

JAN 24 2018



HCH-2018-005

Department of Environmental Protection
Office of Permit Management
Division of Water Quality
PO Box 420
Trenton, N.J. 08625-0420

**NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT
HOPE CREEK GENERATING STATION
NJPDES PERMIT NJ0025411**

Dear Sir or Madam:

Attached is the Discharge Monitoring Report for the Hope Creek Generating Station for the month of December 2017. Also included are the semi-annual Waste Characterization Report for DSN-462B and the Annual Waste Characterization Report for DSN-461A.

This report is required by and prepared specifically for the New Jersey Department of Environmental Protection (NJDEP). It presents only the observed results of measurements and analyses required to be performed by the above agencies. The choice of the measurement devices and analytical methods are controlled by the EPA and the NJDEP, not by the company, and there are limitations on the accuracy of such measurement devices and analytical techniques even when used and maintained as required. Accordingly, this report is not intended as an assertion that any instrument has measured, or that any reading or analytical result represents the true value with absolute accuracy, nor is it an endorsement of the suitability of any analytical or measurement procedure.

If you have any questions concerning this report, please feel free to contact Tom Adams at (856) 339-1715.

The Discharge Monitoring Report for Hope Creek Generating Station is now submitted and certified electronically to the NJDEP. This document contains a copy of the Monitoring Report Submittal Forms.

IE25
NRR

HCH-2018-005
NJPDES DMR

2

Attachments

C Executive Director, DRBC
 USNRC - Docket number 50-354

JAN 24 2018

HCH-2018-005
NJPDES DMR

3

EXPLANATION OF CONDITIONS

December 2017

The following explanations are included to clarify possible deviation from permit conditions.

General - The columns labeled "No. Ex" on the enclosed DMR tabulate the number of daily discharge values outside the indicated limits.

Data reporting and accuracy reflect the working environment, the design capabilities and reliability of the monitoring instruments and operating equipment.

Deviations from required sampling, analysis monitoring and reporting methods and periodicities are indicated on the respective transmittal sheet with explanations below.

Results reported on the Discharge Monitoring Report forms are consistent with permit limits, data supplied from contract laboratories, the 2013 revision of the NJDEP Monitoring Report Form Reference Manual, the 2016 revision to the NJPDES Reference Manual for Online Form Submittal and specific guidance from DEP personnel.

JAN 24 2018

HCH-2018-005
NJPDES DMR

4

EXPLANATION OF EXCEEDANCES

December 2017

The following exceedances are included in the attached report and explained below.

DSN No.

EXPLANATION

No Exceedances



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46815

Shell Generation Date: 7/24/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 12/01/2017 - 12/31/2017

Permittee:

PSEG NUCLEAR LLC
PO BOX 236

HANCOCKS BRIDGE, NJ 08038

Location of Activity:

HOPE CREEK GENERATING STATION
ARTIFICIAL ISLAND
FOOT OF BUTTONWOOD RD
LOWER ALLOWAYS CREEK, NJ 08038

Report Recipient:

PSE&G Nuclear LLC - MC - N21
Alison Kraus
P.O. BOX 236
HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0025411
Monitoring Period: 12/01/2017 To 12/31/2017
Monitored Location: 461A DSN 461A - DSW
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

Results are included on this months MRFs for the annual Acute and Chronic Toxicity tests, sampled on 11/30/17 and 12/1/17 respectively.



State of New Jersey
Department of Environmental Protection

Surface Water Discharge Monitoring Report

PI: 46815

Shell Generation Date: 7/24/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 12/01/2017 - 12/31/2017

