



August 24, 2020

John Telford  
GenOn REMA, LLC  
PO Box F  
250 Power Plant Drive  
Shawville, PA 16873

Re: Draft NPDES Permit- Industrial Waste (Draft No. 2)  
Warren Generating Station  
Application No. PA0005053  
Authorization ID No. 1154466  
Conewanago Township, Warren County

Dear Mr. Telford:

The Department of Environmental Protection (DEP) has prepared the enclosed “second draft” NPDES permit for your review and comment. The “first draft” was published in the Pennsylvania Bulletin on September 14, 2019. In response to the many comments that the Department received to the “first draft” NPDES permit, the Department has decided to redraft this permit as a “second draft”. This allows the Department to evaluate the many comments and, as appropriate, address the comments in the “second draft” Fact Sheet and associated Permit documents.

Due to COVID-19 and the inability to currently hold an in-person public information meeting, the Department has prepared a Frequently Asked Question (FAQ) webpage to address the various public concerns. The FAQ document can be found at:

<https://www.dep.pa.gov/About/Regional/NorthwestRegion/Community-Information/Pages/Warren-Generating-Station.aspx>

The “second draft” NPDES permit documents can also be found at the above link (bottom of the page).

Also enclosed is a copy of a public notice that, in accordance with DEP regulations at 25 Pa. Code § 92a.82(b), you are required to post near the entrance to your premises and, if the facility or discharge location is remote from these premises, at the entrance to the facility or at the discharge location. These postings shall remain for 30 days.

DEP will publish notice of the draft permit in the Pennsylvania Bulletin in the near future. You may provide written comments on the draft permit up to 30 days following publication of this notice. Following the 30-day public comment period (which may be extended by 15 days at DEP’s discretion), DEP will consider any comments received and make a decision on whether to issue a final permit.

If you have any questions, please contact me at 814.332.6352.

Sincerely,  
Justin C. Dickey  
Justin C. Dickey, P.E.  
Environmental Engineer Manager  
Clean Water Program

Enclosures

cc: Stephen M. Frank, P.E. – GenOn (email PDF, w/attachments)  
Karen E. McClelland – GenOn (email PDF, w/attachments)  
William J. Weaver – GenOn (email PDF, w/attachments)  
Kathleen Patnode - USFWS (email PDF, w/ attachments)  
Scott E. Hutchinson, Pennsylvania State Senator - Senate District 21  
Kathy L. Rapp, State Representative - 65<sup>th</sup> Legislative District  
Warren County Commissioners  
Coneango Township Supervisors  
Tidioute Borough Council

Lisa Hallowell, Senior Attorney – Environmental Integrity Project -  
[Lhallowell@environmentalintegrity.org](mailto:Lhallowell@environmentalintegrity.org)  
Aimee Erickson, Executive Director – Citizens Coal Council -  
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A hardcopy of this letter with a link to draft permit documents will be sent to:  
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Arleen G. Anderson  
Ann M. Buerkle  
Karen Davis and Mark I. Davis  
Susan E. George

An email with links to draft permit documents will be sent to:

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## **NPDES PUBLIC NOTICE**

### Application for National Pollutant Discharge Elimination System (NPDES) Permit to Discharge to State Waters

**Northwest Regional Office:** *Regional Clean Water Program Manager, 230 Chestnut Street, Meadville, PA 16335-3481. Phone: 814.332.6942, Email: RA-EPNPDES\_NWRO@pa.gov.*

**PA0005053**, Industrial, SIC Code 4911, GenOn REMA, LLC, 250 Power Plant Drive, Shawville, PA 16873. Facility Name: Warren Generating Station. This existing facility is located in Conewango Township, **Warren County**.

**Description of Existing Activity:** The application is for a renewal of an NPDES permit for an existing discharge of treated Industrial Waste (landfill leachate) and stormwater. This is the second draft of this NPDES permit renewal.

The receiving stream(s), Allegheny River (WWF), is located in State Water Plan watershed 16-B and is classified for Warm Water Fishes, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies.

The proposed effluent limits for Outfall 002 are based on a design flow of .029 MGD. - Limits.

<b>Parameters</b>	<b>Mass Units (lbs/day)</b>		<b>Concentrations (mg/L)</b>			
	<b>Average Monthly</b>	<b>Average Weekly</b>	<b>Minimum</b>	<b>Average Monthly</b>	<b>Daily Maximum</b>	<b>IMAX</b>
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX
pH (S.U.)	XXX	XXX	6.0	Daily Min	XXX	9.0
Total Suspended Solids	XXX	XXX	XXX	30	70	75
Oil and Grease	XXX	XXX	XXX	15.0	20.0	30
Iron, Total	XXX	XXX	XXX	3.5	7.0	8.8
Nickel, Total	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX
Chloride	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX

**Sludge use and disposal description and location(s):** Sludge generated is shipped offsite to a permitted facility for disposal.

You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 814-332-6340.

The EPA Waiver is in effect

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

NPDES PERMIT NO: PA0005053

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.*,

GenOn REMA, LLC  
250 Power Plant Drive  
Shawville, PA 16873

is authorized to discharge from a facility known as **Warren Generating Station**, located in **Conewango Township, Warren County**, to **Allegheny River (WWF)** in Watershed(s) **16-B** 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 \_\_\_\_\_

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON \_\_\_\_\_

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 CFR 122.41(a))
3. A complete application for renewal 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 CFR 122.41(b), 122.21(d)(2))

In the event that a timely and complete application for renewal 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 §§ 92a.7 (b), (c))

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 \_\_\_\_\_

John A. Holden, P.E.  
Environmental Program Manager  
Northwest Regional Office

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

I. A. For Outfall 002, Latitude 41° 50' 4.00", Longitude 79° 11' 31.00", River Mile Index 186.21, Stream Code 42122

Receiving Waters: Allegheny River (WWF)

Type of Effluent: Treated ash disposal site leachate and stormwater

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the 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 and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	Continuous	Recorded
Total Suspended Solids	XXX	XXX	XXX	30	70	75	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	15.0	20.0	30	1/month	Grab
Iron, Total	XXX	XXX	XXX	3.5	7.0	8.8	1/week	24-Hr Composite
Nickel, Total	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Chloride	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

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

at Outfall 002

**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS  
(Continued)**

Additional Requirements

The permittee may not discharge:

1. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa Code § 92a.41(c))
2. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline, or that exceed 15 mg/l as a daily average or 30 mg/l at any time (or lesser amounts if specified in this permit). (25 Pa. Code § 92a.47(a)(7), § 95.2(2))
3. Substances in concentration or amounts sufficient to be imimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa Code § 93.6(a))
4. Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))

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) 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

The effluent limitations for Outfall 002 were determined using an effluent discharge rate of 0.029 MGD.

## 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 CFR 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 pollutant loading to surface waters of the Commonwealth. The term also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

**Bypass** means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR 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 DEP 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 a chemical product (including products of disassociation and degradation, collectively "products") introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. The term generally excludes chemicals used for neutralization of waste streams, the production of goods, and treatment of wastewater.

**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). A separate analysis should be performed for each sample and the results should be averaged.

**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 § 92a.2, 40 CFR 122.2)

**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. (25 Pa. Code § 92a.2, 40 CFR 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 CFR Part 116 pursuant to Section 311 of the Clean Water Act. (40 CFR 122.2)

**Hauled-In Wastes** means any waste that is introduced into a treatment facility through any method other than a direct connection to the wastewater collection system. The term includes wastes transported to and disposed of within the treatment facility or other entry points within the collection system.

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

**Instantaneous Maximum Effluent Limitation** means the highest allowable discharge of a concentration or mass of a substance at any one time as measured by a grab sample. (25 Pa. Code § 92a.2)

**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. (25 Pa. Code § 92a.2)

**Municipal Waste** means garbage, refuse, industrial lunchroom or office waste and other material, including solid, liquid, semisolid or contained gaseous material resulting from operation of residential, municipal, commercial or institutional establishments and from community activities; and sludge not meeting the definition of residual or hazardous waste under this section from a municipal, commercial or institutional water supply treatment plant, waste water treatment plant or air pollution control facility. (25 Pa. Code § 271.1)

**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.

**Residual Waste** means garbage, refuse, other discarded material or other waste, including solid, liquid, semisolid or contained gaseous materials resulting from industrial, mining and agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility, if it is not hazardous. The term does not include coal refuse as defined in the Coal Refuse Disposal Control Act. The term does not include treatment sludges from coal mine drainage treatment plants, disposal of which is being carried on under and in compliance with a valid permit issued under the Clean Streams Law. (25 Pa. Code § 287.1)

**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 CFR 122.41(m)(1)(ii))

**Stormwater** means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. (25 Pa. Code § 92a.2)

**Stormwater Associated With Industrial Activity** means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, and as defined at 40 CFR 122.26(b)(14) (i) - (ix) & (xi) and 25 Pa. Code § 92a.2.

**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. (25 Pa. Code § 92a.2)

### 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 CFR 122.41(j)(1)). Representative sampling includes the collection of samples, where possible, during periods of adverse weather, changes in treatment plant performance and changes in treatment plant loading. If possible, effluent samples must be collected where the effluent is well mixed near the center of the discharge conveyance and at the approximate mid-depth point, where the turbulence is at a maximum and the settlement of solids is minimized. (40 CFR 122.48, 25 Pa. Code § 92a.61)

2. Records Retention (40 CFR 122.41(j)(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, unless a longer retention period is required by the permit. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(j)(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

- a. 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) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation.
- b. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be those approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, unless the method is specified in this permit or has been otherwise approved in writing by DEP. (40 CFR 122.41(j)(4), 122.44(i)(1)(iv))
- c. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be sufficiently sensitive. A method is sufficiently sensitive when 1) the method minimum level is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or 2) the method has the lowest minimum level of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or 3) the method is specified in this permit or has been otherwise approved in writing by DEP for the measured pollutant or pollutant parameter. Permittees have the option of providing matrix or sample-specific minimum levels rather than the published levels. (40 CFR 122.44(i)(1)(iv))

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 CFR 122.41(e), 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 CFR Part 136. (40 CFR 122.41(j)(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. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.44, 92a.61(i) and 40 CFR §§ 122.41(e), 122.44(i)(1))
2. The permittee shall use DEP's electronic Discharge Monitoring Report (eDMR) system to report the results of compliance monitoring under this permit (see [www.dep.pa.gov/edmr](http://www.dep.pa.gov/edmr)). Permittees that are not using the eDMR system as of the effective date of this permit shall submit the necessary registration and trading partner agreement forms to DEP's Bureau of Clean Water (BCW) within 30 days of the effective date of this permit and begin using the eDMR system when notified by DEP BCW to do so. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
3. Submission of a physical (paper) copy of a Discharge Monitoring Report (DMR) is acceptable under the following circumstances:
  - a. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.
  - b. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).
4. DMRs must be completed in accordance with DEP's published DMR instructions (3800-FM-BCW0463). DMRs must be received by DEP no later than 28 days following the end of the monitoring period. DMRs are based on calendar reporting periods and must be received by DEP in accordance with the following schedule:
  - Monthly DMRs must be received within 28 days following the end of each calendar month.
  - Quarterly DMRs must be received within 28 days following the end of each calendar quarter, i.e., January 28, April 28, July 28, and October 28.
  - Semiannual DMRs must be received within 28 days following the end of each calendar semiannual period, i.e., January 28 and July 28.
  - Annual DMRs must be received by January 28, unless Part C of this permit requires otherwise.
5. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) attached to this permit, or an approved equivalent, and submit the signed, completed forms as attachments to the DMR, through DEP's eDMR system. DEP's Supplemental Laboratory Accreditation Form (3800-FM-BCW0189) must be completed and submitted to DEP with the first DMR following issuance of this permit, and anytime thereafter when changes to laboratories or methods occur. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
6. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:
  - 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 and for co-permittees, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. (40 CFR § 122.22(b))

7. 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 CFR 122.41(l)(4)(ii))

#### C. Reporting Requirements

1. Planned Changes to Physical Facilities – The permittee shall give notice to DEP as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted facility. A permit under 25 Pa. Code Chapter 91 may be required for these situations prior to implementing the planned changes. A permit application, or other written submission to DEP, can be used to satisfy the notification requirements of this section.

Notice is required 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). (40 CFR 122.41(l)(1)(i))
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit. (40 CFR 122.41(l)(1)(ii))
- 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. (40 CFR 122.41(l)(1)(iii))
- d. The planned change may result in noncompliance with permit requirements. (40 CFR 122.41(l)(2))

2. Planned Changes to Waste Stream – Under the authority of 25 Pa. Code § 92a.24(a), the permittee shall provide notice to DEP as soon as possible but no later than 45 days prior to any planned changes in the volume or pollutant concentration of its influent waste stream, as specified in paragraphs 2.a. and 2.b., below. Notice shall be provided on the "Planned Changes to Waste Stream" Supplemental Report (3800-FM-BCW0482), available on DEP's website. The permittee shall provide information on the quality and quantity of waste introduced into the facility, and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the facility. The Report shall be sent via Certified Mail or other means to confirm DEP's receipt of the notification. DEP will determine if the submission of a new application and receipt of a new or amended permit is required.

- a. Introduction of New Pollutants (25 Pa. Code § 92a.24(a))

New pollutants are defined as parameters that meet all of the following criteria:

- (i) Were not detected in the facilities' influent waste stream as reported in the permit application; and
- (ii) Have not been approved to be included in the permittee's influent waste stream by DEP in writing.

The permittee shall provide notification of the introduction of new pollutants in accordance with paragraph 2 above. The permittee may not authorize the introduction of new pollutants until the permittee receives DEP's written approval.

b. Increased Loading of Approved Pollutants (25 Pa. Code § 92a.24(a))

Approved pollutants are defined as parameters that meet one or more of the following criteria:

- (i) Were detected in the facilities' influent waste stream as reported in the permittee's permit application; or
- (ii) Have been approved to be included in the permittee's influent waste stream by DEP in writing; or
- (iii) Have an effluent limitation or monitoring requirement in this permit.

The permittee shall provide notification of the introduction of increased influent loading (lbs/day) of approved pollutants in accordance with paragraph 2 above when (1) the cumulative increase in influent loading (lbs/day) exceeds 20% of the maximum loading reported in the permit application, or a loading previously approved by DEP, or (2) may cause an exceedance in the effluent of Effluent Limitation Guidelines (ELGs) or limitations in Part A of this permit, or (3) may cause interference or pass through at the facility (as defined at 40 CFR 403.3), or (4) may cause exceedances of the applicable water quality standards in the receiving stream. Unless specified otherwise in this permit, if DEP does not respond to the notification within 30 days of its receipt, the permittee may proceed with the increase in loading. The acceptance of increased loading of approved pollutants may not result in an exceedance of ELGs or effluent limitations and may not cause exceedances of the applicable water quality standards in the receiving stream.

3. Reporting Requirements for Hauled-In Wastes

a. Receipt of Residual Waste

- (i) The permittee shall document the receipt of all hauled-in residual wastes (including but not limited to wastewater from oil and gas wells, food processing waste, and landfill leachate), as defined at 25 Pa. Code § 287.1, that are received for processing at the treatment facility. The permittee shall report hauled-in residual wastes on a monthly basis to DEP on the "Hauled In Residual Wastes" Supplemental Report (3800-FM-BCW0450) as an attachment to the DMR. If no residual wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report. The information used to develop the Report shall be retained by the permittee for five years from the date of receipt and must be made available to DEP or EPA upon request.

- (1) The dates that residual wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The license plate number of the vehicle transporting the waste to the treatment facility.
- (4) The permit number(s) of the well(s) where residual wastes were generated, if applicable.
- (5) The name and address of the generator of the residual wastes.
- (6) The type of wastewater.

