRAB
					Permit Req. Value NODI					>=	3 MINIMUM						C - No Discharge				
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample										Req Mon MO AVG	<=	10 DAILY MX	19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI										C - No Discharge		C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample													12 - SU		01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI					>=	6.5 MINIMUM				<=	8.5 MAXIMUM		C - No Discharge			
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample													19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI								<=	30 MO AVG	<=	45 DAILY MX					
00545	Solids, settleable	1 - Effluent Gross	0	--	Sample													25 - mL/L		02/BA - Twice Per Batch	GR - GRAB
					Permit Req. Value NODI										Req Mon MO AVG	<=	.3 DAILY MX				
00556	Oil & Grease	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI										Req Mon MO AVG	<=	15 DAILY MX	19 - mg/L			
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0	--	Sample															01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG	<=	.1 DAILY MX	19 - mg/L			
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0	--	Sample													19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG		Req Mon DAILY MX				
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0	--	Sample													19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG		Req Mon DAILY MX				
00746	Sulfide, dissolved, [as S]	1 - Effluent Gross	0	--	Sample													19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG	<=	.4 DAILY MX				
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample													19 - mg/L		01/BA - Once Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG	<=	.15 DAILY MX				
00979	Cobalt, total recoverable	1 - Effluent Gross	0	--	Sample													19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI										Req Mon MO AVG	<=	.005 DAILY MX				
00981	Selenium, total recoverable	1 - Effluent Gross	0	--	Sample													19 - mg/L		01/BA - Once Per Batch	GR - GRAB
					Permit Req. Value NODI										Req Mon MO AVG	<=	.004 DAILY MX				
01045	Iron, total [as Fe]	1 - Effluent Gross	0	--	Sample													19 - mg/L		02/BA - Twice Per Batch	24 - COMP24
					Permit Req. Value NODI										Req Mon MO AVG		Req Mon DAILY MX				

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

$$\begin{aligned}\text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 0.00 \text{ mg/month} \\ X1 &= 0.00 \text{ mg/L} \\ X2 &= 0.00 \text{ mg/L} \\ V1 &= 0.00 \text{ L/month}\end{aligned}$$

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

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

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.

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

Attachment B
Whole Effluent Toxicity (WET)
Testing Summary Pages

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

4

Facility Name: West Valley Demonstration Project Test Start Date: 7/14/17
 NPDES Permit Number: NY0000973 Pipe Number: 001

<u>Test Type</u>	<u>Test Species</u>	<u>Sample Type</u>	<u>Sample Method</u>
☐ Acute	☐ Fathead Minnow	☐ Prechlorinated	☐ Grab
☐ Chronic	☒ Ceriodaphnia	☐ Dechlorinated	☒ Composite
☒ Modified	☐ Daphnia Pulex	☐ Chlorine Spiked in Lab	☐ Flowthru
(chronic reporting	☐ Mysid Shrimp	☐ Chlorinated on site	☐ Other
acute values)	☐ Sheepshead	☒ Unchlorinated	
☐ 24hr screening	☐ Menidia		
	☐ Sea Urchin		
	☐ Champia	TRC: <u>0.015</u> 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: _____)
☒ 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: <u>100%</u>	Mean Control Reproduction: <u>23.1 young/female</u>
Mean Diluent Survival: <u>100%</u>	Mean Diluent Reproduction: <u>34.3 young/female</u>

	<u>Limits</u>		<u>Results</u>
LC50	<u>N/A</u>	LC50	<u>>100%</u>
		Upper Value	<u>±∞</u>
		Lower Value	<u>100%</u>
		Data Analysis	
		Method Used	<u>Graphical</u>
TUa	<u>0.3</u>	TUa	<u>0.3</u>
A-NOEC	<u>N/A</u>	A-NOEC	<u>100%</u>
C-NOEC	<u>N/A</u>	C-NOEC	<u>50%</u>
		LOEC	<u>100%</u>
TUc	<u>1.0</u>	TUc	<u>2.0</u>
IC25	<u>N/A</u>	IC25	<u>58.5%</u>
IC50	<u>N/A</u>	IC50	<u>>100%</u>

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	☐ Ceriodaphnia	☐ Dechlorinated	☒ Composite
☒ Modified	☐ Daphnia Pulex	☐ Chlorine Spiked in Lab	☐ Flowthru
(chronic reporting	☐ Mysid Shrimp	☐ Chlorinated on site	☐ Other
acute values)	☐ Sheepshead	☒ Unchlorinated	
☐ 24hr screening	☐ Menidia		
	☐ Sea Urchin		
	☐ Champia	TRC: <u>0.015</u> 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: _____)
- ☒ 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

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

Attachment C
Email Confirmation from NYSDEC

Bonnie Jeffery

From: netdmr-notification@epa.gov
Sent: Monday, September 18, 2017 9:31 AM
To: ewwohlers@cattco.org; Christine Lee; Jason Casper; William Kean; James Baker; lynette.bennett@chbwv.com; Bonnie Jeffery; Moira Maloney; Amanda Steiner; jennifer.dundas@wv.doe.gov; R9.NetDMR@dec.ny.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: _b87b01a4-d572-40e8-9179-1258c3afef66

User ID: janice.williams@chbwv.com

Timestamp: 09/18/2017 08:58:27

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: 08/31/17

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: 08/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973

Permitted Feature: 01B

Discharge: M - MERCURY PRETREATMENT

Monitoring Period End Date: 08/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973

Permitted Feature: 116

Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 08/31/17

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973

Permitted Feature: SUM

Discharge: N - SUM OF OUTFALLS 1 & 7

Monitoring Period End Date: 08/31/17

Thank you.

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