

Appendix B-LGS and Bradshaw Reservoir NPDES Permits and Related Correspondence

Letter to Edward W. Callan, Exelon Generation Co. LLC, from Pravin C. Patel, PADEP, dated December 15, 2010. Notification of administratively complete application.

Authorization to Discharge Under the National Pollutant Discharge Elimination System Discharge Requirements for Industrial Wastewater Facilities, Limerick Generating Station, NPDES Permit No. PA0051926, Amendment No. 1, effective April 1, 2006, expires March 31, 2011.

Authorization to Discharge Under the National Pollutant Discharge Elimination System Discharge Requirements for Industrial Wastewater Facilities, Bradshaw Reservoir, NPDES Permit No. PA0052221, effective July 1, 2009, expires June 30, 2014.



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office

December 15, 2010

Mr. Edward W. Callan
Plant Manager
Exelon Generation Co. LLC
3146 Sanatoga Road
Pottstown, PA 19464

Re: Limerick Generating Station
Application No. PA0051926
APS No. 737154, AUTH No. 859979
Limerick Township
Montgomery County

Dear Mr. Callan:

On September 28, 2010, the Department of Environmental Protection (DEP) received the above referenced application for a discharge of treated industrial wastewater and storm water from Limerick Generating Station, located at 3146 Sanatoga Road, Pottstown, PA 19464.

Permit applications undergo a series of reviews before a final decision is rendered by DEP. We have reviewed your application in order to determine whether it contains the information, plans, fees, and other documents necessary for administrative completeness.

Your application is ***administratively complete*** and will be processed for technical review. You will be notified in writing or by phone if additional information is required before a technical decision can be reached.

Your permit application is eligible for the DEP's Money Back Guarantee Program. The program establishes that your application must be acted on within 290 days or your application fee will be returned. The program is explained in more detail in the enclosed fact sheet.

You will be contacted in the near future if any other permits or approvals are needed in conjunction with the above application. Please refer to the enclosed permit process information sheet for questions concerning the permitting process. For questions about your application, please call me at 484.250.5194.

Sincerely,



Pravin C. Patel, P.E.

Permits Section

Water Management Program

Enclosures: Permit Process Information
Money Back Guarantee Information

cc: Limerick Township
East Coventry Township
Montgomery County Health Department
Mr. Trulear - EPA 3WP41 (w/application)
DRBC (w/application)
Mr. Lashley
Re 30



Pennsylvania Department of Environmental Protection

2 East Main Street
Norristown, PA 19401
April 25, 2006

Southeast Regional Office

Phone: 484-250-5970
Fax: 484-250-5971

Mr. Tracy J. Siglin
Environmental Specialist
Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348

Re: Limerick Generating Station
Industrial Waste Permit No. PA0051926
Amendment No. 1
File Type: NPDES
Limerick Township
Montgomery County

Dear Mr. Siglin:

Your amended permit is enclosed.

Please make a note that the following changes are made to the NPDES permit issued on March 24, 2006:

1. Based on your request, we changed the monitoring requirement for cadmium, total to monitor/report on page 2 of the permit.
2. Monitoring requirements are revised for the internal monitoring point 401 which represents discharge from the emergency spray pond. Flow measurements shall be taken from the overflow weir and phosphorus shall be sampled once a week from the pond. Page 5 of the permit reflects these changes.
3. Based on your request, we changed the monitoring requirement for total suspended solids to monitor/report on pages 7, 8, and 16 of the permit.
4. Based on your request, we changed the monitoring requirement for total suspended solids, and iron dissolved to monitor/report on page 12 of the permit.
5. Page 13 of the permit is revised to include a table showing discharge parameters to be monitored for stormwater discharge.



6. On April 13, 2006, we received a list of chemical additives with a revised usage rates. Page 31 of the permit is revised to reflect usage rates requested. Based on the aquatic toxicity data for the chemical additive Spectrus NX1103, we are unable to approve a proposed usage rate of 780 lbs/day. An allowable usage rate of 20 lbs/day for this additive is included in the permit.
7. A condition specifying the purpose of an instantaneous maximum limitation for pH and temperature in the permit is included on page 33 of the permit as Condition No. 18.
8. Due to the above changes, we prepared a revised discharge monitoring report form pages 1, 4, 6, 7, 12, and 13 of 13. These revised pages are enclosed.

The discharge limitations and monitoring requirements in your NPDES permit are also typed on the original Discharge Monitoring Report (DMR) that is attached to the permit. That original DMR is provided as a master, so do not write on it, but rather: (1) make copies of it; (2) after doing the sample analyses and flow measurements required by the permit, fill out all the empty blocks on one of the copies by following the instructions on the back of the original DMR; and (3) make copies of the filled completed DMR and send one to each of the addresses listed in Part C of the permit.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

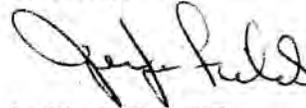
Mr. Tracy J. Siglin

- 3 -

April 25, 2006

If you have any questions, please call Mr. Sohan L. Garg at 484-250-5197.

Sincerely,



Jenifer Fields, P.E.
Regional Manager
Water Management

Enclosures: Amended Permit
Discharge Monitoring Report Pages 1, 4, 6, 7, 12, and 13 of 13

cc: Limerick Township
Delaware River Basin Commission
Operations Section
Data Systems and Analysis
Montgomery County Health Department
EPA
File
Re (CD05WQM)256-13N



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**

NPDES PERMIT NO: PA0051926 Amendment No. 1

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, *as amended*, 35 P.S. Section 691.1 *et seq.*,

**Exelon Generation Company, LLC – Client ID No. 147686
200 Exelon Way
Kennett Square, PA 19348**

is authorized to discharge from a facility known as **Limerick Generating Station**, located at **3146 Sanatoga Road, Pottstown, PA 19464, Limerick Township, Montgomery County** to the **Schuylkill River, Possum Hollow Run and Sanatoga Creek** in Watershed **3D** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON April 1, 2006

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON March 31, 2011

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions, or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
3. A complete application for reissuance of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form.

In the event that a timely and complete application for reissuance has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application.

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED _____

ISSUED BY 
Water Management Program Manager

DATE PERMIT AMENDMENT ISSUED April 25, 2006

Re 30 (CD05WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. For Outfall 001, Latitude 40°13'13", Longitude 75°35'22", River Mile Index 48.01, Stream Code 00833

which receives wastewater from cooling towers, spray pond, holding pond, treated radwaste, laundry drain, and filter backwash.

- a. The permittee is authorized to discharge during the period from issuance _____ through expiration _____.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Inst. Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (MGD)							1/Week	Measured
Total Suspended Solids *				30	60	75	1/Week	24 Hour Comp
Temperature **						110°F	1/Week	I-S
Total Residual Oxidants ****					0.2	0.5	1/Week	Grab
pH (STD UNIT)			6.0			9.0	1/Week	Grab
Spectrus CT1300 ***				0.2	0.4	0.5	1/Week	Grab
Cadmium, Total				Monitor/Report	Monitor/Report	Monitor/Report	2/Month	24 Hour Comp

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 001.

* See Other Requirement No 14. to calculate TSS credit during the use of chemical additive Spectrus DT1400 in the cooling towers.

** See Other Requirement No. 8.

*** See Other Requirement No. 15.

**** See Other Requirement Nos. 11, 12, and 13.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. For Internal Monitoring Point 201, Latitude 40°13'13", Longitude 75°35'22", River Mile Index 48.01, Stream Code 00833

which receives wastewater from holding pond. The holding pond receives non-hazardous and industrial wastewater generated as part of routine plant operations, testing and maintenance.

- a. The permittee is authorized to discharge during the period from issuance _____ through expiration _____.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (GPD)							1/Week	Measured
Total Suspended Solids				30	100		2/Month	Grab
Oil and Grease				15	20	30	2/Month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Internal Monitoring Point 201 at holding pond.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. For Internal Monitoring Point 301, Latitude 40°13'13", Longitude 75°35'22", River Mile Index 48.01, Stream Code 00833

which receives wastewater from radwaste treatment plant and laundry drain collection system.

- a. The permittee is authorized to discharge during the period from issuance _____ through expiration _____.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Inst. Minimum	Concentrations (mg/L)			Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum		Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (GPD)							1/Week	Measured
Total Suspended Solids				30	100		*	Grab
Oil and Grease				15	20	30	*	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Internal Monitoring Point 301. During discharge of wastewater from laundry drain collection system.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. For Internal Monitoring Point 401, Latitude 40°13'13", Longitude 75°35'22", River Mile Index 48.01, Stream Code 00833

which receives wastewater from emergency spray pond.