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	38.725	41.004	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Flow, In Conduit or Thru Treatment Plant 50050 7 Intake From Stream	Sample Measurement	49.361	57.743	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
pH 00400 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	8.3	*****	8.6	SU	0	1 Week	GRAB
	Permit Requirement	*****	*****		6.0 01DAMN	*****	9.0 01DAMX			1/Week	GRAB
	QL	*****	*****		*****	*****	*****				
LC50 Statre 96hr Acu Mysid Bahia TAN3E 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	>100	*****	*****	%EFFL	0	1 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01RPMN	*****	*****			1/Year	COMPOS
	QL	*****	*****		*****	*****	*****				
IC25 Statre 7day Chr Mysid Bahia TBP3E 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	>100	*****	*****	%EFFL	0	1 Year	COMPOS
	Permit Requirement	*****	*****		REPORT 01RPMN	*****	*****			1/Year	COMPOS
	QL	*****	*****		*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Chlorine Produced Oxidants *CPOX 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<0.1	<0.1	MG/L	0	3 Week	GRAB
	Permit Requirement	*****	*****	*****	*****	0.2 01MOAV	0.5 01DAMX			3/Week	GRAB
	QL	*****	*****	*****	*****	*****	*****				
Temperature, oC 00010 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	20.8	27.7	DEG.C	0	Continuous	METER
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	36.2 01DAMX			Continuous	METER
	QL	*****	*****	*****	*****	*****	*****				
Temperature, oC 00010 7 Intake From Stream	Sample Measurement	*****	*****	*****	*****	7.8	10.8	DEG.C	0	Continuous	METER
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX			Continuous	METER
	QL	*****	*****	*****	*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	4.52	4.52	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	GRAB
	QL	*****	*****	*****	*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 2 Effluent Net Value	Sample Measurement	*****	*****	*****	*****	1.00	1.00	MG/L	0	1 Month	CALCTD
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	CALCTD
	QL	*****	*****	*****	*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Carbon, Tot Organic (TOC) 00680 7 Intake From Stream	Sample Measurement	*****	*****	*****	*****	2.48	2.48	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Sulfate, Total (as SO4) 00945 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Req E=N Not Required			UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Boron, Total (as B) 01022 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Req E=N Not Required			UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Heat (winter) (per Hr.) 81387 1 Effluent Gross Value	Sample Measurement	315	437	MBTU/HR	*****	*****	*****	*****	0	1 Day	CALCTD
	Permit Requirement	REPORT 01MOAV	662 01DAMX		*****	*****	*****			1/Day	CALCTD
	QL	*****	*****		*****	*****	*****				
Chromium, Total (as Cr) 01034 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	8.9	8.9	UG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	200 01MOAV	200 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Nickel, Total Recoverable 01074 1 Effluent Gross Value	Sample Measurement	*****	*****		*****	CODE=N Not Req	E=N Not Required		0	1 6 Months	COMPOS
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX	UG/L		1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Zinc, Total (as Zn) 01092 1 Effluent Gross Value	Sample Measurement	*****	*****		*****	26.0	26.0		0	1 Month	COMPOS
	Permit Requirement	*****	*****	*****	*****	1000 01MOAV	1000 01DAMX	UG/L		1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Copper, Total Recoverable 01119 1 Effluent Gross Value	Sample Measurement	*****	*****		*****	CODE=N Not Req	E=N Not Required		0	1 Quarter	COMPOS
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX	UG/L		1/Quarter	COMPOS
	QL	*****	*****		*****	*****	*****				
Cyanide, free 00719 1 Effluent Gross Value	Sample Measurement	*****	*****		*****	CODE=N Not Req	E=N Not Required		0	1 6 Months	COMPOS
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX	UG/L		1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	06003		PA051	03036					
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not App	NOT AP
	QL	*****	*****		*****	*****	*****				



Shell Generation Date: 7/24/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 461C DSN 461C - DSW internal - 12/01/2017 - 12/31/2017

PSEG NUCLEAR LLC
PO BOX 236

HANCOCKS BRIDGE, NJ 08038

HOPE CREEK GENERATING STATION
ARTIFICIAL ISLAND
FOOT OF BUTTONWOOD RD
LOWER ALLOWAYS CREEK, NJ 08038

PSE&G Nuclear LLC - MC - N21
Alison Kraus
P.O. BOX 236
HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0025411
Monitoring Period: 12/01/2017 To 12/31/2017
Monitored Location: 461C DSN 461C - DSW internal
Monitored Location Group:
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

--



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46815

Shell Generation Date: 7/24/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 461C DSN 461C - DSW internal - 12/01/2017 - 12/31/2017

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	0.058	0.090	MGD	*****	*****	*****	*****	0	Continuous	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	4	4	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	30 01MOAV	100 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Petrol Hydrocarbons, Total Recoverable 45501 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<2	<2	MG/L	0	2 Month	GRAB
	Permit Requirement	*****	*****		*****	10 01MOAV	15 01DAMX			2/Month	GRAB
	QL	*****	*****		*****	*****	*****				
Carbon, Tot Organic (TOC) 00680 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	2	2	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	50 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
Zinc, Total Recoverable 01094 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N Not Required		UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Copper, - Total Recoverable 01119 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N Not Req	E=N Not Required	UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	06003		PA051	03036					
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				



