

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:2014:0041
July 24, 2014

SUBJECT: State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2014, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2014 through June 30, 2014

Dear Mr. Haugh:

The West Valley Demonstration Project's SPDES DMR for the reporting period June 1 through June 30, 2014, including the Net Iron calculation and Total Dissolved Solids (TDS) concentration sheets, is provided as Attachment A. All results for this report are within the effluent discharge limits specified in the permit.

As per our teleconference on June 24, 2014, the site's contract laboratory (GEL) originally reported a total mercury result for a sample collected on June 4, 2014 at outfall 007 at 57.3 ng/L. The site immediately asked for a re-analysis of this sample and that result was reported at 37.4 ng/L. As both of these results were well above the yearly average result of 6.2 ng/L for outfall 007 and the Relative Percent Difference (RPD) between the original result and the re-analysis was 42 percent, the site completed a discreet sampling plan to confirm or disprove these results.

The discreet sampling involved the collection of duplicate total mercury samples from the equalization (EQ) basin and duplicate samples collected from the Wastewater Treatment Facility (WWTF) de-chlorination tank (D9). The EQ basin is the collection basin for utility wastewater and the de-chlorination tank (D9) is the last point of collection prior to the outfall. These samples were sent to both GEL and to TestAmerica – Canton, OH for 1631 total mercury analysis with the following results:

Date	Location	Laboratory	Result
6/17/14	EQ Basin	TA	6.3 ng/L
6/17/14	EQ Basin	GEL	5.83 ng/L
6/18/14	D9	TA	14 ng/L
6/18/14	D9	GEL	12.6 ng/L

Please note that no additional waters were sent to the EQ basin after June 5, 2014 and that no water was discharged via outfall 007 after June 5, 2014 until the discharge noted below starting June 24, 2014.

The site re-sampled outfall 007 for 1631 total mercury during a discharge that occurred on June 24 - 25, 2014 and that result was reported at 11.1 ng/L. As this result was representative of our historical mercury concentrations at the discharge as well as the results of the D9 tank, the result of 11 ng/L was reported within the pages of the DMR.

The discharge from lagoon 3 was originally planned to start on Wednesday, June 4, 2014. However, due to a low pH reading taken in lagoon 3 of 6.8 SU, the discharge was postponed until Monday, June 9, 2014. On June 9, 2014 the discharge was started at 11:55 A.M. but was suspended due to a low pH of 6.8 SU at 8:15 P.M. The discharge was re-started on June 10, 2014 at 6:30 A.M. and suspended at 8:00 P.M. again due to a pH reading of 6.8 SU.

The discharge was not to re-start until the pH was significantly above the alarm set point of 6.8 SU so that the discharge could continue through the night. Access to the discharge weir is limited to daylight hours by procedure due to safety/erosion concerns. Whenever the pH is in an alarm condition (less 6.8 SU or greater than 8.2 SU), the pH meter must be read every four hours by Operations staff. Therefore, in order to discharge through the night the pH readings needed to be above the alarm set point.

On June 16, 2014, the pH of lagoon 3 was taken with a result of 7.22 SU and it was determined that the pH would likely remain out of alarm conditions. Therefore, the discharge was re-started.

With the re-start it was deemed prudent to also re-start the SPDES required sampling program. Therefore, in addition to the grab samples collected on June 9, 2014, a complete suite of grab samples were collected on June 16, 2014, that complied with the permit requirement to collect grab samples near the beginning of the discharge. These results, along with the third set of grab samples collected near the end of the discharge have been reported on the appropriate pages of the DMR. Please note that no additional water other than water being held in lagoon 4 that was included in the pre-discharge radiological characterization was added to lagoon 3 prior to restarting the discharge on June 16, 2014. The addition of the water that was sent to lagoon 3 prior to the start of the discharge helped with the pH adjustment process in lagoon 3 and could be performed without risk of exceeding the 60 % capacity limitation in place for lagoon 3.

