



Pennsylvania Department of Environmental Protection

909 Elmerton Avenue
Harrisburg, PA 17110-8200

APR 23 2010

Southcentral Regional Office

717-705-4707
FAX - 717-705-4760

CERTIFIED MAIL NO. 7009 1680 0000 4245 6169

Mr. Robert Kissinger
South Middleton Township Municipal Authority
PO Box 8
Boiling Springs, PA 17007-0008

Re: Sewage - 3F
South Middleton Township WWTP
NPDES Permit No. 0044113
APS ID No. 275582
Authorization No. 829879
South Middleton Township, Cumberland County

Dear Mr. Kissinger:

Your permit is enclosed. Read the permit and the special conditions carefully.

A Discharge Monitoring Report (DMR) and Supplemental Reporting Forms are included. The master DMR will be prepared and distributed by the U.S. Environmental Protection Agency (EPA) in the near future. Use the enclosed DMR form until you receive a master from Environmental Protection Agency. The reporting forms must be submitted to the Department and the EPA Regional Office as instructed in the permit and the enclosed Instruction Sheet.

We would like to bring your attention to the Department's new electronic DMR (eDMR) program. The program can be accessed through the internet at www.dep.state.pa.us/edmr and can be used in lieu of paper DMR and supplemental report submissions. Please find enclosed additional information concerning eDMR. We highly encourage your participation in this program.

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



Mr. Robert Kissinger

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

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

If you have any questions, please call Mr. Martin Ferry of the Permits Section at 717-705-4823.

Sincerely,

A handwritten signature in black ink, appearing to read "Lee A. McDonnell", written in a cursive style.

Lee A. McDonnell, P.E.
Program Manager
Water Management Program

Enclosures

cc: U.S. Environmental Protection Agency (w/NPDES)
Glance Associates, Inc. (w/enclosure)



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Electronic Discharge Monitoring Report (eDMR) System

Overview

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

Eligible Types of Permit Holders

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

Access

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

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

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

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

Value and Benefits

- Reduction in paperwork and mailing costs for the facility.
- Reduction in manual data entry and filing by DEP.
- Submit reports right up to the deadline without concerns about delays with handling and associated civil penalty liability for late submissions.
- Electronic attachment functionality.
- Electronic receipt of all submissions.
- Track status and history of online submissions.
- Secure, convenient, and easy!

Record Retention

Regulations and permits require that records activities be retained by the permittee for a certain time, typically a minimum of three years. After submitting reports through eDMR, you may either print off a copy of the report and file it or save the report electronically to an on-site computer to satisfy retention requirements.

How to Participate

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

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

Submit these documents to:

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

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

Training

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

FOR MORE INFORMATION CONTACT:

PA Department of Environmental Protection
Bureau of Water Standards & Facility Regulations

Phone: 717-787-6744

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



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE REQUIREMENTS FOR PUBLICLY OWNED
TREATMENT WORKS (POTWs)**

NPDES PERMIT NO. PA 0044113

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.*,

**SOUTH MIDDLETON TOWNSHIP MUNICIPAL AUTHORITY
345 CRISWELL DRIVE
BOILING SPRINGS, PA 17007-0008**

is authorized to discharge from a facility known as **South Middleton Township WWTP**, located in **South Middleton Township, Cumberland County** to the **Yellow Breeches Creek** in **Watershed 7-E** 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 MAY 1, 2010.

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON APRIL 30, 2015.


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)

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 92.9.

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

DATE PERMIT ISSUED APR 23 2010

ISSUED BY 
Lee A. McDonnell, P.E.

DATE PERMIT AMENDMENT ISSUED _____

TITLE: Water Management Program Manager

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

A. For Outfall 001, Latitude 40°08'56", Longitude 77°05'38", River Mile Index 26.9, Stream Code 10121, Discharging to Yellow Breeches Creek

which receives wastewater from the wastewater treatment facility.

1. The permittee is authorized to discharge during the period from May 1, 2010 through September 30, 2014.
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, Footnotes, and Supplemental Information).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum Measurement Frequency ⁽²⁾	Required Sample Type
	Monthly Average	Weekly Average	Minimum	Monthly Average	Weekly Average	Instantaneous Maximum		
Flow (mgd)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
Influent ⁽³⁾ (BOD ₅ and TSS)	Report	Report Daily Max	XXX	Report	XXX	XXX	1/Week	8-hr comp
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/Day	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	1/Day	Grab
Total Residual Chlorine	XXX	XXX	XXX	1.0	XXX	2.0	1/Day	Grab
Total Suspended Solids	188	281	XXX	30	45	60	1/Week	8-hr comp
CBOD ₅ (5/1 to 10/31)	125	188	XXX	20	30	40	1/Week	8-hr comp
CBOD ₅ (1/1 to 4/30)	156	250	XXX	25	40	50	1/Week	8-hr comp
Total Phosphorus	12.5	XXX	XXX	2.0	XXX	4.0	1/Week	8-hr comp
Fecal Coliform (5/1 to 9/30) ⁽⁴⁾	XXX	XXX	XXX	200	XXX	XXX	1/Week	Grab
Fecal Coliform (10/1 to 4/30) ⁽⁴⁾	XXX	XXX	XXX	2,000	XXX	XXX	1/Week	Grab

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

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

B. For Outfall 001, Latitude 40°08'56", Longitude 77°05'38", River Mile Index 26.9, Stream Code 10121, Discharging to Yellow Breeches Creek which receives wastewater from the wastewater treatment facility.

1. The permittee is authorized to discharge during the period from October 1, 2014 through April 30, 2015.
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, Footnotes, and Supplemental Information).

Discharge Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Monthly Average Report	Weekly Average Report Daily Max	Minimum	Monthly Average	Weekly Average	Instantaneous Maximum		
Flow (mgd)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
Influent ⁽³⁾ (BOD ₅ and TSS)	Report	Report Daily Max	XXX	Report	XXX	XXX	2/Week	24-hr comp
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/Day	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	1/Day	Grab
Total Residual Chlorine	XXX	XXX	XXX	0.5	XXX	1.6	1/Day	Grab
Total Suspended Solids	250	375	XXX	20	30	40	2/Week	24-hr comp
CBOD ₅ (5/1 to 10/31)	187	275	XXX	15	22	30	2/Week	24-hr comp
CBOD ₅ (11/1 to 4/30)	218	325	XXX	17.5	26	35	2/Week	24-hr comp
NH ₃ -N (5/1 to 10/31)	100	XXX	XXX	8.0	XXX	16	2/Week	24-hr comp
NH ₃ -N (11/1 to 4/30)	119	XXX	XXX	9.5	XXX	19	2/Week	24-hr comp
Total Phosphorus	18.5	XXX	XXX	1.5	XXX	3.0	2/Week	24-hr comp
Fecal Coliform (5/1 to 9/30) ⁽⁴⁾	XXX	XXX	XXX	200	XXX	XXX	2/Week	Grab
Fecal Coliform (10/1 to 4/30) ⁽⁴⁾	XXX	XXX	XXX	2,000	XXX	XXX	2/Week	Grab

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

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Con't)**3. Additional Requirements:**

- a. The discharger may not discharge floating materials, oil, grease, scum, foam, sheen and substances which produce color, taste, turbidity, or settle to form deposits in concentrations or amounts sufficient to be, or creating a danger of being, inimical to the water uses to be protected or to human, animal, plant, or aquatic life. 25 Pa. Code 92.51(6)
- b. Except as otherwise specified in this permit, the 30-day average percent removal for 5-day carbonaceous biochemical oxygen demand (CBOD₅) and Total Suspended Solids (TSS) shall not be less than 85 percent. 40 CFR 133.102
- c. Effective disinfection to control disease producing organisms from the period of May 1 to September 30 shall be the production of an effluent which will contain a concentration not greater than 200/100 ml of Fecal Coliform colonies, nor greater than 1,000/100 ml of these colonies in more than 10 percent of the samples tested. 25 Pa Code 92.2c(b)(2)

Footnotes:

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) 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.
- (3) See PART C II.G for more information.
- (4) Fecal Coliform levels are reported as a geometric mean of colonies/100 ml.

Supplemental Information:

- ° If the permit requires reporting of average weekly limitations, please follow the following guideline. If the "maximum average concentration" and the "maximum average mass loading" does not occur within the same week, both the highest weekly average concentration and the highest weekly average mass load should be reported, regardless of whether they both occur during the same calendar week.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (Cont'd)

C. For Outfall 001, Latitude 40°08'56", Longitude 77°05'38", River Mile Index 26.9, Stream Code 10121, Discharging to Yellow Breeches Creek

which receives wastewater from the wastewater treatment facility.

1. The permittee is authorized to discharge during the period from May 1, 2010 through September 30, 2014.
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 nutrient monitoring requirements apply (see also Additional Requirements).