- a. The permittee is authorized to discharge during the period from issuance through expiration.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Inst. Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (GPD)							*	Measured
Total Phosphorus as P				Monitor	Monitor	Monitor	1/Week	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Flow measurement shall be taken from the emergency spray pond overflow location. Phosphorus sample shall be collected from the spray pond.

* Flow shall be measured during the time of discharge through the overflow location.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. **For Outfall** 002 , **Latitude** 40°13'17" , **Longitude** 75°35'15" , **River Mile Index** 0.23 , **Stream Code** 01640
which receives storm water from Area around former sewage treatment plant and service roads.
- For Outfall** 004 , **Latitude** 40°13'18" , **Longitude** 75°35'07" , **River Mile Index** 0.30 , **Stream Code** 01640
which receives storm water from Fuel storage area.
- For Outfall** 022 , **Latitude** 40°13'12" , **Longitude** 75°35'16" , **River Mile Index** 0.19 , **Stream Code** 01640
which receives storm water from Area around wastewater treatment plant and service roads.
- a. The permittee is authorized to discharge during the period from issuance through expiration
- b. Based on the production data and anticipated storm water characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17 and Other Requirement No. 6 in Part C).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)				
	Average Annual	Average Semi Annual	Maximum Daily	Minimum Measurement Frequency	Required Sample Type
CBOD ₅			Monitor/Report	1/Year	Grab
COD			Monitor/Report	1/Year	Grab
Oil and Grease			Monitor/Report	1/Year	Grab
pH			Monitor/Report	1/Year	Grab
Total Suspended Solids			Monitor/Report	1/Year	Grab
Total Kjeldahl Nitrogen			Monitor/Report	1/Year	Grab
Total Phosphorus			Monitor/Report	1/Year	Grab
Iron (Dissolved)			Monitor/Report	1/Year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At least one of the above three outfalls must be sampled and others shall be inspected once a year.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. For Outfall 003, Latitude 40°13'17", Longitude 75°35'14", River Mile Index 0.265, Stream Code 01640

which receives waste water from floor drains, chiller waste water from condenser boxes associated with turbine unit 1, and stormwater from area around the unit.

- a. The permittee is authorized to discharge during the period from issuance _____ through expiration _____.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Instantaneous Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (MGD)							*	Calculated
Total Suspended Solids				Monitor/Report	Monitor/Report	Monitor/Report	*	Grab
Temperature						110°F	*	I-S
Total Residual Oxidants					0.2	0.5	*	Grab
pH (STD UNIT)			6.0			9.0	*	Grab
Spectrus CT1300				0.2	0.4	0.5	*	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 003.

*Sample during discharge through drain valve associated with the circulating water pumps.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. For Outfall 005, Latitude 40°13'19", Longitude 75°35'05", River Mile Index 0.36, Stream Code 01640

which receives waste water from floor drains, chiller waste water from condenser boxes associated with turbine unit 2, and stormwater from area around the unit.

- a. The permittee is authorized to discharge during the period from issuance through expiration.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Instantaneous Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (MGD)							*	Calculated
Total Suspended Solids				Monitor/Report	Monitor/Report	Monitor/Report	*	Grab
Temperature						110°F	*	I-S
Total Residual Oxidants					0.2	0.5	*	Grab
pH (STD UNIT)			6.0			9.0	*	Grab
Spectrus CT1300				0.2	0.4	0.5	*	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 005.

* Sample during discharge through drain valve associated with the circulating water pumps.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. **For Outfall** 006 , **Latitude** 40°13'26" , **Longitude** 75°35'22" , **River Mile Index** 48.114 , **Stream Code** 00833
which receives storm water from Maintenance area of metal shop and hardware.
 - For Outfall** 007 , **Latitude** 40°13'27" , **Longitude** 75°35'22" , **River Mile Index** 48.26 , **Stream Code** 00833
which receives storm water from Area around health physics building, hardware shop, and offices.
 - For Outfall** 008 , **Latitude** 40°13'28" , **Longitude** 75°35'23" , **River Mile Index** 48.322 , **Stream Code** 00833
which receives storm water from Area around health physics building and electrical substation.
 - For Outfall** 009 , **Latitude** 40°13'29" , **Longitude** 75°35'25" , **River Mile Index** 48.341 , **Stream Code** 00833
which receives storm water from Area around control building, instrumentation shop, and storage.
- a. The permittee is authorized to discharge during the period from issuance through expiration
 - b. Based on the production data and anticipated stormwater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17 and Other Requirement No. 6 in Part C).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type
	Average Annual	Average Semi Annual	Maximum Daily		
CBOD ₅			Monitor/Report	1/Year	Grab
COD			Monitor/Report	1/Year	Grab
Oil and Grease			Monitor/Report	1/Year	Grab
pH			Monitor/Report	1/Year	Grab
Total Suspended Solids			Monitor/Report	1/Year	Grab
Total Kjeldahl Nitrogen			Monitor/Report	1/Year	Grab
Total Phosphorus			Monitor/Report	1/Year	Grab
Iron (Dissolved)			Monitor/Report	1/Year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At least one of these outfalls must be sampled and others shall be inspected once a year.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. For Outfall 010 , Latitude 40°13'15" , Longitude 75°35'22" , River Mile Index 48.114 , Stream Code 00833
which receives waste water from Schuylkill River intake water through makeup header drain.

- a. The permittee is authorized to discharge during the period from issuance through expiration
- b. Based on the production data and anticipated waste water characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17).
- c. This discharge shall consist solely of Schuylkill River water from the makeup header drain.

NO MONITORING REQUIRED

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Not monitored.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. For Outfall 011 , Latitude 40°13'15" , Longitude 75°35'23" , River Mile Index 48.17 , Stream Code 00833
which receives waste water from Intake screen backwash, Schuylkill River pump house pipe leakage, pump cooling water, and air compressor's condensate.
- a. The permittee is authorized to discharge during the period from issuance through expiration
- b. Based on the production data and anticipated waste water characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17).
- c. Debris collected on the intake trash racks shall not be returned to the Schuylkill River.

NO MONITORING REQUIRED

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Not monitored

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. For Outfall 012 , Latitude 40°13'15" , Longitude 75°35'23" , River Mile Index 48.06 , Stream Code 00833
which receives waste water from The dredging operation of the Schuylkill River Pump House and stormwater from service roads.

- a. The permittee is authorized to discharge during the period from issuance through expiration
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17 and Other Requirement No. 6 in Part C).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)				
	Average Annual	Average Semi Annual	Maximum Daily	Minimum Measurement Frequency	Required Sample Type
Flow (MGD)	Monitor/Report		Monitor/Report	*	Estimated
Oil and Grease	Monitor/Report		Monitor/Report	*	Grab
pH	Monitor/Report		Monitor/Report	*	Grab
Total Suspended Solids (3rd Year to 5th Year)	Monitor/Report		100	*	Composite
Iron, Total (3rd Year to 5th Year)	Monitor/Report		7.0	*	Composite
Iron, Dissolved	Monitor/Report		Monitor/Report	*	Composite
Total Suspended Solids (1st and 2nd Years)	Monitor/Report		Monitor/Report	*	Composite
Iron, Total (1st and 2nd Years)	Monitor/Report		Monitor/Report	*	Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 012

* The Outfall shall be monitored daily during discharge from the dredging operation. A composite sample means a composite sample collected during dredging.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1.	For Outfall	Latitude	Longitude	River Mile Index	Stream Code	Stormwater Source
	013	40°13'29"	75°35'05"	0.34	01640	Service roads and parking lots.
	014	40°13'26"	75°34'59"	0.378	01640	Service roads and parking lots.
	015	40°13'27"	75°34'59"	0.40	01640	Service roads and parking lots.
	016	40°13'28"	75°34'51"	0.435	01640	Service roads and parking lots.
	017	40°13'29"	75°33'52"	0.473	01640	Cooling towers drift loss, screen wash, & acid area
	018	40°13'30"	75°34'53"	0.510	01640	Yard drains
	019	40°13'34"	75°34'46"	0.570	01640	Service roads and parking lots.
	030	40°20'00"	75°37'34"	0.230	01641	Yard drains

- a. The permittee is authorized to discharge during the period from issuance through expiration
- b. Based on the production data and anticipated stormwater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17 and Other Requirement No. 6 in Part C).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type
	Average Annual	Average Semi Annual	Maximum Daily		
CBOD ₅			Monitor/Report	1/Year	Grab
COD			Monitor/Report	1/Year	Grab
Oil and Grease			Monitor/Report	1/Year	Grab
pH			Monitor/Report	1/Year	Grab
Total Suspended Solids			Monitor/Report	1/Year	Grab
Total Kjeldahl Nitrogen			Monitor/Report	1/Year	Grab
Total Phosphorus			Monitor/Report	1/Year	Grab
Iron (Dissolved)			Monitor/Report	1/Year	Grab

Sample taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At least one of these outfalls shall be sampled and others shall be inspected once a year.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. For Outfall 021 , Latitude 40°13'37" , Longitude 75°35'25" , River Mile Index 48.38 , Stream Code 00833 which receives storm water from Cooling towers' drift loss, cooling towers screen wash, and acid/chlorine storage area.
- a. The permittee is authorized to discharge during the period from issuance through expiration
- b. Based on the production data and anticipated storm water characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information on page 17 and Other Requirement No. 6 in Part C).

