

Mr. C. S. Haugh, P.E.
Chief, Source Surveillance
New York State Department of Environmental Conservation
Division of Water
Bureau of Watershed Programs
625 Broadway, 4th Floor
Albany, New York 12233-3506

AC-EA
WR:2013:0065
December 11, 2013

SUBJECT: State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR)
for the Reporting Period November 1 through November 30, 2013, SPDES Permit No. NY-
0000973, West Valley Demonstration Project (WVDP)

Dear Mr. Haugh:

The West Valley Demonstration Project SPDES DMR for the reporting period November 1 through November 30, 2013, including the Net Iron and Total Dissolved Solids (TDS) concentration sheets, is attached. All results for this report are within effluent discharge limits specified in the permit.

Please note there was no discharge at internal outfall 01B during this period.

As required in Title 6 of the New York Codes, Rules, and Regulations (6NYCRR) Part 750-2.5(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for the laboratories performing analysis for this DMR are as follows:

1. TestAmerica Buffalo: NY Lab No. 10026; and
2. General Engineering Laboratories: NY Lab No. 11501.

Also, 6NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDLs), where monitoring is not performed under ELAP. To that end, the MDLs for Settleable Solids and Total Residual Chlorine analyses performed by the CHBWV wastewater treatment facility personnel are 0.1 ml/L and 0.01 mg/L, respectively.

If you have any questions, please contact Moira Maloney of the U.S. Department of Energy West Valley Demonstration Project (DOE-WVDP) at (716) 942-4255 or William Kean at (716) 942-4865.

Sincerely,



John D. Rendall, Manager
Regulatory Strategy

JDR:WNK:bnj

Attachment: SPDES DMR for November 1 through November 30, 2013 Monitoring Period

cc: M. A. Jackson, NYSDEC-Region 9 DOW
E. W. Wohlers, Cattaraugus County Health Department
J. M. Dundas, DOE-WVDP
M. N. Maloney, DOE-WVDP
J. J. Baker, CHBWV
L. E. Bennett, CHBWV (Public Reading Room)
W. N. Kean, CHBWV
D. P. Klenk, CHBWV
J. D. Rendall, CHBWV
J. O'Leary, CHBWV
R. L. Scharf, CHBWV
P. Troescher, CHBWV
A. W. Upshaw, CHBWV
B. N. Jeffery, CHBWV (Letter Log)

ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - NOVEMBER 1 THROUGH NOVEMBER 30, 2013
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 1904946.98 \text{ mg/month}$$

$$X1 = 0.172 \text{ mg/L}$$

$$X2 = 0.450 \text{ mg/L}$$

$$V1 = 6125231.45 \text{ L/month}$$

$$\text{OUTFALL 007} = M7 = \frac{(X1 + X2) V7}{2} = 8704.47 \text{ mg/month}$$

$$X1 = 0.0775 \text{ mg/L}$$

$$X2 = <0.0193 \text{ mg/L}$$

$$V7 = 179844.35 \text{ L/month}$$

$$\text{RAW WATER} = MRW = \frac{(X1 + X2 + X3 + X4) VRW}{4} = 954145.27 \text{ mg/month}$$

$$X1 = 1.21 \text{ mg/L}$$

$$X2 = 0.488 \text{ mg/L}$$

$$X3 = 0.347 \text{ mg/L}$$

$$X4 = 0.285 \text{ mg/L}$$

$$VRW = 1645078.06 \text{ L/month}$$

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = <0.15 \text{ mg/L}$$

ATTACHMENT (Cont'd)

SPDES DISCHARGE MONITORING REPORT - NOVEMBER 1 THROUGH NOVEMBER 30, 2013
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: November 6, 2013

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.226 \text{ MGD})(841 \text{ mg/L}) + (0.238 \text{ MGD})(226 \text{ mg/L}) + (0.324 \text{ MGD})(111 \text{ mg/L})) / (0.788 \text{ MGD}) \\ &= 355 \text{ mg/L} \end{aligned}$$

Date: November 12, 2013

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.226 \text{ MGD})(810 \text{ mg/L}) + (0.526 \text{ MGD})(206 \text{ mg/L}) + (0.324 \text{ MGD})(87 \text{ mg/L})) / (1.076 \text{ MGD}) \\ &= 297 \text{ mg/L} \end{aligned}$$

-
- 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).