Discharge Parameter	Effluent Limitations			Monitoring Requirements			
	Mass Load (lbs)		Concentrations (mg/l)	Minimum Measurement Frequency ⁽²⁾	Required Sample Type		
	Monthly	Annual				Minimum	Monthly Average
Ammonia--N	Report	Report	XXX	Report	XXX	1/Week	8-hr Comp
Kjeldahl--N	Report	XXX	XXX	Report	XXX	1/Week	8-hr Comp
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	1/Week	8-hr Comp
Total Nitrogen ⁽¹⁾	Report	Report	XXX	Report	XXX	1/Month	Calculate
Total Phosphorus ⁽¹⁾	Report	Report	XXX	Report	XXX	1/Week	8-hr Comp
Net Total Nitrogen ⁽¹⁾	Report	Report	XXX	XXX	XXX	1/Month	Calculate
Net Total Phosphorus ⁽¹⁾	Report	Report	XXX	XXX	XXX	1/Month	Calculate

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

Footnotes:

- (1) See PART C for Chesapeake Bay Requirements.
- (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 required.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (Con't)

D. For Outfall 001, Latitude 40°08'56", Longitude 77°05'38", River Mile Index 26.9, Stream Code 10121, Discharging to Yellow Breaches Creek

which receives wastewater from the wastewater treatment facility.

1. The permittee is authorized to discharge during the period from October 1, 2014 through April 30, 2015.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following nutrient effluent limitations and nutrient monitoring requirements apply (see also Additional Requirements).

Discharge Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Load (lbs)		Concentrations (mg/l)		Minimum Measurement Frequency	Required Sample Type
	Monthly	Annual	Minimum	Monthly Average		
Ammonia--N	Report	Report	XXX	Report	XXX	2/Week 24-hr Comp
Kjeldahl--N	Report	XXX	XXX	Report	XXX	1/Week 24-hr Comp
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	1/Week 24-hr Comp
Total Nitrogen ⁽¹⁾	Report	Report	XXX	Report	XXX	1/Month Calculate
Total Phosphorus ⁽¹⁾	Report	Report	XXX	Report	XXX	2/Week 24-hr Comp
Net Total Nitrogen ⁽¹⁾	Report	29,322	XXX	XXX	XXX	1/Month Calculate
Net Total Phosphorus ⁽¹⁾	Report	3,653	XXX	XXX	XXX	1/Month Calculate

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

Footnotes:

- (1) See PART C for Chesapeake Bay Requirements.
- (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 required.
- (3) The original cap load for this permittee has been increased based on the connection of 77 retired on-lot sewage disposal systems to the sewage conveyance system that are tributary to this permittee's wastewater treatment facility. Twenty-five pounds of Total Nitrogen as N for each retired on-lot disposal system was added to the original cap load adding 1,925 pounds of Total Nitrogen as N to the originally determined cap load. A complete list of addresses of the dwellings that were served by the retired on-lot systems that are now connected to the sewage conveyance system is contained in the Water Quality Protection Report. Any additional offsets claimed during the permit term must be reported as outlined in PART C of this permit.

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 pollution to surface waters of the Commonwealth. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. 25 Pa. Code 92.1

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. 40 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 the Department to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

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

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

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

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

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

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

Indirect Discharger means a non-domestic discharger introducing pollutants to a Publicly Owned Treatment Works (POTW). 25 Pa. Code 92.1 and 40 CFR 122.2

Industrial User means those industries identified in the Standard Industrial Classification Manual, Office of Management and Budget, 1987, as amended and supplemented, under the category "Division D-Manufacturing" and other classes of significant waste producers, as by regulation, the Administrator deems appropriate. 25 Pa. Code 92.1

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

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

Municipality means a city, town, borough, country, parish, district, association or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under § 1288 of the Clean Water Act. 40 CFR 122.2

Publicly Owned Treatment Works (POTW) means a treatment works as defined by § 212 of the Clean Water Act, owned by a municipality. The definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes or other conveyances if they convey wastewater to a POTW providing treatment. 25 Pa Code 92.1 and 40 CFR 122.2

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 92.1

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

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

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

III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling 40 CFR 122.41(j)(1)

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

2. Records Retention 40 CFR 122.41(i)(2)

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least five 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 three years from the date of the sample measurement, report or application. The three-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 40 CFR 122.41(i)(4)

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

5. Quality/Assurance/Control

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

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. 40 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 122.4(i)(4)

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. 40 CFR 122.41(e) and 40 CFR 122.44(i)(1)
2. Unless instructed otherwise in PART C of this permit, a properly completed DMR must be received by the following address within 28 days after the end of each monthly report period:

Department of Environmental Protection
Water Management Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

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

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

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

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

C. Reporting Requirements

1. Planned Changes 40 CFR 122.41(l)(1) - The permittee shall give notice to DEP as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required 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); or
- 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.
- c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2. Anticipated Noncompliance

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

3. Unanticipated Noncompliance or Potential Pollution Reporting

- a. Immediate Reporting - The permittee shall report incidents causing or threatening pollution in accordance with the requirements of 25 Pa. Code Section 91.33. If because of an accident, other activity, or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify the Department by telephone of the location and nature of the danger and if reasonably possible to do so, notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger. The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.

- b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 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. Note: see 40 CFR 122.44(g).
 - (ii) Written Report - A written submission shall also be provided within five days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - (iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by the Department, the permittee shall submit a written report in accordance with this paragraph. 40 CFR 122.41(l)(6)(iii)

4. Other Noncompliance

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

PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance Schedules 25 Pa. Code 92.55 and 40 CFR 122.47(a).

1. The permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit.
2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. 40 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 Title 25 Pa. Code 92.51(2) 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. 25 Pa. Code 92.51(3)(ii) and 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)
4. The permittee shall provide the following information in the annual Municipal Wasteload Management Report, required under the provisions of Title 25 Pa. Code Chapter 94 unless a more stringent time period is required by law, regulation or permit condition in which case the more stringent time period will apply:
 - a. A new introduction of pollutants into the POTW from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging pollutants. 40 CFR 122.42(b)(1)
 - b. A substantial change in the volume or character of pollutants being introduced into the POTW by an indirect discharger introducing pollutants into the POTW at the time of issuance of this permit. 40 CFR 122.42(b)(2)
 - c. Information on the quality and quantity of effluent introduced into the POTW and any anticipated impact of the change in the quality or quantity of effluent to be discharged from the POTW. 40 CFR 122.42(b)(3)
 - d. The identity of the industrial users served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the POTW shall also specify the total volume of discharge and estimate concentration of each pollutant discharged into the POTW by the industrial user. 25 Pa. Code 92.53(c)

- e. The POTW shall require users of the treatment works subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act and regulations thereunder. 25 Pa. Code 92.53(c)

D. Proper Operation and Maintenance

1. The permittee shall employ certified operators to the extent required by the Water and Wastewater Systems Operators Certification Act (63 P.S. §§ 1001-1015.1).
2. 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 ten days before the bypass. 40 CFR 122.41(m)(3)(i)
 - b. Unanticipated Bypass
 - (i) The permittee shall submit immediate notice of an unanticipated bypass causing or threatening pollution. The notice shall be in accordance with PART A III.C.3.a.
 - (ii) The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with PART A III.C.3.b.

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 92 and 40 CFR § 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; 25 Pa. Code 92.51(3)(i) and 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; 25 Pa. Code 92.51(3)(ii) and 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; 25 Pa. Code 92.71a(1) and 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; 25 Pa. Code 92.71a(2) and 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; 25 Pa. Code 92.71a(3) and 40 CFR 122.61(b)(3)
 - d. The new permittee is in compliance with existing Department issued permits, regulations, orders, and schedules of compliance, or that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedule set forth in the permit), consistent with § 92.55 (relating to schedules of compliance) and other appropriate Department regulations. 25 Pa. Code 92.71a(4)
3. In the event DEP does not approve transfer of this permit, the new owner or controller must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. 40 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 122.21(d)

E. Other Laws

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

PART C

I. SCHEDULE

A. **Timing For Effective Dates Of Effluent Limitations.** The following schedule applies to effluent limitations in this permit:

<u>Provision Containing Effluent Limitation</u>	<u>Effective Date</u>
PART A I.A.2	May 1, 2010 through September 30, 2014
PART A I.B.2	October 1, 2014 through April 30, 2015
PART A I.C.2	May 1, 2010 through September 30, 2014
PART A I.D.2	October 1, 2014 through April 30, 2015

The permittee shall achieve compliance with all other terms and conditions of this permit upon the effective date of the permit, unless otherwise specified.

B. **Compliance Schedule.** The permittee shall be in compliance with effluent limitations for Nitrogen and Phosphorus contained in PART A I.C.2, or terminate this discharge, in accordance with the following schedule:

<u>Activity</u>	<u>Due Date</u>
1. Submit Update to Act 537 Sewage Facilities Plan	September 30, 2010
2. Submit WQM Part II Permit Application	September 30, 2011
3. Award Contract for Construction or Begin Implementation	September 30, 2012
4. Construction or Implementation Progress Report(s)	Quarterly
5. Issue Certification of Substantial Completion (Plant Fully Operational)	September 30, 2014
6. Compliance with effluent limitations	September 30, 2015

C. No later than 14 calendar days following the date identified in the above schedule of compliance, the permittee shall submit to the Department a written notice of compliance or noncompliance with the specific schedule requirement(s) to:

NPDES Compliance Specialist
Department of Environmental Protection
Water Management Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

D. Each notice of noncompliance, at a minimum, shall include the following information:

1. A description of the noncompliance.
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement.
3. A description of any factors which tend to explain or mitigate the noncompliance.
4. An estimate of the date that compliance with the elapsed schedule requirement will be achieved and an assessment of the probability that the next scheduled requirement will be met on time.
5. A revised schedule of compliance for Department approval.