Discharge Parameter	Effluent Limitations			Monitoring Requirements	
	Concentrations (mg/l)			Minimum Measurement Frequency	Required Sample Type
	Average Annual	Average Semi Annual	Maximum Daily		
CBOD ₅			Monitor/Report	1/Year	Grab
COD			Monitor/Report	1/Year	Grab
Oil and Grease			Monitor/Report	1/Year	Grab
pH			Monitor/Report	1/Year	Grab
Total Suspended Solids			Monitor/Report	1/Year	Grab
Total Kjeldahl Nitrogen			Monitor/Report	1/Year	Grab
Total Phosphorus			Monitor/Report	1/Year	Grab
Iron (Dissolved)			Monitor/Report	1/Year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 021

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

For Outfall 020, Latitude 40°13'29", Longitude 75°34'50", River Mile Index 0.436, Stream Code 01640

which receives wastewater from Perkiomen Creek Makeup Storage Tank.

- a. The permittee is authorized to discharge during the period from issuance _____ through expiration _____.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Instantaneous Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (MGD)							*	Calculated
Total Suspended Solids				Monitor/Report	100		*	Grab
pH (STD UNIT)			6.0			9.0	*	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 020.

- Daily during discharge.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

For Outfall 023, Latitude 40°13'11", Longitude 75°35'17", River Mile Index 0.15, Stream Code 01640

which receives waste water from cooling towers' emergency overflow vent.

- a. The permittee is authorized to discharge during the period from issuance through expiration.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes and Supplemental Information on page 17).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow (MGD)							*	Measured
Total Suspended Solids **				Monitor/Report	8.5	Monitor/Report	*	Grab
Total Residual Oxidants					0.2	0.5	*	Grab
pH (STD UNIT)			6.0			9.0	*	Grab
Spectrus CT1300				0.2	0.4	0.5	*	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 023.

* Sample during discharge from Outfall 023.

** See Other Requirement No. 14 to calculate TSS credit during the use of chemical additive Spectrus DT1400 in the cooling towers.

Re 30 (CD06WQM)256-13P

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (Con'

Additional Requirements

- c. All discharges of floating materials, oil, grease, scum, sheen and substances which produce color, tastes, odors, turbidity or settle to form deposits shall be controlled to levels which will not be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life.

Footnotes

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) The Instantaneous Maximum Discharge Limitations are for compliance use by DEP only. Do not report instantaneous maximums on DMRs or supplemental DMRs unless specifically required on those forms to do so.
- (3) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

Supplemental Information

- (1) The effluent limitations for the Outfall 001 were determined using an effluent discharge of 10.7 million gallons per day.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit.

Best Management Practices ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution to surface waters of the Commonwealth. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

Clean Water Act means the Federal Water Pollution Control Act, as amended, (33 U.S.C.A. §§1251 to 1387).

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite.

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed.

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report ("DMR") means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee.

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters, and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly selected time over a period not to exceed 15 minutes.

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Maximum Any Time or Instantaneous Maximum means the level not to be exceeded at any time in any grab sample.

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.

Non-contact Cooling Water means water used to reduce temperature which does not come in direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage.

Stormwater Associated with Industrial Activity means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing, or raw materials storage areas as defined at 40 CFR 122.26(b)(14).

Total Dissolved Solids means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring.

III. SELF-MONITORING, REPORTING, AND RECORDS KEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. Records Retention

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report, or application. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling or measurements.
- b. The person(s) who performed the sampling or measurements.
- c. The date(s) the analyses were performed.
- d. The person(s) who performed the analyses.
- e. The analytical techniques or methods used; and the associated detection level.
- f. The results of such analyses.

4. Test Procedures

Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§4101 - 4113), relating to environmental laboratory accreditation. Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those approved under 40 CFR Part 136 (or in the case of sludge use or disposal, approved under 40 CFR Part 136, unless otherwise specified in 40 CFR Part 503), or alternate test procedures approved pursuant to those parts, unless other test procedures have been specified in this permit.

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA.
- b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136.

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit.
2. Unless instructed otherwise in PART C of this permit, a properly completed DMR must be received by the following address within 28 days after the end of each monthly report period:

Department of Environmental Protection
Water Management Program
2 East Main Street
Norristown, PA 19401

Delaware River Basin Commission
Operations Branch
P.O. Box 7360
West Trenton, NJ 08628

3. The completed DMR Form shall be signed and certified either by the following applicable person, as defined in 40 CFR §122.22(a), or by that person's duly authorized representative, as defined in 40 CFR §122.22(b):
 - For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
 - For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form.

4. If the permittee monitors any pollutant, using analytical methods described in PART A III.A.4 herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

C. Reporting Requirements

1. Planned Changes - The permittee shall give notice to DEP as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b).
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in this permit, nor to notification requirements under 40 CFR §122.42(a)(1).
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. Anticipated Noncompliance

The permittee shall give advance notice to DEP of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

3. Unanticipated Noncompliance or Potential Pollution Reporting

- a. The permittee shall report any noncompliance, accident or incidents causing or threatening pollution pursuant to 25 Pa. Code §91.33 to DEP by telephone immediately giving the location and nature of the danger and, if reasonably possible to do so, to notify known downstream users of the waters.
- b. The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove any residual substances from the ground and affected waters to the extent required as stated in Title 25 Pa. Code §91.33.
- c. A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance or incident causing or threatening pollution. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including the exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- d. DEP may waive the written report on a case-by-case basis for reports under paragraph C.3.c of this section if the oral report was received immediately and no adverse impact has been reported.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.3.a of this section, at the time DMRs are submitted. The reports shall contain the information listed in paragraph C.3.c of this section.

- D. Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers) - The permittee shall notify DEP as soon as it knows or has reason to believe the following:
1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels."
 - a. One hundred micrograms per liter.
 - b. Two hundred micrograms per liter for acrolein and acrylonitrile.
 - c. Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol.
 - d. One milligram per liter for antimony.
 - e. Five times the maximum concentration value reported for that pollutant in this permit application.
 - f. Any other notification level established by DEP.
 2. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels":
 - a. Five hundred micrograms per liter.
 - b. One milligram per liter for antimony.
 - c. Ten times the maximum concentration value reported for that pollutant in the permit application.
 - d. Any other notification level established by DEP.

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance Schedules

1. The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit.
2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline.

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with Title 25 Pa. Code Chapter 92.
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions.

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit.
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information.

D. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit.

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are subject to the reporting and notification requirements of Part A.III.C.4. (Other Noncompliance).
2. Other Bypassing – In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:
 - a. A bypass is unavoidable to prevent loss of life, personal injury, or "severe property damage."
 - b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance.
 - c. The permittee submitted the necessary reports required under F.4.a. and b. below.
3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2. above.
4. Notice
 - a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the bypass.
 - b. Unanticipated Bypass – The permittee shall submit notice of an unanticipated bypass as required in PART A.III.C.3. (Unanticipated Noncompliance or Potential Pollution Reporting) and other bypass as required by C.4. (Other Noncompliance).

II. **PENALTIES AND LIABILITY**

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative, and/or criminal penalties as set forth in 40 CFR §122.41(a)(2).

Any person or municipality who violates any provision of this permit; any rule, regulation, or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603, and 605 of the Clean Streams Law.

B. Falsifying Information

The Clean Water Act provides that any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance),

shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 P.S. §4904 and 40 CFR §122.41(j)(5) and (k) (2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603, or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, Title 25 Pa. Code Chapter 92 and 40 CFR §122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law;

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment) practices or operations regulated or required under this permit; and
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location.

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b of this section;
 - b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. If DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b of this section.

3. In the event DEP does not approve transfer of this permit, the new owner or controller must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations.