Shell Generation Date: 7/24/2017

Monitoring Report Comments:

--



State of New Jersey
Department of Environmental Protection
Surface Water Discharge Monitoring Report

PI: 46815

Shell Generation Date: 7/24/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 462B DSN 462B - DSW Internal - 12/01/2017 - 12/31/2017

Discharge Monitoring Data:											
Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Flow, In Conduit or Thru Treatment Plant 50050 1 Effluent Gross Value	Sample Measurement	0.016	0.022	MGD	*****	*****	*****	*****	0	Continucus	METER
	Permit Requirement	REPORT 01MOAV	REPORT 01DAMX		*****	*****	*****			Continuous	METER
	QL	*****	*****		*****	*****	*****				
BOD, 5-Day (20 oC) 00310 G Raw Sew/Influent	Sample Measurement	*****	*****	*****	*****	201	201	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
BOD, 5-Day (20 oC) 00310 1 Effluent Gross Value	Sample Measurement	1	1	KG/DAY	*****	5	5	MG/L	0	1 Month	COMPOS
	Permit Requirement	8 01MOAV	REPORT 01WKAV		*****	30 01MOAV	45 01WKAV			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				
BOD, 5-Day (20 oC) 00310 K Percent Removal	Sample Measurement	*****	*****	*****	97.5	*****	*****	PERCENT	0	1 Month	CALCTD
	Permit Requirement	*****	*****		87.5 01MOAVMN	*****	*****			1/Month	CALCTD
	QL	*****	*****		*****	*****	*****				
Solids, Total Suspended 00530 G Raw Sew/Influent	Sample Measurement	*****	*****	*****	*****	224	224	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/Month	COMPOS
	QL	*****	*****		*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended 00530 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	6	6	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****	*****	*****	30 01MOAV	45 01WKAV			1/Month	COMPOS
	QL	*****	*****	*****	*****	*****	*****				
Solids, Total Suspended 00530 K Percent Removal	Sample Measurement	*****	*****	*****	97	97	*****	PERCENT	0	1 Month	CALCTD
	Permit Requirement	*****	*****	*****	85 01MOAVMN	REPORT 01MOAV	*****			1/Month	CALCTD
	QL	*****	*****	*****	*****	*****	*****				
Oil and Grease 00556 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	<1	<1	MG/L	0	1 Month	GRAB
	Permit Requirement	*****	*****	*****	*****	10 01MOAV	15 01DAMX			1/Month	GRAB
	QL	*****	*****	*****	*****	*****	*****				
Nitrogen, Ammonia Total (as N) 00610 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	2	2	MG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****	*****	*****	35 01MOAV	REPORT 01DAMX			1/Month	COMPOS
	QL	*****	*****	*****	*****	*****	*****				
Coliform, Fecal General 74055 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	1	1	#/100ML	0	1 Month	GRAB
	Permit Requirement	*****	*****	*****	*****	200 01MOGE	400 01WKGE			1/Month	GRAB
	QL	*****	*****	*****	*****	*****	*****				
Zinc, Total Recoverable 01094 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	CODE=N Not Required E=N Not Required			UG/L	0	1 Month	COMPOS
	Permit Requirement	*****	*****	*****	*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****	*****	*****	*****	*****				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable 01119 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N Not Req	E=N Not Required	UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Cyanide, free 00719 1 Effluent Gross Value	Sample Measurement	*****	*****	*****	*****	CODE=N Not Req	E=N Not Required	UG/L	0	1 6 Months	COMPOS
	Permit Requirement	*****	*****		*****	REPORT 01MOAV	REPORT 01DAMX			1/6 Months	COMPOS
	QL	*****	*****		*****	*****	*****				
Lab Certification # 99999 99 Lab	Sample Measurement	17451	06003		PA051						
	Permit Requirement	REPORT Lab #	REPORT Lab #		REPORT Lab #	REPORT Lab #	REPORT Lab #			Not Applic	NOT AP
	QL	*****	*****		*****	*****	*****				



State of New Jersey
Department of Environmental Protection
Consolidated Waste Characterization Report

PI: 46815

Shell Generation Date: 7/1/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 462B DSN 462B - DSW Internal - 07/01/2017 - 12/31/2017

Permittee:

PSEG NUCLEAR LLC
PO BOX 236

HANCOCKS BRIDGE, NJ 08038

Location of Activity:

HOPE CREEK GENERATING STATION
ARTIFICIAL ISLAND
FOOT OF BUTTONWOOD RD
LOWER ALLOWAYS CREEK, NJ 08038

Report Recipient:

PSE&G Nuclear LLC - MC - N21
Alison Kraus
P.O. BOX 236
HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0025411
Monitoring Period: 07/01/2017 To 12/31/2017
Monitored Location: 462B DSN 462B - DSW Internal
Monitored Location Group: N/A
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

--



State of New Jersey
Department of Environmental Protection
Consolidated Waste Characterization Report

PI: 46815

Shell Generation Date:

7/1/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 462B DSN 462B - DSW Internal - 07/01/2017 - 12/31/2017

Sample Date: (mm/dd/yyyy) 12/20/2017

Waste Characterization Data:				
Parameter	Reported Value	Units	Remark Code	Sample Type
Cyanide, Total (as CN) 00720 1 Effluent Gross Value	<10 RQL = 40	UG/L		GRAB
Nickel, Total Recoverable 01074 1 Effluent Gross Value	<0.48 RQL = 10	UG/L		GRAB
Zinc, Total Recoverable 01094 1 Effluent Gross Value	85.0 RQL = 10	UG/L		GRAB
Cadmium, Total Recoverable 01113 1 Effluent Gross Value	<0.32 RQL = 4	UG/L		GRAB
Chromium, Total Recoverable 01118 1 Effluent Gross Value	<0.21 RQL = 10	UG/L		GRAB
Copper, Total Recoverable 01119 1 Effluent Gross Value	45.6 RQL = 2	UG/L		GRAB
Lab Certification # 99999 99 Lab	PA051			NOT AP
Lab Certification # 99999 99 Lab				NOT AP



State of New Jersey
Department of Environmental Protection

Consolidated Waste Characterization Report

PI: 46815

Shell Generation Date: 7/1/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 07/01/2017 - 06/30/2018

Permittee:

PSEG NUCLEAR LLC
PO BOX 236

HANCOCKS BRIDGE, NJ 08038

Location of Activity:

HOPE CREEK GENERATING STATION
ARTIFICIAL ISLAND
FOOT OF BUTTONWOOD RD
LOWER ALLOWAYS CREEK, NJ 08038

Report Recipient:

PSE&G Nuclear LLC - MC - N21
Alison Kraus
P.O. BOX 236
HANCOCKS BRIDGE, NJ 08038

NJPDES Permit Number: NJ0025411
Monitoring Period: 07/01/2017 To 06/30/2018
Monitored Location: 461A DSN 461A - DSW
Monitored Location Group: N/A
Region / County: Southern / Salem

Check if Applicable: ☐ No Discharge This Monitoring Period

Monitoring Report Comments:

A grab sample for Cyanide Total was obtained on 12/26/17, analyzed on 1/4/18, result: <5.0 UG/L. The Following analytes were sampled for on 11/3/17 and were also reported on the MRFs for November 2017's DMR: Chromium, Total, result 5.9 UG/L; Nickel, Total, result: <0.48 UG/L and Zinc, Total, result: 32.5 UG/L. All three analyzed on 11/13/17.



State of New Jersey

Department of Environmental Protection

Consolidated Waste Characterization Report

PI: 46815

Shell Generation Date:

7/1/2017

HOPE CREEK GENERATING STATION - NJ0025411 - 461A DSN 461A - DSW - 07/01/2017 - 06/30/2018

Sample Date: (mm/dd/yyyy) 11/30/2017

Waste Characterization Data:				
Parameter	Reported Value	Units	Remark Code	Sample Type
Barium, Total (as Ba) 01007 1 Effluent Gross Value	43.8 RQL = 20	UG/L		COMP24
Manganese, Total (as Mn) 01055 1 Effluent Gross Value	115	UG/L		COMP24
Cyanide, Total (as CN) 00720 1 Effluent Gross Value	CODE=8 Other RQL = 40	UG/L		GRAB
Arsenic, Total (as As) 01002 1 Effluent Gross Value	4.2 RQL = 8	UG/L		COMP24
Beryllium, Total (as Be) 01012 1 Effluent Gross Value	<0.31 RQL = 20	UG/L	analyzed for but not detected	COMP24
Cadmium, Total (as Cd) 01027 1 Effluent Gross Value	<0.69 RQL = 4	UG/L	analyzed for but not detected	COMP24
Chromium, Total (as Cr) 01034 1 Effluent Gross Value	CODE=8 Other RQL = 10	UG/L		COMP24