- E. The permittee should contact the compliance specialist indicated in the event of anticipated noncompliance with any of a compliance schedule activities listed, seven days prior to the due date of the activity.

II. CHESAPEAKE BAY NUTRIENT REQUIREMENTS

A. General

1. The Net Total Nitrogen and Net Total Phosphorus mass load effluent limitations in PART A I.B and A I.C are required in order to meet the downstream water quality standards of the State of Maryland, as required by 25 Pa. Code Chapter 92, the federal Clean Water Act and implementing regulations. These effluent limitations do not reflect credits applied or sold or offsets applied, during this permit cycle.
2. The Total Nitrogen and Total Phosphorus Mass Load (actual mass load being discharged) shall be reported in the monthly Supplemental Discharge Monitoring Reports ("Supplemental DMR"). The total mass load will not equal the net total mass load if credits are applied or sold, or if offsets are applied. The mass loads for compliance purposes are "Net Total Nitrogen" and "Net Total Phosphorus" reported as pounds per year on the Discharge Monitoring Report. Instructions for tracking credits and offsets can be found in PART C II.C.10 – Tracking Offsets and Credits. The number of credits purchased can be determined by viewing the Department's Nutrient Trading Website at <http://www.dep.state.pa.us> Keyword "Nutrient Trading". The number of credits applied or sold, or offsets applied may change during the compliance year and subsequent truing period.
3. The Definitions in paragraph B apply to terms used in PART A and in the Supplemental DMR forms.
4. The Annual Nutrient Summary DMR shall be submitted no later than November 28th following the end of a compliance year for determination of compliance with the Net Total Nitrogen and Net Total Phosphorus Effluent Limits.

B. Definitions

1. Monthly Total Mass Load (lbs) = The sum of the actual daily discharge loads (lb/d) divided by the number of samples per month multiplied by the number of days in the month. Daily discharge load (lb/d) = Daily flow (MGD) on the day of sampling, multiplied by that day's sample concentration (mg/l) multiplied by 8.34.
2. Annual Total Mass Load (lbs) = The sum of the Monthly Total Mass Loads for one year beginning October 1st and ending September 30th.
3. Total Nitrogen = Kjeldahl-N plus Nitrate-Nitrite as N.
4. Compliance Year = The year long period starting October 1 and ending September 30. The compliance year will be named for the year in which it ends. Example: The period of October 1, 2010 through September 30, 2011 is compliance year 2011.
5. Truing period = The time allowed at the end of each compliance year for any entity to come into compliance through the application of credits towards the Annual Net Mass Loads. This truing period will start on October 1st and end on November 28th of the same calendar year. During this period, compliance for the specified year may be achieved by using registered credits that were generated during that compliance year. Example: Credits that are used to achieve compliance in compliance year 2011 must have been generated during compliance year 2011.
6. Monthly Net Mass Load = Monthly Total Mass Load + Total Credits sold during the month - Total Credits applied during the month - (Offsets applied/12)
7. Annual Net Mass Load (lb/year) = The sum of the Monthly Net Mass Loads for one year beginning October 1st and ending September 30th.

8. Certification: Written approval by the Department for the use of proposed or implemented activities to generate credits and/or offsets. Certifications are based on at least: 1) a credit or offset proposal to be submitted describing the qualifying activities that will reduce the nutrient loadings delivered to the Chesapeake Bay, 2) the calculation to quantify the pounds of reductions expected, and 3) a verification plan that, when implemented, ensures that the qualifying nutrient reduction activities have taken place.
9. Verification: Implementation of the verification plan contained in a certified credit or offset proposal as required by the Department. Verification plans require annual submittal of documentation to the Department that demonstrates that the qualifying nutrient reduction activities have taken place for the applicable compliance year.
10. Registration: Approval by the Department of the use of credits or offsets in a permit. Registration will not occur until credits have been certified and verified, and for credits a trading contract has been submitted to the Department. The Department will register credits on an annual basis for use during the compliance year in which the qualifying nutrient reduction activities have taken place, and provide such credits with an annual registry number for reporting and tracking purposes.

C. Nutrient Credits and Offsets

1. Credit = The unit of compliance that corresponds with a pound of reduction of TP, TN or sediment as recognized by the Department which, when registered by the Department, may be used to comply with effluent limits.
2. Offset = Verb - The act of reducing the aggregate production of nutrients from an action or activity by use of a complimentary action, activity or technology on that site or directly related to the activity. Noun - The load in pounds of nitrogen or phosphorus created by an action, activity, or technology that is available to apply against the proposed load to be generated. Offsets are not the same as credits as they cannot be directly bought, sold or transferred between owners, projects, or properties.
3. The permittee is authorized to apply nitrogen and phosphorus credits to this permit in order to comply with the Net Total Nitrogen and Net Total Phosphorus annual mass load effluent limits, when the credits are recognized by the Department through a trading program administered by the Department pursuant to "Final Trading of Nutrient and Sediment Reduction Credits – Policy and Guidelines," including all Attachments and Appendices.
4. Credits may be applied to the compliance obligations of this permit up until November 28 of the calendar year at the end of the current compliance period (e.g., if the period is the 12 months following September 30, 2010, credits may be applied up until November 28, 2011).
5. Whenever credits are applied or sold report the following, using the Supplemental DMR form:
 - Provide the registry number and trade effective dates.
 - Provide the type (nitrogen, phosphorus) and the number of credits purchased or sold of each.
6. Any time a contract expires during the term of this permit, the Department must be notified 30 days prior to the contract expiration date and either a new contract provided or a discussion on how compliance with this permit will be achieved.
7. All credit transactions must be on the DEP's Trading website which can be viewed at: www.dep.state.pa.us Keyword "Nutrient Trading".
8. Offsets approved by DEP are to be reported and used in calculating the net monthly mass load.
9. All credits must be certified by the Department and verified for the year in which they are used for compliance with this permit.

10. Tracking Offsets and Credits:

- a. Credits – The use of credits shall be tracked on supplemental DMR forms provided with this permit. As identified on the forms entitled *DMR Supplemental-Nitrogen* and *DMR Supplemental-Phosphorus* the forms shall be submitted when a registered credit is used to satisfy effluent limits. Additionally, the *Annual Nutrient Summary DMR* shall be submitted no later than November 28th following the end of the compliance year. Credits are only for the compliance year in which they are used and must be reported each year.
- b. Offsets – The use of offsets shall be tracked on supplemental DMR forms provided with this permit. As identified on the forms entitled *DMR Supplemental-Nitrogen* and *DMR Supplemental-Phosphorus*, the forms shall be submitted when offsets are claimed. Additionally, the *Annual Nutrient Summary DMR* shall be submitted no later than November 28th following the end of the compliance year. Some offsets will be deemed as permanent and can be claimed each year. Offsets must be reported each year during the permit cycle. Offsets deemed to be permanent can be used to adjust cap loads in future permits.

If an offset is approved during the compliance year, the offset generated shall be divided by twelve and applied to each monthly net mass load after the offset is approved. For example, 40-homes formerly utilizing on-lot systems are placed on public sanitary sewer service. The Nitrogen offset of 25 lbs/year per home would be applicable. The offsets are approved in May of the compliance year, so the offset would be applied as follows:

$$(40\text{-homes} \times 25 \text{ lbs / home}) / 12 \text{ months} = 83 \text{ lbs/month}$$

For each month following approval of the offset, 83 lbs of Nitrogen will be applied as an offset each month to the Monthly Net Mass Load.

D. Offsets granted by connection of retired on-lot systems.

The permittee is responsible to maintain records that show that the on-lot systems existed or were put in place prior to January 1, 2003, and eliminated by connecting the dwellings to the sewage conveyance system after January 1, 2003. These records must verify when the on-lot system was built, when the on-lot system was taken out of service, and when the dwelling was connected to the sewage conveyance system. These records must be maintained by the permittee as long as the offsets are counted toward the permittee's cap load. The permittee must make these records available for public inspection.

III. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS

A. Prohibition of Non-stormwater Discharges

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

B. Spills

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

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

D. Preparedness, Prevention and Contingency Plans

1. Development of Plan

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

2. Non-stormwater Discharges

- a. The PPC Plan shall contain a certification that the discharge has been tested or evaluated for the presence of non-stormwater discharges. The certification shall include the identification of potential significant sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing methods used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Such certification may not be feasible if the facility operating the stormwater discharge does not have access to an outfall, manhole, or other point of access to the ultimate conduit that receives the discharge. In such cases, the source identification section of the PPC Plan shall indicate why the certification was not feasible. A discharger that is unable to provide the certification must notify the Department within 180 days of the effective date of this permit.
- b. Except for flows from fire fighting activities, sources of non-stormwater listed in A.2. (authorized non-stormwater discharges) that are combined with stormwater discharges must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

3. Comprehensive Site Compliance Evaluations and Record Keeping

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

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

E. Stormwater Management Best Management Practices (BMPs)

The permittee shall implement at least the following BMPs:

1. Manage sludge in accordance with all applicable permit requirements.
2. Store chemicals in secure areas on impervious surfaces away from storm drains.
3. Consider routing stormwater contaminated within the treatment facility to the treatment facility or cover exposed materials (i.e., from the following areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles, septage or hauled waste receiving station).
4. Efficiently use pesticides for weed control; where practicable investigate use of the least toxic pesticides; do not apply during windy conditions.