PART C

I. OTHER REQUIREMENTS

1. If, at anytime, DEP determines that the discharge permitted herein creates a public nuisance or causes environmental harm to the receiving water of the Commonwealth, DEP may require the permittee to adopt such remedial measures as will produce a satisfactory effluent. If the permittee fails to adopt such remedial measures within the time specified by DEP, the right to discharge herein granted shall, upon notice by DEP, cease and become null and void.
2. If the applicable standard or effluent guideline limitation relating to the application for Best Available Technology (BAT) Economically Achievable or to Best Conventional Technology (BCT) is developed by DEP, or by EPA for this type of industry, and if such standard or limitation is more stringent than the corresponding conditions of this permit (or if it controls pollutants not covered by this permit), then DEP reserves the right to modify, or to revoke and reissue the permit to conform with that standard or limitation.
3. If there is a change in ownership of this facility or in permittee name, an application for transfer of permit must be submitted to DEP.
4. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with 25 Pa. Code, Chapters 287, 288, 289, 291, 297, and 299 (relating to permits and requirements for landfilling, land application, incineration, and storage of residual waste), Chapters 262, 263, and 264 (related to permits and requirements for landfilling and storage of hazardous sludge) and applicable Federal Regulations, the Federal Clean Water Act, RCRA, and their amendments.
5. DEP may identify and require certain discharge specific data to be submitted before the expiration date of this permit. Upon notification by DEP, the permittee will have 12 months from the date of the notice to provide the required data. These data, along with any other data available to DEP, will be used in completing the Watershed TMDLWLA Analysis and in establishing discharge effluent limits.

6. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS

A. Prohibition of Non-stormwater Discharges

1. Except as provided in A.2, all discharges to stormwater Outfalls shall be composed entirely of non-polluting stormwater.
2. The following non-polluting water discharges may be authorized, provided the discharge is in compliance with D.2.b: discharges from fire fighting activities; fire hydrant flushings, potable water sources, including waterline flushings, irrigation drainage, lawn watering, routine external building washdown which does not use detergents or other compounds, pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used, air conditioning condensate, springs, uncontaminated groundwater, and foundation or footing drains where flows are not contaminated with process materials such as solvents.

B. Spills

This permit does not authorize the discharge of any polluting substances resulting from an on-site spill. Such spills shall be controlled through proper implementation of a Preparedness, Prevention, and Contingency (PPC) Plan as stated in Section D below.

C. This permit does not authorize any discharge (stormwater or non-stormwater) containing any pollutant that may cause or contribute to an impact on aquatic life or pose a substantial hazard to human health or the environment due to its quantity or concentration.

D. Preparedness, Prevention, and Contingency Plans

1. Development of Plan

Operators of facilities shall have developed a PPC Plan in accordance with 25 Pa. Code Section 91.34 and the "Guidelines for the Development and Implementation of Environmental Emergency Response Plans." The PPC Plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the facility. In addition, the PPC Plan shall describe the BMPs that are to be used to reduce the pollutants in stormwater discharges at the facility ensuring compliance with the terms and conditions of this permit. The PPC Plan shall be completed within 90 days from the permit effective date.

2. Non-stormwater Discharges

a. The PPC Plan shall contain a certification that the discharge has been tested or evaluated for the presence of non-stormwater discharges. The certification shall include the identification of potential significant sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing methods used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Such certification may not be feasible if the facility operating the stormwater discharge does not have access to an outfall, manhole, or other point of access to the ultimate conduit that receives the discharge. In such cases, the source identification section of the PPC Plan shall indicate why the certification was not feasible. A discharger that is unable to provide the certification must notify DEP within 90 days of the effective date of this permit.

b. Except for flows from fire fighting activities, sources of non-stormwater listed in A.2. (authorized non-stormwater discharges) that are combined with stormwater discharges must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

3. Special Requirements for SARA Title III, Section 313 Facilities

a. Facilities subject to SARA Title III, Section 313 shall include in the PPC Plan a description of releases to land or water of Section 313 water priority chemicals that have occurred within the last three years. Each of the following shall be evaluated for the reasonable potential for contributing pollutants to runoff: loading and unloading operations, outdoor storage activities, outdoor manufacturing or processing activities, significant dust or particulate generating process, and on-site waste disposal practices. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced or discharged; the likelihood of contact with stormwater; and history of significant leaks or spills of toxic or hazardous pollutants.

- b. Engineering Certification. No stormwater PPC Plan for facilities subject to SAR¹ Title III, Section 313 requirements for chemicals that are classified as "Section 313 water priority chemicals" shall be effective unless it has been reviewed by a Registered Professional Engineer and certified to by such Professional Engineer. A Registered Professional Engineer shall recertify the PPC Plan every year thereafter. This certification may be combined with the required annual evaluation in D.4. By means of these certifications, the engineer, having examined the facility and being familiar with the provisions of this part, shall attest that the storm water PPC Plan has been prepared in accordance with good engineering practices. Such certification shall in no way relieve the owner or operator of a facility covered by the PPC Plan of the duty to prepare and fully implement such Plan.

4. Comprehensive Site Compliance Evaluations and Recordkeeping

Qualified personnel shall conduct site compliance evaluations at least once a year. Such evaluations shall include:

- a. Visual inspection and evaluation of areas contributing to a stormwater discharge for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the Plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the Plan, such as spill response equipment, shall be made.
- b. Based on the results of the inspection, the description of potential pollutant sources identified in the PPC Plan, and pollution prevention measures and controls identified in the Plan shall be revised as appropriate within 15 days of such inspection and shall provide for implementation of any changes to the Plan in a timely manner, but in no case more than 90 days after the inspection.
- c. A report summarizing the scope of the inspection, using DEP's Annual Inspection form shall be completed and made available upon request and retained as part of the PPC Plan for at least one year after coverage under this permit terminates.

E. Stormwater Management Best Management Practices (BMPs)

The permittee shall implement at least the following BMPs:

Manage sludge in accordance with all applicable permit requirements; temporarily collect and store sludge in enclosed containers or tanks.

- 1. Store chemicals in secure and covered areas on impervious surfaces away from storm drains.
- 2. For new facilities and improvements: Design wastewater treatment facilities to prevent runoff and avoid storm water commingling with sanitary wastewater.
- 3. Efficiently use herbicides for weed control; where practicable, investigate use of the least toxic herbicides; do not apply during windy conditions.

4. Do not wash parts or equipment over impervious surfaces that wash into storm drains.
5. Conduct Good Housekeeping Practices.
6. Implement infiltration techniques, including infiltration basins, trenches, dry wells, porous pavements, etc., wherever practicable.

F. Stormwater Sampling and Reporting

1. If stormwater samples are required by this permit, they shall be collected as grab samples during the first 30 minutes, but no later than one-hour of the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event.
2. When the discharger is unable to collect samples due to adverse climatic conditions, the discharger must submit, in lieu of sampling data, a description of why samples could not be collected, including available documentation of the event. This sampling waiver may not be used more than once during a two-year period.
3. Stormwater monitoring results shall be summarized on a DMR form and DEP's "Additional Information for the Reporting of Stormwater Monitoring" form.
4. When a facility has two or more outfalls that may reasonably be believed to discharge substantially identical effluents, based on a consideration of features and activities within the area drained by the outfall, the permittee may sample one such outfall and report that the quantitative data also applies to the substantially identical outfalls.

7. Laboratory Certification

The Environmental Laboratory Accreditation Act of 2002 requires that all environmental laboratories register with DEP. An environmental laboratory is any facility engaged in the testing or analysis of environmental samples required by a statute administered by DEP relating to the protection of the environment or of public health, safety, and welfare.

8. The following requirements apply with respect to the thermal impact of the discharge from Outfall 001 upon Schuylkill River:

No rise when ambient temperature is 87°F or above; not more than a 5°F rise above ambient temperature until stream temperature reaches 87°F; not to be changed by more than 2°F during any one-hour period.

9. The additives and usage rate currently approved are the following:

<u>Name</u>	<u>Usage Rate (lbs/day)</u>	
	<u>Average Monthly</u>	<u>Maximum Daily</u>
GE Betz Flogard MS6210	450	1,000
GE Betz Depositrol BL5307	1,000	3,000
GE Betz Depositrol BL5400	160	320
GE Betz Depositrol PY5204	1,750	2,850
GE Betz Spectrus BD1500	1,000	1,500
GE Betz Spectrus CT1300	1,200	2,000
	Also, TRO limit of 0.2 mg/l governs.	
GE Betz Spectrus DT1400	4,790	9,520
GE Betz Spectrus NX1100	1	2
GE Betz Spectrus NX1103	20	120
GE Betz Klaraid CDP1346	120	200
GE Betz Continuum AEC3120	8	16
GE Betz Inhibitor AZ8104	1,000	2,200
GE Betz Ferroquest LP7200	600	600
GE Betz Ferroquest LP7202	300	300
GE Betz Foamtrol AF1441	450	900
Sodium Hypochlorite	Total Residual Oxidants limit of 0.2 governs	
Sulfuric Acid 66BE CMD	Limit for pH governs its usage rate	
Sodium Bromide CMD	Total Residual Oxidants limit of 0.2 governs	
GE Betz Polyfloc AP1120	1.5	3
AB Aquashade	30 gallons per month	
General Chemical Sodium Sulfite	21	21
FMC Trisodium Phosphate	51	51
FMC Disodium Phosphate	51	51
GE Betz Kleen AC9500	300	450

10. Chemical additives to control corrosion, scaling, algae, slime, fouling or oxygen, etc., and blowdown discharge rates shall be managed by the permittee to ensure that toxic effects in the receiving stream are prevented. These also include substances/compounds added to the wastewater such as polymers, water softeners, flocculents, coagulants, emulsion breakers, dispersants and oxygen scavengers.