Surfactant, as LAS was initially reported by our contract laboratory (TestAmerica) at 0.068 mg/L for the first 001 grab sample collected June 9, 2014. This result was above our permit limit of 0.04 mg/L and a re-analysis was completed out of holding time with a reported result of 0.015 mg/L. However, the original result was flagged "R" (unreliable) due to the fact that the laboratory's matrix spike recovery for this sample was reported at 37 percent, well below the acceptance range of 70 to 130 percent. In addition, the field blank submitted with this sample was positively biased with a result of 0.017 mg/L. The site routinely sends this parameter to two different laboratories due to the low detection levels required to meet the SPDES permit limit. GEL reported this sample at <0.004 mg/L and this result is reported within the pages of the DMR.

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

CHBWV is also submitting, as Attachment B for your use, analytical results and data for the semi-annual storm water monitoring period of January 1, 2014 through June 30, 2014. All storm water sampling results were within applicable limits specified on page 14 of 32 of the SPDES permit for oil & grease.

Storm water samples were collected on April 22, April 30, May 20, June 3, June 24, and June 25, 2014. The on-site pH, measured near the site's rain gauge on each of these dates was: 6.8 SU; 7.5 SU; 8.0 SU; 6.6 SU, 5.7 SU, and 6.8 SU, respectively.

Storm water outfall S-28 that was collected on June 25, 2014 was collected eight hours from the previous storm event that occurred on June 24, 2014. Personnel were mobilized to outfall S-28 on June 24, 2014, but the initial storm event of 0.27 inches did not produce any flow at the outfall. The outfall was inspected first thing in the morning on June 25, 2014 and no flow was detected. As the semi-annual sampling period was coming to an end, it was decided to sample the storm event that occurred later in the day on June 25, 2014.

In addition, semi-annual lead sampling was completed as required on June 25, 2014 at storm water outfall S-43 located at the Live Fire Range with a reported result of 0.002 mg/L and an action level of 0.006 mg/L.

In accordance with the Schedule of Compliance sampling requirements contained on page 30 of 32 for Paraquat Dichloride Herbicide (Gramoxone Extra), the site has applied herbicides during this storm water monitoring period of January 1 through June 30, 2014, and therefore, storm water outfalls were analyzed for Paraquat Dichloride as follows: SPDES outfall's 001 and 007 and storm water outfall's S-04; S-06; S-33; S-09; S-12; S-34; S-14; S-28; S-36; S-37; S-38; and S-20.

All Paraquat Dichloride results were reported as non-detections at <0.002 mg/L (<0.0002 mg/L for S-06).

In accordance with the Schedule of Compliance Requirements contained on page 30 of 32 in the site's SPDES permit, sampling is required to be performed within 60 days of the application. Paraquat Dichloride was sprayed between June 9 and June 16, 2014 and all required storm water samples were collected during the storm event that occurred on June 25, 2014.

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) numbers for the laboratories performing analysis for this DMR are as follows:

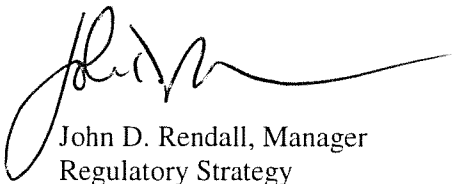
1. TestAmerica - Buffalo: NY Lab No. 10026;
2. TestAmerica - Canton, OH: NY Lab No. 10975;
3. TestAmerica - Savannah, GA: NY Lab No. 10842 and
4. GEL Laboratories: NY Lab No. 11501.

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, are 0.1 ml/L and 0.01 mg/L, respectively.

Southwest Research Institute analyzed the paraquat dichloride for storm water sample S-06 with a reported MDL of 0.000191 mg/L.

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 of my staff at (716) 942-4865.