IV. OTHER REQUIREMENTS

- A. No stormwater from pavements, areaways, roofs, foundation drains or other sources shall be admitted directly to the sanitary sewers associated with the herein approved discharge.
- B. 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 and replacement of all sewers or sewerage structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.
- C. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with the Solid Waste Management Act (35 P.S. Sections 6018.101 - 6018.1003), and in a manner equivalent to the requirements indicated in Chapters 271, 273, 275, 283, and 285 (relating to permits and requirements for landfilling, land application, incineration, and storage of sewage sludge), Federal Regulation 40 CFR Parts 501 and 503, The Clean Streams Law, and the Federal Clean Water Act and its amendments.
- D. The permittee shall complete all Supplemental Reporting forms provided by the Department in this permit (or an approved equivalent), and submit the signed, completed forms to the Department on a monthly basis with the DMR, in accordance with PART A III.B of this permit.
- E. The permittee shall not discharge hauled-in wastes to the treatment plant under the following conditions, unless otherwise approved by the Department in writing:
 - ° When acceptance of hauled-in wastes would cause a hydraulic or organic overload as defined in Chapter 94.1 of the Department's regulations.
 - ° When the treatment facility is considered to be in an existing hydraulic or organic overload condition, as determined by the permittee or the Department, as defined in Chapter 94.1 of the Department's regulations.
 - ° When the instantaneous flow at the treatment facility exceeds 2.25 MGD (interim) and 4.5 MGD (final) (the Chapter 94 hydraulic design capacity of the facility multiplied by a peaking factor of three), and for 24 hours following exceedance of this threshold.
- F. All flows reported on DMRs and Supplemental Reporting forms shall include septage and all other hauled-in wastes. In addition, all hauled-in wastes shall be recorded on a daily basis on the Supplemental DMR.
- G. Influent BOD₅ and TSS samples shall be collected and analyzed. Loading from hauled-in wastes must also be included in plant loading through analyses of the hauled-in wastes reported on DMR Supplement Forms or influent composite sampling. If hauled-in wastes are not included in influent composite analyses, for each day in which hauled-in wastes are received at the facility, indicate the volume and combined loading of septage, sludge, and other wastes received during the day on the DMR Supplemental Form. Loading from the hauled-in waste shall be based on a daily composite of grab samples from the individual truck loads.

- H. Use of tertiary nutrient filtration to meet nutrient effluent limitations shall be subject to the following requirements. The tertiary nutrient filters shall be operated at all times and treat up to the design flow capacity of the tertiary nutrient filters. Tertiary nutrient filtration shall be designed to treat at a minimum, the annual average daily design flow used to determine effluent limitations for this facility. NPDES compliance sampling for TP and/or TN shall be conducted in accordance with the nutrient requirements in PART A I.D.2 on any day the wastewater flow is diverted around the tertiary nutrient filters. To clarify, this may require sampling more often than is specified in PART A of this permit. The information shall be reported on the monthly supplemental to the Discharge Monitoring Report.
- I. This permit is of interest to the U.S. Environmental Protection Agency (EPA) because it meets one or more of the following criteria:
1. POTW with a design hydraulic flow of one mgd or more.
 2. POTW with a pretreatment requirement.
 3. Industrial Waste discharger not waived for review by the EPA/DEP Memorandum of Agreement.

A properly completed DMR must be received by EPA at the following address beginning with the October 2014 DMR:

NPDES Enforcement Branch (3WP42)
Office of NPDES Permits and Enforcement
Water Protection Division
U.S. Environmental Protection Agency, Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

- J. The permittee shall ensure that applied chlorine, used for disinfection or other purposes, is optimized to the degree necessary to minimize the total residual chlorine in the discharge. In doing so, the permittee shall consider relevant factors affecting chlorine dosage, such as wastewater characteristics, mixing and contact times, and desired result of chlorination.
- K. The permittee shall submit the results of Whole Effluent Toxicity (WET) tests with their next permit renewal application, as required in the federal regulation 40 CFR 122.21(j)(5). The permittee shall conduct WET tests in accordance with the Department's biomonitoring requirements. Prior to starting the WET tests, the applicant must contact the Department for current requirements.

V. SUPPLEMENTAL INFORMATION

- A. The interim hydraulic design capacity of 0.75 million gallons per day and the final hydraulic design capacity of 1.5 million gallons per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to help determine whether a "hydraulic overload" situation exists, as defined in Title 25 Pa. Code Chapter 94.
- B. The interim and final effluent limitations for this outfall were determined using effluent discharge rates of 0.75 (interim) and 1.5 (final) million gallons per day, respectively.
- C. The organic design capacities of 1,251 (interim) and 2,502 (final) lbs BOD₅ per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to determine whether an "organic overload" condition exists, as defined in 25 Pa. Code Chapter 94.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS

South Middleton Township Municipal Authority

NAME

ADDRESS

PO Box 8
Boiling Springs, PA 17007-0008

FACILITY

South Middleton Township STP

LOCATION

South Middleton Township

Cumberland County

WATERSHED

7-E

PA0044113
PERMIT NUMBER

001
OUTFALL NUMBER

INTERIM

Reporting Frequency: Monthly

DMR Effective From: May 1, 2010

DMR Effective To: September 30, 2014

Permit Expires: April 30, 2015

Permit Application Due: November 1, 2014

Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS			
Flow	MEASUREMENT	Report	MGD	*****	*****	*****			
	PERMIT REQUIREMENT	Avg Mo	Report Daily Max	*****	*****	*****		Continuous	Measured
pH	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	6.0 Min	*****	9.0 IMAX		1/day	Grab
Dissolved Oxygen	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	5.0 Min	*****	*****		1/day	Grab
Total Residual Chlorine	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	1.0 Avg Mo	2.0 IMAX		1/day	Grab
CBOD5 Nov 1 - Apr 30	MEASUREMENT	156	lbs/day	*****	*****	*****			
	PERMIT REQUIREMENT	Avg Mo	250 Wkly Avg	*****	*****	40 Wkly Avg		1/week	8-Hr Composite
CBOD5 May 1 - Oct 31	MEASUREMENT	125	lbs/day	*****	*****	*****			
	PERMIT REQUIREMENT	Avg Mo	188 Wkly Avg	*****	*****	30 Wkly Avg		1/week	8-Hr Composite
BOD5 Raw Sewage Influent	MEASUREMENT	Report	lbs/day	*****	*****	*****			
	PERMIT REQUIREMENT	Avg Mo	Report Daily Max	*****	*****	*****		1/week	8-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
TYPED OR PRINTED	AREA CODE	MO
	NUMBER	YEAR
	DAY	

COMMENTS (Report all violations on the "Non-Compliance Reporting Form")

PAGE 1 OF 4



**COMMONWEALTH OF PENNSYLVANIA
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YEAR	MO	DAY	TO	YEAR	MO	DAY

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS				
Total Suspended Solids	PERMIT REQUIREMENT	188	lbs/day	30	mg/L	45		1/week	8-Hr Composite
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	Report Avg Mo	mg/L	*****		1/week	8-Hr Composite
Fecal Coliform Oct 1 - Apr 30	PERMIT REQUIREMENT	*****	*****	2,000	CFU/100 ml	*****		1/week	Grab
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	Report Avg Mo	mg/L	*****		1/week	8-Hr Composite
Fecal Coliform May 1 - Jun 30, Aug 1 - Sep 30	PERMIT REQUIREMENT	*****	*****	200	CFU/100 ml	*****		1/week	Grab
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	Report Avg Mo	mg/L	*****		1/week	8-Hr Composite
Nitrate-Nitrite as N	PERMIT REQUIREMENT	*****	*****	*****	*****	*****		1/week	8-Hr Composite
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	Report Total Mo	Report Daily Max	Report Avg Mo	mg/L	*****		1/week	8-Hr Composite
Nitrate-Nitrite as N	PERMIT REQUIREMENT	*****	*****	*****	*****	*****		1/month	Calculation
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	Report Total Mo	Report Daily Max	Report Avg Mo	mg/L	*****		1/month	Calculation
Total Nitrogen	PERMIT REQUIREMENT	*****	*****	*****	*****	*****		1/month	Calculation
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	Report Total Mo	Report Daily Max	Report Avg Mo	mg/L	*****		1/month	Calculation

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA CODE

NUMBER

YEAR

MO

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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South Middleton Township

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PARAMETER	SAMPLER MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	PERMIT REQUIREMENT	VALUE	VALUE				
Total Nitrogen	SAMPLE PERMIT REQUIREMENT	Report Total Mo	*****	*****	*****	*****		1/month	Calculation
Total Nitrogen Effluent Net	SAMPLE PERMIT REQUIREMENT	Report Total Mo	*****	*****	*****	*****		1/month	Calculation
Ammonia-Nitrogen	SAMPLE PERMIT REQUIREMENT	*****	*****	*****	*****	*****		1/week	8-Hr Composite
Ammonia-Nitrogen	SAMPLE PERMIT REQUIREMENT	Report Total Mo	*****	*****	*****	*****		1/month	Calculation
Total Kjeldahl Nitrogen	SAMPLE PERMIT REQUIREMENT	*****	*****	*****	*****	*****		1/week	8-Hr Composite
Total Kjeldahl Nitrogen	SAMPLE PERMIT REQUIREMENT	Report Total Mo	*****	*****	*****	*****		1/month	Calculation
Total Phosphorus	SAMPLE PERMIT REQUIREMENT	12.5 Avg Mo	*****	*****	*****	*****		1/week	8-Hr Composite