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY

ADDRESS: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585

FACILITY: WEST VALLEY DEMONSTRATION PROJ

LOCATION: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

ATTN: BRYAN C BOWER, DIRECTOR

NY0000973

PERMIT NUMBER

001-M

DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

11/1/2013

MM/DD/YYYY

11/30/2013

DMR Mailing ZIP CODE: 14171-9799

MAJOR

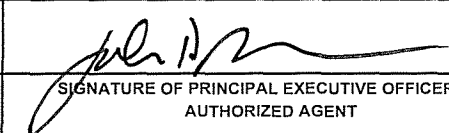
(SUBR 09)

OUTFALL 001 MONTHLY PROC WW, GW, STORM

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Sulfate [as S]	SAMPLE MEASUREMENT	*****	*****	*****	*****	115	115	mg/L	0	01/BA	24
00154 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Once Per Batch	COMP24
Oxygen demand, ultimate	SAMPLE MEASUREMENT	*****	*****	*****	*****	<6.13	<6.47	mg/L	0	02/BA	CA
00181 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	22 DAILY MX	mg/L		Twice Per Batch	CALCTD
Oxygen, dissolved [DO]	SAMPLE MEASUREMENT	*****	*****	*****	9.7		12	mg/L	0	02/BA	GR
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	3 MINIMUM		Req. Mon. MAXIMUM	mg/L		Twice Per Batch	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2.0	<2.0	mg/L	0	02/BA	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	10 DAILY MX	mg/L		Twice Per Batch	COMP24
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.3		7.3	SU	0	01/BA	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6.5 MINIMUM		8.5 MAXIMUM	SU		Once Per Batch	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	<4.0	<4.0	mg/L	0	02/BA	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	45 DAILY MX	mg/L		Twice Per Batch	COMP24
Solids, settleable	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.1	<0.1	ml/L	0	02/BA	GR
00545 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.3 DAILY MX	ml/L		Twice Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE	
John D. Rendall, Manager			716-942-4602	12/12/2013	
TYPED OR PRINTED				AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY
ADDRESS: 1000 INDEPENDENCE AVE SW
 WASHINGTON, DC 20585
FACILITY: WEST VALLEY DEMONSTRATION PROJ
LOCATION: 10282 ROCK SPRINGS ROAD
 WEST VALLEY, NY 14171-9799

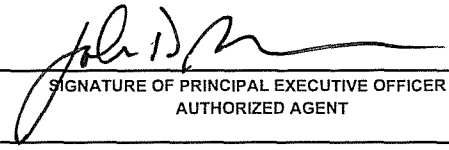
NY0000973	001-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2013	11/30/2013

DMR Mailing ZIP CODE: 14171-9799
MAJOR
 (SUBR 09)
 OUTFALL 001 MONTHLY PROC WW, GW, STORM
 External Outfall

No Discharge ☐

ATTN: BRYAN C BOWER, DIRECTOR

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.5	<1.5	mg/L	0	01/BA	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	15 DAILY MX	mg/L		Once Per Batch	GRAB
Nitrogen, nitrite total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.02	<0.02	mg/L	0	01/BA	24
00615 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.1 DAILY MX	mg/L		Once Per Batch	COMP24
Nitrogen, nitrate total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.02	<0.02	mg/L	0	01/BA	24
00620 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Once Per Batch	COMP24
Nitrogen, Kjeldahl, total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.69	0.76	mg/L	0	02/BA	24
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Batch	COMP24
Sulfide, dissolved, [as S]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.052	<0.052	mg/L	0	01/BA	24
00746 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.4 DAILY MX	mg/L		Once Per Batch	COMP24
Arsenic, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0014	0.0014	mg/L	0	01/BA	24
00978 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.15 DAILY MX	mg/L		Once Per Batch	COMP24
Cobalt, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.0006	<0.0006	mg/L	0	01/BA	GR
00979 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.005 DAILY MX	mg/L		Once Per Batch	GRAB

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John D. Rendall, Manager			716-942-4602	12/12/2013	
TYPED OR PRINTED				AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY
ADDRESS: 1000 INDEPENDENCE AVE SW
 WASHINGTON, DC 20585
FACILITY: WEST VALLEY DEMONSTRATION PROJ
LOCATION: 10282 ROCK SPRINGS ROAD
 WEST VALLEY, NY 14171-9799
ATTN: BRYAN C BOWER, DIRECTOR

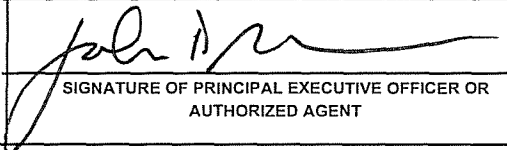
NY0000973	001-M
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2013	11/30/2013