Usage rates shall be consistent with the quantities and rates approved by the DEP and shall be limited to the minimum amount necessary to accomplish the intended purposes of chemical addition.

Accurate usage records (name of additive, quantity added, and date added) of any approved chemical additive and blowdown discharge volumes must be maintained on the Chemical Additive Reporting form and kept on site by the permittee. To the maximum extent possible, sampling and laboratory analytical procedures for these chemicals are to conform with the "Sampling and Analytical Testing Instructions for Industrial Discharges" routinely used for completion of NPDES permit applications.

Whenever a change in chemical additive or increase in usage rates is desired by the permittee, a written notification shall be submitted to the DEP at least sixty (60) days prior to the proposed use of the chemical. All required data must be provided on the form for each new or changed chemical additive or proposed change in the usage rate.

As a minimum, the following information must be provided on the whole product (if data on the whole product is not available, monitoring data for all active ingredients in the product shall be provided):

1. Trade names of additive.
2. Name and address of additive manufacturer.
3. Material Safety Data Sheet (MSDS) or other available information on mammalian or aquatic toxicological effects.
4. Bioassay data including the 96-hour LC50 on the whole product.
5. Proposed average and maximum additive usage rates in lbs/day.
6. A flow diagram showing the point of chemical addition and the affected outfalls.
7. The expected concentration of the product at the final outfall.
8. The product density for liquids (lb/gal) used to convert usage rate (gpd) to in-system concentrations (mg/l).
9. The analytical test method that could be used to verify final discharge concentrations when the product is in use and the associated minimum analytical detection level (mg/l).
10. Conditioned water discharge rate (blowdown rate) and duration (hours).
11. Available data on the degradation of or decomposition of the additive in the aquatic environment.
12. Any other data or information the permittee believes would be helpful to the DEP in completing its review.

Based on the information presented, the DEP will decide whether specific effluent limitations for one or more active ingredients or other control requirements are necessary. Where necessary, the DEP may establish permit limits, require other controls or deny use of these chemicals. If the information is complete, use of the proposed chemical additive or usage rate will be considered approved 60 days after the date of notification to the DEP. If the notification is incomplete or the DEP notifies the permittee that the proposed usage rate will cause violations of water quality standards, the permittee will be advised that a permit amendment is required and would likely be denied. All such letters and notifications must be kept on site with the required daily chemical usage data.

Use of products or chemicals that contain one or more ingredients that are carcinogens is generally prohibited. Before proposing limited use of such products or chemicals, the permittee must thoroughly investigate the use of alternative products or chemicals to avoid the use of the carcinogens. If no alternatives are available, the permittee must submit written documentation as part of the information required above, that demonstrates to the satisfaction of the DEP that no suitable alternatives are available and that any carcinogen in the proposed chemical or product will not be detectable in the final effluent using the most sensitive analytical method available. Based on the information presented, the DEP will decide whether specific effluent limitations or other control requirements are necessary for the chemicals, and where necessary, establish permit limits require other controls or deny use of these chemicals.

11. The term total residual oxidants for water with bromides generated through the use of a chemical additive is defined as the value obtained using the amperometric method for total residual chlorine as described in 40 C.F.R. Section 136. This method is described in Standard Methods as the "amperometric titration method".

12. The term Maximum Daily Concentration, as it relates to total residual oxidants (TRO) discharge, means the average analysis made over a single period of TRO release which does not exceed two hours.
13. For Outfall 001, total residual oxidants may not be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge total residual oxidants at any one time unless the permittee can demonstrate to the Department that the units in a particular location can not operate at or below this level of oxidants.
14. The permittee is allowed to take credit for total suspended solids during the use of Spectrus DT1400 in the cooling towers. The worksheet attached to the permit shall be used to calculate credits for total suspended solids and a copy of such determination shall be submitted with the Discharge Monitoring Report.
15. Outfall 001 shall be sampled and analyzed for Spectrus CT1300 on a weekly basis, with daily record keeping of the usage rates during use of the product. Methyl Orange method shall be used with a detection level of 0.2 mg/l.
16. There shall be no discharge of polychlorinated biphenyl (PCB) compounds such as those commonly used for transformer fluid at any time.
17. Water borne releases of radioactive material to unrestricted areas shall conform to criteria set forth in Title 10 Code of Federal Regulations Part 50 Appendix I – numerical guides for design objectives and limiting conditions for operation to meet the criterion “as low as is reasonably achievable” for radioactive material in light-water-cooled nuclear reactor effluents, as implemented through the environmental technical specifications for the facility.

The facility operator shall provide the DEP with copies of reports specifying the quantities of radioactive material released to unrestricted areas in liquid/gaseous effluents.

The facility operator shall provide the DEP with copies of reports of the results of environmental surveillance activities and other such reports as necessary for the estimation of the dose consequential to facility operation.

The above reports are to be forwarded to the following agency:

Pennsylvania Department of Environmental Protection
Bureau of Radiation Protection
13th Floor, Rachel Carson State Office Building
P.O. Box 8469
Harrisburg, PA 17105-8469

18. Instantaneous maximum limitations are imposed to allow for a grab sample to be collected by the appropriate regulatory agency to determine compliance. The permittee does not have to monitor for the instantaneous maximum limitation except for the parameters pH and temperature. However, if grab samples are collected for parameters normally monitored through composite sampling, the results must be reported.

Re 30 (CD05WQM)256-13P



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER FACILITIES**

NPDES PERMIT NO: PA0052221

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, *as amended*, 35 P.S. Section 691.1 *et seq.*,

**Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348**

is authorized to discharge from a facility known as **Exelon Bradshaw Reservoir IWWTP**, located at **Elephant Road near Center School Road, Bedminster Township, Bucks County** to the **East Branch Perkiomen Creek** in Watershed **3E - Perkiomen** in accordance with effluent limitations, monitoring requirements and other conditions set forth in PARTS A, B, and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON July 1, 2009

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON June 30, 2014

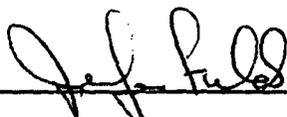
The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [40 C.F.R. 122.41(a)]
3. A complete application for reissuance of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. [40 C.F.R. 122.41(b) and 122.21(d)]

In the event that a timely and complete application for reissuance has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. [25 Pa. Code 92.9]

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED June 1, 2009

ISSUED BY 

DATE PERMIT AMENDMENT ISSUED _____

TITLE: Water Management Program Manager

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

I. For Outfall 001, Latitude 40°25'45", Longitude 75°13'21", River Mile Index 23.57, Stream Code 01168

which receives wastewater from Bradshaw Reservoir

- a. The permittee is authorized to discharge during the period from issuance through expiration.
- b. Based on the production data and anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements, Footnotes, and Supplemental Information):

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽³⁾ Measurement Frequency	Required Sample Type
	Monthly Average	Daily Maximum	Instantaneous Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum ⁽²⁾		
Flow	Monitor/ Report (MGD)	Monitor/ Report (MGD)					Continuous	Recorded
Dissolved Oxygen (05-01 to 07-31)			6.0 Daily Min.				5/Month ⁽⁴⁾	Grab
Dissolved Oxygen (08-01 to 09-30)			5.0 Daily Min.				5/Month ⁽⁴⁾	Grab
pH (05-01 to 09-30)			6.0			9.0	5/Month ⁽⁴⁾	Grab
Fecal Coliform (05-01 to 09-30)				200 #/100 ml Geo. Mean			5/Month ⁽⁴⁾	Grab
Cyanide, Free				Monitor/ Report			1/Quarter	Grab
Phenolics, Total				Monitor/ Report			1/Quarter	Grab
Total Phosphorus as P				Monitor/ Report			1/Quarter	Grab
Orthophosphate as P				Monitor/ Report			1/Quarter	Grab
Total Kjeldahl Nitrogen				Monitor/ Report			1/Quarter	Grab
Ammonia as N				Monitor/ Report			1/Quarter	Grab
Nitrite + Nitrate as N				Monitor/ Report			1/Quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 001

PART A: EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Cont)

c. Additional Requirements

1. The discharger shall not discharge floating materials, oil, grease, scum, foam, sheen, and substances which produce color, taste, odor, turbidity, or settle to form deposits in concentrations or amounts sufficient to be, or creating a danger of being, inimical to the water uses to be protected or to human, animal, plant, or aquatic life. [25 Pa. Code 92.51(6)]
2. The permittee shall provide for effective disinfection of this discharge to control disease-producing organisms; During the swimming season (May 1st to September 30th), the maximum fecal coliform level shall not exceed a geometric mean greater than 200/100 ml based on a minimum of five consecutive samples each sample collected on different days during a 30-day period. [25 Pa. Code 92.2c(b)(2)]

Footnotes

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) The Instantaneous Maximum Discharge Limitations are for compliance use by DEP only. Do not report instantaneous maximums on DMRs or supplemental DMRs unless specifically required on those forms to do so.
- (3) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.
- (4) During each of the months of May through September, a minimum of five grab samples shall be collected each sample collected on different days. The grab samples shall be analyzed for dissolved oxygen, fecal coliform, and pH.