Sincerely,



John D. Rendall, Manager
Regulatory Strategy

JDR:WNK:bnj

Attachments: A) SPDES DMR for June 1 through June 30, 2014 Monitoring Period
B) Storm Water Discharge Monitoring Results for January 1 through June 30, 2014 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 A

SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2014
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 2829723.53 \text{ mg/month}$$

$$X1 = 0.200 \text{ mg/L}$$

$$X2 = 0.785 \text{ mg/L}$$

$$V1 = 5745631.54 \text{ L/month}$$

$$\text{OUTFALL 007} = M7 = \frac{(X1 + X2) V7}{2} = 8211.73 \text{ mg/month}$$

$$X1 = 0.0367 \text{ mg/L}$$

$$X2 = 0.0322 \text{ mg/L}$$

$$V7 = 238366.64 \text{ L/month}$$

$$\text{RAW WATER} = MRW = \frac{(X1 + X2 + X3 + X4) VRW}{4} = 1225054.05 \text{ mg/month}$$

$$X1 = 0.544 \text{ mg/L}$$

$$X2 = 1.47 \text{ mg/L}$$

$$X3 = 0.798 \text{ mg/L}$$

$$X4 = 0.950 \text{ mg/L}$$

$$VRW = 1302556.14 \text{ L/month}$$

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = 0.27 \text{ mg/L}$$

ATTACHMENT A (Cont'd)

SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2014
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: June 9, 2014

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.1662 \text{ MGD})(698 \text{ mg/L}) + (0.364 \text{ MGD})(292 \text{ mg/L}) + (0.288 \text{ MGD})(163 \text{ mg/L})) / (0.818 \text{ MGD}) \\ &= 329 \text{ mg/L} \end{aligned}$$

Date: June 16, 2014

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.1662 \text{ MGD})(651 \text{ mg/L}) + (0.132 \text{ MGD})(409 \text{ mg/L}) + (0.288 \text{ MGD})(132 \text{ mg/L})) / (0.586 \text{ MGD}) \\ &= 342 \text{ mg/L} \end{aligned}$$

Date: June 23, 2014

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.1662 \text{ MGD})(685 \text{ mg/L}) + (0.773 \text{ MGD})(272 \text{ mg/L}) + (0.288 \text{ MGD})(125 \text{ mg/L})) / (1.227 \text{ MGD}) \\ &= 293 \text{ mg/L} \end{aligned}$$

- 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).

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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	001-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799

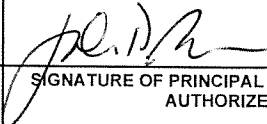
MAJOR

(SUBR 09)

OUTFALL 001 MONTHLY PROC WW, GW, ST
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	*****	*****	*****	*****	83	83	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	*****	*****	*****	*****	7.52	7.92	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	*****	*****	*****	8.7	*****	10.3	mg/L	0	03/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	*****	*****	*****	*****	3.1	3.3	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	*****	*****	*****	6.9	*****	7.1	SU	0	02/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	*****	*****	*****	*****	<4.4	4.8	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	03/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	07/21/2014
TYPED OR PRINTED			AREA Code	NUMBER

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

* Note: Please see cover letter regarding frequency of analysis.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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OMB No. 2040-0004

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LOCATION: 10282 ROCK SPRINGS ROAD
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DMR Mailing ZIP CODE: 14171-9799

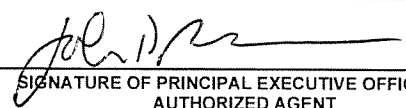
MAJOR

(SUBR 09)

OUTFALL 001 MONTHLY PROC WW, GW, ST
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			
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<2.5	3.6	mg/L	0	02/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	*****	*****	*****	*****	0.65	0.65	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	*****	*****	*****	*****	<0.05	<0.05	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	*****	*****	*****	*****	0.0013	0.0013	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	02/BA*	GR
00979 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.005 DAILY MX	mg/L		Once 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.			TELEPHONE	DATE
John D. Rendall, Manager		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		716-942-4602	07/21/2014
TYPED OR PRINTED				AREA Code	NUMBER