The transporter of residual waste must maintain these and other records as part of the daily operational record (25 Pa. Code § 299.219). If the transporter is unable to provide this information or the permittee has not otherwise received the information from the generator, the

residual wastes shall not be accepted by the permittee until such time as the permittee receives such information from the transporter or generator.

- (ii) The following conditions apply to the characterization of residual wastes received by the permittee:
  - (1) If the generator is required to complete a chemical analysis of residual wastes in accordance with 25 Pa. Code § 287.51, the permittee must receive and maintain on file a chemical analysis of the residual wastes it receives. The chemical analysis must conform to the Bureau of Waste Management's Form 26R except as noted in paragraph (2), below. Each load of residual waste received must be covered by a chemical analysis if the generator is required to complete it.
  - (2) For wastewater generated from hydraulic fracturing operations ("frac wastewater") within the first 30 production days of a well site, the chemical analysis may be a general frac wastewater characterization approved by DEP. Thereafter, the chemical analysis must be waste-specific and be reported on the Form 26R.

b. Receipt of Municipal Waste

- (i) The permittee shall document the receipt of all hauled-in municipal wastes (including but not limited to septage and liquid sewage sludge), as defined at 25 Pa. Code § 271.1, that are received for processing at the treatment facility. The permittee shall report hauled-in municipal wastes on a monthly basis to DEP on the "Hauled In Municipal Wastes" Supplemental Report (3800-FM-BCW0437) as an attachment to the DMR. If no municipal wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report:

- (1) The dates that municipal wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The BOD<sub>5</sub> concentration (mg/l) and load (lbs) for the wastes received.
- (4) The location(s) where wastes were disposed of within the treatment facility.
- (ii) Sampling and analysis of hauled-in municipal wastes must be completed to characterize the organic strength of the wastes, unless composite sampling of influent wastewater is performed at a location downstream of the point of entry for the wastes.

4. Unanticipated Noncompliance or Potential Pollution Reporting

- a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b).
  - (i) 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 DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.
  - (ii) If reasonably possible to do so, the permittee shall immediately 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.
  - (iii) 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 CFR 122.41(l)(6). These requirements include the following obligations:
  - (i) 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; and
    - (3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement. (40 CFR 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 DEP, the permittee shall submit a written report in accordance with this paragraph. (40 CFR 122.41(l)(6)(iii))

##### 5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.4 of this section or specific requirements of compliance schedules, at the time DMRs are submitted, on the Non-Compliance Reporting Form (3800-FM-BCW0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(l)(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 CFR 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 CFR 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 CFR 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.

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## PART B

### I. MANAGEMENT REQUIREMENTS

#### A. Compliance

1. The permittee shall comply with all conditions of this permit. If a compliance schedule has been established in this permit, the permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit. (40 CFR 122.41(a)(1))
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. (25 Pa. Code § 92a.51(c), 40 CFR 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 25 Pa. Code § 92a.72 and 40 CFR 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 CFR 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 CFR 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 CFR 122.41(h))
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. (40 CFR 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 CFR 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 CFR 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 CFR 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 two, three and four of this section. (40 CFR 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:
  - a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." (40 CFR 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 CFR 122.41(m)(4)(i)(B))
  - c. The permittee submitted the necessary notice required in F.4.a. and b. below. (40 CFR 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 CFR 122.41(m)(4)(ii))
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 CFR 122.41(m)(3)(i))
  - b. Unanticipated Bypass – 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.4.b.

G. Termination of Permit Coverage (25 Pa. Code § 92a.74 and 40 CFR 122.64)

1. Notice of Termination (NOT) – If the permittee plans to cease operations or will otherwise no longer require coverage under this permit, the permittee shall submit DEP's NPDES Notice of Termination (NOT) for Permits Issued Under Chapter 92a (3800-BCW-0410), signed in accordance with Part A III.B.6 of this permit, at least 30 days prior to cessation of operations or the date by which coverage is no longer required.
2. Where the permittee plans to cease operations, NOTs must be accompanied with an operation closure plan that identifies how tankage and equipment will be decommissioned and how pollutants will be managed, as applicable.
3. The permittee shall submit the NOT to the DEP regional office with jurisdiction over the county in which the facility is located.

## 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**

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 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. (40 CFR 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 92a 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; (40 CFR 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; (40 CFR 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; and (40 CFR 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 CFR 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 CFR 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; (40 CFR 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; (40 CFR 122.61(b)(2))
- c. 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; and (40 CFR 122.61(b)(3))
- d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated 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 schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate DEP regulations. (25 Pa. Code § 92a.71)

3. In the event DEP does not approve transfer of this permit, the new owner or operator 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 CFR 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 a new permit. (40 CFR 122.41(b))

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.

**IV. ANNUAL FEES**

Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. Annual fee amounts are specified in the following schedule and are due on each anniversary of the effective date of the most recent new or reissued permit. All flows identified in the schedule are annual average design flows. (25 Pa. Code § 92a.62)

Minor IW Facility without ELG (Effluent Limitation Guideline)	\$500
Minor IW Facility with ELG	\$1,500
Major IW Facility < 250 MGD (million gallons per day)	\$5,000
Major IW Facility ≥ 250 MGD	\$25,000
IW Stormwater Individual Permit	\$1,000
CAAP (Concentrated Aquatic Animal Production Facility)	\$0

As of the effective date of this permit, the facility covered by the permit is classified in the following fee category: **Minor IW Facility without ELG**.

Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Throughout a five year permit term, permittees will pay four annual fees followed by a permit renewal application fee in the last year of permit coverage. Permittees may contact DEP at 717-787-6744 with questions related to annual fees. The fees identified above are subject to change in accordance with 25 Pa. Code § 92a.62(e).

Payment for annual fees shall be remitted to DEP at the address below by the anniversary date. Checks should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection  
Bureau of Clean Water  
Re: Chapter 92a Annual Fee  
P.O. Box 8466  
Harrisburg, PA 17105-8466

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## PART C

### I. OTHER REQUIREMENTS

- A. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance or replacement of all structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.
- B. Collected screenings, slurries, sludges, and other solids shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), 25 Pa. Code Chapters 287, 288, 289, 291, 295, 297, and 299 (relating to requirements for landfilling, impoundments, land application, composting, processing, and storage of residual waste), Chapters 261a, 262a, 263a, and 270a (related to identification of hazardous waste, requirements for generators and transporters, and hazardous waste, requirements for generators and transporters, and hazardous waste permit programs), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments. Screenings collected at intake structures shall be collected and managed and not be returned to the receiving waters.

The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport and disposal of solid waste materials generated as a result of wastewater treatment.

- C. The terms and conditions of Water Quality Management (WQM) permits that may have been issued to the permittee relating to discharge requirements are superseded by this NPDES permit unless otherwise stated herein.
- D. 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 EPA for this type of industry, and if such standard or limitation is more stringent than the corresponding limitations of this permit (or if it controls pollutants not covered by this permit), DEP may modify or revoke and reissue the permit to conform with that standard or limitation.

### II. CHEMICAL ADDITIVES

#### A. Approved Chemical Additives List

1. The permittee is authorized to use chemical additives that are published on DEP's Approved Chemical Additives List (Approved List) (see [www.dep.pa.gov/chemicaladditives](http://www.dep.pa.gov/chemicaladditives)) subject to paragraphs A.2 and A.3, below.
2. The permittee may not discharge a chemical additive at a concentration that is greater than the water quality-based effluent limitation (WQBEL) for the chemical additive or, if applicable, a technology-based effluent limitation. If effluent limitations are not specified in Part A of this permit for the chemical additive, the permittee is responsible for determining the WQBEL and ensuring the WQBEL is not exceeded by restricting usage to an amount that will not cause an excursion above in-stream water quality standards.
3. If the permittee decides to use a chemical additive that is on DEP's Approved List and the use would either (1) constitute an increase in the usage rate specified in the NPDES permit application or previous notification to DEP or (2) constitute a new use, not identified in the NPDES permit application or otherwise no previous notification occurred, the permittee shall complete and submit the "Chemical Additives Notification Form" (3800-FM-BCW0487) to the DEP regional office that issued the permit. The permittee may proceed to use the chemical additive as reported on the Form upon receipt by the DEP regional office.

#### B. New Chemical Additives, Not on Approved Chemical Additives List

1. In the event the permittee wishes to use a chemical additive that is not listed on DEP's Approved List, the permittee shall submit the "New Chemical Additives Request Form" (3800-FM-BCW0486) to DEP's Central Office, Bureau of Clean Water (BCW), NPDES Permitting Division, Rachel Carson State Office Building, PO Box 8774, Harrisburg, PA 17105-8774, prior to use. A copy shall be submitted to the DEP regional office that issued the permit. The form must be completed in whole in order for BCW to approve the chemical additive, and a Material Safety Data Sheet (MSDS) that meets the minimum requirements of 29 CFR 1910.1200(g) must be attached.
2. Following placement of the chemical additive on the Approved List, the permittee may submit the Chemical Additive Notification Form in accordance with paragraph A.3, above, to notify DEP of the intent to use the approved chemical additive. The permittee may proceed with usage when the new chemical has been identified on DEP's Approved List and following DEP's receipt of the Chemical Additives Notification Form.
3. The permittee shall restrict usage of chemical additives to the maximum usage rates determined and reported to DEP on Chemical Additives Notification Forms.

C. Chemical Additives Usage Reporting Requirements

The "Chemical Additives Usage Form" (3800-FM-BCW0439) shall be used to report the usage of chemical additives and shall be submitted as an attachment to the Discharge Monitoring Report (DMR) at the time the DMR is submitted.

4. DEP may amend this permit to include WQBELs or otherwise control usage rates of chemical additives if there is evidence that usage is adversely affecting receiving waters, producing Whole Effluent Toxicity test failures, or is causing excursions of in-stream water quality standards.

### III. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS

- A. The permittee is authorized to discharge non-polluting stormwater from its site, alone or in combination with other wastewaters, through the following outfalls:

Outfall No.	Area Drained (ft <sup>2</sup> )	Latitude	Longitude	Description
001	259,009	41° 50' 07"	-79° 11' 20"	Roof drains, access roads, subyard, area south of railroad tracks, and area east of scales
002	240,532	41° 50' 04"	-79° 11' 31"	Combustion turbine equipment oil reservoir
003	967,978	41° 50' 07"	-79° 11' 40"	Closed southern ash site
004	197,259	41° 50' 07"	-79° 11' 18"	Remedial coal pile area; former precipitator and access roads
005	179,209	41° 50' 07"	-79° 11' 28"	Vegetated 230kv subyard, caustic unloading area, and half of the roof drains from IWT

Monitoring requirements and effluent limitations for these outfalls are specified in Part A of this permit, if applicable.

- B. Stormwater Annual Report.

The permittee shall submit a complete Annual Report to the DEP office that issued the permit by May 1 each year using DEP's Annual Report template, attached to this permit. The Annual Report shall address activities under the permit for the previous calendar year. The permittee shall submit the Annual Report electronically if notified by DEP in writing. If the permittee discharges to a municipal separate storm sewer system (MS4), a copy of the Annual Report shall be submitted to the operator of the MS4.

- C. Best Management Practices (BMPs).

The permittee shall implement and, as necessary, maintain the following BMPs to remain in compliance with this permit.

1. Pollution Prevention and Exposure Minimization.

The permittee shall minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff in order to minimize pollutant discharges by either locating industrial materials and activities inside or protecting them with storm resistant coverings wherever feasible. The permittee shall implement and maintain the following measures, at a minimum:

- a. Use grading, berthing or curbing to prevent runoff of polluted stormwater and divert run-on away from areas that contain polluted stormwater
- b. Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge to surface waters
- c. Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants to surface waters
- d. Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents to prevent the release of pollutants to the environment.
- e. Use spill/overflow protection equipment.
- f. Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray.
- g. Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks.
- h. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids, ensure that discharges have a control (e.g., secondary containment, treatment). This General Permit does not authorize dry weather discharges from dumpsters or roll off boxes.
- i. Minimize contamination of stormwater runoff from fueling areas by implementing the following BMPs where determined to be feasible: cover fueling areas; install oil/water separators or oil and grease traps in fueling area storm drains; use berms to prevent run-on to and runoff from fueling areas; use spill/overflow protection and cleanup equipment; use dry cleanup methods; and/or treat and/or recycle collected stormwater runoff.
- j. Train employees routinely (no less than annually) on pollution prevention practices as contained in the PPC Plan.

2. Good Housekeeping.

The permittee shall perform good housekeeping measures in order to minimize pollutant discharges including the routine implementation of the following measures, at a minimum:

- a. Implement a routine cleaning and maintenance program for all impervious areas of the facility where particulate matter, dust or debris may accumulate to minimize the discharge of pollutants in stormwater. The cleaning and maintenance program must encompass, as appropriate, areas where material loading and unloading, storage, handling and processing occur.
- b. Store materials in appropriate containers.
- c. Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged.
- d. Eliminate floor drain connections to storm sewers.

- e. Use drip pans, drain boards, and drying racks to direct drips back into a fluid holding tank for reuse. Drain fluids from all equipment and parts prior to disposal. Promptly transfer used fluids to the proper container; do not leave full drip pans or other open containers around the shop. Empty and clean drip pans and containers.
- f. Label and track the recycling of waste material (e.g., used oil, spent solvents, batteries).
- g. Prohibit the practice of hosing down an area where the practice would result in the discharge of pollutants to a municipal or other storm water collection system that conveys pollutants off-site without proper treatment.

3. Erosion and Sediment Controls.

- a. The permittee shall minimize erosion and pollutant discharges by stabilizing exposed soils and placing flow velocity dissipation devices at discharge locations to minimize channel and stream bank erosion and scour in the immediate vicinity of stormwater outfalls.
- b. The permittee shall conduct all earth disturbance activities and, when applicable, shall maintain all post-construction stormwater management (PCSM) BMPs in accordance with 25 Pa. Code Chapter 102.
- c. The permittee may not utilize polymers or other chemicals to treat stormwater unless written permission is obtained from DEP.

4. Spill Prevention and Responses.

The permittee shall minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop a PPC Plan for effective responses to such releases. The permittee shall conduct the following spill prevention and response measures, at a minimum:

- a. Maintain an organized inventory of materials on-site. Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur.
- b. Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas.
- c. Develop and implement employee and contractor training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. The permittee shall conduct periodic training, no less than annually, and document the training on the Annual Report specified in paragraph B of this section.
- d. Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made.
- e. Notify appropriate facility personnel when a leak, spill, or other release occurs.
- f. To the extent possible, eliminate or reduce the number and amount of hazardous materials and waste by substituting non-hazardous or less hazardous materials of equal function, as determined by the permittee.
- g. Clean up leaks, drips, and other spills without using large amounts of water or liquid cleaners. Use absorbents for dry cleanup whenever possible.

When a leak, spill or other release occurs during a 24-hour period that contains a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under 40 CFR Parts 110, 117 or 302, the permittee shall, in addition to the notification requirements contained in Part A III.C.4 of this permit, notify the National Response Center (NRC) at (800) 424-8802 in accordance with the

requirements of 40 CFR Parts 110, 117, and 302 as soon as the permittee becomes aware of the discharge.

5. Sector- and Site-Specific BMPs.

- a. The permittee shall implement the BMPs in the applicable Appendix to the NPDES PAG-03 General Permit for Discharges of Stormwater Associated with Industrial Activities that is currently in effect.

D. Routine Inspections.

1. The permittee shall visually inspect the following areas and BMPs on a semiannual basis (calendar periods), at a minimum:

- a. Areas where industrial materials or activities are exposed to stormwater.
- b. Areas identified in the PPC Plan as potential pollutant sources.
- c. Areas where spills or leaks have occurred in the past three years.
- d. Stormwater outfalls and locations where authorized non-stormwater discharges may commingle.
- e. Physical BMPs used to comply with this permit.

At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring.