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE

AREA CODE NUMBER YEAR MO DAY

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		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
Flow	MEASUREMENT	Report Avg Mo	MGD	*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Daily Max		*****	*****	*****	*****		Continuous	Measured
	MEASUREMENT	*****		*****	*****	*****	*****			
pH	PERMIT REQUIREMENT	*****	*****	6.0 Min	*****	9.0 IMAX	*****		1/day	Grab
	MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	5.0 Min	*****	*****	*****		1/day	Grab
Dissolved Oxygen	MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
	MEASUREMENT	*****	*****	*****	*****	*****	*****			
Total Residual Chlorine	PERMIT REQUIREMENT	*****	*****	*****	*****	1.6 IMAX	*****		1/day	Grab
	MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
CBOD5 Nov 1 - Apr 30	MEASUREMENT	218 Avg Mo	lbs/day	*****	*****	17.5 Avg Mo	*****		2/week	24-Hr Composite
	PERMIT REQUIREMENT	325 Wkly Avg		*****	*****	*****	*****			
	MEASUREMENT	*****	*****	*****	*****	*****	*****			
CBOD5 May 1 - Oct 31	MEASUREMENT	187 Avg Mo	lbs/day	*****	*****	15 Avg Mo	*****		2/week	24-Hr Composite
	PERMIT REQUIREMENT	275 Wkly Avg		*****	*****	*****	*****			
	MEASUREMENT	*****	*****	*****	*****	*****	*****			
BOD5 Raw Sewage Influent	PERMIT REQUIREMENT	Report Avg Mo	lbs/day	*****	*****	Report Avg Mo	*****		2/week	24-Hr Composite
	MEASUREMENT	*****	*****	*****	*****	*****	*****			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				TELEPHONE		DATE		
TYPED OR PRINTED										
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")										

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

PERMITTEE NAME/ADDRESS

South Middleton Township Municipal Authority
PO Box 8
Boiling Springs, PA 17007-0008
South Middleton Township STP
South Middleton Township
Cumberland County
7-E

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South Middleton Township Municipal Authority

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FACILITY

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LOCATION

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WATERSHED

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		VALUE	UNITS	VALUE	VALUE	UNITS				
Total Suspended Solids Raw Sewage Influent	MEASUREMENT	Report Avg Mo	lbs/day	*****	Report Avg Mo	*****			24-Hr Composite	
	PERMIT REQUIREMENT	Report Daily Max	lbs/day	*****	Report Avg Mo	*****		2/week	Composite	
Total Suspended Solids	MEASUREMENT	250 Avg Mo	lbs/day	*****	20 Avg Mo	30 Wkly Avg			24-Hr Composite	
	PERMIT REQUIREMENT	375 Wkly Avg	lbs/day	*****	200 Geo Mean	*****		2/week	Grab	
Fecal Coliform May 1 - Sep 30	MEASUREMENT	*****	*****	*****	*****	*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****		2/week	Grab	
Fecal Coliform Oct 1 - Apr 30	MEASUREMENT	*****	*****	*****	2,000 Geo Mean	*****				
	PERMIT REQUIREMENT	*****	*****	*****	2,000 Geo Mean	*****		2/week	Grab	
Nitrate-Nitrite as N	MEASUREMENT	*****	*****	*****	Report Avg Mo	*****			24-Hr Composite	
	PERMIT REQUIREMENT	*****	*****	*****	Report Avg Mo	*****		1/week	Composite	
Nitrate-Nitrite as N	MEASUREMENT	Report Total Mo	lbs	*****	*****	*****			Calculation	
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****		1/month	Calculation	
Total Nitrogen	MEASUREMENT	*****	*****	*****	Report Avg Mo	*****			Calculation	
	PERMIT REQUIREMENT	*****	*****	*****	Report Avg Mo	*****		1/month	Calculation	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
TYPED OR PRINTED								DATE		
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")								AREA CODE NUMBER YEAR MO DAY		



**COMMONWEALTH OF PENNSYLVANIA
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YEAR	MO	DAY	YEAR	MO	DAY
			TO		

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	VALUE				
Total Nitrogen	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Total Mo	lbs	*****	*****	*****	1/month	Calculation	
Total Nitrogen Effluent Net	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Total Mo	lbs	*****	*****	*****	1/month	Calculation	
Ammonia-Nitrogen May 1 - Oct 31	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	100 Avg Mo	lbs/day	*****	8.0 Avg Mo	*****	2/week	24-Hr Composite	
Ammonia-Nitrogen Nov 1 - Apr 30	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	119 Avg Mo	lbs/day	*****	9.5 Avg Mo	*****	2/week	24-Hr Composite	
Ammonia-Nitrogen	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Total Mo	lbs	*****	*****	*****	1/month	Calculation	
Total Kjeldahl Nitrogen	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Total Mo	*****	*****	Report Avg Mo	*****	1/week	24-Hr Composite	
Total Kjeldahl Nitrogen	MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	Report Total Mo	*****	*****	*****	*****	1/month	Calculation	

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TYPED OR PRINTED

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YEAR MO DAY TO YEAR MO DAY

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PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS					
Total Nitrogen CB Annual Effluent Net	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****	*****	1/year	Calculation			
Total Nitrogen	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****	*****	1/year	Calculation			
Ammonia-Nitrogen	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****	*****	1/year	Calculation			
Total Phosphorus	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****	*****	1/year	Calculation			
Total Phosphorus CB Annual Effluent Net	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****	*****	1/year	Calculation			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
TYPED OR PRINTED	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							TELEPHONE	DATE			
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YEAR	MO	DAY	YEAR	MO	DAY
			TO		

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PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS			
Total Nitrogen CB Annual Effluent Net	MEASUREMENT	*****		*****	*****			
	PERMIT REQUIREMENT	*****	29,322 Total Annual	*****	*****		1/year	Calculation
Total Nitrogen	MEASUREMENT	*****		*****	*****			
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****		1/year	Calculation
Ammonia-Nitrogen	MEASUREMENT	*****		*****	*****			
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****		1/year	Calculation
Total Phosphorus	MEASUREMENT	*****		*****	*****			
	PERMIT REQUIREMENT	*****	Report Total Annual	*****	*****		1/year	Calculation
Total Phosphorus CB Annual Effluent Net	MEASUREMENT	*****		*****	*****			
	PERMIT REQUIREMENT	*****	3,653 Total Annual	*****	*****		1/year	Calculation
	MEASUREMENT							
	PERMIT REQUIREMENT							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SAMPLE							
	PERMIT REQUIREMENT							
TYPED OR PRINTED	SAMPLE							
	PERMIT REQUIREMENT							
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						TELEPHONE		DATE
						AREA CODE	NUMBER	YEAR
							MO	DAY

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

COMMENTS (Report all violations on the "Non-Compliance Reporting Form")



INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs)

General

One or more Discharge Monitoring Reports (DMRs) are attached to your permit for reporting the results of self-monitoring activities as required by your permit. You should make copies of the DMRs for your ongoing use, unless you elect to participate in the Department of Environmental Protection's (DEP's) electronic DMR (eDMR) program (see www.dep.state.pa.us/edmr).

- Reporting frequencies will vary depending on the monitoring frequencies listed in your permit, and are generally monthly, quarterly semi-annually and annually.
- Your reports must be received by the Department on the 28th day of the month following the end of the reporting period.
- Your permit may require submission of DMRs to other agencies, including the U.S. Environmental Protection Agency (EPA).
- If you receive DMRs in the mail from EPA, please discontinue use of DMR Form No. 3800-FM-WSFR0462 and begin using EPA's DMRs.
- DMRs will generally include pre-populated information for permittee name and address, facility location, permit number, outfall number, permit expiration date, parameter names, and permit requirements. If you identify any errors on a DMR issued by DEP, please contact the DEP regional office that issued your permit. If you identify any errors on a DMR issued by EPA, please contact DEP's Central Office at 717-787-6744. **DO NOT make changes to DMRs issued to you.**
- You may use computer-generated replicas of Form No. 3800-FM-WSFR0462 or of EPA's DMR if you receive prior approval from DEP and EPA. **DEP reserves the right to instruct you to discontinue the submission of computer-generated DMRs if the permit requirements you entered on the form are inaccurate.**

Instructions

1. Enter statistical results into each blank field below the "VALUE" column headers. Results must be reported in the same units shown on the DMR.
2. Sum the total number of excursions or exceedances of permit limits across the row for each parameter and enter the value into the "NO. EX" field. For example, if the permit contains limits of 6.0 S.U. (Minimum) and 9.0 S.U. (Maximum) for pH, and the Minimum and Maximum results are 5.9 S.U. and 9.1 S.U., respectively, enter "2" into the "NO. EX" field.
3. Report the actual sampling frequency and sample type utilized during the reporting period in the fields corresponding to "Frequency of Analysis" and "Sample Type", respectively.
4. Type the name of the principal executive officer (or an authorized agent designated by a principal executive officer) who is taking responsibility for the report, sign the report (should be in ink), enter the telephone number of the responsible individual, and record the date that the report was signed. Mail only original, signed copies of DMRs.
5. In the Comments section at the bottom of the DMR, you may write a brief summary of violations in this section; however, DEP requests that all violations during the monitoring period be reported in more detail on DEP's **Non-Compliance Reporting Form** (3800-FM-WSFR0440) and be submitted as an attachment to the DMR. Other uses of the Comments Section include explanations of attachments to the DMR, explanations for the unavailability of data, and brief summaries of issues that have affected operations or effluent quality during the monitoring period. Always consider attaching a letter or separate document to explain your situation in more detail.