Supplemental Information

- (1) The effluent limitations for this outfall were determined using an effluent discharge rate of 42 million gallons per day.
- (2) If the permit requires reporting of average weekly limitations, please follow the following guideline. If the "maximum average concentration" and the "maximum average mass loading" do not occur within the same week, both the highest weekly average concentration and the highest weekly average mass load should be reported, regardless of whether they both occur during the same calendar week.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit.
[40 C.F.R. 122.41(l)(4)(iii)]

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollution to surface waters of the Commonwealth. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. [25 Pa. Code 92.1]

Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
[40 C.F.R. 122.41(m)(1)(i)]

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by the Department to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended. [33 U.S.C.A. §§ 1251 to 1387].

Chemical Additive means the chemicals that are used to control corrosion, algae, slime, fouling, oxygen or other blow down discharges in systems within a facility that might be present in its wastewater discharge. Other chemicals that would be included in the category include, by are not limited to, polymers, water softeners, flocculants, coagulants, emulsion breakers, dispersants, other oxygen scavenger or possible known carcinogens.

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. [EPA Form 2C]

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed. [EPA Form 2C]

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. [25 Pa. Code 92.1 and 40 C.F.R. 122.2]

Daily Maximum Discharge Limitation means the highest allowable "daily discharge." [25 Pa. Code 92.1]

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. [40 C.F.R. 122.2]

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. [EPA Form 2C]

Hazardous Substance means any substance designated under 40 C.F.R. Part 116 pursuant to Section 311 of the Clean Water Act. [40 C.F.R. 122.2]

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Instantaneous Maximum means the highest allowable discharge of a concentration of a substance at any one time as measured by a grab sample. [25 Pa. Code 92.1]

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "

Noncontact Cooling Water means water used to reduce temperature which does not come in direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. [40 C.F.R. 122.41(m)(1)(ii)]

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. [25 Pa. Code 92.1]

Stormwater Associated With Industrial Activity means the discharge from any conveyance which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw materials storage areas as defined. [40 C.F.R. § 122.26(b)(14) and 25 Pa. Code 92.1]

Total Dissolved Solids means the total dissolved (filterable) solids as determined by use of the method specified in 40 C.F.R. Part 136.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. [25 Pa. Code 92.1]

III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. [40 C.F.R. 122.41(i)(1)]
2. Records Retention [40 C.F.R. 122.41(i)(2)]

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results [40 C.F.R. 122.41(i)(3)]

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling or measurements.
- b. The person(s) who performed the sampling or measurements.
- c. The date(s) the analyses were performed.
- d. The person(s) who performed the analyses.
- e. The analytical techniques or methods used; and the associated detection level.
- f. The results of such analyses.

4. Test Procedures [40 C.F.R. 122.41(i)(4)]

Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa.C.S. §§ 4101-4113), relating to environmental laboratory accreditation. Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those approved under 40 C.F.R. Part 136 (or in the case of sludge use or disposal, approved under 40 C.F.R. Part 136, unless otherwise specified in 40 C.F.R. Part 503 or Subpart J of 25 Pa. Code Chapter 271), or alternate test procedures approved pursuant to those parts, unless other test procedures have been specified in this permit.

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. [40 C.F.R. 122.41(e) and 122.41(i)(3)]
- b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 C.F.R. Part 136. [40 C.F.R. 122.4(i)(4)]

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. [40 C.F.R. 122.41(e) and 122.44(i)(1)]

2. Unless instructed otherwise in PART C of this permit, a properly completed DMR must be received by the following address within 28 days after the end of each monthly report period:

Department of Environmental Protection
Water Management Program
2 East Main Street
Norristown, PA 19401

Bucks County Health Department
Neshaminy Manor Center
Route 611 and Almhouse Road
Doylestown, PA 18901

3. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92.23:

- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. [40 C.F.R. 122.22(b)(3)]

4. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in PART A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR. [40 C.F.R. 122.41(l)(4)(ii)]

C. Reporting Requirements

1. Planned Changes [40 C.F.R. 122.4(l)(1)] - The permittee shall give notice to DEP as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 C.F.R. § 122.29(b).
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in this permit, nor to notification requirements under 40 C.F.R. § 122.42(a)(1).
- c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. Anticipated Noncompliance

The permittee shall give advance notice to DEP of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements. [40 C.F.R. 122.41(l)(2)]

3. Unanticipated Noncompliance or Potential Pollution Reporting

- a. Immediate Reporting - The permittee shall report incidents causing or threatening pollution in accordance with the requirements of 25 Pa. Code Section 91.33. If, because of an accident, other activity or incident, a toxic substance or another substance which would endanger users downstream from the discharge or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify the DEP by telephone of the location and

nature of the danger and if reasonable possible to do so, notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger. The permittee shall immediately take, or cause to be taken, steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.

- b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 C.F.R. 122.41(1)(6). These requirements include the following obligations:

- (i) **Twenty-four (24) Hour Reporting** - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit.

(2) Any upset which exceeds any effluent limitation in the permit.

(3) Violation of the maximum daily discharge limitation for any of the pollutions listed in the permit as being subject to the 24-hour reporting requirement. Note: see 40 C.F.R. 122.44(g).

- (ii) **Written Report** - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

- (iii) **Waiver of Written Report** - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by the DEP, the permittee shall submit a written report in accordance with this paragraph. [40 C.F.R. 122.41(1)(6)(iii)]

4. **Other Noncompliance**

The permittee shall report all instances of noncompliance not reported under paragraph C.3 of this section or specific requirements of compliance schedules, at the time DMRs are submitted. The reports shall contain the information listed in paragraph C.3.b.(ii) of this section. [40 C.F.R. 122.41(1)(7)]

- D. **Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers)** - The permittee shall notify DEP as soon as it knows or has reason to believe the following: [40 C.F.R. 122.42(a)]

1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels." [40 C.F.R. 122.42(a)(1)]

- a. One hundred micrograms per liter.
- b. Two hundred micrograms per liter for acrolein and acrylonitrile.
- c. Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol.
- d. One milligram per liter for antimony.
- e. Five times the maximum concentration value reported for that pollutant in this permit application.
- f. Any other notification level established by DEP.

2. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels": [40 C.F.R. 122.42(a)(2)]
 - a. Five hundred micrograms per liter.
 - b. One milligram per liter for antimony.
 - c. Ten times the maximum concentration value reported for that pollutant in the permit application.
 - d. Any other notification level established by DEP.

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance Schedules [25 Pa. Code 92.55 and 40 C.F.R. 122.47(a)]

1. The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit.
2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. [40 C.F.R. 122.47(a)(4)]

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with Title 25 Pa. Code 92.51(2) and 40 C.F.R. 122.41(f).
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. [40 C.F.R. 122.41(f)]
3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. [40 C.F.R. 122.41(a)(1)]

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. [40 C.F.R. 122.41(h)]
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. [25 Pa. Code 92.51(3)(ii) and 40 C.F.R. 122.41(h)]
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. [40 C.F.R. 122.41(l)(8)]

D. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. [40 C.F.R. 122.41(e)]

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. [40 C.F.R. 122.41(d)]

F. Bypassing

1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs 2, 3, and 4 of this section. [40 C.F.R. 122.41(m)(2)]
2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless: [40 C.F.R. 122.41(m)(4)(i)]
 - a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." [40 C.F.R. 122.41(m)(4)(i)(A)]
 - b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. [40 C.F.R. 122.41(m)(4)(i)(B)]
 - c. The permittee submitted the necessary notice required in F.4.a. and b. below. [40 C.F.R. 122.41(m)(4)(i)(C)]
3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2. above. [40 C.F.R. 122.41(m)(4)(i)(C)]
4. Notice
 - a. Anticipated Bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass. [40 C.F.R. 122.41(m)(3)(i)]
 - b. Unanticipated Bypass
 - (i) The permittee shall submit immediate notice of an unanticipated bypass causing or threatening pollution. The notice shall be in accordance with PART A.III.C.3a.
 - (ii) The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with PART A.III.C.3b.