2. The permittee shall evaluate and document the following conditions, at a minimum, in the Annual Report required by paragraph B of this section through required inspections:

- k. Raw materials, products or wastes that may have or could come into contact with stormwater.
- l. Leaks or spills from equipment, drums, tanks and other containers.
- m. Off-site tracking of industrial or waste materials, or sediment where vehicles enter or exit the site.
- n. Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas.
- o. Control measures or BMPs needing replacement, maintenance or repair.
- p. The presence of authorized non-stormwater discharges that were not identified in the permit application and non-stormwater discharges not authorized by this permit.

E. Preparedness, Prevention and Contingency (PPC) Plan

1. The permittee shall develop and implement a PPC Plan in accordance with 25 Pa. Code § 91.34 following the guidance contained in DEP's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans" (DEP ID 400-2200-001), its NPDES-specific addendum and the minimum requirements below.

- a. The PPC Plan must identify all potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the facility.
- b. The PPC Plan must describe preventative measures and BMPs that will be implemented to reduce or eliminate pollutants from coming into contact with stormwater resulting from routine site activities and spills.
- c. The PPC Plan must address actions that will be taken in response to on-site spills or other pollution incidents.

- d. The PPC Plan must identify areas which, due to topography or other factors, have a high potential for soil erosion, and identify measures to limit erosion. Where necessary, erosion and sediment control measures must be developed and implemented in accordance with 25 Pa. Code Chapter 102 and DEP's "Erosion and Sediment Pollution Control Manual" (DEP ID 363-2134-008).
- e. The PPC Plan must address security measures to prevent accidental or intentional entry which could result in an unintentional discharge of pollutants.
- f. The PPC Plan must include a plan for training employees and contractors on pollution prevention, BMPs, and emergency response measures. This training must be conducted in accordance with paragraph C.4.c of this section.
- g. If the facility is subject to SARA Title III, Section 313, the PPC Plan must identify releases of "Water Priority Chemicals" within the previous three years. Water Priority Chemicals are those identified in EPA's "Guidance for the Determination of Appropriate Methods for the Detection of Section 313 Water Priority Chemicals" (EPA 833-B-94-001, April 1994). The Plan must include an evaluation of all activities that may result in the stormwater discharge of Water Priority Chemicals.
- h. Spill Prevention Control and Countermeasure (SPCC) plans may be used to meet the requirements of this section if the minimum requirements are addressed.

2. The permittee shall review and if necessary update the PPC Plan on an annual basis, at a minimum, and when one or more of the following occur:
  - a. Applicable DEP or federal regulations are revised, or this permit is revised.
  - b. The PPC Plan fails in an emergency.
  - c. The facility's design, industrial process, operation, maintenance, or other circumstances change in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency.
  - d. The list of emergency coordinators or equipment changes.
  - e. When notified in writing by DEP.

The permittee shall maintain all PPC Plan updates on-site, make the updates available to DEP upon request, and document the updates in Annual Reports.

#### F. Stormwater Monitoring Requirements.

1. The permittee shall conduct monitoring of its stormwater discharges at the representative outfalls identified in Part A of this permit, if applicable. The permittee shall document stormwater sampling event information and no exposure conditions for each calendar year on the Annual Report required by paragraph B of this section.
2. The permittee shall, upon written notice from DEP, install inlets, pipes, and/or other structures or devices that are considered necessary in order to conduct representative stormwater sampling, in accordance with a schedule provided by DEP.
3. The permittee shall collect all samples from discharges resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The 72-hour storm interval is waived when the preceding storm did not yield a measurable discharge, or if the permittee is able to document that a less than 72-hour interval is representative for local storm events during the sample period.
4. The permittee shall collect all grab samples within the first 30 minutes of a discharge, unless the permittee determines that this is not possible, in which case grab samples must be collected as soon as possible after the first 30 minutes of a discharge. The permittee shall explain why samples could not be

collected within the first 30 minutes of any discharge on the Annual Report required by paragraph B of this section.

5. The permittee shall collect stormwater samples at times when commingling with non-stormwater discharges is not occurring or at locations prior to the commingling of non-stormwater discharges, unless Part A of this permit recognizes commingling of stormwater and non-stormwater discharges.
6. In the event that stormwater discharge concentrations for a parameter exceeds the benchmark values identified below at the same outfall for two or more consecutive monitoring periods, the permittee shall develop a corrective action plan to reduce the concentrations of the parameters in stormwater discharges. The permittee shall submit the corrective action plan to DEP within 90 days of the end of the monitoring period triggering the need for the plan, and shall implement the plan immediately upon submission or at a later time if authorized by DEP in writing. The permittee shall, in developing the plan, evaluate alternatives to reduce stormwater concentrations and select one or more BMPs or control measures for implementation, unless the permittee can demonstrate in the plan that (1) the exceedances are solely attributable to natural background sources; (2) no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice; or (3) further pollutant reductions are not necessary to prevent stormwater discharges from causing or contributing to an exceedance of applicable water quality standards.

Parameter	Benchmark Value (mg/L)
Total Suspended Solids (TSS) (mg/L)	100
Oil and Grease (mg/L)	30

Application Type

Renewal

Facility Type

Industrial

Major / Minor

Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL INDUSTRIAL WASTE (IW)  
AND IW STORMWATER**

Application No.

**PA0005053**

APS ID

**924752**

Authorization ID

**1154466**

**Applicant and Facility Information**

Applicant Name	<u>GenOn REMA, LLC (formerly NRG REMA, LLC)</u>	Facility Name	<b>Warren Generating Station</b>
Applicant Address	<u>PO Box F, 250 Power Plant Drive</u>	Facility Address	<u>20085 Route 6</u>
Applicant Contact	<u>Shawville, PA 16873</u>	Facility Contact	<u>Warren, PA 16365-3655</u>
Applicant Phone	<u>Stephen M. Frank, Sr. Mgr., Environmental</u>	Facility Phone	<u>John Telford</u>
Client ID	<u>724-249-3610</u>	Site ID	<u>814-768-4283</u>
SIC Code	<u>135779</u>	Municipality	<u>263250</u>
SIC Description	<u>4911</u>	County	<u>Conewango Township</u>
Date Application Received	<u>Trans. &amp; Utilities - Electric Services</u>	EPA Waived?	<u>Warren</u>
Date Application Accepted	<u>September 29, 2016</u>	If No, Reason	<u>Yes</u>
Purpose of Application	<u>December 7, 2016</u>		<u>---</u>
			<u>This is a second draft of an NPDES permit renewal</u>

**Summary of Review**

This is a second draft of an NPDES permit renewal for the Warren Generating Station. The first draft was published in the Pennsylvania Bulletin on September 14, 2019 and the 30-day comment period was extended 15 additional days closing the comment period on October 29, 2019. The time extension was requested by a third party (private citizen). Following the extension request, the Department received approximately 178 emails, 7 letters, numerous phone calls, and media inquiries with both questions and comments on the facility and associated draft NPDES permit. Numerous requests were made for a public meeting, public hearing, as well as a further extension of the 45-day draft permit comment period. DEP understands that citizens are concerned about the impact of wastewater discharges on our natural resources. DEP values and encourages public comments and concerns in its permit renewal process, and no final action will be taken until public input is considered. This "re-draft" will be published in the PA Bulletin with a new 30-day public comment period (public comments from the initial comment period were considered in this re-draft). On March 17, 2020, the DEP Northwest Regional Office (NWRO) closed due to COVID-19 and remains closed. Additionally, indoor Gatherings of More Than 25 is prohibited. The Department does not want to further delay the Department's response to the public and redraft of this NPDES permit and has determined an alternative approach to answering the public's questions. A Frequently Asked Questions (FAQ) webpage has been setup to answer the questions being asked by the public. This webpage provides a comprehensive list of questions that are in addition to detailed information found in this Fact Sheet. A summary of the FAQs are included as Attachment E of this Fact Sheet.

**Background**

The coal fired power plant portion of this facility has not been active for over a decade. The coal ash landfill that is located on this site was capped and closed by October 2003 under the Solid Waste Management Act and its regulations and the 2003 Construction Certification Report was accepted by DEP in 2004. Coal ash is no longer generated at this facility and there are no plans to bring coal ash in from other facilities and/or sources.

However, the landfill continues to generate "leachate". The Department defines (See 25 Pa Code 287.1) "leachate" as "a liquid, including suspended or dissolved components in the liquid, that has percolated through or drained from solid waste"

Approve	Deny	Signatures	Date
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	August 20, 2020
X		John A. Holden John A. Holden, P.E. / Environmental Program Manager	August 20, 2020

### Summary of Review

and, in this case, would be the liquid that drains from the closed ash disposal landfill. In other words, some of the rain water that falls on top of the landfill will percolate through the landfill's earth cap and disposed coal ash layer. Percolation is to filter gradually through the landfill's surface and waste layers. The water that has percolated through the landfill is considered "leachate" and this water is collected along the base of the landfill through an underground collection system. This collection system is intended to capture the leachate prior to it reaching groundwater and/or surface water (Allegheny River). As has been done since the time that the landfill was constructed, the collected leachate is treated to remove contaminants and be in compliance with the federal Clean Water Act and state Clean Streams Law. This treated "leachate" is then discharged into the Allegheny River under the terms and conditions of the subject NPDES permit. The facility discharge of treated leachate has been permitted under an NPDES permit since 3/25/1976. The discharge from the leachate treatment system at the facility is in compliance with its current NPDES permit and has been permitted for multiple permit cycles since 3/25/1976 (an NPDES permit is typically issued for a five-year term).

DEP determined that this facility's discharge should be regulated under the revised Steam Electric Subcategory (40 CFR 423) as combustion residual leachate. This wastestream is defined in 40 CFR 423.11(r) as "leachate from landfills or surface impoundments containing combustion residuals. Leachate is composed of liquid, including any suspended or dissolved constituents in the liquid, that has percolated through waste or other materials emplaced in a landfill, or that passes through the surface impoundment's containment structure (e.g., bottom, dikes, berms). Combustion residual leachate includes seepage and/or leakage from a combustion residual landfill or impoundment unit. Combustion residual leachate includes wastewater from landfills and surface impoundments located on non-adjacent property when under the operational control of the permitted facility."

### First Draft Permit Comments and Responses

#### General Public Comments

**General Comment:** *The majority of the public comments received by DEP objected to DEP "allowing coal ash to be dumped into the Allegheny River".*

**DEP Response:** **Coal ash will not be dumped into the Allegheny River under this NPDES permit. The existing NPDES permit authorizes the discharge of treated leachate from the closed and capped coal ash landfill and uncontaminated stormwater runoff from the site. The applicant has applied for a renewal of the existing permit to continue the discharge of treated coal ash landfill leachate and uncontaminated stormwater.**

#### Specific Public Comments:

***The following are specific public comments that Department determined were appropriate to address in this second draft permit renewal. A summary is as follows:***

**Public Comment 1:** *DEP must impose limits on arsenic and mercury from the discharges of combustion residual leachate from Outfall 002.*

**DEP Response 1:** **Based on the information provided in the NPDES permit renewal application and DEP's evaluation, no limits or monitoring requirements for arsenic or mercury are proposed in this redrafted NPDES permit.**

**DEP evaluated the treated ash landfill leachate discharges based on information contained in the 2016 renewal permit application and the applicable technology-based requirements for leachate discharges of coal combustion residuals (ash). Prior testing of the treated leachate discharged from the facility under the existing permit have shown no detection of arsenic or Hexavalent Chromium and low concentrations of manganese, well below the calculated water quality based effluent limits. Arsenic concentrations were reported as "non-detect" (< 0.5 µg/L) for the three samples reported on the 2016 permit renewal application. Similarly, this permit application as well as the previous permit application both showed non-detect (<0.100 µg/L) influent samples and 3 out of 4 effluent samples for Mercury reported as non-detect with only one mercury sample reported as 0.100 µg/L. Thallium was reported as 0.3 µg/L for both the influent and effluent application sampling results. The most stringent criteria for Thallium is 0.24 µg/L. Therefore, Thallium was modelled utilizing the Department's**

**Summary of Review**

PENTOXSD toxics model and a Thallium effluent limit of 836.248 µg/L was calculated. The calculated effluent limitation for Thallium is 2,787 times the concentration of Thallium in the influent and effluent sampling results. There are no changes to the treatment of the discharged water in the renewal application, so DEP expects the effluent quality to remain consistent. Sampling of radiological parameters was not required as part of the NPDES permit renewal application. See DEP Response 5 for more information regarding radiological sampling.

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**Public Comment 2:** *DEP must require at least monthly monitoring of mercury, thallium, manganese, and all other pollutants that were candidates for water quality monitoring from the combustion residual leachate discharges from Outfall 002.*

**DEP Response 2:** **"DEP Response 1"**

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**Public Comment 3:** *DEP must impose limits on nickel and chloride in order to protect threatened and endangered mussel species, consistent with the U.S. Fish and Wildlife Service's comments.*

**DEP Response 3:** **Pennsylvania regulations do not include the criteria for chloride and nickel as suggested by the USFWS. However, like it has done with numerous other NPDES permits in the Allegheny River watershed, DEP has added monitoring for chloride and nickel to this redrafted NPDES permit. See detailed discussion below regarding endangered species protection. Monitoring and effluent limitations for oil and grease are also to this redrafted NPDES Permit.**

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**Public Comment 4:** *A commenter on the first draft stated that the "Fifth Circuit Court of Appeals recently struck down the Best Available Technology ("BAT") limitations for leachate from existing sources established in 2015, noting that simply allowing impoundments – the technology upon which EPA purportedly established the BAT limits in the ELG rule – to "treat" leachate through sedimentation or settling is not the best available technology for treating leachate. Moreover, the Fifth Circuit went on to strongly suggest that BAT may be chemical precipitation. As it happens, EPA's 2015 ELG rule also established effluent limits for leachate at new sources (not affected by the 5<sup>th</sup> Circuit decision), and based those limits on chemical precipitation. Specifically, EPA set numeric effluent limits for mercury and arsenic, namely: for arsenic, a daily maximum limit of 11 µg/L and a 30-day average limit of 8 µg/L; and, for mercury, a daily maximum of 788 ng/L and a 30-day average limit of 356 ng/L*

**DEP Response 4:** **As discussed in DEP Response 1, monitoring and/or effluent limitations for arsenic and mercury were determined to not be necessary based on the sampling results which are below the values provided in the comment. For clarification, the Warren Generating Station leachate treatment facility (WQM Permit # 6203201) includes chemical precipitation. A summary of the treatment facility process is included on Page 10 of this Fact Sheet.**

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**Public Comment 5:** *Comments were also received stating a concern that the discharge may contain radiological contamination.*

**DEP Response 5:** **Radiological sampling of the effluent is not an application requirement for facilities of this nature and is not expected to be a parameter of concern. However, the Department acknowledged the concern and determined that a radiological evaluation of the site was appropriate. The PA DEP Bureau of Radiation (BRP) visited the Warren Generating Station site on 12/4/19 a report prepared by the BRP is included as Attachment D of this Fact Sheet.**

**Applicant Comments:**

### Summary of Review

**The applicant submitted a comment letter followed by an addendum letter. The original comment letter was dated October 10, 2019 and received on October 11, 2019 and the addendum letter was dated and received on October 29, 2019. These letters are included as Attachment E of this Fact Sheet. A summary is as follows:**

**Applicant Comment A:** Site Contact Information:

1. Site Contact – John Telford, 814-768-4283, [john.telford@genon.com](mailto:john.telford@genon.com)
2. Plant Manager – William J. Weaver, 814-768-4225, [William.weaver@genon.com](mailto:William.weaver@genon.com)
3. Mailing Address (Same):  
PO Box F  
250 Power Plant Drive  
Shawville, PA 16873.