No Discharge or No Data Available

If there was no discharge at all from an outfall during the monitoring period, check the "No Discharge" box on the top of the DMR. Complete the information above and below the table and mail the DMR to the appropriate agencies. Be sure to sign and date the DMR.

If there was no discharge of a specific parameter (e.g., if a chlorine limit is in the permit but chlorine was not used for disinfection during the entire reporting period), or if data are not available for a specific parameter for the entire reporting period, do not leave the DMR blank. Instead, report one of the following No Data Indicator (NODI) codes that apply to your situation in the appropriate value field, and **provide an explanation as an attachment to the DMR:**

- A** Use if you are exempted from monitoring the parameter because of a General Permit condition.
- E** Use if all samples or results are not available for the reporting period due to equipment failure or because sample collection was overlooked or samples could not be collected for the parameter.
- GG** Use if your permit requires sample collection and analysis only under certain conditions and those conditions were not met during the reporting period (e.g., report chlorine results only when chlorination system is used).
- FF** Other: use if there is any reason for the absence of data that is not covered by those above.

If you have at least one result for a parameter, the value should be reported and not a NODI code.

Calculations

The following explains how to calculate statistical values that are commonly required by permits:

Monthly Average – For Loading (lbs/day), sum the total of daily loadings and divide by the number of samples during the month. To calculate the daily loading, multiply the daily concentration (mg/l) by the flow (MGD) on the date of sampling and a conversion factor of 8.34. For Concentration, sum the total of daily concentrations and divide by the number of samples.

Weekly Average – For Loading (lbs/day), sum the total of average daily loadings during each week of the reporting period (beginning on a Sunday and ending on a Saturday) and divide by the number of samples during the week. For Concentration, sum the total of daily concentrations each week and divide by the number of samples. Report the maximum weekly average on the DMR.

Maximum Daily ("Daily Max") – Report the maximum concentration or load measured during a 24-hour period during the reporting period; if multiple measurements are taken daily, include all data in the analysis.

Instantaneous Maximum ("IMAX") – Report the maximum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Instantaneous Minimum ("Minimum") – Report the minimum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Total Monthly Load (lbs) – Sum the total of average daily loadings, divide by the number of samples during the month, and multiply by the number of days in the month.

Geometric Mean – Report the average of a set of *n* sample results given by the *n*th root of their product. If any result is zero (0), substitute 1 for the calculation. For example, five samples were analyzed with the following results: 20, 300, 400, 500, and 0. The calculation of geometric mean is as follows (note that you will need to use the power function on a calculator):

$$\sqrt[5]{20 \cdot 300 \cdot 400 \cdot 500 \cdot 1} = \sqrt[5]{1,200,000,000} = (1,200,000,000)^{1/5} = 65$$

Non-Detect Data

For calculating average values of data sets in which there are some "detections" (results at or above the laboratory reporting limit) and some "non-detect" data (results reported below the laboratory reporting limit), use a value of one-half (0.5)* the reporting limit for non-detect data. For example, four samples were analyzed with the following results: < 1.0, 2.0, < 1.0, and 1.0. Calculate the average value by assigning 0.5 to the non-detect values of < 1.0, resulting in an average of 1.0.

To report average and maximum values where all results are non-detect for the reporting period, use the highest reporting limit and include the less than (<) symbol. For example, if four sample results are < 1.0, < 2.0, < 1.0, and < 1.0, report the average and maximum results as < 2.

* Where the permit includes an effluent limitation for a parameter that is less than the most sensitive detection limit available, and the laboratory reports a value at or below the lowest level specified by the permit, you may use zero (0) in the calculation in lieu of one-half. In general, parameters with limitations that are less than the most sensitive detection limit will be identified in Part C of the permit, if applicable.

Rounding and Precision

Results should be reported at the same level of precision as the effluent limitation. For example, if a limit is 1.1 and the average value of your results is 1.05, report the value as 1.1. If there is no effluent limitation ("Monitor and Report" only), report the value to the same level of precision as reported by the laboratory or as recommended by the equipment manufacturer.

For more information please see the document "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047), available on DEP's Web site.



**SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING**

Facility Name: South Middleton Township STP
 Municipality: South Middleton Township
 Watershed: 7-E
 Laboratories: _____

Month: _____ Year: _____
 NPDES Permit No.: PA0044113 Outfall No.: 001
 Renewal application due 180 days prior to expiration
 This permit will expire on April 30, 2015

Day	Flow		pH		DO		TRC		CBOD5		TSS		Fecal Coliform		Ammonia		Total Phosphorus		
	Q	MGD	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	CFU/100 ml	Q	mg/L	Q	mg/L	
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
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28																			
29																			
30																			
31																			
Avg																			

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____ Signature: _____
 Title: _____ Date: _____



SUPPLEMENTAL REPORT – INFLUENT & PROCESS CONTROL

Facility Name: South Middleton Township STP
Municipality: South Middleton Township County: Cumberland
Watershed: 7-E

Month: _____ Year: _____
NPDES Permit No.: PA0044113
This permit will expire on April 30, 2015

Day	Influent			Process Control				
	Flow (MGD)	BOD5 (mg/l)	BOD5 (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
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30								
31								
Avg								
Max								

Check if there were no biosolids removed from the plant, hauled-in municipal wastes received, hauled-in residual wastes received, or non-compliance incidents during the month (otherwise attach the appropriate forms).

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____ Signature: _____
Title: _____ Date: _____



SUPPLEMENTAL REPORT – HAULED IN MUNICIPAL WASTES

Facility Name: South Middleton Township STP
 Municipality: South Middleton Township
 Watershed: 7-E

Month: _____
 County: Cumberland

Year: _____
 NPDES Permit No.: PA0044113
 Renewal application due 180 days prior to expiration
 This permit will expire on April 30, 2015

Day	SEPTAGE			SLUDGE			OTHER (specify):			DAILY TOTALS			
	Gallons	BOD ₅ (mg/l)	BOD ₅ (lbs)	Disposal Location	Gallons	BOD ₅ (mg/l)	BOD ₅ (lbs)	Disposal Location	Gallons	BOD ₅ (mg/l)	BOD ₅ (lbs)	Gallons	BOD ₅ (lbs)
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
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22													
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25													
26													
27													
28													
29													
30													
31													
Avg													
												Monthly Totals:	

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____
 Title: _____

Signature: _____
 Date: _____



**CHESAPEAKE BAY SUPPLEMENTAL REPORT
NUTRIENT MONITORING**

Facility Name: South Middleton Township STP County: Cumberland
Municipality: South Middleton Township
Watershed: 7-E

Month: _____ Year: _____
NPDES Permit No.: PA0044113 Outfall No.: _____
Renewal application due **180 days** prior to expiration
This permit will expire on **April 30, 2015**

DAY	FLOW MGD	Total P mg/L	Total P lbs/day	NH ₃ -N mg/L	NH ₃ -N lbs/day	TKN mg/L	TKN lbs/day	NO ₂ +NO ₃ as N mg/L	NO ₂ +NO ₃ as N lbs/day	Total N mg/L	Total N lbs/day
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
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26											
27											
28											
29											
30											
31											
Avg											
Monthly Total Loads (lbs):											
<i>(Avg result x No. days in month)</i>											

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____ Signature: _____
Title: _____ Date: _____



**CHESAPEAKE BAY SUPPLEMENTAL REPORT
ANNUAL NUTRIENT SUMMARY**

Facility Name: South Middleton Township STP County: Cumberland
 Municipality: South Middleton Township
 Watershed: 7-E
 Total N Credits Purchased During Year: _____ lbs
 Total P Credits Purchased During Year: _____ lbs

For Compliance Year: 10/1/20 to 9/30/20
 NPDES Permit No.: PA0044113 Outfall No.: _____
 Renewal application due 180 days prior to expiration
 This permit will expire on: April 30, 2015
 Delivery Ratios: Total N: 0.961 Total P: 0.436

MONTH	Monthly Total Mass Loads (lbs)		Credits Sold / Delivery Ratios (lbs)		Credits Applied / Delivery Ratios (lbs)		Offsets (lbs)		Monthly Net Mass Loads (lbs)		
	Total N	Total P	Total N	Total P	Total N	Total P	Total N	Total P	Total N	Total P	
October											
November											
December											
January											
February											
March											
April											
May											
June											
July											
August											
September											
Totals:											
Truing Period Calculations:	Annual Total Mass Loads (lbs)		Credits Sold / Delivery Ratios (lbs)		Credits Purchased / Delivery Ratios (lbs)		Annual Net Mass Loads (lbs)				
		Truing Period Adjustments (Oct 1 – Nov 28)									

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____ Signature: _____
 Title: _____ Date: _____



NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Name: South Middleton Township STP Month: _____ Year: _____
 Municipality: South Middleton Township County: Cumberland Permit No.: PA0044113

Violations of Permit Effluent Limitations*

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken

Sanitary Sewer Overflows and Other Unauthorized Discharges*

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

Other Permit Violations*

- Sample collection less frequent than required Explain
- Sample type not in compliance with permit Explain
- Violation of permit schedule Explain
- Other Explain
- Other Explain

*** If the space provided is not sufficient to record all information, please attach additional sheets.**

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____ Signature: _____
 Title: _____ Date: _____

INSTRUCTIONS FOR COMPLETING DMR SUPPLEMENTAL REPORTS

DAILY EFFLUENT MONITORING REPORT

Use this form to report daily monitoring results for the parameters that must be monitored in effluent for compliance with the permit. Results for influent parameters should be reported on Form 3800-FM-WSFR0436.