See Comments
RZ Code = 8
Submission
Cyanide, Cr, Ni, Zn

Parameter	Reported Value	Units	Remark Code	Sample Type
Thallium, Total (as Tl) 01059 1 Effluent Gross Value	<7.7 RQL = 10	UG/L	analyzed for but not detected	COMP24
Nickel, Total (as Ni) 01067 1 Effluent Gross Value	CODE=8 Other RQL = 10	UG/L		COMP24
Silver, Total (as Ag) 01077 1 Effluent Gross Value	<3.0 RQL = 2	UG/L	analyzed for but not detected	COMP24
Zinc, Total Recoverable 01094 1 Effluent Gross Value	CODE=8 Other RQL = 10	UG/L		COMP24
Antimony, Total (as Sb) 01097 1 Effluent Gross Value	<3.0 RQL = 20	UG/L	analyzed for but not detected	COMP24
Lead, Total Recoverable 01114 1 Effluent Gross Value	3.5 RQL = 1	UG/L		COMP24
Selenium, Total (as Se) 01147 1 Effluent Gross Value	<7.2 RQL = 10	UG/L	analyzed for but not detected	COMP24
Chromium, Hexavalent Dissolved (as Cr) 01220 1 Effluent Gross Value	<7.8	UG/L	analyzed for but not detected	COMP24
Mercury, Total (as Hg) 71900 1 Effluent Gross Value	0.18 RQL = 1	UG/L		COMP24
Acenaphthylene 34200 1 Effluent Gross Value	<0.14 RQL = 10	UG/L	analyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
Acenaphthene 34205 1 Effluent Gross Value	<0.19 RQL = 9.5	UG/L	analyzed for but not detected	COMP24
Anthracene 34220 1 Effluent Gross Value	<0.21 RQL = 10	UG/L	analyzed for but not detected	COMP24
Benzo(b)fluoranthene (3,4-benzo) 34230 1 Effluent Gross Value	<0.21	UG/L	analyzed for but not detected	COMP24
Benzo(k)fluoranthene 34242 1 Effluent Gross Value	<0.21 RQL = 20	UG/L	analyzed for but not detected	COMP24
Benzo(a)pyrene 34247 1 Effluent Gross Value	<0.21 RQL = 20	UG/L	analyzed for but not detected	COMP24
Bis(2-chloroethyl) ether 34273 1 Effluent Gross Value	<0.25 RQL = 10	UG/L	analyzed for but not detected	COMP24
Bis(2-chloroethoxy) methane 34278 1 Effluent Gross Value	<0.28 RQL = 26.5	UG/L	analyzed for but not detected	COMP24
Bis (2-chloroiso- propyl) ether 34283 1 Effluent Gross Value	<0.40 RQL = 10	UG/L	analyzed for but not detected	COMP24
Butyl benzyl phthalate 34292 1 Effluent Gross Value	<0.46 RQL = 20	UG/L	analyzed for but not detected	COMP24
Chrysene 34320 1 Effluent Gross Value	<0.18 RQL = 20	UG/L	analyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
Diethyl phthalate 34336 1 Effluent Gross Value	<0.26 RQL = 10	UG/L	nalyzed for but not detected	COMP24
Dimethyl phthalate 34341 1 Effluent Gross Value	<0.22 RQL = 10	UG/L	nalyzed for but not detected	COMP24
1,2-Diphenyl- hydrazine 34346 1 Effluent Gross Value	<0.19	UG/L	nalyzed for but not detected	COMP24
Fluoranthene 34376 1 Effluent Gross Value	<0.17 RQL = 10	UG/L	nalyzed for but not detected	COMP24
Fluorene 34381 1 Effluent Gross Value	<0.17 RQL = 10	UG/L	nalyzed for but not detected	COMP24
Hexachlorocyclo- pentadiene 34386 1 Effluent Gross Value	<2.8 RQL = 10	UG/L	nalyzed for but not detected	COMP24
Hexachloroethane 34396 1 Effluent Gross Value	<0.39 RQL = 10	UG/L	nalyzed for but not detected	COMP24
Indeno(1,2,3-cd)- pyrene 34403 1 Effluent Gross Value	<0.33 RQL = 20	UG/L	nalyzed for but not detected	COMP24
Isophorone 34408 1 Effluent Gross Value	<0.28 RQL = 10	UG/L	nalyzed for but not detected	COMP24