DMR Mailing ZIP CODE: 14171-9799
MAJOR
 (SUBR 09)
 OUTFALL 001 MONTHLY PROC WW, GW, STORM
 External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Selenium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.0004	<0.0004	mg/L	0	01/BA	GR
00981 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.004 DAILY MX	mg/L		Once Per Batch	GRAB
Iron, total [as Fe]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.31	0.45	mg/L	0	02/BA	24
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Batch	COMP24
Aluminum, total [as Al]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.13	0.13	mg/L	0	01/BA	24
01105 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	2 MO AVG	4 DAILY MX	mg/L		Once Per Batch	COMP24
Vanadium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.0015	<0.0015	mg/L	0	01/BA	GR
01128 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.014 DAILY MX	mg/L		Once Per Batch	GRAB
Nitrogen, ammonia, total [as NH3]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.011	0.013	mg/L	0	02/BA	24
34726 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1.5 MO AVG	2.1 DAILY MX	mg/L		Twice Per Batch	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.226	0.247	MGD	*****	*****	*****	*****	0	02/BA	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Twice Per Batch	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.01	0.01	mg/L	0	01/BA	GR
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.1 DAILY MX	mg/L		Once Per Batch	GRAB

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 WEST VALLEY, NY 14171-9799

ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	001-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2013	11/30/2013

DMR Mailing ZIP CODE: 14171-9799
 MAJOR
 (SUBR 09)
 OUTFALL 001 MONTHLY PROC WW, GW, STORM
 External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	826	841	mg/L	0	02/BA	GR
70295 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Batch	GRAB
Mercury, total [as Hg]	SAMPLE MEASUREMENT	*****	*****	*****	*****	5.1	5.1	ng/L	0	01/BA	GR
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	50 MO AVG	Req. Mon. DAILY MX	ng/L		Once Per Batch	GRAB
Surfactants [linear alkylate sulfonate]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.015	0.015	mg/L	0	01/BA	GR
81646 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.04 DAILY MX	mg/L		Once Per Batch	GRAB

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John D. Rendall, Manager		716-942-4602		12/12/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004

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WASHINGTON, DC 20585

FACILITY: WEST VALLEY DEMONSTRATION PROJ

LOCATION: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

ATTN: BRYAN C BOWER, DIRECTOR

NY0000973

PERMIT NUMBER

007-M

DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

11/1/2013

MM/DD/YYYY

11/30/2013

DMR Mailing ZIP CODE: 14171-9799

MAJOR

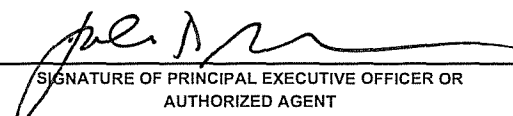
(SUBR 09)

SANITARY, NC COOLING WATER, UTILITY WASTE

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oxygen demand, ultimate	SAMPLE MEASUREMENT	*****	*****	*****	*****	<3.87	<3.87	mg/L	0	01/30	CA
00181 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	22 DAILY MX	mg/L		Monthly	CALCTD
Oxygen, dissolved [DO]	SAMPLE MEASUREMENT	*****	*****	*****	9.7		10.7	mg/L	0	02/30	GR
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	3 MINIMUM		Req. Mon. MAXIMUM	mg/L		Twice Per Month	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2.0	<2.0	mg/L	0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	10 DAILY MX	mg/L		Twice Per Month	COMP24
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.5		7.7	SU	0	02/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6.5 MINIMUM		8.5 MAXIMUM	SU		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	<4.0	<4.0	mg/L	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	45 DAILY MX	mg/L		Twice Per Month	COMP24
Solids, settleable	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.1	<0.1	ml/L	0	02/30	GR
00545 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.3 DAILY MX	mL/L		Twice Per Month	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.4	<1.4	mg/L	0	02/30	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	15 DAILY MX	mg/L		Twice Per Month	GRAB

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John D. Rendall, Manager			716-942-4602	12/12/2013
TYPED OR PRINTED				AREA Code

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ATTN: BRYAN C BOWER, DIRECTOR

NY0000973

PERMIT NUMBER

007-M

DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

11/1/2013

MM/DD/YYYY

11/30/2013

DMR Mailing ZIP CODE:

14171-9799

MAJOR

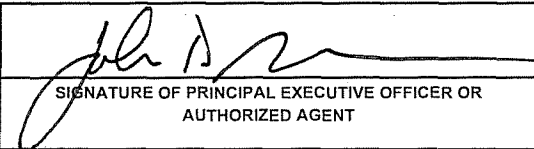
(SUBR 09)

SANITARY, NC COOLING WATER, UTILITY WASTE

External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Nitrogen, nitrite total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.02	<0.02	mg/L	0	01/30	24
00615 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.1 DAILY MX	mg/L		Monthly	COMP24
Nitrogen, Kjeldahl, total [as N]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.19	0.19	mg/L	0	01/30	24
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Iron, total [as Fe]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.048	0.078	mg/L	0	02/30	24
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Month	COMP24
Nitrogen, ammonia, total [as NH3]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.009	<0.009	mg/L	0	02/30	24
34726 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1.49 MO AVG	2.1 DAILY MX	mg/L		Twice Per Month	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.006	0.017	MGD	*****	*****	*****	*****	0	01/30	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Monthly	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.02	0.02	mg/L	0	01/30	GR
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.1 DAILY MX	mg/L		Monthly	GRAB
Solids, total dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	118	124	mg/L	0	02/30	GR
70295 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE	
John D. Rendall, Manager			716-942-4602	12/12/2013	
TYPED OR PRINTED				AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