1. Enter Facility Name, Municipality, County, Watershed No., Laboratories, Month, Year, NPDES Permit No., Outfall No., and Permit Expiration Date (it is noted that this information may be pre-populated if you have received this form with your permit). For Laboratories, list the names of all laboratories where samples were analyzed during the month, including on-site analysis.
2. In the column headers, below "Effluent Parameters," enter the names of parameters in the permit. Since limited space is provided, abbreviation may be necessary. If there are more parameters for an outfall than columns provided on the form, attach an additional sheet.
3. Below parameter names, and to the right of "Q" (Qualifier) column headers, enter the units associated each parameter (it is noted that this information may be pre-populated if you have received this form with your permit).
4. Enter monitoring results for parameters in the rows corresponding to the day of the month in which samples were collected. Enter results exactly as reported by the laboratory, or if measured with on-site equipment, to the level of precision recommended by the equipment manufacturer. Enter data qualifiers such as "<," ">," "J," and others in the "Q" column.
5. Calculate and report average values at the bottom of the table in accordance with the DMR Instructions (3800-FM-WSFR0463). Note – for bacteria, calculate and report the geometric mean value.
6. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

INFLUENT AND PROCESS CONTROL REPORT

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
2. For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD₅ concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). If an influent flow meter is not in use, you may use results from an effluent flow meter.
3. For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems, and total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
4. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

HAULED IN MUNICIPAL WASTES REPORT

This form is intended for documenting the receipt of municipal wastes including sewage sludge, septage and other wastewaters hauled in from other facilities for processing and/or disposal at your facility. This form should not be used for reporting receipt of residual wastes (e.g., food processing wastes, oil and gas wastewater, landfill leachate, etc.) - please use Form 3800-FM-WSFR0450 for reporting this information.

**INSTRUCTIONS FOR COMPLETING
DMR SUPPLEMENTAL REPORTS**

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
2. For septage, biosolids and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD₅ concentration (average), the daily BOD₅ load in lbs (average), and the disposal location. For disposal location, specify the plant location or tank receiving hauled in wastes (e.g., headworks, primary clarifier, digester, etc.).
3. Determine daily BOD₅ concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
4. Calculate the average, daily total and monthly total values and report the values in the spaces provided.
5. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

BIOSOLIDS PRODUCTION AND DISPOSAL FORM

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.

Biosolids Production Information

2. For each off-site removal event for liquid biosolids and for dewatered sludge, and for each event where dewatered biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid biosolids) or tons (dewatered biosolids) removed or incinerated and the percent solids (without moving the decimal point). Report only biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include biosolids from other facilities that are processed at your facility.

Calculate dry tons for liquid biosolids by multiplying the volume (gallons) by the percent solids and by a conversion factor of 0.0000417. For example, if 2,500 gallons of liquid biosolids is removed, and the percent solids is 3.0%, dry tons is calculated as:

$$2,500 \text{ gallons} \times 3.0\% \times 0.0000417 = 0.31 \text{ dry tons}$$

Calculate dry tons for dewatered biosolids by multiplying the tons dewatered by the percent solids and by a conversion factor of 0.01. For example, if 5 tons of dewatered biosolids is removed, and the percent solids is 50%, dry tons is calculated as:

$$5 \text{ tons} \times 50\% \times 0.01 = 2.5 \text{ dry tons}$$

The % **Solids** of liquid or dewatered biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in *Standard Methods for the Examination of Water and Wastewater*, 18th edition, where samples are dried at 103-105°C. Other references such as ASTM may have equivalent tests that are also acceptable.

Biosolids and Incinerator Ash Disposal and Beneficial Use Information

3. Report biosolids and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, attach additional pages. For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids permit number for land application, landfill waste management permit number, etc.), Type of Material (biosolids or incinerator ash), Dry

**INSTRUCTIONS FOR COMPLETING
DMR SUPPLEMENTAL REPORTS**

Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).

4. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). If you are reporting other non-compliance events, and the deadline for a written report (e.g., 5 days) does not coincide with your submission of the DMR, this form should be submitted separately to the Department by the reporting deadline set forth in the permit.

If you are unsure of whether an incident constitutes non-compliance that may endanger health or the environment, it is recommended that you notify the Department verbally as soon as possible after you become aware of the incident. Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures.

Instructions:

1. Enter the name of the facility, the municipality and county where it is located, the month and year when violations occurred, and the NPDES or WQM permit number for the facility.
2. If there were violations of permit effluent limitations during the month, check the box next to "Violations of Permit Effluent Limitations." (Note – If using the electronic version of this form, check the boxes first, and then select Tools – Unprotect Document to enter additional information). Enter the date of the violation (if a violation of a minimum or maximum limit, the date of sample collection, or if a violation of an average limit, the end of the monitoring period), the parameter name, the permit limit and units, the statistical code (e.g., "MIN", "MAX", "MO AVG", etc.), the measured result and units, the cause of the violation and the corrective action taken. **If there are more than two violations during the monitoring period and/or if the space provided is insufficient to explain the cause or corrective action, please attach additional pages.**
3. If there are Sanitary Sewer Overflow (SSO) discharges or other unauthorized discharges from the facility (e.g., spills, leaks, etc.) that enter or have the potential to enter waters of the Commonwealth, including groundwater, notify DEP by phone as soon as possible, and document the discharge on this form by checking the box next to "Sanitary Sewer Overflows and Other Unauthorized Discharges." Record the event (discharge) date, the substance discharged (e.g., sewage, on-site chemicals, etc.), the location where the discharge occurred (e.g., manhole number, pump station name, equipment description, etc.), the volume discharged (gallons), the approximate duration of the discharge (hours), the receiving waters (name of stream or groundwater), the impact on the receiving waters, if observed (e.g., solids deposition, foam, fish kill, etc.), the cause of the discharge, and the date on which the Department was verbally notified. **If there are more than two discharge events during the monitoring period and/or if the space provided is insufficient to explain the discharge, please attach additional pages.**
4. If there are other violations of the permit, check the box next to "Other Permit Violations," and check the appropriate box that describes the violation type. If not identified on the form, check the box next to "Other" and provide a written explanation. **If the space provided is insufficient to explain the violation, please attach additional pages.**
5. Type your name and title and sign and date the form after reading the certification statement.



INSTRUCTIONS FOR COMPLETING DMR SUPPLEMENTAL REPORTS

If you have questions about completing this form, contact the Water Management Operations Section of the Department in your region:

Southeast Region – (484) 250-5970
Northeast Region – (570) 826-2553
Southcentral Region – (717) 705-4707

Northcentral Region – (570) 327-0532
Southwest Region – (412) 442-4060
Northwest Region – (814) 332-6942

NUTRIENT MONITORING REPORT

Use this form to report daily monitoring results and monthly calculations for Total Phosphorus and the Nitrogen series, where such monitoring is required by the permit.

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., Outfall No., and Permit Expiration Date.
2. Enter daily monitoring data for Flow (MGD) and Nutrient parameter concentrations (mg/l) and loading (lbs/day). Concentrations for Total Nitrogen are computed by summing the concentrations for TKN and $\text{NO}_2 + \text{NO}_3$ as N. Calculate loading by multiplying Flow by concentration and by the conversion factor 8.34. If no monitoring data are available for the day, leave the row blank. If you receive a "non-detect" (i.e., < "reporting limit") result, enter the result as reported by the laboratory, but use one-half the reporting limit for calculating the loading (lbs/day).
3. At the bottom of the table, calculate average monthly concentrations, loadings and total monthly loads.
4. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

NITROGEN AND PHOSPHORUS NUTRIENT BUDGET REPORTS

Use this form to report Nitrogen and Phosphorus credit transactions and offsets applied during a month, and monthly Nitrogen and Phosphorus loads.

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., Outfall No., the number of Nitrogen and Phosphorus credits purchased during the month (lbs), Total Nitrogen (TN) and Total Phosphorus (TP) Delivery Ratios for the facility, and Permit Expiration Date. (If you receive this form with your permit, this information should be pre-populated).
2. Use the tables "Total Nitrogen - Pounds" and "Total Phosphorus - Pounds" to report all credits that you wish to apply for permit compliance and all credits sold. You do not need to apply credits that you purchased during the month toward permit compliance, but if you choose to do so, report the number you wish to apply in this table. Any remaining credits that you purchase can be applied another month or during the Truing Period (Oct 1 - Nov 28). List the registry number, contract effective date and DEP approval date for all credits applied or sold during the month. Divide the Credits Applied and Credits Sold by the TN and TP Delivery Ratios for your facility.
3. Use the tables "Total Nitrogen - Offsets" and "Total Phosphorus - Offsets" to report all offsets for the month. For septage (only septage, not holding tank or other hauled in wastes), divide the total gallons of septage received by 1,000 and multiply by 3 to determine the total amount (lbs) of offsets to report in the Total Nitrogen - Offsets table. For all other offsets, list the source, approved amount and DEP approval date.
4. Report the Monthly Total and Monthly Net Nitrogen Loads (lbs) and Monthly Total and Monthly Net Phosphorus Loads (lbs) below the respective tables.
5. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

INSTRUCTIONS FOR COMPLETING DMR SUPPLEMENTAL REPORTS

ANNUAL NUTRIENT SUMMARY REPORT

Use this form to document annual loads where the permit requires monitoring and reporting of annual loads for Total Phosphorus and Total Nitrogen.