N-nitrosodi-n- propylamine 34428 1 Effluent Gross Value	<0.48 RQL = 20	UG/L	nalyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
N-nitrosodiphenyl- amine 34433 1 Effluent Gross Value	<0.22 RQL = 20	UG/L	analyzed for but not detected	COMP24
N-nitrosodimethyl- amine 34438 1 Effluent Gross Value	<0.82 RQL = 20	UG/L	analyzed for but not detected	COMP24
Nitrobenzene 34447 1 Effluent Gross Value	<0.64 RQL = 10	UG/L	analyzed for but not detected	COMP24
Phenanthrene 34461 1 Effluent Gross Value	<0.18 RQL = 10	UG/L	analyzed for but not detected	COMP24
Pyrene 34469 1 Effluent Gross Value	<0.22 RQL = 20	UG/L	analyzed for but not detected	COMP24
Benzo(ghi)perylene 34521 1 Effluent Gross Value	<0.34 RQL = 20	UG/L	analyzed for but not detected	COMP24
Benzo(a)anthracene 34526 1 Effluent Gross Value	<0.20 RQL = 10	UG/L	analyzed for but not detected	COMP24
1,2-Dichlorobenzene 34536 1 Effluent Gross Value	<0.17 RQL = 9	UG/L	analyzed for but not detected	COMP24
1,2,4-Trichloro- benzene 34551 1 Effluent Gross Value	<0.25 RQL = 10	UG/L	analyzed for but not detected	COMP24
Dibenzo(a,h) anthracene 34556 1 Effluent Gross Value	<0.33 RQL = 20	UG/L	analyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
1,3-Dichlorobenzene 34566 1 Effluent Gross Value	<0.19 RQL = 9	UG/L	analyzed for but not detected	COMP24
1,4-Dichlorobenzene 34571 1 Effluent Gross Value	<0.17 RQL = 20	UG/L	analyzed for but not detected	COMP24
2-Chloronaphthalene 34581 1 Effluent Gross Value	<0.24 RQL = 9.5	UG/L	analyzed for but not detected	COMP24
Di-n-octyl Phthalate 34596 1 Effluent Gross Value	<0.23	UG/L	analyzed for but not detected	COMP24
2,4-Dinitrotoluene 34611 1 Effluent Gross Value	<0.55 RQL = 10	UG/L	analyzed for but not detected	COMP24
2,6-Dinitrotoluene 34626 1 Effluent Gross Value	<0.48 RQL = 9.5	UG/L	analyzed for but not detected	COMP24
3,3'-Dichloro- benzidine 34631 1 Effluent Gross Value	<0.51 RQL = 60	UG/L	analyzed for but not detected	COMP24
4-Bromophenyl phenyl ether 34636 1 Effluent Gross Value	<0.40 RQL = 9.5	UG/L	analyzed for but not detected	COMP24
Naphthalene 34696 1 Effluent Gross Value	<0.23 RQL = 8	UG/L	analyzed for but not detected	COMP24
Bis(2-ethylhexyl) phthalate 39100 1 Effluent Gross Value	<1.7 RQL = 30	UG/L	analyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
Di-n-butyl phthalate 39110 1 Effluent Gross Value	1.0 RQL = 20	UG/L		COMP24
Benzidine 39120 1 Effluent Gross Value	<0.90 RQL = 50	UG/L	analyzed for but not detected	COMP24
Hexachlorobenzene 39700 1 Effluent Gross Value	<0.33 RQL = 10	UG/L	analyzed for but not detected	COMP24
Hexachlorobutadiene 39702 1 Effluent Gross Value	<0.49 RQL = 10	UG/L	analyzed for but not detected	COMP24
1,3-Dichloropropene 77163 1 Effluent Gross Value	<0.36 RQL = 7	UG/L	analyzed for but not detected	GRAB
Carbon Tetrachloride 32102 1 Effluent Gross Value	<0.31 RQL = 6	UG/L	analyzed for but not detected	GRAB
1,2-Dichloroethane 32103 1 Effluent Gross Value	<0.32 RQL = 1	UG/L	analyzed for but not detected	GRAB
Bromoform 32104 1 Effluent Gross Value	2.5 RQL = 8	UG/L		GRAB
Chloroform 32106 1 Effluent Gross Value	<0.20 RQL = 5	UG/L	analyzed for but not detected	GRAB
Toluene 34010 1 Effluent Gross Value	<0.24 RQL = 6	UG/L	analyzed for but not detected	GRAB