**DEP Response A:** DEP acknowledges the updated site contact information

**Applicant Comment B:** Permittee Name – Permittee name should have a comma between REMA and LLC. It should be GenOn REMA, LLC.

**DEP Response B:** The Fact Sheet and NPDES Permit documents have been updated to reflect this correction. See DEP Response D for further discussion regarding the permittee name.

**Applicant Comment C:** Part A.I.A – Total Nickel and Chloride Monitoring – Quarterly Total Nickel and Chloride monitoring were added to develop a dataset to evaluate potential impacts to threatened and endangered mussel species in the Allegheny River based on USFWS criteria. Four additional samples were taken of these parameters with the following results:

Total Nickel – 23 µg/L, 29 µg/L, 24 µg/L, and 28 µg/L  
Chloride – 10.7 mg/L, 17.7 mg/L, 9 mg/L, and 13.2 mg/L

GenOn requests that the Chloride monitoring be removed from the permit as the results are well below the USFWS criteria. Based on the lower results for Total Nickel and the Department's statement in the Fact Sheet that Nickel is not expected to be measurable at levels in the Allegheny River at the point of discharge that would exceed the USFWS criteria due to the instantaneous assimilative capacity of the Allegheny River, GenOn requests that the Nickel monitoring also be removed from the permit.

**DEP Response C:** Monitoring requirements for Total Nickel and Chloride are discussed in the “Threatened and Endangered Mussel Species Concerns and Considerations” section of this Fact Sheet. Monitoring for Nickel and Chloride at once per quarter will remain in the “second draft” NPDES permit.

**Applicant Comment D:** Subdivision Plan – As discussed in our call with you on September 25, 2019, GenOn plans to subdivide the Warren Station property to separate the Combustion Turbine (CT) site from the former coal-fired generating station site. A subdivision map is attached. The area within the cross-hatched black lines will fall under a permit to be issued to Warren Power, LLC. GenOn requests that the subdivided parcel be excluded from the NPDES permit and that this permit be held until permitting for the new parcel is in place..

**DEP Response D:** The referenced “subdivision map” is included as Figure 5 of this Fact Sheet. The Warren Generating Station steam units have been deactivated and this portion of the facility is closed. However, the gas-fired combustion turbine (CT) continues to operate and GenOn requested that the CT portion of the site be removed from the subject permit. To memorialize this action and to maintain permit coverage for the stormwater discharges associated with the CT portion of the site, GenOn submitted a PAG-03 NPDES General Permit for Discharges of Stormwater

### Summary of Review

Associated with Industrial Activity “No Exposure Certification” application on December 27, 2019 for the CT portion of the site. This application was submitted under “Warren Generation, LLC” (Permit Number NOEXNW2017, Authorization Number 1302118). NRG recently changed their operational name to GenOn Holdings, Inc. As a result of this name change, the applicant submitted a letter received on June 18, 2019 to request that the applicant name be changed from “NRG REMA, LLC” to “GenOn REMA, LLC”. The facility was originally permitted as “GenOn REMA, LLC” in the last permit renewal dated March 8, 2012 but the name was changed to “NRG REMA, LLC” through a permit amendment dated March 31, 2014. The applicant is now proposing to revert back to the “GenOn REMA, LLC” name and was advised on July 11, 2019 that a permit amendment application would be required for this change and subsequently a permit amendment/transfer application was received on October 9, 2019. This name change amendment and removal of the subdivided CT portion of the site will be incorporated into this permit renewal. The Fact Sheet and NPDES Permit documents have been updated to reflect this correction. The Department anticipates that a permit decision will be made on the “No Exposure Certification” prior to or simultaneous of the issuance of the subject permit.

### Additional Information and Updates

Contact information since the original September 29, 2016 NPDES permit renewal submittal has changed as follows:

Applicant:	Stephen M. Frank, P.E. Senior Manager, Environmental <a href="mailto:Stephen.Frank@GenOn.com">Stephen.Frank@GenOn.com</a> 724-249-3610	or	Karen E. McClelland Senior Environmental Specialist <a href="mailto:Karen.McClelland@GenOn.com">Karen.McClelland@GenOn.com</a> 724-877-4462
Facility/Site :	William J. Weaver Plant Manager <a href="mailto:William.Weaver@GenOn.com">William.Weaver@GenOn.com</a> 814-768-4225	or	John Telford <a href="mailto:John.telford@genon.com">John.telford@genon.com</a> 814-768-4283

The Chapter 92a fee category will be changed to “Minor IW with ELG” upon issuance of this permit (See the “Development of Effluent Limitations” section of this Fact Sheet for explanation).

### Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP’s discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	001	Design Flow (MGD)	N/A
Latitude	41° 50' 07"	Longitude	-79° 11' 20"
Outfall No.	003	Design Flow (MGD)	N/A
Latitude	41° 50' 07"	Longitude	-79° 11' 40"
Outfall No.	004	Design Flow (MGD)	N/A
Latitude	41° 50' 07"	Longitude	-79° 11' 28"
Quad Name	Warren	Quad Code	01073
Wastewater Description:	Stormwater		
Receiving Waters	Allegheny River (WWF)	Stream Code	42122
NHD Com ID	112375359	RMI	-
Drainage Area	-	Yield (cfs/mi <sup>2</sup> )	-
Q <sub>7-10</sub> Flow (cfs)	-	Q <sub>7-10</sub> Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	16-B	Chapter 93 Class.	WWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	MERCURY, PATHOGENS		
Source(s) of Impairment	SOURCE UNKNOWN, SOURCE UNKNOWN		
TMDL Status	-	Name	-

Changes Since Last Permit Issuance:

- A portion of the drainage area for Outfall 001 has been removed from this permit and is proposed to be covered under "No Exposure" Certification NOEXNW207 with a monitoring point identified as Outfall 101. See Figures 5 and 6.
- A portion of the drainage area for Outfall 002 has been removed from this permit and is proposed to be covered under "No Exposure" Certification NOEXNW207 with a monitoring point identified as Outfall 201. See Figures 5 and 6

Other Comments: These stormwater outfalls meet the requirements for being eligible for a no exposure exemption. Therefore, monitoring requirements and effluent limitations for these outfalls will not be included in the NPDES permit.

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	002	Design Flow (MGD)	.029
Latitude	41° 50' 04"	Longitude	-79° 11' 31"
Quad Name		Quad Code	
Wastewater Description: Treated ash disposal site leachate and stormwater			
Receiving Waters	Allegheny River (WWF)	Stream Code	42122
NHD Com ID	112375359	RMI	186.21
Drainage Area	3140	Yield (cfs/mi <sup>2</sup> )	0.324
Q <sub>7-10</sub> Flow (cfs)	1017.88	Q <sub>7-10</sub> Basis	See below
Elevation (ft)	1163	Slope (ft/ft)	0.0003
Watershed No.	16-B	Chapter 93 Class.	WWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	MERCURY, PATHOGENS		
Source(s) of Impairment	SOURCE UNKNOWN, SOURCE UNKNOWN		
TMDL Status		Name	
Background/Ambient Data			
pH (SU)	7.4	Data Source	9/98-6/04 sampling @ WQN #866 – Alleg. R. near Warren
Temperature (°F)	25		Default temp for a WWF stream
Hardness (mg/L)	31		Avg. value of samples from WQN #866 (1/95-12/98)
Other:	-		-
Nearest Downstream Public Water Supply Intake			
PWS Waters	Allegheny River	Flow at Intake (cfs)	1376
PWS RMI	90.67	Distance from Outfall (mi)	96 miles (approximate)

Changes Since Last Permit Issuance: N/A

Q<sub>7-10</sub> Flow Calculations:

USGS 03016000 – Allegheny River @ West Hickory (1/1985-9/2010\*) – Q<sub>7,10</sub> = 1060 cfs; D.A. = 3660 mi<sup>2</sup>;  
\*No flow data was collected at the West Hickory gage from 10/2004 to 9/2007. D-Flow was used to find Q<sub>7-10</sub>.

USGS 03012600 – Allegheny River @ Kinzua Dam (1935-1965) – Yield = 0.081 cfs/mi

Flow will be subtracted between West Hickory Gage and Outfall 002 using yield rate prior to construction of Kinzua Dam.

Q<sub>7-10</sub> at Outfall 002 = 1060 cfs – [(3660-3140 mi)(0.081 cfs/mi)] = 1017.88 cfs  
Q<sub>7-10</sub> at Downstream Point = 1060 cfs – [(3660-3141 mi)(0.081 cfs/mi)] = 1017.96 cfs  
(Just below Morse Run confluence – RMI 184.76)  
Q<sub>7-10</sub> at PWS (Aqua At Emlenton – RMI 90.57) = 1376 cfs

Other Comments: This stormwater outfall meets the requirements for being eligible for a no exposure exemption. Therefore, stormwater monitoring requirements and effluent limitations for this outfall will not be included in the NPDES permit.

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	005	Design Flow (MGD)	N/A
Latitude	41° 50' 07"	Longitude	-79° 11' 28"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
Receiving Waters	UNT to Allegheny River (WWF)	Stream Code	42122
NHD Com ID	112375331	RMI	-
Drainage Area	-	Yield (cfs/mi <sup>2</sup> )	-
Q <sub>7-10</sub> Flow (cfs)	-	Q <sub>7-10</sub> Basis	-
Elevation (ft)	-	Slope (ft/ft)	-
Watershed No.	16-B	Chapter 93 Class.	WWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	-		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	-	Name	-
Background/Ambient Data		Data Source	
pH (SU)	-	-	
Temperature (°F)	-	-	
Hardness (mg/L)	-	-	
Other:	-	-	
Nearest Downstream Public Water Supply Intake		Aqua Pa, Emlenton	
PWS Waters	Allegheny River	Flow at Intake (cfs)	1376
PWS RMI	90.67	Distance from Outfall (mi)	---

Changes Since Last Permit Issuance:

- A portion of the drainage area for Outfall 005 has been removed from this permit and is proposed to be covered under "No Exposure" Certification NOEXNW207 with a monitoring point identified as Outfall 501. See Figures 5 and 6.

Other Comments: This stormwater outfall meets the requirements for being eligible for a no exposure exemption. Therefore, monitoring requirements and effluent limitations for this outfall will not be included in the NPDES permit.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Warren Generating Station				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
6274203-T3		3/31/2014		
6203201-T1		5/4/2011		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Industrial	Chemical (Industrial Waste)	Chemical Precipitation	No Disinfection	---
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
2.21	000	---	Dewatering	Landfill
Changes Since Last Permit Issuance: None				
6274203-T3: Ash disposal ponds (original permit issued on 5/19/75)				
6203201-T1: Leachate storage pond, pump station, leachate treatment consisting of 2-stage pH adjustment and aeration, settling, sludge thickening, filter press, sludge hopper, and ancillary equipment. (original permit issued on 4/9/2003)				
		<u>Closed Landfill</u>	<u>Leachate Storage Pond</u>	
		<u>Leachate Treatment Facility Building</u>	<u>Aeration / Reaction / Flocculation Tanks</u>	

 <u>Chemical Addition Feed</u>	 <u>Clarifier</u>
 <u>Sludge Press / Hopper - Pressed Sludge</u>	 <u>Composite Sampler</u>
 <u>Outfall 002 – Allegheny River</u>	

Figure 1: WWTP Schematic Flow Diagram (Source: 2002 Design Engineers Report for WQM Permit Number 6203201)

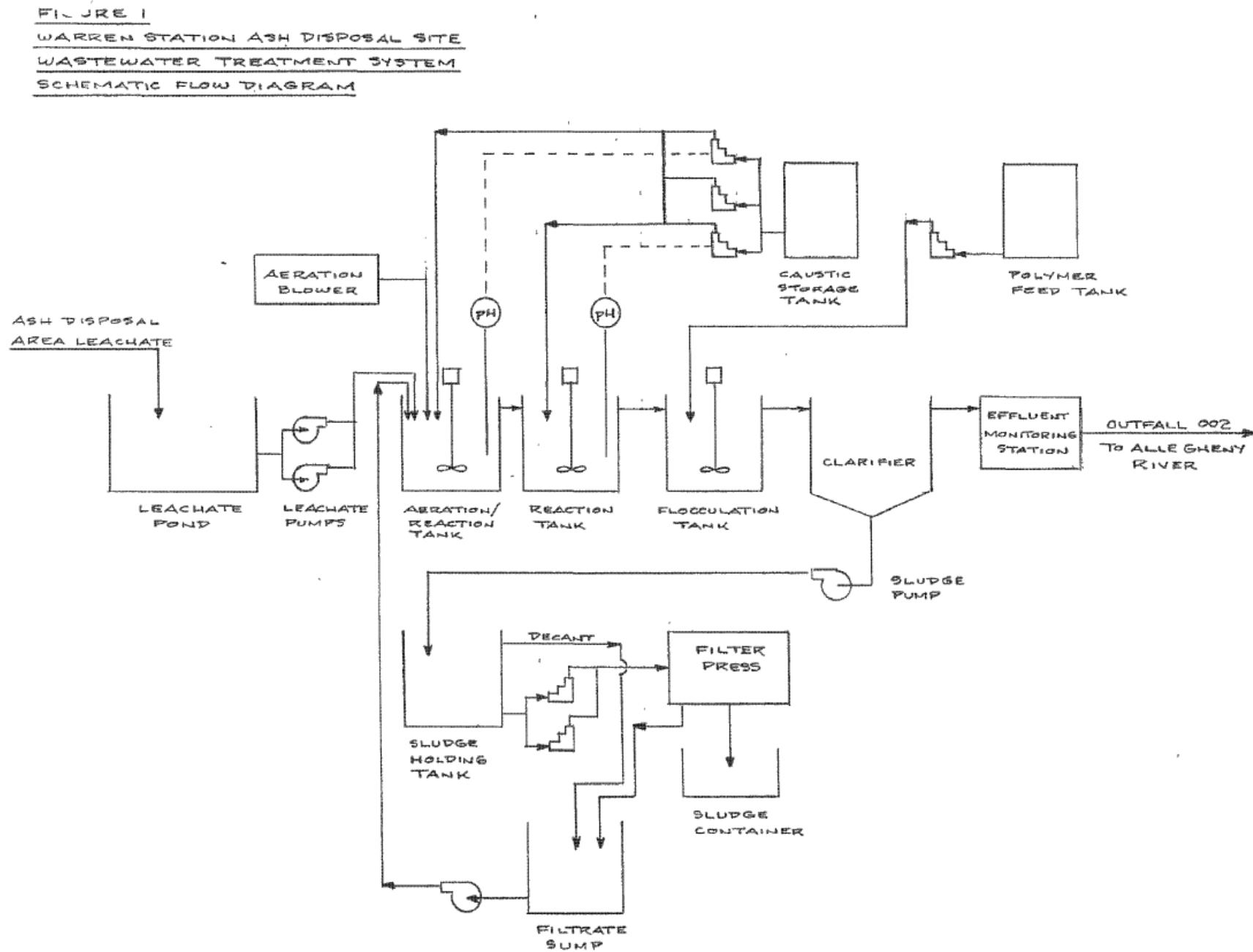
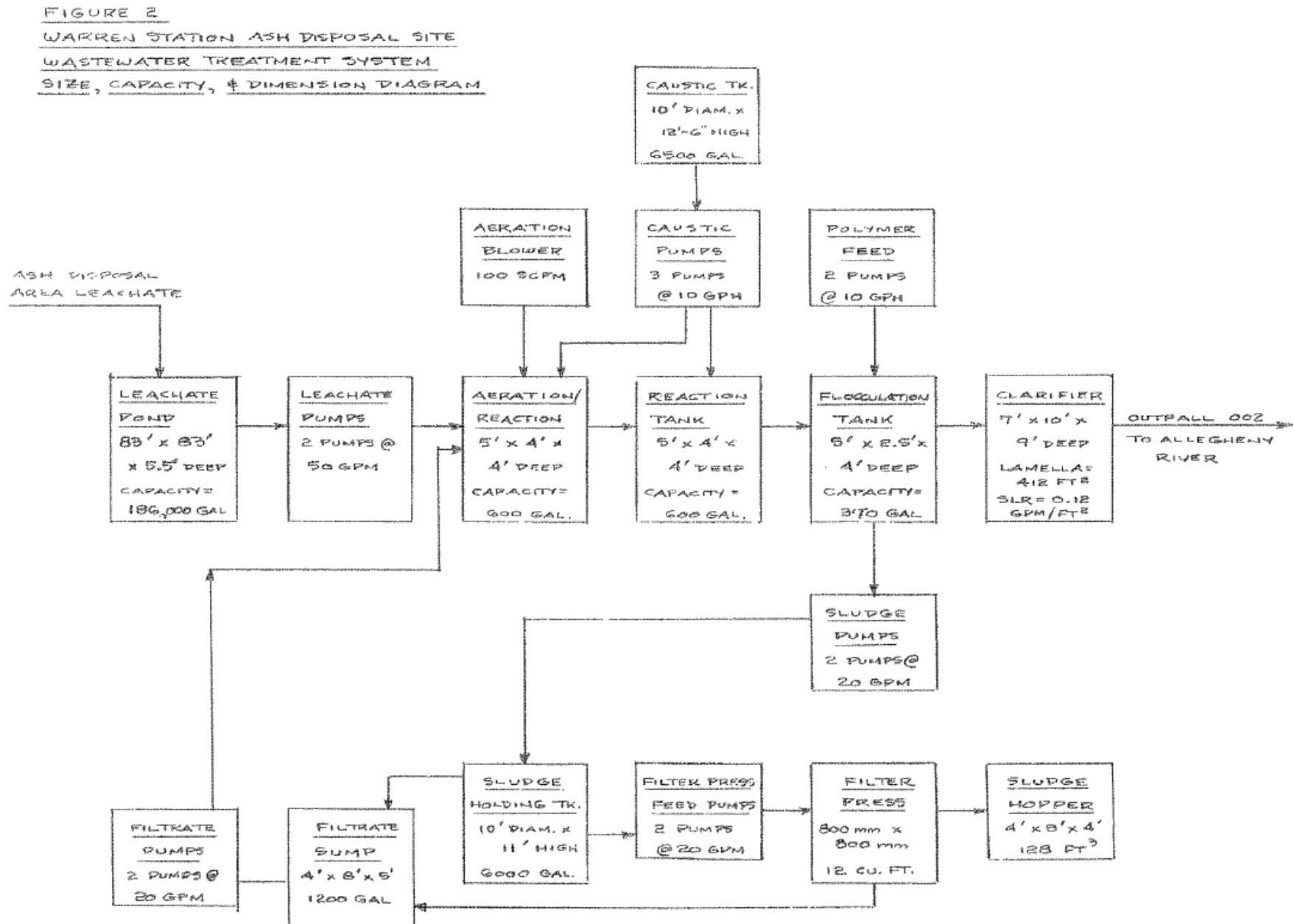