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6/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799

MAJOR

(SUBR 09)

OUTFALL 001 MONTHLY PROC WW, GW, ST

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	*****	*****	*****	*****	<0.0005	0.0005	mg/L	0	02/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	*****	*****	*****	*****	0.49	0.79	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	*****	*****	*****	*****	0.12	0.12	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	02/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	*****	*****	*****	*****	<0.015	0.020	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	0.166	0.242	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	*****	*****	*****	*****	0.02	0.02	mg/L	0	02/BA *	GR
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.1 DAILY MX	mg/L		Once 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.	TELEPHONE		DATE
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DMR Mailing ZIP CODE: 14171-9799

MAJOR

(SUBR 09)

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External Outfall

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Solids, total dissolved	SAMPLE MEASUREMENT	*****	*****	*****	*****	678	698	mg/L	0	03/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	*****	*****	*****	*****	6.1	7.1	ng/L	0	02/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	*****	*****	*****	*****	< 0.01	0.02	mg/L	0	02/BA *	GR
81646 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.04 DAILY MX	mg/L		Once 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.	TELEPHONE		DATE
John D. Rendall, Manager		716-942-4602		07/21/2014
TYPED OR PRINTED		AREA Code	NUMBER	MM/DD/YYYY

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

* Note: Please see cover letter regarding frequency of analysis and surfactant results.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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	001-S
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799

MAJOR

(SUBR 09)

OUTFALL 001 SEMI-ANNUAL

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			
Cyanide, free [amen. to chlorination]	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.005	<0.005	mg/L	0	02/YR	GR
00722 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.005 DAILY MX	mg/L		Twice Per Year	GRAB
Manganese, total [as Mn]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.014	0.014	mg/L	0	02/YR	24
01055 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	2 DAILY MX	mg/L		Twice Per Year	COMP24
Nickel, total [as Ni]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0017	0.0017	mg/L	0	02/YR	24
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.079 DAILY MX	mg/L		Twice Per Year	COMP24
Zinc, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0062	0.0062	mg/L	0	02/YR	24
01094 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.13 DAILY MX	mg/L		Twice Per Year	COMP24
Lead, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0005	0.0005	mg/L	0	02/YR	24
01114 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.006 DAILY MX	mg/L		Twice Per Year	COMP24
Chromium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.00077	0.00077	mg/L	0	02/YR	24
01118 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.11 DAILY MX	mg/L		Twice Per Year	COMP24
Copper, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.004	0.004	mg/L	0	02/YR	24
01119 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	.014 DAILY MX	mg/L		Twice Per Year	COMP24

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.	TELEPHONE		DATE	
John D. Rendall, Manager		716-942-4602		07/21/2014	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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	001-S
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799

MAJOR

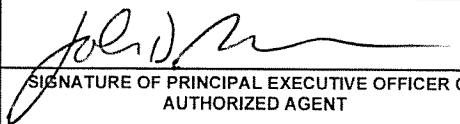
(SUBR 09)

OUTFALL 001 SEMI-ANNUAL

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			
Heptachlor 39410 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.007	<0.007	ug/L	0	02/YR	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	.01 MO AVG	Req. Mon. DAILY MX	ug/L		Twice Per Year	GRAB

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John D. Rendall, Manager			716-942-4602	07/21/2014
TYPED OR PRINTED			AREA Code	NUMBER

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

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

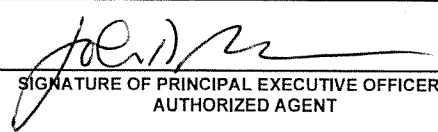
NAME: U.S. DEPT OF ENERGY
ADDRESS: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585
FACILITY: WEST VALLEY DEMONSTRATION PROJ
LOCATION: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799
ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	001-V
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
1/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799
MAJOR
(SUBR 09)
OUTFALL 001 ACTION LEVELS SEMI-ANNUAL
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			
Boron, total [as B] 01022 V 0 See Comments	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.047	mg/L	0	02/YR	24
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	2 DAILY MX	mg/L		Twice Per Year	COMP24
Titanium, total [as Ti] 01152 V 0 See Comments	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.0059	mg/L	0	02/YR	24
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	.65 DAILY MX	mg/L		Twice Per Year	COMP24
Bromide [as Br] 71870 V 0 See Comments	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.073	mg/L	0	02/YR	24
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	5 DAILY MX	mg/L		Twice Per Year	COMP24