II. **PENALTIES AND LIABILITY**

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 C.F.R. § 122.41(a)(2).

Any person or municipality who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603, and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or

- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance),
- Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A. § 4904 and 40 C.F.R. § 122.41(j)(5) and (k)(2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603, or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [40 C.F.R. 122.41(c)]

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92 and 40 C.F.R. § 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit. [25 Pa. Code 92.51(3)(i) and 40 C.F.R. 122.41(i)(1)]
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. [25 Pa. Code 92.51(3)(ii) and 40 C.F.R. 122.41(i)(2)]
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit. [40 C.F.R. 122.41(i)(3)]
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. [40 C.F.R. 122.41(i)(4)]

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. [40 C.F.R. 122.61(a)]
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section. [25 Pa. Code 92.71a(1) and 40 C.F.R. 122.61(b)(1)]

- b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them. [25 Pa. Code 92.71(a)(2) and 40 C.F.R. 122.61(b)(2)]
- c. If DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section. [25 Pa. Code 92.71a(3) and 40 C.F.R. 122.61(b)(3)]
- d. The new permittee is in compliance with existing DEP issued permits, regulations, orders, and schedules of compliance, or that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedule set forth in the permit), consistent with § 92.55 (relating to schedules of compliance) and other appropriate DEP regulations. [25 Pa. Code 92.71a(4)]

3. In the event DEP does not approve transfer of this permit, the new owner or controller must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. [40 C.F.R. 122.41(g)]

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. [40 C.F.R. 122.21(d)]

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

PART C

I. OTHER REQUIREMENTS

1. No chemical addition for the control of corrosion, scaling, algae, slime, fouling, or oxygen, etc., shall be made to the Delaware River diversion water, without approval from the DEP.
2. Analysis for the following pollutant(s) shall be performed using test method(s) contained in 40 C.F.R. Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*, or any approved test method(s) of equal or greater sensitivity:

Parameter
Cyanide, Free
Phenolics, Total

3. If there is a change in ownership of this facility or in permittee name, an application for transfer of permit must be submitted to the DEP.
4. The DEP may identify and require certain discharge specific data to be submitted before the expiration date of this permit. Upon notification by the DEP, the permittee will have 12 months from the date of the notice to provide the required data. These data, along with any other data available to the DEP, will be used in completing the Watershed TMDL/WLA Analysis and in establishing discharge effluent limits. In the event that DEP requires the submission of data pursuant to this condition, the permittee shall have the right to appeal or otherwise contest the requirement.
5. Laboratory Certification

The Environmental Laboratory Accreditation Act of 2002 requires that all environmental laboratories register with the DEP. An environmental laboratory is any facility engaged in the testing or analysis of environmental samples required by a statute administered by the DEP relating to the protection of the environment or of public health, safety, and welfare.

Re 30 (AR09WQM)098-6a

PERMITTEE NAME ADDRESS (include Facility Name / Location if different)

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

PRIMARY FACILITY: **EXELON BRADSHAW RESERVOIR IWWTP**

CLIENT: EXELON GENERATION COMPANY, LLC	PA0052221	001	
ADDRESS: 200 EXELON WAY	PERMIT NUMBER	DISCHARGE NUMBER	
KENNETT SQUARE, PA 19348	MONITORING PERIOD		
LOCATION: ELEPHANT ROAD NEAR CENTER SCHOOL ROAD	YEAR	MO	DAY
MUNICIPALITY: BEDMINSTER TOWNSHIP			
COUNTY: BUCKS			

Southeast Region
Facsimile

NOTE: Read instructions before completing this form

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		MONTHLY AVERAGE	DAILY MAXIMUM	UNITS	INST. MINIMUM	MONTHLY AVERAGE	INST. MAXIMUM			
FLOW	Sample Measurement				XXXX	XXXX	XXXX			
	Permit Requirement	MONITOR/REPORT	MONITOR/REPORT	MGD	XXXX	XXXX	XXXX	XXXX	CONTINUOUS	RECORDED
DISSOLVED OXYGEN (05-01 to 07-31)	Sample Measurement	XXXX	XXXX			XXXX	XXXX			
	Permit Requirement	XXXX	XXXX	XXXX	DAILY MINIMUM 6.0	XXXX	XXXX	MG/L	5/MONTH	GRAB
DISSOLVED OXYGEN (08-01 to 09-30)	Sample Measurement	XXXX	XXXX			XXXX	XXXX			
	Permit Requirement	XXXX	XXXX	XXXX	DAILY MINIMUM 5.0	XXXX	XXXX	MG/L	5/MONTH	GRAB
pH (05-01 to 09-30)	Sample Measurement	XXXX	XXXX			XXXX				
	Permit Requirement	XXXX	XXXX	XXXX	6.0	XXXX	9.0	MG/L	5/MONTH	GRAB
FECAL COLIFORM (05-01 to 09-30)	Sample Measurement	XXXX	XXXX		XXXX		XXXX			
	Permit Requirement	XXXX	XXXX	XXXX	XXXX	200 GEOMETRIC MEAN	XXXX	# COL/100 ML	5/MONTH	GRAB
	Sample Measurement									
	Permit Requirement									
	Sample Measurement									
	Permit Requirement									
	Sample Measurement									
	Permit Requirement									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)	TELEPHONE	DATE		
				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) PERMIT EXPIRES June 30, 2014 . SUBMIT RENEWAL BY December 31, 2013

PERMITTEE NAME ADDRESS (include Facility Name / Location if different)

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

PRIMARY FACILITY: **EXELON BRADSHAW RESERVOIR IWWTP**

CLIENT: EXELON GENERATION COMPANY, LLC	PA0052221	001
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KENNETT SQUARE, PA 19348	MONITORING PERIOD	
LOCATION: ELEPHANT ROAD NEAR CENTER SCHOOL ROAD	YEAR	MO
MUNICIPALITY: BEDMINSTER TOWNSHIP	DAY	TO
COUNTY: BUCKS	YEAR	MO
	DAY	DAY

Southeast Region
Facsimile

NOTE: Read instructions before completing this form

Parameter		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
		MONTHLY AVERAGE	DAILY MAXIMUM	UNITS	INST. MINIMUM	MONTHLY AVERAGE	INST. MAXIMUM				UNITS	
PHENOLICS, TOTAL	Sample Measurement	XXXX	XXXX	XXXX	XXXX		XXXX	MG/L	1/QUARTER	GRAB		
	Permit Requirement	XXXX	XXXX		XXXX	MONITOR/REPORT	XXXX					
CYANIDE, FREE	Sample Measurement	XXXX	XXXX	XXXX	XXXX		XXXX	MG/L	1/QUARTER	GRAB		
	Permit Requirement	XXXX	XXXX		XXXX	MONITOR/REPORT	XXXX					
TOTAL PHOSPHOROUS as P	Sample Measurement	XXXX	XXXX	XXXX	XXXX		XXXX	MG/L	1/QUARTER	GRAB		
	Permit Requirement	XXXX	XXXX		XXXX	MONITOR/REPORT	XXXX					
ORTHOPHOSPHATE as P	Sample Measurement	XXXX	XXXX	XXXX	XXXX		XXXX	MG/L	1/QUARTER	GRAB		
	Permit Requirement	XXXX	XXXX		XXXX	MONITOR/REPORT	XXXX					
TOTAL KJELDAHL NITROGEN	Sample Measurement	XXXX	XXXX	XXXX	XXXX		XXXX	MG/L	1/QUARTER	GRAB		
	Permit Requirement	XXXX	XXXX		XXXX	MONITOR/REPORT	XXXX					
AMMONIA as N	Sample Measurement	XXXX	XXXX	XXXX	XXXX		XXXX	MG/L	1/QUARTER	GRAB		
	Permit Requirement	XXXX	XXXX		XXXX	MONITOR/REPORT	XXXX					
NITRITE + NITRATE as N	Sample Measurement	XXXX	XXXX	XXXX	XXXX		XXXX	MG/L	1/QUARTER	GRAB		
	Permit Requirement	XXXX	XXXX		XXXX	MONITOR/REPORT	XXXX					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. §1001 AND 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)					SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
TYPE OR PRINT								AREA CODE	NUMBER	YEAR	MO	DAY