Figure 2: WWTP Size, Capacity, and Dimensional Flow Diagram (Source: 2002 Design Engineers Report for WQM Permit Number 6203201)



Compliance History

DMR Data for Outfall 002 (from February 1, 2017 to January 31, 2020)

Parameter	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19
Flow (MGD) - Average Monthly	0.019	0.0227	0.0267	0.0274	0.0276	0.0246	0.0176	0.015	0.014	0.014	0.016	0.0222
pH (S.U.) - Minimum	7.5	7.6	7.6	7.7	7.4	7.2	7.4	7.4	7.5	7.3	7.2	7.5
pH (S.U.) - Maximum	8.0	8.0	8.0	8.1	8.0	8.0	8.1	8.0	7.9	7.9	7.9	7.8
TSS (mg/L) - Average Monthly	< 3.25	< 3.5	4.5	< 3.75	< 2.8	< 2.75	< 3.5	< 3	3.75	< 3.75	4.75	< 2.5
TSS (mg/L) - Daily Maximum	5	7	7.0	6.0	5.0	4.0	5.0	5	6.0	7.0	5.0	4.0
Total Iron (mg/L) Average Monthly	0.2	0.195	0.243	0.29	0.43	0.52	0.315	0.27	0.173	0.12	0.22	0.25
Total Iron (mg/L) Daily Maximum	0.23	0.26	0.29	0.39	0.62	0.58	0.35	0.56	0.25	0.14	0.39	0.27

Parameter	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18
Flow (MGD) - Average Monthly	<b>0.0322</b>	0.029	<b>0.03</b>	0.02	0.02	<b>0.03</b>	0.02	0.02	0.01	0.01	0.01	0.02
pH (S.U.) - Minimum	7.2	7.5	7.3	7.0	7.2	7.4	7.1	7.2	7.2	7.0	7.0	7.2
pH (S.U.) - Maximum	8.0	7.9	8.0	7.9	7.8	7.9	7.9	7.9	7.9	7.9	8.0	7.8
TSS (mg/L) - Average Monthly	3.2	< 2.0	< 0.2	< 3.8	2.3	4.3	3.2	4.8	5.0	< 2.8	3.8	4.5
TSS (mg/L) - Daily Maximum	6.0	2.0	2.0	7.0	3.0	7.0	5.0	6.0	9.0	6.0	6.0	5.0
Total Iron (mg/L) Average Monthly	0.32	0.34	0.4	0.35	< 0.26	0.28	0.24	0.24	0.17	0.08	0.27	0.11
Total Iron (mg/L) Daily Maximum	0.45	0.35	0.48	0.54	0.26	0.35	0.35	0.27	0.36	0.12	0.72	0.13

Parameter	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17	NOV-17	OCT-17	SEP-17	AUG-17
Flow (MGD) - Average Monthly	0.02	0.02	0.02	<b>0.03</b>	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
pH (S.U.) - Minimum	7.1	7.2	7.3	7.1	7.1	6.6	6.7	7.3	7.3	7.4	7.2	7.4
pH (S.U.) - Maximum	8.2	7.8	7.9	7.9	7.8	8.5	7.8	7.9	7.9	7.8	7.9	7.9
TSS (mg/L) - Average Monthly	2.8	2.5	3.4	2.8	< 2.8	2.5	3.2	< 2.0	3.3	7.5	< 5.0	5.2
TSS (mg/L) - Daily Maximum	4.0	4.0	7.0	5.0	5.0	4.0	8.0	2.0	5.0	10.0	5.0	6.0
Total Iron (mg/L) Average Monthly	0.33	0.34	0.41	0.4	0.4	0.34	0.31	0.23	0.3	0.19	0.17	0.2
Total Iron (mg/L) Daily Maximum	0.65	0.39	0.60	0.5	0.6	0.54	0.27	0.26	0.4	0.24	0.26	0.2

The Average Monthly Flow for July 2019, May 2019, February 2019, and April 2018 was slightly over the design flow of 0.029 MGD. Otherwise, the monthly averages are at or below the design for the three-year period that was considered. Increased precipitation was likely the key contributor to the increased leachate volume during these four outlier months with no apparent trend. Therefore, the design flow used for NPDES permitting will remain 0.029 MGD.

**Development of Effluent Limitations**

<b>Outfall No.</b>	002	<b>Design Flow (MGD)</b>	.029
<b>Latitude</b>	41° 50' 4"	<b>Longitude</b>	-79° 11' 31"
<b>Wastewater Description:</b> Treated ash disposal site leachate and stormwater (IW Process Effluent without ELG)			

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

**Table 1. Applicable Technology Limits (Federal and State):**

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
Oil and Grease	15	Average Monthly	423.12(b)(11)*	95.2(2)(i)
	20	Daily Maximum	423.12(b)(11)*	
	30	IMAX		95.2(2)(i)
Total Suspended Solids	30	Average Monthly	423.12(b)(11)*	
	100	Daily Maximum	423.12(b)(11)*	
pH	6.0 – 9.0 S.U.	Min – Max	423.12(b)(1)*	95.2(1)
Dissolved Iron	7.0	Daily Maximum		95.2(4)

**\* Federal Effluent Limitation Guidelines (“ELGs”):** DEP previously determined that no ELGs apply to outfall 002’s wastewater. However, the 2015 Final Rule revising the Steam Electric Power Generating ELGs included effluent limits for sources that were previously regulated as part of “low volume waste sources” or that were otherwise unregulated. Pursuant to 40 CFR § 423.11(r), combustion residual leachate is a regulated wastewater under 40 CFR §§ 423.12(b)(11) and 423.13(l). Leachate from the old ash disposal site would be classified as “combustion residual leachate” pursuant to the specialized definition in § 423.11(r). Applicable ELG requirements are listed in the table below.

DEP previously imposed the following case-by-case effluent limits and monitoring requirements pursuant to 40 CFR § 125.3 and Best Professional Judgement (BPJ).

**Table 2. BPJ TBELs:**

Pollutant	Average of daily values for 30 consecutive days (mg/L)	Maximum for any 1 day (mg/L)
TSS	30.0	70.0
Iron	3.5	7.0
pH	within the range of 6.0 to 10.0	

Comments: The permit currently has a BAT daily maximum limit of 70 mg/l for TSS which was derived from the Acid or Ferruginous Mine Drainage ELG (40 CFR 434.32) which is still being achieved. The previous limit will remain as a BPJ limit in the permit since it is more stringent than the current ELG (see “Anti-Backsliding” discussion). Since the existing BPJ TBEL for total iron using the multiplier is the same as the tech-based dissolved Iron daily max, the dissolved limit is not needed and was omitted.

**Water Quality-Based Limitations**

A “Reasonable Potential Analysis” (Attachment 1) determined the following parameters were candidates for limitations: Total Dissolved Solids (TDS), Total Boron, Dissolved Iron, Total Manganese, Total Mercury, Total Nickel, Total Phenols (Phenolics), and Total Thallium.

The following limitations were determined through water quality modeling (Attachment 2): N/A

**Best Professional Judgment (BPJ) Limitations**

**Table 3. Summary of BPJ Limitations:**

Parameter	Limit (mg/l)	SBC	Model
Chloride	Monitor & Report	Average Quarterly	Collecting data to evaluate mussel protection
Nickel	Monitor & Report	Average Quarterly	Collecting data to evaluate mussel protection

Comments: Chloride and Nickel monitoring is proposed due the presence of threatened and endangered mussel species in the Allegheny River. See the “Threatened and Endangered Mussel Species Concerns and Considerations” discussion on Page 16 of this Fact Sheet.

**Anti-Backsliding**

EPA's anti-backsliding regulation at 40 CFR § 122.44(l)(1) requires that reissued permits contain effluent limitations, standards, or conditions that are at least as stringent as the effluent limitations, standards, or conditions in the previous permit even if less stringent Federal Effluent Limitations Guidelines applicable to the discharge were promulgated after the BPJ TBELs were imposed. Therefore, both the ELG TBELs and BPJ TBELs will apply with the more stringent of the overlapping limits (70 mg/L TSS maximum daily limit) imposed in the permit consistent with 40 CFR § 122.44(l)(2).<sup>1</sup>

**Other Comments**

The Oil and Grease sampling frequency has been established as 1/month rather than 1/week due to the non-detect results provided in the application sampling data oil and grease is not expected to be present in the effluent.

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<sup>1</sup> 40 CFR § 122.44(l)(2): "In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit."

**Threatened and Endangered Mussel Species Concerns and Considerations**

The Allegheny River is known to contain state and federally listed threatened and endangered mussel species. Due to this being a direct discharge to the Allegheny River, potential impacts were evaluated.

The USFWS has indicated in comment letters on other NPDES permits, that to protect threatened and endangered mussel species, wastewater discharges containing ammonia-nitrogen (NH<sub>3</sub>-N), chloride (Cl<sup>-</sup>) and nickel, where mussels or their habitat exist, can be no more than 1.9 mg/l, 78 mg/l and 7.3 µg/l, respectively. The USFWS reviewed the first draft of the subject permit and provided no comments. The Department contacted the USFWS in preparation of this second draft. The USFWS did not have any specific concerns related to the Warren Generating Station discharge. The USFWS did provide updated recommendations for chronic values of Nickel and Zinc (Nickel chronic exposure: 35 µg/L at hardness = 100; Zinc chronic exposure: 30 µg/L at hardness = 100).

The current application form associated with the subject NPDES permit renewal does require sampling for ammonia-nitrogen, chloride, and nickel. In previous NPDES permit renewal applications, the wastewater for Outfall 002 was considered "non-process" wastewater and Chloride sampling was not required as part of the renewal application. As discussed in the "Development of Effluent Limitations" section of this Fact Sheet, the Department has determined that there are applicable ELG requirements and sampling for all Pollutant Group 1 parameters including Chloride will be required in future renewal applications. Chloride sampling was not completed at the time of this September 29, 2016 permit renewal application submittal. However, during the first draft comment period, GenOn sampled for Chloride and Nickel. Therefore, in addition to the permit renewal application sampling for ammonia-nitrogen and nickel, the Department has 4 sample results for Chloride and 4 additional sample results for Nickel (6 total). This data is supportive of a determination that a properly constructed, operated and maintained industrial wastewater treatment facility of this size is expected to produce an effluent that would be protective of all the uses of the receiving stream including threatened and endangered mussels.

A summary of the data is as follows:

Parameter	Sampling Data for USFWS Parameters of Concern					
	Application Sampling		Fall 2019 Sampling			
	Min.	Max.				
Ammonia-Nitrogen (NH <sub>3</sub> -N) (mg/L)	0.42	0.44	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Chloride (mg/L)	Not Sampled	Not Sampled	10.7	17.7	9	13.2
Nickel (µg/L)	49.9	52.6	23	29	24	28
Zinc (µg/L)	7.0	8.4	Not Sampled	Not Sampled	Not Sampled	Not Sampled
	NOTES: 1. The samples are all composite samples.					

Based on this sampling data, the existing discharge from the generating station is not believed to be having any adverse impacts to threatened or endangered mussel species in the Allegheny River. The ammonia-nitrogen concentration is far below the USFWS criteria. Although the nickel concentration in the application effluent sampling exceeds the USFWS criteria (52.6 µg/L compared to 35 µg/L), nickel in the Allegheny River at the point of discharge is not expected to be measurable at levels that would exceed the USFWS criteria considering the instantaneous assimilative capacity of the Allegheny River is expected (0.029 MGD = 0.045 cfs wastestream compared to the 1017.88 cfs Q<sub>7-10</sub> stream flow => 1:22620 ratio of waste flow to stream flow). Additionally, the more recent nickel sampling demonstrates values that are less than the USFWS recommended chronic value. As of the latest correspondence with the USFWS for this permit application, the zinc toxicity and nickel toxicity for juvenile mussels is still not published. Therefore, this evaluation is generally speculative but is included for future evaluations and transparency.

Considering the limited data for Chloride and the exceedance of the USFWS recommended nickel criteria, the Department will establish quarterly effluent monitoring for Chloride and Nickel to develop a dataset to further evaluate potential impacts in the upcoming permit term. Chloride and Nickel monitoring would not typically be required for a permit of this nature. Considering that Zinc values are far below the recommended chronic values and considering that these recommended chronic values are speculative, the Department will not impose Zinc monitoring during this permit term. Current NPDES renewal application documents will require the applicant to collect a minimum of 3 Zinc samples and provide the results in the next permit renewal allowing the Department to reevaluate Zinc for concerns related to threatened and endangered mussel species.

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

**Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	Continuous	Recorded
TSS	XXX	XXX	XXX	30	70	75	1/week	24-Hr Composite
Total Iron	XXX	XXX	XXX	3.5	7.0	8.8	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	15	20	30	1/month	Grab
Chloride	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Total Nickel (µg/l)	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

Compliance Sampling Location: at Outfall 002

Other Comments: Changes include Oil and Grease limits and monitoring requirements, Chloride monitoring requirements, and nickel monitoring requirements.