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, and I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE
John D. Rendall, Manager			716-942-4602		07/21/2014
TYPED OR PRINTED			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SEE PERMIT FOR REPORTING REQUIREMENTS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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
6/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799

MAJOR

(SUBR 09)

SANITARY, NC COOLING WATER, UTILITY W

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	*****	*****	*****	*****	<3.96	<3.96	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	*****	*****	*****	*****	*****	9.1	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	7.5	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		07/21/2014	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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

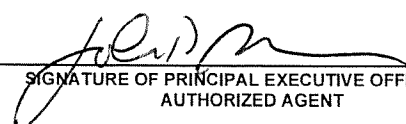
ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	007-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799
MAJOR
(SUBR 09)
SANITARY, NC COOLING WATER, UTILITY W
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	*****	*****	*****	*****	0.21	0.21	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	*****	*****	*****	*****	0.0345	0.0367	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	0.016	0.018	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	*****	*****	*****	*****	172	233	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	07/21/2014
TYPED OR PRINTED			AREA Code	NUMBER

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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

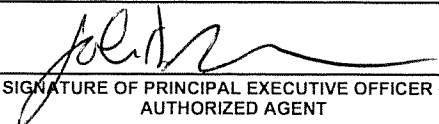
ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	007-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799
MAJOR
(SUBR 09)
SANITARY, NC COOLING WATER, UTILITY W
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] 71900 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	11	11	ng/L	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	50 DAILY MX	ng/L		Monthly	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	07/21/2014
TYPED OR PRINTED			AREA Code	NUMBER

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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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	01B-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799

MAJOR

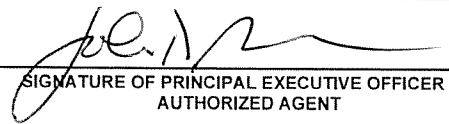
(SUBR 09)

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

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.	TELEPHONE		DATE	
John D. Rendall, Manager		 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		716-942-4602	07/21/2014
TYPED OR PRINTED				AREA Code	NUMBER

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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WASHINGTON, DC 20585

FACILITY: WEST VALLEY DEMONSTRATION PROJ

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

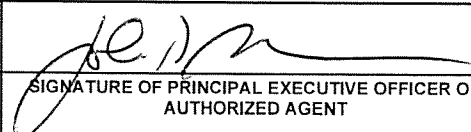
ATTN: BRYAN C BOWER, DIRECTOR

NY0000973	116-M
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2014	6/30/2014

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 70295 Z 0 Instream Monitoring	SAMPLE MEASUREMENT	*****	*****	*****	*****	321	342	mg/L	0	03/DS *	CA
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	500 DAILY MX	mg/L		Twice Per Discharge	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	07/21/2014
TYPED OR PRINTED			AREA Code	NUMBER

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 'NO DISCHARGE' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

* Note: Please see cover letter regarding frequency of analysis.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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	SUM-N
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
6/1/2014	6/30/2014

DMR Mailing ZIP CODE: 14171-9799

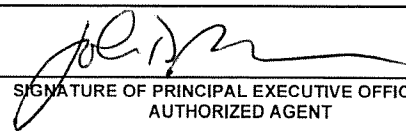
MAJOR
(SUBR 09)

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	*****	*****	*****	*****	0.27	0.27	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	07/21/2014	
TYPED OR PRINTED				AREA Code	NUMBER