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

PERMIT EXPIRES June 30, 2014

SUBMIT RENEWAL BY December 31, 2013

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to vary from a range of 10 hours as an average per response for some minor facilities, to 110 hours as an average per response for some major facilities, with a weighted average for major and minor facilities of 18 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

General Instructions

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "Permittee Name/Mailing Address (and facility name/location, if different)," "Permit Number" and "Discharge Number" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "Monitoring Period" covered by form where indicated.
4. Enter each "Parameter" as specified in monitoring requirements of permit.
5. Enter "Sample Measurement" data for each parameter under "Quantity" and "Quality" in units specified in permit. "Average" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "Monitoring Period;" "Maximum" and "Minimum" are normally extreme high and low measurements obtained during "Monitoring Period." (Note to municipals with secondary treatment requirement: Enter 30-day average of sample measurement under "Average," and enter maximum 7-day average of sample measurements obtained during monitoring period under "Maximum.")
6. Enter "Permit Requirement" for each parameter under "Quantity" and "Quality" as specified in permit.
7. Under "No Ex" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "Frequency of Analysis" both as "Sample Measurement" (actual frequency of sampling and analysis used during monitoring period) and as "Permit Requirement" specified in permit. (e.g., Enter "Cont," for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "Sample Type" both as "Sample Measurement" (actual sample type used during monitoring period) and as "Permit Requirement," (e.g., Enter "Grab" for individual sample, "24 HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)
10. Where violations of permit requirements are reported, attach a brief explanation to describe cause and corrective actions taken, and reference each violation by date.
11. If "no discharge" occurs during monitoring period, enter "No Discharge" across form in place of data entry.
12. Enter "Name/Title of Principal Executive Officer" with "Signature of Principal Executive Officer of Authorized Agent," "Telephone Number" and "Date" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain Copy for your records.
14. More detailed instructions for use of this Discharge Monitoring Report (DMR) form may be obtained from Office(s) specified in permit.

Legal Notice

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

INSTRUCTIONS FOR UTILIZING
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

The original DMR form(s) included with your permit are provided to serve as a master. Copies of this form must be used when reporting the results of the monitoring requirements in your permit. Do not write on or send the original master. If you receive computer generated preprinted DMR forms, they should be used in place of the enclosed forms.

Please make a note of your permit expiration date on the master DMR so that you will be reminded to submit your renewal application 180 days prior to expiration.

A "Monitor/Report" requirement contained in a permit requirement block indicates that the parameter is monitored and the test result reported in the appropriate block. Any test methods specified in Part A or Part C of the permit must be used.

An "Average Weekly" value is defined as the highest weekly arithmetic average value observed during the monthly monitoring period.

Loading or mass units shall be reported as the average of the calculated daily loadings during the monthly, weekly, or daily measurement period.

For parameters for which the effluent limit is lower than the Method Detection Limit (MDL) of the most sensitive existing EPA approved (40 CFR Part 136) test method or DEP approved method, the parameters should be analyzed using the test method specified in Part C of the permit. The sample results must be specified on the DMR form as either the measured (quantified) value or as "less than" the detection limit used in the test (e.g. < x.x). Results SHALL NOT be reported as "Not Detectable" or "ND". For computing monthly averages, all "less than" sample results may be counted as zero values. All sample results used in computing monthly average values must be reported on the DMR form in the DMR comment section.

You should also note any other special instructions or definitions contained on the front and back of the DMR as well as in the permit.

Submit the completed forms to: DEP, EPA and the County Health Department as required in the permit. Unless otherwise specified in the permit, the DMR form must be submitted each month. If there is no discharge during the month, the DMR must be submitted with "NO DISCHARGE" written across the front.

To Calculate Mass of Pollutants For a Sampling Event

Use the sampling event reported concentration and perform the appropriate calculation as follows:

$$\text{_____ concentration (}\mu\text{g/l} \times 0.00834 \times \text{_____ flow (million gallons/day)} = \text{_____ lb./day}$$

or

$$\text{_____ concentration (mg/l)} \times 8.34 \times \text{_____ flow (million gallons/day)} = \text{_____ lb./day}$$

The value assigned to "flow (million gallons/day)" should be the 24-hour average flow for the outfall on the day the sample was taken. Where an outfall discharges for only part of a day (x hours), the daily mass value should be determined by using the x-hour average flow.

To Calculate an Arithmetic Average or Mean

Use the following equation:

$$\frac{X_1 + X_2 + X_3 + X_4 + \dots + X_n}{n}$$

n = number of results

X = value of each analytical results

For example,

five samples were analyzed, their results were 75, 82, 90, 70, and 85.

$$\frac{75 + 82 + 90 + 70 + 85}{5} = 80.4$$

To Calculate a Geometric Mean or Geometric Average (For Fecal Coliform Only)

Use the following equation:

$$n\sqrt{X_1 \times X_2 \times X_3 \times X_4 \times \dots \times X_n}$$

n = number of analysis results

X = value of each analytical result

Note: If any value of X is zero, substitute a 1.0 for the calculation.

For example,

five samples were analyzed, their results were 75, 82, 90, 70, and 85.

$$5\sqrt{75 \times 82 \times 90 \times 70 \times 85} = 5\sqrt{3,293,325,000} = 80.1$$



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Electronic Discharge Monitoring Report (eDMR) System

Overview

As part of DEP's Electronic Government initiative, DEP is offering a new method for wastewater facilities to submit the monthly Discharge Monitoring Reports (DMRs) and all supplemental forms as required by National Pollutant Discharge Elimination System (NPDES) permits and some Water Quality Management permits - permittees can now utilize DEP's electronic DMR (eDMR) system. Upon registration, permittees use an eDMR template generated specifically for their permit to enter parameter values for submission to DEP. The secure Web site is accessed with a User Identification Number and Password. When permittees utilize eDMR, they no longer need to submit paper DMRs to DEP and EPA. All supplemental forms can be uploaded into the eDMR system. A user with authorization as a "Certifier" can submit the monthly package to DEP.

Eligible Types of Permit Holders

- Water Quality Management Permit, Industrial Waste and Sewage, Land Application
- NPDES Permit, Industrial Wastewater (Major and Minor)
- NPDES Permit, Industrial Storm Water (Individual Permits)
- NPDES Permit, Sewage, Municipal and Non-Municipal (Major and Minor)
- PAG-03, Stormwater Associated with Industrial Activities
- PAG-05, Discharges from Gasoline Contaminated Ground Water Remediation Systems
- PAG-10, Discharges from Hydrostatic Testing of Tanks and Pipelines

Access

The eDMR system is accessed through DEP's Web site at www.dep.state.pa.us/edmr. Access is restricted by authorized security for the following types of accounts:

Viewer - This role enables the user to view reporting requirements, the status of submitted eDMRs and the submitted data.

Preparer - This role provides the user with all privileges of the Viewer role plus the ability to complete and save the eDMR forms.

Certifier - This role provides the user with all privileges of the Viewer and Preparer roles plus the ability to submit eDMRs using a Personal Identification Number (PIN) as part of a digital signature.

Value and Benefits

- Reduction in paperwork for the facility
- Reduction in manual data entry by DEP
- Allows data uploads from proprietary software applications
- Electronic attachment functionality
- Electronic receipt of all submissions
- Track status and history of online submissions
- Secure, convenient, and easy!

How to Participate

Permittees must first register with DEP. The following documents are needed to register:

- Registration Form (available on eDMR Web site);
- Copies of the first page of the current (effective) permit and effluent limits tables in the permit; and
- eDMR Trading Partner Agreement (available on eDMR Web site).

Submit these documents to:

PA DEP
Bureau of Water Standards and Facility Regulation
Rachel Carson State Office Building
PO Box 8466
Harrisburg, PA 17105-8466

You will receive your account information typically within 30 to 60 days, depending on the number of registration packages being processed.

Training

DEP schedules periodic classroom training for eDMR. Training schedules are posted on the eDMR Web site (see Documents and Training link) and are typically held at DEP regional offices. Participation in the training typically qualifies licensed operators for 3.5 contact hours of continuing education toward recertification. Follow instructions on the Web site to enroll in training. Please note that participation in training is not a prerequisite for registering for the eDMR program. While classroom training is encouraged to ensure proper use, it is not required. An eDMR User's Manual is available on the Web site for guidance.

FOR MORE INFORMATION CONTACT:

PA Department of Environmental Protection
Bureau of Information Technology
Application Help Desk
E-mail: depgreenporthelpdesk@state.pa.us
Phone: (717) 705-3768

For more information, visit www.depweb.state.pa.us, keyword: DMR.