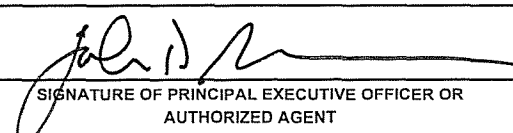
NAME: U.S. DEPT OF ENERGY
ADDRESS: 1000 INDEPENDENCE AVE SW
 WASHINGTON, DC 20585
FACILITY: WEST VALLEY DEMONSTRATION PROJ
LOCATION: 10282 ROCK SPRINGS ROAD
 WEST VALLEY, NY 14171-9799
ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	007-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2013	11/30/2013

DMR Mailing ZIP CODE: 14171-9799
 MAJOR
 (SUBR 09)
 SANITARY, NC COOLING WATER, UTILITY WASTE
 External Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total [as Hg]	SAMPLE MEASUREMENT	*****	*****	*****	*****	3.1	3.1	ng/L	0	01/30	GR
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	50 DAILY MX	ng/L		Monthly	GRAB

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John D. Rendall, Manager			716-942-4602	12/12/2013
TYPED OR PRINTED			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

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

FACILITY: WEST VALLEY DEMONSTRATION PROJ

LOCATION: 10282 ROCK SPRINGS ROAD
 WEST VALLEY, NY 14171-9799

ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	01B-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2013	11/30/2013

DMR Mailing ZIP CODE: 14171-9799

MAJOR

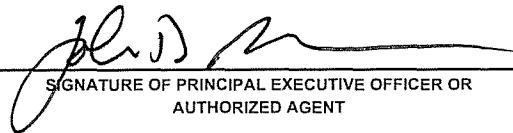
(SUBR 09)

MERCURY PRETREATMENT

Internal Outfall

No Discharge ☒

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow rate	SAMPLE MEASUREMENT				*****	*****	*****	*****			
00056 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	gal/d	*****	*****	*****	*****		Weekly	CONTIN
Mercury, total [as Hg]	SAMPLE MEASUREMENT	*****	*****	*****	*****						
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	50 DAILY MX	ng/L		Twice Per Batch	GRAB

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John D. Rendall, Manager			716-942-4602		12/12/2013
TYPED OR PRINTED			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

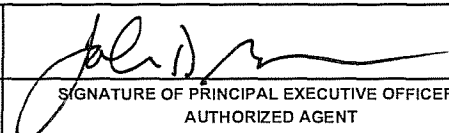
NAME: U.S. DEPT OF ENERGY
 ADDRESS: 1000 INDEPENDENCE AVE SW
 WASHINGTON, DC 20585
 FACILITY: WEST VALLEY DEMONSTRATION PROJ
 LOCATION: 10282 ROCK SPRINGS ROAD
 WEST VALLEY, NY 14171-9799
 ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	116-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2013	11/30/2013

DMR Mailing ZIP CODE: 14171-9799
 MAJOR
 (SUBR 09)
 PSEUDO MON. POINT @FRANKS CRK
 Internal Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	326	355	mg/L	0	02/DS	CA
70295 Z 0 Instream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	500 DAILY MX	mg/L		Twice Per Discharge	CALCTD

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John D. Rendall, Manager			716-942-4602	12/12/2013
TYPED OR PRINTED			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

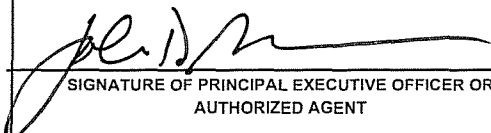
NAME: U.S. DEPT OF ENERGY
 ADDRESS: 1000 INDEPENDENCE AVE SW
 WASHINGTON, DC 20585
 FACILITY: WEST VALLEY DEMONSTRATION PROJ
 LOCATION: 10282 ROCK SPRINGS ROAD
 WEST VALLEY, NY 14171-9799
 ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	SUM-N
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/1/2013	11/30/2013

DMR Mailing ZIP CODE: 14171-9799
 MAJOR
 (SUBR 09)
 SUM OF OUTFALLS 1 & 7
 Internal Outfall

No Discharge ☐

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Iron, total [as Fe]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.15	<0.15	mg/L	0	01/30	CA
01045 2 0 Effluent Net	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	1 DAILY MX	mg/L		Monthly	CALCTD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
John D. Rendall, Manager			716-942-4602	12/12/2013
TYPED OR PRINTED			AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)