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

**Storm Water Discharge Monitoring Results for
January 1 through June 30, 2014
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.9 SU	N.R.	Not Specified in Permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	4.2	< 2.4	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	1390	556	
	Total Dissolved Solids (TDS)	925	410	
	Phosphorus, Total	0.65	0.25	
Group B Parameters	Aluminum	42	20	
	Iron	79	30	
	Copper, Total Recoverable (TR)	0.079	0.039	
	Lead (TR)	0.055	0.020	
	Zinc (TR)	0.52	0.22	
Group C Parameters	Total Nitrogen (as N)	< 0.72	< 0.38	
	TKN	0.44	< 0.15	
	Nitrate Nitrogen (as N)	0.26	0.23	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.073	0.058	
	Cadmium, TR	0.00095	0.00036	
	Chromium, TR	0.034	0.016	
	Hexavalent Chromium, TR	< 0.005	< 0.025	
	Selenium, TR	< 0.00044	< 0.00044	
	Vanadium, TR	0.036	0.020	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	410,000	
	Maximum Flow rate, gallons per minute	3,900	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	4/30/14	4/30/14	
	Duration of storm event, in minutes	N.R.	1,105	Rain started at 0530 EDT on 4/30/14 and ended at 2355 EDT on 4/30/14.
	Date and Time of sample collection	4/30/14 0835	4/30/14 1115	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.28	An additional 0.31 inches was recorded after sampling ended for a total of 0.59 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	104	Precipitation of 0.36 inches was recorded on 4/25/14 at 2155 EDT. No flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S06/DUPLICATE
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.2 SU	N.R.	Not Specified in Permit.
	Oil and Grease	6.7 / 4.8	N.R.	15 mg/L
	BOD-5	< 1.0 / < 1.0	< 1.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	2.8 / 4.4	1.2	
	Total Dissolved Solids (TDS)	824 / 831	883	
	Phosphorus, Total	<0.017/<0.017	< 0.017	
Group B Parameters	Aluminum	<0.068/<0.068	< 0.068	
	Iron	0.24 / 0.23	0.22	
	Copper, Total Recoverable (TR)	0.00072 / 0.00064	0.00062	
	Lead (TR)	< 0.00050 / < 0.00050	< 0.00050	
	Zinc (TR)	< 0.0033 / < 0.0033	< 0.0033	
Group C Parameters	Total Nitrogen (as N)	N.R.	N.R.	
	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.0043 / <0.0043	< 0.0043	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	8,900	
	Maximum Flow rate, gallons per minute	58	N.R.	
	Method of flow measurement	ISCO Flow Meter		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	6/3/14	6/3/14	
	Duration of storm event, in minutes	N.R.	435	Rain started at 0550 EDT on 6/3/14 and ended at 1305 EDT on 6/3/14.
	Date and Time of sample collection	6/3/14 0820	6/3/14 1110	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.34	An additional 0.01 inches fell after sampling ended for a total of 0.35 inches
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	287	Precipitation of 0.13 inches was recorded on 5/22/14 at 0710 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S12
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results in mg/L, Mercury, total in ng/L via method 1631		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.5 SU	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	3.4	< 2.4	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	173	182	
	Total Dissolved Solids (TDS)	499	558	
	Phosphorus, Total	0.24	0.10	
Group B Parameters	Aluminum	17	11	
	Iron	24	12	
	Copper, Total Recoverable (TR)	0.036	0.019	
	Lead (TR)	0.017	0.0083	
	Zinc (TR)	0.17	0.087	
Group C Parameters	Total Nitrogen (as N)	< 1.2	<1.0	
	TKN	0.88	0.83	
	Nitrate Nitrogen (as N)	0.26	0.17	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.029	0.013	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	<0.0000062	< 0.0000064	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
	Mercury, Total (ng/L)	36.5	N.R.	
Flow	Total Flow, gallons	N.R.	28,000	