Figure 3: eMAP – Stream Designation

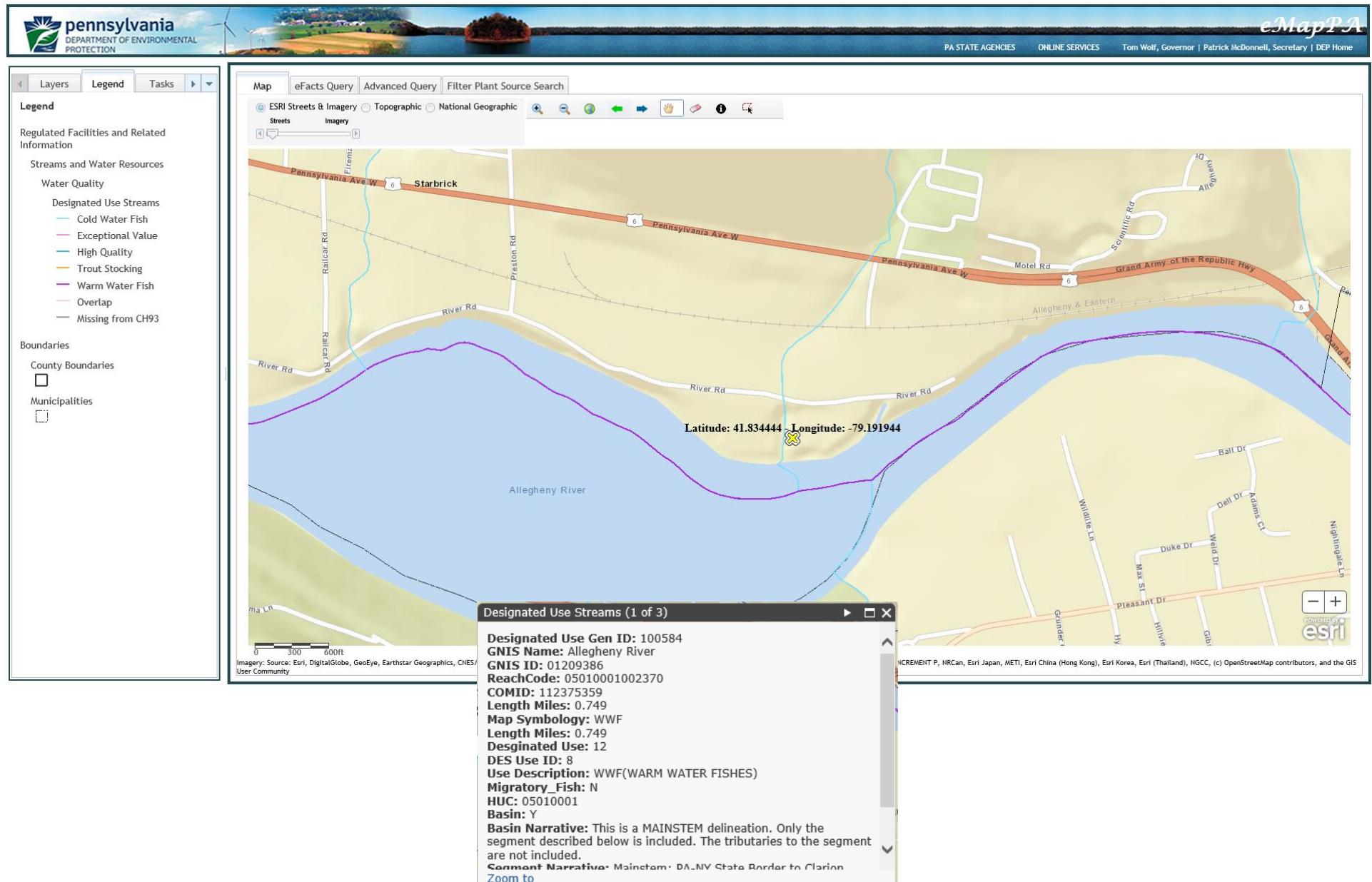


Figure 4: Google Earth Aerial Imagery



Figure 5: GenOn “Subdivision Map”

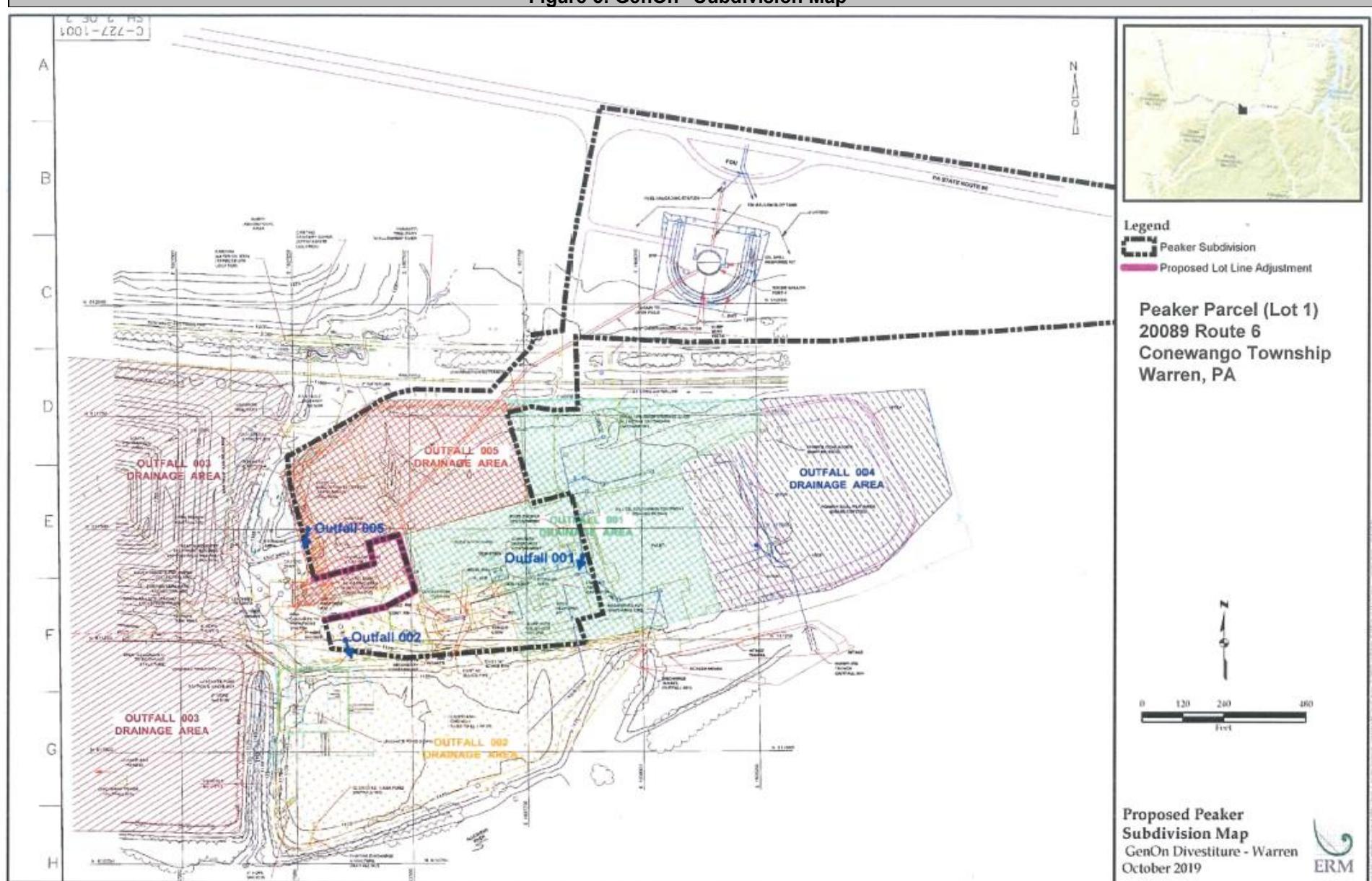
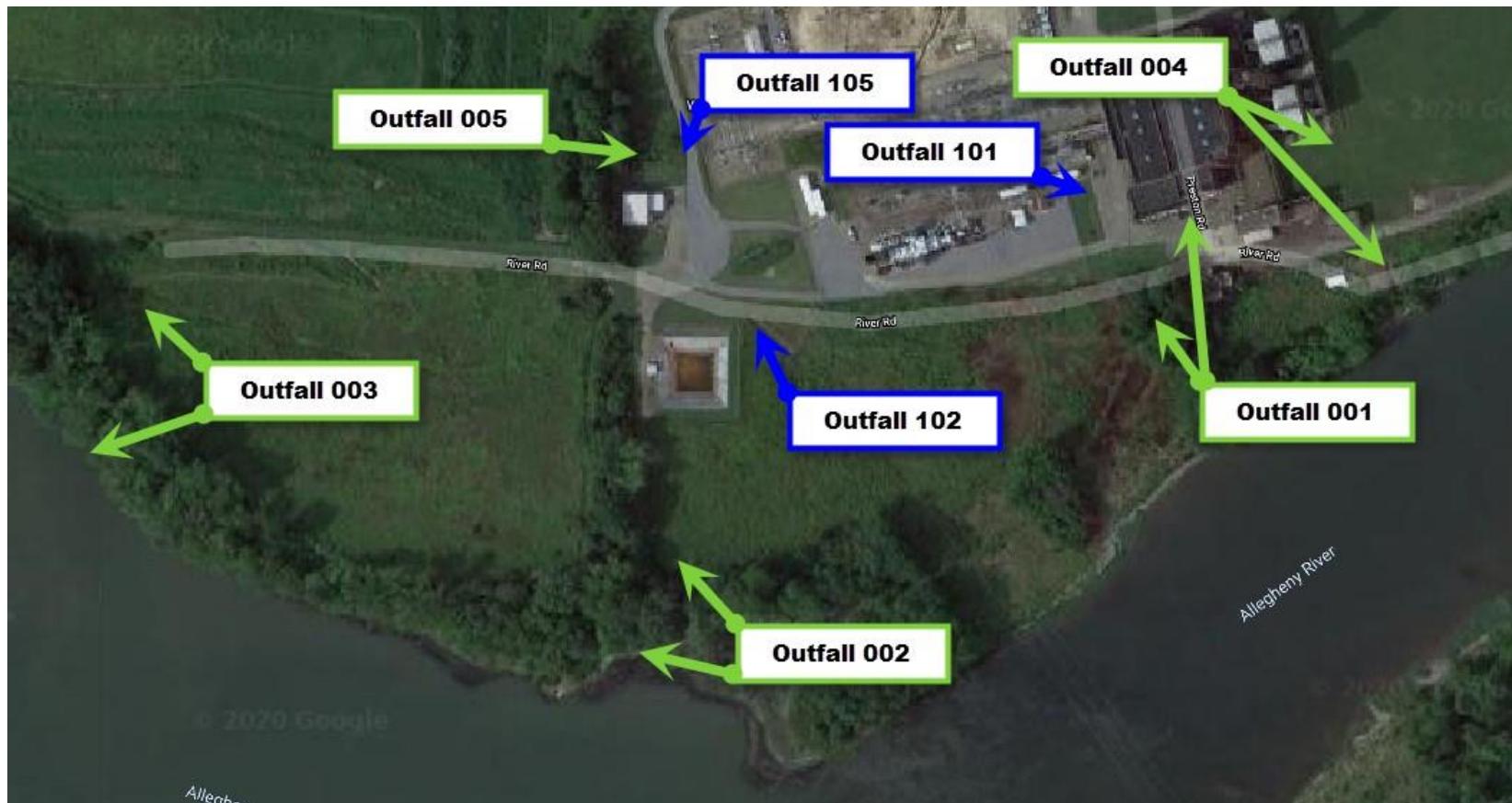


Figure 6: Stormwater Monitoring Points



For the retired Warren Generating Station (Lots 2 & 3) as permitted under this NPDES permit (PA0005053), Outfalls and sampling points are in **GREEN**:

- Outfall 001: Discharge Tunnel at the river
- Outfall 002: At the river (A representative sample [if necessary] could also be collected as storm water enters the base of the Closed No. 1 Ash Pond riser structure)
- Outfall 003: At the river (A representative sample [if necessary] could also be collected as storm water enters the base of the Closed No. 2 Ash Pond riser structure)
- Outfall 004: At the river (A representative sample [if necessary] could also be collected at the last catch basin prior to discharge)
- Outfall 005: In the open trench prior to the stream.

For the Warren Combustion Turbine site (Lot 1) proposed under separate application to be covered a "no exposure" certification (NOEXNW207), outfall and sampling points are in **BLUE**. For clarification and to avoid confusion, these monitoring points will be named as if they are "internal monitoring points" (IMPs).

- IMP 101 (at the catch basin)
- 102 (surface flow prior to the former ash basin)
- 105 (at the culvert)

# ATTACHMENTS

ATTACHMENT A: Toxics Screening Analysis Spreadsheets

ATTACHMENT B: PENTOXSD Modeling Results

ATTACHMENT C: USGS StreamStats Reports

## ATTACHMENT A

### Toxics Screening Analysis Spreadsheets

TOXICS SCREENING ANALYSIS WATER QUALITY POLLUTANTS OF CONCERN VERSION 2.6						
Facility: Warren Generating Station		NPDES Permit No.: PA0005053		Outfall: 002		
Analysis Hardness (mg/L): 31		Discharge Flow (MGD): 0.029		Analysis pH (SU): 7.4		
Parameter	Maximum Concentration in Application or DMRs (µg/L)	Most Stringent Criterion (µg/L)	Candidate for PENTOXSD Modeling?	Most Stringent WQBEL (µg/L)	Screening Recommendation	
Total Dissolved Solids	2550000	500000	Yes	1.53E+10	No Limits/Monitoring	
Chloride		250000				
Bromide		N/A				
Sulfate		250000				
Fluoride		2000				
Total Aluminum	61.6	750	No			
Total Antimony	<	0.5	5.6	No (Value < QL)		
Total Arsenic	<	0.5	10	No (Value < QL)		
Total Barium		10.4	2400	No		
Total Beryllium		0.7	N/A	No		
Total Boron	2640	1600	Yes	2610000	No Limits/Monitoring	
Total Cadmium	<	0.1	0.271	No (Value < QL)		
Total Chromium	<	2	N/A	No		
Hexavalent Chromium	<	10	10.4	No		
Total Cobalt		18.2	19	No		
Total Copper	<	0.5	9.3	No (Value < QL)		
Total Cyanide	<	10	N/A	No		
Total Iron		7000	1500	Yes	34030000	No Limits/Monitoring
Dissolved Iron		7000	300	Yes	1040000	No Limits/Monitoring
Total Lead	<	0.2	3.2	No (Value < QL)		
Total Manganese		4880	1000	Yes	3480000	No Limits/Monitoring
Total Mercury		0.1	0.05	Yes	174.218	No Limits/Monitoring
Total Molybdenum		180	N/A	No		
Total Nickel		52.6	52.2	Yes	56457.03	No Limits/Monitoring
Total Phenols (Phenolics)		10	5	Yes	153360.8	No Limits/Monitoring
Total Selenium		0.8	5.0	No		
Total Silver	<	0.1	3.8	No (Value < QL)		
Total Thallium		0.3	0.24	Yes	836.248	No Limits/Monitoring
Total Zinc		8.4	119.8	No		
Acrolein	<	3				
Acrylamide	<	0.07				
Acrylonitrile	<	0.051				
Benzene	<	1.2				
Bromoform	<	4.3				
Carbon Tetrachloride	<	0.23				
Chlorobenzene	<	130				
Chlorodibromomethane	<	0.4				
Chloroethane	<	N/A				
2-Chloroethyl Vinyl Ether	<	3500				
Chloroform	<	5.7				
Dichlorobromomethane	<	0.55				
1,1-Dichloroethane	<	N/A				
1,2-Dichloroethane	<	0.38				
1,1-Dichloroethylene	<	33				
1,2-Dichloropropane	<	2200				
1,3-Dichloropropylene	<	0.34				
Ethylbenzene	<	530				
Methyl Bromide	<	47				
Methyl Chloride	<	5500				
Methylene Chloride	<	4.6				
1,1,2,2-Tetrachloroethane	<	0.17				
Tetrachloroethylene	<	0.69				
Toluene	<	330				
1,2-trans-Dichloroethylene	<	140				
1,1,1-Trichloroethane	<	610				
1,1,2-Trichloroethane	<	0.59				
Trichloroethylene	<	2.5				
Vinyl Chloride	<	0.025				
2-Chlorophenol	<	81				
2,4-Dichlorophenol	<	77				
2,4-Dimethylphenol	<	130				
4,6-Dinitro-o-Cresol	<	13				
2,4-Dintrophenol	<	69				
2-Nitrophenol	<	1600				
4-Nitrophenol	<	470				
p-Chloro-m-Cresol	<	30				
Pentachlorophenol	<	0.27				
Phenol	<	10400				
2,4,6-Trichlorophenol	<	1.4				