Parameter	Reported Value	Units	Remark Code	Sample Type
Benzene 34030 1 Effluent Gross Value	<0.23 RQL = 7	UG/L	analyzed for but not detected	GRAB
Acrolein 34210 1 Effluent Gross Value	<6.2 RQL = 50	UG/L	analyzed for but not detected	GRAB
Acrylonitrile 34215 1 Effluent Gross Value	<1.9 RQL = 50	UG/L	analyzed for but not detected	GRAB
Chlorobenzene 34301 1 Effluent Gross Value	<0.23 RQL = 6	UG/L	analyzed for but not detected	GRAB
Chlorodibromomethane 34306 1 Effluent Gross Value	<0.30 RQL = 6	UG/L	analyzed for but not detected	GRAB
Ethylbenzene 34371 1 Effluent Gross Value	<0.21 RQL = 6	UG/L	analyzed for but not detected	GRAB
Methyl Bromide 34413 1 Effluent Gross Value	<0.74 RQL = 9	UG/L	analyzed for but not detected	GRAB
Methyl Chloride 34418 1 Effluent Gross Value	<0.29 RQL = 10	UG/L	analyzed for but not detected	GRAB
Methylene Chloride 34423 1 Effluent Gross Value	<0.55 RQL = 6	UG/L	analyzed for but not detected	GRAB
Tetrachloroethylene 34475 1 Effluent Gross Value	<0.82 RQL = 1	UG/L	analyzed for but not detected	GRAB

Parameter	Reported Value	Units	Remark Code	Sample Type
Trichlorofluoro- methane 34488 1 Effluent Gross Value	<0.89 RQL = 5	UG/L	analyzed for but not detected	GRAB
1,1-Dichloroethane 34496 1 Effluent Gross Value	<0.32 RQL = 23.5	UG/L	analyzed for but not detected	GRAB
1,1-Dichloroethylene 34501 1 Effluent Gross Value	<0.57 RQL = 6	UG/L	analyzed for but not detected	GRAB
1,1,1-Trichloro- ethane 34506 1 Effluent Gross Value	<0.36 RQL = 6	UG/L	analyzed for but not detected	GRAB
1,1,2-Trichloro- ethane 34511 1 Effluent Gross Value	<0.35 RQL = 6	UG/L	analyzed for but not detected	GRAB
1,1,2,2-Tetrachloro- ethane 34516 1 Effluent Gross Value	<0.24 RQL = 10	UG/L	analyzed for but not detected	GRAB
1,2-Dichloropropane 34541 1 Effluent Gross Value	<0.36 RQL = 5	UG/L	analyzed for but not detected	GRAB
1,2-trans-Dichloro- ethylene 34546 1 Effluent Gross Value	<0.40 RQL = 4	UG/L	analyzed for but not detected	GRAB
2-Chloroethyl Vinyl Ether (Mixed) 34576 1 Effluent Gross Value	<1.5	UG/L	analyzed for but not detected	GRAB
Bromodichloromethane 38693 1 Effluent Gross Value	<0.19 RQL = 5	UG/L	analyzed for but not detected	GRAB