	Maximum Flow rate, gallons per minute	220	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	4/30/14	4/30/14	
	Duration of storm event, in minutes	N.R.	1,105	Rain started at 0530 EDT on 4/30/14 and ended at 2355 EDT on 4/30/14.
	Date and Time of sample collection	4/30/14 0905	4/30/14 1150	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.28	An additional 0.31 inches fell after sampling ended for a total of 0.59 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	104	Precipitation of 0.36 inches was recorded on 4/25/14 at 2155 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.4 SU	N.R.	Not specified in permit.
	Oil and Grease	< 1.3	N.R.	15 mg/L
	BOD-5	2.1	4.1	Not specified in permit. N.R. = Nor Required.
	Total Suspended Solids (TSS)	144	609	
	Total Dissolved Solids (TDS)	390	367	
	Phosphorus, Total	0.065	0.27	
Group B Parameters	Aluminum	5.7	20	
	Iron	6.4	31	
	Copper, Total Recoverable (TR)	0.0066	0.025	
	Lead (TR)	0.0035	0.015	
	Zinc (TR)	0.062	0.19	
Group C Parameters	Total Nitrogen (as N)	N.R.	N.R.	
	TKN	N.R.	N.R.	
	Nitrate Nitrogen (as N)	N.R.	N.R.	
	Nitrite Nitrogen (as N)	N.R.	N.R.	
	Ammonia Nitrogen (as NH3)	N.R.	N.R.	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.025	0.014	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	4,200	
	Maximum Flow rate, gallons per minute	120	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	5/20/14	5/20/14	
	Duration of storm event, in minutes	N.R.	385	Rain started at 1620 EDT on 5/20/14 and ended at 2245 EDT on 5/20/14.
	Date and Time of sample collection	5/20/14 1700	5/20/14 1810	
	Sampling Duration (Minutes)	Instantaneous	80	
	Total rainfall during event, in inches	N.R.	0.19	An additional 0.09 inches was recorded after sampling ended for a storm event total of 0.28 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	112	Precipitation of 0.25 inches was recorded on 5/16/14 at 0040 EDT. Outfall was at base flow conditions.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S28
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.8 SU	N.R.	Not specified in permit.
	Oil and Grease	< 1.3	N.R.	15 mg/L
	BOD-5	4.7	3.1	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	182	74	
	Total Dissolved Solids (TDS)	570	365	
	Phosphorus, Total	0.096	0.081	
Group B Parameters	Aluminum	4.3	4.7	
	Iron	6.1	5.4	
	Copper, Total Recoverable (TR)	0.0097	0.011	
	Lead (TR)	0.0071	0.0064	
	Zinc (TR)	0.042	0.039	
Group C Parameters	Total Nitrogen (as N)	1.8	1.1	
	TKN	1.1	0.98	
	Nitrate Nitrogen (as N)	0.54	0.078	
	Nitrite Nitrogen (as N)	0.11	0.062	
	Ammonia Nitrogen (as NH3)	0.062	0.046	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	0.0033	0.0040	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.2	0.3	
	Sulfide	< 0.052	< 0.052	
Flow	Total Flow, gallons	N.R.	14,000	
	Maximum Flow rate, gallons per minute	115	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	06/25/14	06/25/14	
	Duration of storm event, in minutes	N.R.	675	Rain started at 0545 EDT on 6/25/14 and ended at 1700 EDT on 6/25/14.
	Date and Time of sample collection	06/25/14 1330	06/25/14 1620	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.33	An additional 0.01 inches was recorded after sampling ended for a storm total of 0.34 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	8	Precipitation of 0.63 inches was recorded on 6/24/14 at 2215 EDT. No flow at Outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S42
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results in mg/L, mL/L for Settleable Solids		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	8.0 SU	N.R.	Not specified in permit.
	Oil and Grease	< 1.3	N.R.	15 mg/L
	BOD-5	4.9	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	54	6.8	
	Total Dissolved Solids (TDS)	1900	1900	
	Phosphorus, Total	0.039	< 0.0050	
Group B Parameters	Aluminum	0.53	0.082	
	Iron	2.3	0.39	