# ATTACHMENT B

## PENTOXSD Modeling Results

**PENTOXSD Analysis Results**

**Recommended Effluent Limitations**

SWP Basin	Stream Code:	Stream Name:		
18A	42122	ALLEGHENY RIVER		
RMI	Name	Permit Number	Disc Flow (mgd)	
186.21	Warren Gen Sta	PA0005053	0.0290	
Parameter	Effluent Limit ( $\mu\text{g/L}$ )	Governing Criterion	Max. Daily Limit ( $\mu\text{g/L}$ )	Most Stringent WQBEL ( $\mu\text{g/L}$ ) WQBEL Criterion
BORON	2640	INPUT	4118.824	2610000 AFC
DISSOLVED IRON	7000	INPUT	10921.13	1040000 THH
MANGANESE	4880	INPUT	7613.584	3480000 THH
MERCURY	0.1	INPUT	0.156	174.218 THH
NICKEL	52.6	INPUT	82.064	56457.03 AFC
PHENOLICS (PWS)	10	INPUT	15.602	153360.8 THH
THALLIUM	0.3	INPUT	0.468	836.248 THH
TOTAL DISSOLVED SOLIDS (PWS)	2550000	INPUT	3970000	533607E+10 THH
TOTAL IRON	7000	INPUT	10921.13	3.403E+07 CFC

PENTOXSD

Modeling Input Data

Stream Code	RML	Elevation (ft)	Drainage Area (sq mi)	Slope	PWS With (mgd)	Apply FC							
42122	186.21	1163.00	3140.00	0.00000	0.00	<input checked="" type="checkbox"/>							
<b>Stream Data</b>													
LFY	Trib Flow	Stream Flow	WD Ratio	Rch Width	Rch Depth	Rch Velocity	Rch Trav Time (days)	Tributary Hard	Stream Hard	Analysis Hard	pH	pH	pH
(cfsm)	(cfs)	(cfs)		(ft)	(ft)	(fps)	(days)	(mg/L)	(mg/L)		(mg/L)		
Q7-10	0.1	1017.88	0	0	0	0	0	31	7.4	0	0	0	0
Qh		0	0	0	0	0	0	100	7	0	0	0	0
<b>Discharge Data</b>													
Name	Permit Number	Existing Disc Flow	Permitted Disc Flow	Design Disc Flow	Reserve Factor	AFC PMF	CFC PMF	THH PMF	CRL PMF	Disc Hard	Disc pH		
		(mgd)	(mgd)	(mgd)						(mg/L)			
Warren Gen Sta	PA0005053	0.029	0.029	0.029	0	0	0	0	0	100	7		
<b>Parameter Data</b>													
Parameter Name	Disc Conc	Trib Conc	Disc Daily CV	Disc Hourly CV	Steam Conc	Stream CV	Fate Coef	FOS	Crit Mod	Max Disc Conc	( $\mu$ g/L)		
	( $\mu$ g/L)	( $\mu$ g/L)			( $\mu$ g/L)								
BORON	2640	0	0.5	0.5	0	0	0	0	1	0			
DISSOLVED IRON	7000	0	0.5	0.5	0	0	0	0	1	0			
MANGANESE	4880	0	0.5	0.5	0	0	0	0	1	0			
MERCURY	0.1	0	0.5	0.5	0	0	0	0	1	0			
NICKEL	52.6	0	0.5	0.5	0	0	0	0	1	0			
PHENOLICS (PWS)	10	0	0.5	0.5	0	0	0	0	1	0			
THALLIUM	0.3	0	0.5	0.5	0	0	0	0	1	0			
TOTAL DISSOLVED SOLIDS (PWS)	2550000	0	0.5	0.5	0	0	0	0	1	0			
TOTAL IRON	7000	0	0.5	0.5	0	0	0	0	1	0			

NPDES Permit Fact Sheet  
Keystone Generating Station

NPDES Permit No. PA0002062

Stream Code	RML	Elevation (ft)	Drainage Area (sq mi)	Slope	PWS With (mgd)	Apply FC				
42122	184.76	1161.00	3141.00	0.00000	0.00	<input checked="" type="checkbox"/>				
<b>Stream Data</b>										
LFY	Trib Flow	Stream Flow	WD Ratio	Rch Width	Rch Depth	Rch Velocity	Rch Trav Time			
(cfs/m)	(cfs)	(cfs)		(ft)	(ft)	(fps)	(days)			
Q7-10	0.1	0	1017.96	0	0	0	0			
Qh		0		0	0	0	100			
							7			
							0			
							0			
							0			
							0			
<b>Discharge Data</b>										
Name	Permit Number	Existing Disc Flow	Permitted Disc Flow	Design Disc Flow	Reserve Factor	AFC PMF	CFC PMF			
		(mgd)	(mgd)	(mgd)						
		0	0	0	0	0	0			
							(mg/L)			
							100			
							7			
<b>Parameter Data</b>										
Parameter Name	Disc Conc	Trib Conc	Disc Daily CV	Disc Hourly CV	Steam Conc	Stream CV	Fate Coef	FOS	Crit Mod	Max Disc Conc (µg/L)
	(µg/L)	(µg/L)			(µg/L)					
BORON	0	0	0.5	0.5	0	0	0	0	1	0
DISSOLVED IRON	0	0	0.5	0.5	0	0	0	0	1	0
MANGANESE	0	0	0.5	0.5	0	0	0	0	1	0
MERCURY	0	0	0.5	0.5	0	0	0	0	1	0
NICKEL	0	0	0.5	0.5	0	0	0	0	1	0
PHENOLICS (PWS)	0	0	0.5	0.5	0	0	0	0	1	0
THALLIUM	0	0	0.5	0.5	0	0	0	0	1	0
TOTAL DISSOLVED SOLIDS (PWS)	0	0	0.5	0.5	0	0	0	0	1	0
TOTAL IRON	0	0	0.5	0.5	0	0	0	0	1	0

NPDES Permit Fact Sheet  
Keystone Generating Station

NPDES Permit No. PA0002062

Stream Code	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope	PWS With (mgd)	Apply FC					
42122	90.67	864.00	3600.00	0.00000	0.50	<input checked="" type="checkbox"/>					
<b>Stream Data</b>											
LFY	Trib Flow (cfs)	Stream Flow (cfs)	WD Ratio (ft)	Rch Width (ft)	Rch Depth (ft)	Rch Velocity (fps)	Rch Trav Time (days)	Tributary Hard pH (mg/L)	Stream Hard pH (mg/L)	Analysis Hard pH (mg/L)	
Q7-10	0.1	0	1376	0	0	0	0	100	7	0	0
Qh		0	0	0	0	0	0	100	7	0	0
<b>Discharge Data</b>											
Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	AFC PMF	CFC PMF	THH PMF	CRL PMF	Disc Hard	Disc pH
		0	0	0	0	0	0	0	0	100	7
<b>Parameter Data</b>											
Parameter Name	Disc Conc ( $\mu$ g/L)	Trib Conc ( $\mu$ g/L)	Disc Daily CV	Disc Hourly CV	Steam Conc ( $\mu$ g/L)	Stream CV	Fate Coef	FOS	Crit Mod	Max Disc Conc ( $\mu$ g/L)	
BORON	0	0	0.5	0.5	0	0	0	0	1	0	
DISSOLVED IRON	0	0	0.5	0.5	0	0	0	0	1	0	
MANGANESE	0	0	0.5	0.5	0	0	0	0	1	0	
MERCURY	0	0	0.5	0.5	0	0	0	0	1	0	
NICKEL	0	0	0.5	0.5	0	0	0	0	1	0	
PHENOLICS (PWS)	0	0	0.5	0.5	0	0	0	0	1	0	
THALLIUM	0	0	0.5	0.5	0	0	0	0	1	0	
TOTAL DISSOLVED SOLIDS (PWS)	0	0	0.5	0.5	0	0	0	0	1	0	
TOTAL IRON	0	0	0.5	0.5	0	0	0	0	1	0	

**PENTOXSD Analysis Results**

**Hydrodynamics**

<u>SWP Basin</u>		<u>Stream Code:</u>			<u>Stream Name:</u>						
18A		42122			ALLEGHENY RIVER						
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth (ft)	Width (ft)	WD Ratio	Velocity (fps)	Reach Time (days)	CMT (min)
<b>Q7-10 Hydrodynamics</b>											
186.210	1017.9	0	1017.9	0.04486	0.0003	1.0836	637.43	588.26	1.4738	0.0601	1000+
184.760	1018	0	1018	NA	0.0006	1.0725	615.40	573.82	1.5424	3.728	NA
90.670	1376	0.7735	1375.2	NA	0	0	0	0	0	0	NA

**Qh Hydrodynamics**

186.210	3160.2	0	3160.2	0.04486	0.0003	1.7838	637.43	357.35	2.7794	0.0319	1000+
184.760	3160.4	0	3160.4	NA	0.0006	1.7655	615.40	348.57	2.9088	1.9767	NA
90.670	4112.8	0.7735	4112.1	NA	0	0	0	0	0	0	NA

PENTOXSD Analysis Results

Wasteload Allocations

RMI	Name	Permit Number	AFC							
186.21	Warren Gen Sta	PA0005053								
Parameter										
Q7-10:	CCT (min)	15	PMF	0.022	Analysis pH	7.398	Analysis Hardness	31.136		
			Stream Conc. (µg/L)	Stream CV	Trib Conc. (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	
PHENOLICS (PWS)		0	0	0	0	NA	NA	NA		
TOTAL IRON		0	0	0	0	NA	NA	NA		
DISSOLVED IRON		0	0	0	0	NA	NA	NA		
MANGANESE		0	0	0	0	NA	NA	NA		
MERCURY		0	0	0	0	1.4	1.647	829.766		
NICKEL		0	0	0	0	174.492	174.842	88082.04		
THALLIUM		0	0	0	0	65	65	32745.74		
BORON		0	0	0	0	8100	8100	4080000		
TOTAL DISSOLVED SOLIDS (PWS)		0	0	0	0	NA	NA	NA		
CFC										
Q7-10:	CCT (min)	720	PMF	0.153	Analysis pH	7.399	Analysis Hardness	31.019		
			Stream Conc. (µg/L)	Stream CV	Trib Conc. (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	
PHENOLICS (PWS)		0	0	0	0	NA	NA	NA		
TOTAL IRON		0	0	0	0	1500	1500	3.403E+07		
DISSOLVED IRON		0	0	0	0	NA	NA	NA		
MANGANESE		0	0	0	0	NA	NA	NA		
MERCURY		0	0	0	0	0.77	0.906	3156.426		
NICKEL		0	0	0	0	19.319	19.377	67517.02		
THALLIUM		0	0	0	0	13	13	45296.77		
BORON		0	0	0	0	1600	1600	5570000		

**PENTOXSD Analysis Results**

**Wasteload Allocations**

RMI	Name	Permit Number							
186.21	Warren Gen Sta	PA0005063							
TOTAL DISSOLVED SOLIDS (PWS)	0	0	0	0	NA	NA	NA		
<b>THH</b>									
Q7-10:	CCT (min)	720	PMF	1	Analysis pH	NA	Analysis Hardness	NA	
	Parameter	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	
PHENOLICS (PWS)	0	0	0	0	5	5	153360.8		
	WQC applied at RMI 90.67 with a design stream flow of 1376.								
TOTAL IRON	0	0	0	0	NA	NA	NA		
DISSOLVED IRON	0	0	0	0	300	300	1040000		
MANGANESE	0	0	0	0	1000	1000	3480000		
MERCURY	0	0	0	0	0.05	0.05	174.218		
NICKEL	0	0	0	0	610	610	2120000		
THALLIUM	0	0	0	0	0.24	0.24	836.248		
BORON	0	0	0	0	3100	3100	1.08E+07		
TOTAL DISSOLVED SOLIDS (PWS)	0	0	0	0	500000	500000	1.533607E+10		
	WQC applied at RMI 90.67 with a design stream flow of 1376.								

**CRL**

Qh:	CCT (min)	720	PMF	0.223				
	Parameter	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
PHENOLICS (PWS)	0	0	0	0	NA	NA	NA	
TOTAL IRON	0	0	0	0	NA	NA	NA	
DISSOLVED IRON	0	0	0	0	NA	NA	NA	
MANGANESE	0	0	0	0	NA	NA	NA	
MERCURY	0	0	0	0	NA	NA	NA	
NICKEL	0	0	0	0	NA	NA	NA	

**PENTOXSD Analysis Results**

**Wasteload Allocations**

RMI	Name	Permit Number						
186.21	Warren Gen Sta	PA0005053						
	THALLIUM	0	0	0	0	NA	NA	NA
	BORON	0	0	0	0	NA	NA	NA
	TOTAL DISSOLVED SOLIDS (PWS)	0	0	0	0	NA	NA	NA

## ATTACHMENT C

### USGS StreamStats Reports

StreamStats

Warren Generating Station - Outfall 002 (RM1 186.21)

Region ID:

Workspace ID:

Clicked Point (Latitude, Longitude):

Time:

PA

PA20190730180911085000

41.83333, -79.19132

2019-07-30 14:09:36 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	3140	square miles
ELEV	Mean Basin Elevation	1784.2	feet
PRECIP	Mean Annual Precipitation	43	inches

Low-Flow Statistics Parameters [99 Percent (3110 square miles) Low Flow Region]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	3140	square miles	2.33	1720
ELEV	Mean Basin Elevation	1784.2	feet	898	2700
PRECIP	Mean Annual Precipitation	43	inches	38.7	47.9

Low-Flow Statistics Disclaimers [99 Percent (3110 square miles) Low Flow Region]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors/Weighted flows were not calculated. Users should be careful to evaluate the applicability of the provided estimates. Percentage of area falls outside where region is undefined. Whole estimates have been provided using available regional equations.

Low-Flow Statistics Flow Report [99 Percent (3110 square miles) Low Flow Region]

Statistic	Value	Unit
7 Day 2 Year Low Flow	413	ft^3/s
30 Day 2 Year Low Flow	527	ft^3/s
7 Day 10 Year Low Flow	250	ft^3/s
30 Day 10 Year Low Flow	303	ft^3/s
90 Day 10 Year Low Flow	416	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

1017.88 cfs

## Allegheny River just below Morse Run (RMI 184.76)

Region ID:

PA

Workspace ID:

PA20190730184108134000

Clicked Point (Latitude, Longitude):

41.83811, -79.21667

Time:

2019-07-30 14:41:35 -0400



## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	3140	square miles
ELEV	Mean Basin Elevation	1783.7	feet
PRECIP	Mean Annual Precipitation	43	inches

## Low-Flow Statistics Parameters (square miles) Low Flow Region 3

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	3140	square miles	2.33	1720
ELEV	Mean Basin Elevation	1783.7	feet	898	2700
PRECIP	Mean Annual Precipitation	43	inches	38.7	47.9

## Low-Flow Statistics Disclaimer (square miles) Low Flow Region 3

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors. Weighted flows were not calculated. Users should be careful to evaluate the applicability of the provided estimates. Percentage of area falls outside where region is undefined. Whole estimates have been provided using available regional equations.