Parameter	Reported Value	Units	Remark Code	Sample Type
Vinyl Chloride 39175 1 Effluent Gross Value	<0.29 RQL = 10	UG/L	analyzed for but not detected	GRAB
Trichloroethylene 39180 1 Effluent Gross Value	<0.24 RQL = 1	UG/L	analyzed for but not detected	GRAB
Methoxychlor 39480 1 Effluent Gross Value	<0.0052	UG/L	analyzed for but not detected	COMP24
N-Nitrosodi- n-butylamine 73609 1 Effluent Gross Value	<0.60	UG/L	analyzed for but not detected	COMP24
Chloroethane 85811 1 Effluent Gross Value	<0.63	UG/L	analyzed for but not detected	GRAB
Parachloro-m- cresol 34452 1 Effluent Gross Value	<0.89	UG/L	analyzed for but not detected	COMP24
Phenols 46000 1 Effluent Gross Value	<29	UG/L	analyzed for but not detected	GRAB
Delta BHC, Total (ug/l) 34259 1 Effluent Gross Value	<0.0041 RQL = 0.02	UG/L	analyzed for but not detected	COMP24
Endosulfan Sulfate 34351 1 Effluent Gross Value	<0.0048 RQL = 0.08	UG/L	analyzed for but not detected	COMP24
Beta Endosulfan 34356 1 Effluent Gross Value	<0.0039 RQL = 0.04	UG/L	analyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
Alpha Endosulfan 34361 1 Effluent Gross Value	<0.0045 RQL = 0.02	UG/L	analyzed for but not detected	COMP24
Endrin Aldehyde 34366 1 Effluent Gross Value	<0.0047 RQL = 0.1	UG/L	analyzed for but not detected	COMP24
2,3,7,8-Tetrachloro- dibenzo-p-dioxin 34675 1 Effluent Gross Value	<2.11e-06	UG/L	analyzed for but not detected	COMP24
4,4'-DDT(p,p'-DDT) 39300 1 Effluent Gross Value	<0.0045 RQL = 0.06	UG/L	analyzed for but not detected	COMP24
4,4'-DDD(p,p'-DDD) 39310 1 Effluent Gross Value	<0.0035 RQL = 0.04	UG/L	analyzed for but not detected	COMP24
4,4'-DDE(p,p'-DDE) 39320 1 Effluent Gross Value	<0.0056 RQL = 0.04	UG/L	analyzed for but not detected	COMP24
Aldrin 39330 1 Effluent Gross Value	<0.0055 RQL = 0.04	UG/L	analyzed for but not detected	COMP24
Alpha BHC 39336 1 Effluent Gross Value	<0.0055 RQL = 0.02	UG/L	analyzed for but not detected	COMP24
Beta BHC 39338 1 Effluent Gross Value	<0.0052 RQL = 0.04	UG/L	analyzed for but not detected	COMP24
Chlordane 39350 1 Effluent Gross Value	<0.10 RQL = 0.2	UG/L	analyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
Dieldrin 39380 1 Effluent Gross Value	<0.0033 RQL = 0.03	UG/L	analyzed for but not detected	COMP24
Endosulfans, Total (alpha and beta) 39388 1 Effluent Gross Value	<0.0084	UG/L	analyzed for but not detected	COMP24
Endrin 39390 1 Effluent Gross Value	<0.0046 RQL = 0.04	UG/L	analyzed for but not detected	COMP24
Toxaphene 39400 1 Effluent Gross Value	<0.17 RQL = 1	UG/L	analyzed for but not detected	COMP24
Heptachlor 39410 1 Effluent Gross Value	<0.0035 RQL = 0.02	UG/L	analyzed for but not detected	COMP24
Heptachlor Epoxide 39420 1 Effluent Gross Value	<0.0059 RQL = 0.4	UG/L	analyzed for but not detected	COMP24
2-Chlorophenol 34586 1 Effluent Gross Value	<0.82 RQL = 20	UG/L	analyzed for but not detected	COMP24
2-Nitrophenol 34591 1 Effluent Gross Value	<0.96 RQL = 18	UG/L	analyzed for but not detected	COMP24
2,4-Dichlorophenol 34601 1 Effluent Gross Value	<1.3 RQL = 10	UG/L	analyzed for but not detected	COMP24
2,4-Dimethylphenol 34606 1 Effluent Gross Value	<2.4 RQL = 13.5	UG/L	analyzed for but not detected	COMP24

Parameter	Reported Value	Units	Remark Code	Sample Type
2,4-Dinitrophenol 34616 1 Effluent Gross Value	<1.6 RQL = 40	UG/L	analyzed for but not detected	COMP24
2,4,6-Trichloro- phenol 34621 1 Effluent Gross Value	<0.92 RQL = 20	UG/L	analyzed for but not detected	COMP24
4-Chlorophenyl phenyl ether 34641 1 Effluent Gross Value	<0.37 RQL = 21	UG/L	analyzed for but not detected	COMP24
4-Nitrophenol 34646 1 Effluent Gross Value	<1.2 RQL = 12	UG/L	analyzed for but not detected	COMP24
4,6-Dinitro-o-cresol 34657 1 Effluent Gross Value	<1.3 RQL = 60	UG/L	analyzed for but not detected	COMP24
Phenol Single Compound 34694 1 Effluent Gross Value	<0.39 RQL = 10	UG/L	analyzed for but not detected	COMP24
Pentachlorophenol 39032 1 Effluent Gross Value	<1.4 RQL = 30	UG/L	analyzed for but not detected	COMP24
Lab Certification # 99999 99 Lab	12129			NOT AP
Lab Certification # 99999 99 Lab	NC100			NOT AP
Lab Certification # 99999 99 Lab	PA051			NOT AP
Lab Certification # 99999 99 Lab				NOT AP
Lab Certification # 99999 99 Lab				NOT AP