1. Enter Facility Name, Municipality, County, Watershed No., Compliance Year (e.g., 10/1/09 to 9/30/10), NPDES Permit No., Outfall No., the Total Nitrogen (TN) and Total Phosphorus (TP) credits purchased during the year, the Delivery Ratios for the facility for TN and TP, and Permit Expiration Date. (If you receive this form with your permit, this information should be pre-populated).
2. For each month, enter the Monthly Total Mass Loads (Actual Loads Discharged), Credits Sold / Delivery Ratios for TN and TP, Credits Applied / Delivery Ratios for TN and TP, Offsets, and Monthly Net Mass Loads, as reported on Monthly Nitrogen and Phosphorus Budget worksheets submitted throughout the year. Credits Sold / Delivery Ratios and Credits Applied / Delivery Ratios recorded in the table for TN and TP should match the values recorded on the Monthly Nitrogen Budget and Monthly Phosphorus Budget Forms (3800-FM-WSFR0445 and 3800-FM-WSFR0446, respectively).
3. If there were credits sold or purchased during the Truing Period (Oct 1 - Nov 28), divide the amount of credits sold or purchased by the Delivery Ratios for the facility and report these values in the columns next to "Truing Period Adjustments." Complete Nitrogen and Phosphorus Budget worksheets to report the registry numbers, contract effective dates, amounts, and DEP approval dates for all credits purchased or sold during the Truing Period, and include these forms with your submission. The Annual Net Mass Loads are to be used for permit compliance (if a limit is in your permit).
4. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

HAULED IN RESIDUAL WASTES REPORT

Use this form to document receipt of residual wastes at your treatment facility (e.g., food processing waste, landfill leachate, oil and gas wastewaters). Municipal wastes such as sewage sludge and septage should be documented on the Hauled in Municipal Wastes Supplemental Report (3800-FM-WSFR0437).

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
2. Enter the date for each day in which the facility receives residual wastes. If wastewater is received from more than one generator on the same day, repeat the date in a separate row.
3. Report the total volume received each day from each generator (source), in whole gallons.
4. Report the license plate number of the vehicle hauling the wastewater to the treatment facility. If more than one vehicle is used by a generator, report the date and total volume hauled by each vehicle daily (use separate rows as necessary).
5. For oil and gas wastewaters, enter the permit number of the well from which the wastewater was generated. For other wastewaters, this column may remain blank.
6. Report the source of each load of residual waste, including the generator name, address, and state. For oil and gas wastewaters, report the location of the well(s) generating the wastewater.

**INSTRUCTIONS FOR COMPLETING
DMR SUPPLEMENTAL REPORTS**

7. Enter Wastewater Type, typically frac water, drilling fluids or production water for oil and gas wastewaters, or other types such as food processing waste or leachate.
8. If the wastewater has been analyzed and reported on a Residual Waste Form 26R, or a separate waste characterization using the parameters from Form 26R, enter "Yes" under the column "Chemical Analysis", otherwise enter "No".
9. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

**ANNUAL INSPECTION FORM
FOR NPDES PERMITS FOR DISCHARGES OF
STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES**

<p>1. Date of Inspection _____</p> <p>3. NPDES Permit # <u>PA0044113</u></p>	<p>2. Facility Owner/Operator Name and Address: <u>South Middleton Township Municipal Authority</u> <u>PO Box 8</u> <u>Boiling Springs, PA 17007-0008</u> Tel: <u>(717) 258-6476</u> Fax: <u>(717) 258-3599</u></p>
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4. Facility Address and Location

Street 345 Criswell Drive, Boiling Springs, PA 17007-0008

Municipality South Middleton Township County Cumberland

VISUAL INSPECTION

Provide the following information for the storm event

5. Duration _____

6. Estimation of rainfall (in inches) † _____

† The annual inspection should be conducted after a storm event that is greater than 0.1 inches in magnitude and that occurred at least 72 hours from the previous 0.1 inch storm event.

7. Estimate the time between the previous rain event _____

8. Estimate the total volume (in gallons) for each outfall and report it in Item 9.
 Volume = C x I x A,
 where C is the runoff coefficient (i.e., 0.9 for paved and 0.5 for unpaved)
 I is the rainfall amount (in ft), and
 A is the area (square feet) drained to the outfall inspected
 (convert from cubic feet to gallons by multiplying by 7.481).

9. Estimate the size of the drainage area (in square feet) for each outfall.

Outfall #	Drainage Area	% Paved	% Unpaved	Volume in gallons

Complete the following information for each outfall inspected (items 10 through 15)

VISUAL INSPECTION OF OUTFALL NUMBER

10. Description of area(s) that drains to outfall. _____

11. Description of stormwater management practices, erosion and sedimentation control practices, and other structural control measures that are in place to control pollutants from running off-site.

12. Is there visible flow from the pipe? Yes No (Go to number 14) Pipe Dia. (inches) _____
 a. ODOR: Chemical Musty Sewage Rotten Eggs Other _____
 b. COLOR: Clear Red Yellow Brown Other _____
 c. CLARITY: Clear Cloudy Opaque Suspended Solids Other _____
 d. FLOATABLES: Suds Oily Film Garbage Sewage Other _____
 e. DEPOSITS/STAINS: None Oily Sediment Other _____
 f. VEGETATION: None Normal Excessive Inhibited Other _____

13. Is there standing water present? Yes No (Go to number 16)
 a. ODOR: Chemical Musty Sewage Rotten Eggs Other _____
 b. COLOR: Clear Red Yellow Brown Other _____
 c. CLARITY: Clear Cloudy Opaque Suspended Solids Other _____
 d. FLOATABLES: Suds Oily Film Garbage Sewage Other _____
 e. DEPOSITS/STAINS: None Oily Sediment Other _____
 f. VEGETATION: None Normal Excessive Inhibited Other _____

14. Is there any evidence of or potential for any pollutant being discharged at this outfall? Yes No
 Describe: _____

 If yes, identify substances present in the sediment (if possible). _____

15. Description of corrective measures taken or planned to remove sediments or debris if found during inspection. Please provide a schedule if actions are planned.

COMPREHENSIVE SITE COMPLIANCE EVALUATION

16. Do drainage maps reflect current conditions? Yes No

If no, provide your comments.

Comments: _____

17. Based on review of PPC Plan (including Housekeeping Measures), are any changes, corrections or updates necessary? Yes No

If yes, provide your comments.

Comments: _____

18. Have you inspected all structural stormwater controls used to implement the PPC Plan to determine if they are adequate? Yes No

If no, provide your comments.

Comments: _____

19. Have you inspected the entire site to determine if erosion and sedimentation control measures are adequate? Yes No

If no, provide your comments.

Comments: _____

20. Summarize corrective actions/measures completed or planned to correct any deficiencies found as a result of the inspection. Please provide a schedule if actions are planned.

21. Signature of Inspector

Name of Inspector: _____

Date Report Prepared: _____

Signature of Inspector: _____

22. Signature of Owner/Operator of Facility

Name/Title Principal Executive Officer

Signature

Date

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 Pa. C.S. §4904 (relating to unsworn falsification).



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

**ANNUAL INSPECTION FORM
FOR NPDES PERMITS FOR DISCHARGES OF
STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES**

Who May Use This Form

This form is to be used by all PAG-03 permit holders to comply with the (1) annual inspection requirement in Section A.2.b.(1) concerning Appendix J facilities, and (2) Comprehensive Site Compliance Evaluation and Record Keeping requirement in Section C.3.c. of the General Permit. This form may also be used for facilities with individual NPDES permits.

Completing the Form

One form must be completed for each facility or site. Please address all applicable questions and provide documentation to support the responses.

Permittees required to comply with Appendix J of the General Permit are eligible to conduct an Annual Inspection in lieu of monitoring. The Annual Inspection shall include visual inspection of all outfalls and a Comprehensive Site Compliance Evaluation. Complete items 10 through 15 for each outfall inspected. Where possible, visual inspection shall identify substances present in the sediment. The Annual Inspection/Certification must identify area(s) contributing pollutant(s) to stormwater discharge(s) and evaluate whether measures to reduce pollutant loadings identified in the PPC Plan are adequate and properly implemented in accordance with terms of the General Permit or whether additional control measures are necessary. Any deficiencies found during the inspection are to be corrected promptly in accordance with Part C.3.c.(2) of the General Permit.

Permittees that need to comply with requirements other than Appendix J of the General Permit must use this form to comply with Comprehensive Site Evaluation and Recordkeeping requirement of the General Permit.

Where to File This Form

When an annual inspection is conducted in lieu of monitoring, the permittee shall submit a completed and signed Annual Inspection Form, postmarked no later than 28 days after completion of the inspection to the appropriate DEP regional office. All other permittees shall retain the completed and signed form as part of the PPC Plan.