## Low-Flow Statistics Flow Reports (square miles) Low Flow Region 3

Statistic	Value	Unit
7 Day 2 Year Low Flow	413	ft^3/s
30 Day 2 Year Low Flow	527	ft^3/s
7 Day 10 Year Low Flow	250	ft^3/s
30 Day 10 Year Low Flow	303	ft^3/s
90 Day 10 Year Low Flow	416	ft^3/s

## Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

1017.96 cfs

## Nearest PWS - Aqua Pa, Emlenton (RMI 90.67)

Region ID:  
Workspace ID:  
Clicked Point (Latitude, Longitude):  
Time:

PA  
PA20190801130051240000  
41.17625, -79.71358  
2019-08-01 09:01:15 -0400



## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	6390	square miles

**USGS Data Disclaimer:** Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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Application Version: 4.3.8

## ATTACHMENT D

### Radiological Survey Summary



**Memo**

**TO** Justin C. Dickey, P.E.  
Environmental Engineer Manager  
Clean Water Program  
Northwest Regional Office

**FROM** Bryan Werner  
Manager  
Decommissioning and Environmental Surveillance  
Bureau of Radiation Protection (BRP)

A handwritten signature in blue ink that reads "Bryan R Werner".

**DATE** August 5, 2020

**RE** Radiological Assessment of Warren Generating Station

**MESSAGE:**

At the request of your office, BRP radiological health physics staff have completed a radiological assessment of the Warren Generating Station. This assessment was performed because of questions raised by members of the public regarding possible concentrating of naturally occurring radioactive material (NORM) by the facility's onsite wastewater treatment process.

BRP staff was onsite on December 4, 2019 to meet with your staff and the site operators. Following some discussion of the site status and process used to treat water, a radiological assessment was performed at areas most likely to show signs of concentrated NORM. Initially a site walkover was performed using sensitive radiological detection equipment to look for any indications of radiation above naturally occurring background levels. This walkover included the wastewater treatment building, settling pond, and the river bank. All measurements were within expected ranges for natural radiological background levels. Samples were also collected and submitted for radiological laboratory analysis. Water samples were collected at two locations. One collected prior to entering the facility and the second after the treatment process was completed prior to discharge to the river. Additionally, a solid sample was taken of the filter cake that is generated during the removal of solids from the water in the treatment process. The results of these samples were at normal background levels with no indications of any elevated levels of NORM. Additionally, the water samples were less than the Federal drinking water limits for total radium.

## ATTACHMENT E

### Frequently Asked Question (FAQ) Document

## Warren Generating Station FAQ

What is an NPDES Permit and why does the Warren Generating Station need one?

A National Pollutant Discharge Elimination System (NPDES) permit is required for any point source discharge to waters of the Commonwealth. The Clean Water Program in DEP's regional offices issues NPDES permits for sewage, industrial waste (IW), IW stormwater, municipal separate storm sewer system (MS4), Concentrated Animal Feeding Operation (CAFO), biosolids and pesticides activities or facilities that are regulated under the NPDES program. The Warren Generating Station must obtain an NPDES permit to discharge treated leachate from the closed landfills located at the facility.

What is leachate and if the station is closed, why is it still being generated?

“Leachate” is water that has filtered through the landfill coming into contact with the coal ash waste. Leachate is still generated because some of the rain and snow that falls on top of the landfill percolates through the landfill’s earth cap and disposed coal ash layer.

Does this leachate make its way into the Allegheny River?

Yes, but only after it has been collected and treated.



*Submerged Outfall pipe location along the Allegheny River (Photograph taken on 12/4/2019)*

How is this water treated before entering the Allegheny River?

The leachate (dirty water that has filtered through the landfill) is collected and “cleaned” through a treatment procedure that uses chemical precipitation, aeration, and settling to remove contaminants resulting in water. The process cleans the water so that it will not cause pollution when it is discharged to the Allegheny River. The removed contaminants are collected in a solid form and disposed of at a landfill authorized to accept this waste. The design, construction and operation of the treatment system is also approved by a permit issued by DEP.



*Leachate Treatment Facility Building and Treatment Equipment (Photographs taken on 12/4/2019)*

Is this the first time the Warren Generating Station is applying for an NPDES permit?  
No, the discharge of treated leachate has been permitted under an NPDES permit since 3/25/1976. The discharge from the leachate treatment system at the facility is in compliance with its current NPDES permit and has been permitted for multiple permit cycles since 3/25/1976 (an NPDES permit is typically issued for a five-year term).

How is this permit different than previous ones granted?

The draft NPDES permit includes more stringent monitoring requirements such as including the addition of Oil and Grease effluent limits as well as monitoring for Total Nickel and Chloride. Monitoring for these parameters was not required in previous NPDES permits for this discharge.

Why has the DEP proposing to impose new limits on nickel and chloride in this new permit? The US Fish and Wildlife Service (USFWS) has determined that chloride and nickel can be toxic to the threatened and endangered mussel species that are found in the Allegheny River. DEP evaluated chloride and nickel sampling results from this discharge and determined that the amount of these pollutants in the discharge are less than the USFWS determined values that could cause adverse impacts on threatened and endangered mussel species. The USFWS agreed with DEP's evaluation and proposed monitoring for these pollutants be included in the draft permit.

Does this permit extend the boundaries of the Warren Generating Station site?

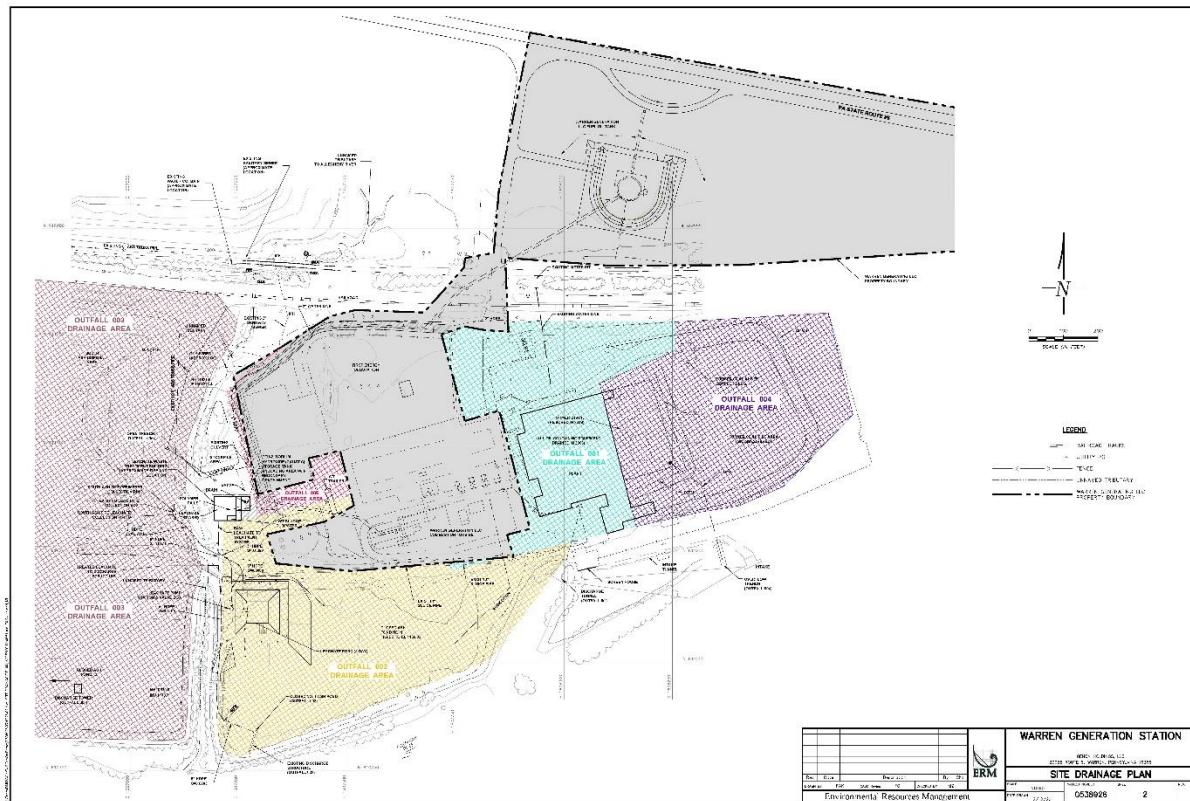
No. In fact, the boundary of this permit is proposed to be smaller than in the previous permit by removing the parcel that continues to generate electricity using the natural gas fired combustion turbine. The parcel covered by this NPDES permit with the retired steam electric plant and ash disposal landfills will be marketed for redevelopment including, but not limited to, solar and energy storage opportunities and for beneficial use of the ash.

Are there any wastewater discharges from the natural gas fired combustion turbine?

No. Only stormwater runoff from this parcel is discharged.



*Combustion Turbine (CT) facility owned by Warren Generation LLC. (Photograph taken on 12/4/2019) The CT is a 57-megawatt natural gas- and distillate fuel oil-fired electric generating station, which consists of one operational simple-cycle CT and ancillary equipment and systems. Fuel for the CT is delivered by pipeline (natural gas) and tanker truck (oil).*



*The area highlighted with solid gray is part of the proposed CT Station Industrial Stormwater “No Exposure” area and is not part of the proposed permit.*

Why is the DEP issuing a “re-draft” of the permit?

DEP is redrafting this NPDES permit due to public interest and so that the public has an opportunity to review and comment on the draft permit.

Is the Warren Generating Station still in operation?

The majority of the site is a decommissioned coal fired power plant that has been closed for over a decade. This includes two legacy coal ash landfills that were capped and closed by October 2003. Coal ash is no longer generated at this facility and there are no plans to bring coal ash in from other facilities or sources. The current use of the Site includes the Warren Combustion Turbine (CT) facility owned by Warren Generation LLC. The CT is a 57-megawatt natural gas- and distillate fuel oil-fired electric generating station, which consists of one operational simple-cycle CT and ancillary equipment and systems. Fuel for the CT is delivered by pipeline (natural gas) and tanker truck (oil).





*Warren Generating Station – View from Route 6 (Image from Google Earth Street View)*

What is a coal ash landfill?

Coal combustion residuals, commonly known as coal ash, are created when coal is burned by power plants to produce electricity. A coal ash landfill is a landfill where coal ash is disposed.



*Warren Generating Station – Closed South Disposal Area Landfill (Photograph taken on 12/4/2019)*

What does “capped” mean in reference to this site?

The landfill is “capped” by a 2-foot soil layer. The 2-foot layer is required by State Regulations to provide an adequate thickness of soil cover to contain the coal ash disposed of in the landfill.

Does this landfill have a liner?

The liner at this landfill is considered a soil liner which is typical of most power plant liners at the time and is made up of soil and ash to create a barrier between the disposed coal ash and the underlying soil and groundwater.

I read that hexavalent chromium leaches from coal ash in the water supply. Is this possible at the Warren Generating Station?

The application sampling results show that Hexavalent Chromium is not present at a detectable level in the landfill leachate at the Warren Generating Station.

Is this water safe for animals and organisms living in the Allegheny River?

The NPDES permit establishes effluent limitations to protect all uses of the Allegheny River including aquatic life and human health and to ensure that the wastewater treatment facility is operating as designed and permitted. Effluent limitations are restrictions established by DEP on quantities, rates, and concentrations of chemical, physical, biological, and other constituents that can be discharged by the Warren Generating Station into the Allegheny River.

Will this permit require more stringent requirements than in previous permits?

Yes, the draft NPDES permit includes the addition of Oil and Grease effluent limits and monitoring requirements as well as monitoring for Total Nickel and Chloride. Monitoring for these parameters was not required in previous NPDES permits for this discharge.

What will DEP do to make sure GENON complies with their NPDES permit?

GENON is required to take samples of the effluent according to the permit requirements and submit a report of the results to DEP each month. GENON submits the sample results through DEP’s electronic DMR (“eDMR”) system. DEP reviews these Discharge Monitoring Reports (DMR’s) for noncompliance of the NPDES permit requirements. DEP also conducts inspections of the wastewater treatment plant and discharge.

Are these sample results and inspection reports available to the public?

Yes. The data from eDMR can be viewed electronically here:

<http://cedatareporting.pa.gov/Reportserver/Pages/ReportViewer.aspx?/Public/DEP/CW/SSRS/EDMR>DEP’s inspection history at this facility can be viewed by searching here:

<https://www.ahs.dep.pa.gov/eFACTSWeb/search.aspx>

or by conducting a file review at the DEP Northwest Regional Office in Meadville.

Has the DEP tested for radioactive elements in the Allegheny River near the Warren Generating Station?

In response to public comments on the first draft permit, the Department conducted a radiological evaluation of the site and determined that there was no evidence of any radiological impact from naturally occurring radioactive materials (NORM) or technologically enhanced radioactive material (TENORM) at the Warren Generating Station. The evaluation included sampling of the raw leachate, treated leachate, and sludge as well as a walkover of the wastewater treatment building, settling pond, and the river bank was performed using sensitive

radiological detection equipment. River sediment sampling was not completed at the time of the site radiological evaluation and the evaluation findings do not give any reason for concern to further evaluate the radiological conditions in the river sediment at the discharge point.

Does the DEP impose limits on arsenic and mercury from the discharges of combustion residual leachate?

Arsenic and Mercury were evaluated as part of this NPDES permit application renewal process and were “non-detectable” in the effluent. Therefore, DEP is not proposing any specific permit requirements related to arsenic and mercury. All potential parameters are reevaluated every 5-years when an NPDES permit as part of the NPDES permit renewal process.

Has there ever been a fish kill as a result of what the Warren Generating Station is dumping into the Allegheny River?

No.

Please note that the Allegheny River in Warren County does have a fish consumption advisory due to Mercury. This is for the entire stretch of the Allegheny River in Warren, Forest, and Venango Counties. The Warren Generating Station is not the cause of this fish advisory.

Additional information on fish consumption advisories can be found at:

<https://www.dep.pa.gov/Business/Water/CleanWater/WaterQuality/FishConsumptionAdvisory/Pages/default.aspx>

My water at home comes from a source in the Allegheny River, is it safe to drink?

The NPDES permit establishes restrictions on the Warren Generating Station to provide discharge water that will protect all uses of the Allegheny River including human health and downstream water supplies. However, there are many other influences on the Allegheny River water quality beyond DEPs control (ex. wildlife access to the River), so DEP recommends that only properly treated water taken from any surface water be consumed.

How was/will the public (be) involved in the decision-making process?

As in the previous draft permit for this renewal NPDES permit, all public comments will be reviewed, considered and, as appropriate, addressed prior to making a final decision on the renewal of this NPDES permit.

## I. NPDES RENEWAL PERMIT APPLICATIONS

**Northwest Regional Office:** Clean Water Program Manager, 230 Chestnut Street, Meadville, PA 16335-3481. Phone: 814.332.6942, Email: RA-EPNPDES\_NWRO@pa.gov.

NPDES No. (Type)	Facility Name & Address	County & Municipality	Stream Name (Watershed No.)	EPA Waived Y/N?
PA0005053 (Industrial)	Warren Generating Station 250 Power Plant Drive Shawville, PA 16873	Warren County Conewango Township	Allegheny River (WWF) (16-B)	Yes