	Copper, Total Recoverable (TR)	0.0090	0.0062	
	Lead (TR)	0.0011	0.00020	
	Zinc (TR)	0.040	0.011	
Group C Parameters	Total Nitrogen (as N)	< 2.3	< 0.81	
	TKN	2.0	0.55	
	Nitrate Nitrogen (as N)	0.25	0.24	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.036	0.013	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	0.00073	< 0.00018	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.4	< 0.1	
	Sulfide	< 0.052	< 0.052	
Flow	Total Flow, gallons	N.R.	2,900	
	Maximum Flow rate, gallons per minute	30	N.R.	
	Method of flow measurement	Bucket & Stop Watch		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	06/24/14	06/24/14	
	Duration of storm event, in minutes	N.R.	310	Rain started at 1705 EDT on 6/24/14 and ended at 2215 EDT on 6/24/14.
	Date and Time of sample collection	06/24/14 1710	06/24/14 1855	
	Sampling Duration (Minutes)	Instantaneous	120	
	Total rainfall during sampling event, in inches	N.R.	0.27	An additional 0.36 inches was recorded after sampling ended for a storm total of 0.63 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	138	Precipitation of 0.22 inches was recorded on 6/18/14 at 2320 EDT. Slight flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.4 SU	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	3.5	< 2.4	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	112	6.0	
	Total Dissolved Solids (TDS)	19	18	
	Phosphorus, Total	0.079	< 0.0050	
Group B Parameters	Aluminum	2.5	0.46	
	Iron	3.1	0.47	
	Copper, Total Recoverable (TR)	0.0030	0.00081	
	Lead (TR)	0.0021	0.00044	
	Zinc (TR)	0.025	0.0068	
Group C Parameters	Total Nitrogen (as N)	< 1.2	< 0.41	
	TKN	0.67	< 0.15	
	Nitrate Nitrogen (as N)	0.54	0.24	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.15	0.060	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	0.017	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.052	< 0.052	
Flow	Total Flow, gallons	N.R.	75,000	
	Maximum Flow rate, gallons per minute	510	N.R.	
	Method of flow measurement	Staff Gauge		
	Date(s) of event monitored	4/30/14	4/30/14	
Rainfall Event and Monitoring Summary	Duration of storm event, in minutes	N.R.	1,105	Rain started at 0530 EDT on 4/30/14 and ended at 2355 EDT on 4/30/14.
	Date and Time of sample collection	4/30/14 0820	4/30/14 1110	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.28	An additional 0.31 inches fell after sampling ended for a total of 0.59 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	104	Precipitation of 0.36 inches was recorded on 4/25/14 at 2155 EDT. Slight flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S27
Monitoring Period: January 1 through June 30, 2014**

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.7 SU	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	5.4	3.9	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	769	397	
	Total Dissolved Solids (TDS)	358	289	
	Phosphorus, Total	0.45	0.30	
Group B Parameters	Aluminum	18	15	
	Iron	23	18	
	Copper, Total Recoverable (TR)	0.022	0.015	
	Lead (TR)	0.018	0.013	
	Zinc (TR)	0.081	0.063	
Group C Parameters	Total Nitrogen (as N)	< 5.0	< 2.0	
	TKN	4.9	1.9	
	Nitrate Nitrogen (as N)	0.11	0.062	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.069	0.044	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	20,000	
	Maximum Flow rate, gallons per minute	140	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	4/22/14	4/22/14	
	Duration of storm event, in minutes	N.R.	1,060	Rain started at 0655 EDT on 4/22/14 and ended at 0035 EDT on 4/23/14.
	Date and Time of sample collection	4/22/14 0835	4/22/14 1120	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.20	An additional 0.06 inches fell after sampling ended for a total of 0.26 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	161	Precipitation of 0.34 inches was recorded on 4/15/14 at 1410 EDT. No flow at outfall upon arrival.