

WATER QUALITY MANAGEMENT  
 PERMIT

A. PERMITTEE (Name and Address):  Metal Township Municipal Authority 17001 Fannettsburg Road E PO Box 232 Fannettsburg, PA 17221-9774	CLIENT ID#: <b>91970</b>	B. PROJECT/FACILITY (Name):  Metal Township STP
C. LOCATION (Municipality, County):  Metal Township, Franklin County	SITE ID#: <b>459406</b>	
D. This (permit/amendment) approves the (operation) of sewage facilities consisting of:  A Biolac Extended Aeration sewage treatment plant with seasonal spray irrigation or stream discharge.		
Pump Stations: <b>2</b>  Design Capacity: <b>80</b> GPM and <b>139</b> GPM  Groundwater Monitoring Wells: <b>6</b>	Manure Storage:  Volume: _____ MG  Freeboard: _____ inches	Sewage Treatment Facility:  Annual Average Flow: <b>0.04</b> MGD  Design Hydraulic Capacity: <b>0.044</b> MGD  Design Organic Capacity: <b>81</b> lbs/day
E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:		
1. <b>Amendments:</b> All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated <b>December 13, 2022</b> and its supporting documentation which are hereby made a part of this amendment.  Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. <b>2898401, 2898401 01-1, 2898401 06-1, and 2898401 A-3</b> dated <b>09/03/1998, 4/27/2001, 10/25/2006, and 06/29/2018 respectively</b> shall remain in effect.		
2. Permit Conditions Relating to Sewerage are attached and made part of this permit. 3. Special Conditions <b>A</b> are attached and made part of this permit.		
F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:		
1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply. 2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit. 3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 et seq. Issuance of this permit shall not relieve the permittee of any responsibility under any other law. 4. This permit shall expire on <b>05/31/2029</b> . The permittee shall submit an application to renew the permit no later than 180 days prior to the permit expiration date.		
PERMIT ISSUED:  _____ October 1, 2025		BY: <b>Maria D. Bebenek</b> <u>Maria D. Bebenek, P.E.</u> TITLE: <b>Clean Water Program Manager</b> <b>Southcentral Regional Office</b>

## PERMIT CONDITIONS RELATING TO SEWERAGE

For use in Water Quality Management Permits

(Check boxes that apply)

### General

- 1. The Department of Environmental Protection (DEP) considers the licensed Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
- 2. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
- 3. The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
- 4. The approval is specifically made contingent on 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 in, along or across private property with full rights of ingress, egress and regress.
- 5. When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
- 6. The approval of the plans, and the authority granted in this permit, if not specifically extended, shall cease and be null and void 5 years from the issuance date of this permit unless construction or modification of the facilities covered by this permit has begun on or before the fifth anniversary of the permit date.
- 7. If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
- 8. If, after the issuance of this permit, DEP approves a municipal sewage facilities official plan or an amendment to an official plan under Act 537 (Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended) in which sewage from the herein approved facilities will be treated and disposed of at other planned facilities, the permittee shall, upon notification from the municipality or DEP, provide for the conveyance of its sewage to the planned facilities, abandon use and decommission the herein approved facilities including the proper disposal of solids, and notify DEP accordingly. The permittee shall adhere to schedules in the approved official plan, amendments to the plan, or other agreements between the permittee and municipality. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
- 9. This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
- 10. This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
- 11. The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in the NPDES Permit and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.

### Construction

- 12. This permit is issued under the authorization of The Clean Streams Law and 25 Pa. Code Chapter 91. The permittee shall obtain all necessary permits, approvals and/or registrations under 25 Pa. Code Chapters 102, 105 and 106 prior to commencing construction of the facilities authorized by this permit, as applicable. The permittee should contact the DEP office that issued this permit if there are any questions concerning the applicability of additional permits.

- 13. The facilities shall be constructed under the supervision of a Pennsylvania licensed Professional Engineer in accordance with the approved reports, plans and specifications.
- 14. A Pennsylvania licensed Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using the "Post Construction Certification" form (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. As-built drawings, photographs (if available) and a description of all deviations from the application and design plans must be submitted to DEP within 30 days of certification.
- 15. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
- 16. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used.

#### **Operation and Maintenance**

- 17. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
- 18. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
- 19. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers.
- 20. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
- 21. The sewerage facilities shall be properly operated and maintained to perform as designed.
- 22. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
- 23. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, et seq. shall operate the sewage treatment plant.
- 24. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system.
- 25. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.
- 26. All connections to the approved sanitary sewers must be in accordance with the official Act 537 Plan and, if applicable, a corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
- 27. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

**SPECIAL CONDITIONS**

Water Quality Management Permit No. 2898401 A-4

Metal Township Municipal Authority

**A. Land Application and Treatment**

1. The herein approved treatment facilities shall produce an effluent with the following limits prior to any wastewater/water mix:

Parameter	Monthly Average (mg/l)	Instantaneous Maximum	Measurement Frequency	Sample Type
Flow (mgd)		Shall be monitored.	Continuous	Measured
CBOD <sub>5</sub>	10	20	1/week	Grab
Total Suspended Solids	5	20	1/week	Grab
pH		6 - 9 S.U. at all times	1/day	Grab
Fecal Coliform	1	14/100 ml	1/week	Grab
NH <sub>3</sub> -N	Monitor and Report	Monitor and Report	2/month	Grab
NO <sub>2</sub> -NO <sub>3</sub> -N	Monitor and Report	Monitor and Report	2/month	Grab
TKN	Monitor and Report	Monitor and Report	2/month	Grab
Total Phosphorus	Monitor and Report	Monitor and Report	2/month	Grab

The results of all sampling activities are to be listed on a Supplemental Report form supplied by the Department and submitted to this office on a monthly basis.

2. The groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-9) shall be sampled on a quarterly basis for the following parameters:

CBOD <sub>5</sub>	NH <sub>3</sub> -N
Chlorides	pH
Fecal Coliform	Total Dissolved Solids
Kjeldahl-N	

The results of the above analysis shall be submitted to the Department for review within 45 days of the sample date.

3. All wells must be purged prior to sampling.
4. Spraying of effluent shall be rotated to ensure even coverage of the spray field site.
5. Effluent shall be sprayed evenly over the entire site at a rate not to exceed 0.675 inch/acre/week (18,329 gallons/acre/week) at a rate of 0.2 inches/hour.
6. Effluent shall not be sprayed during the following adverse weather conditions:
  - a. More than 0.5 inches of precipitation have occurred in the previous 24-hour period.
  - b. Soil temperature one-inch below soil surface falls below 40 degrees Fahrenheit.
  - c. Sustained wind velocity exceeding 15 mph.
  - d. Precipitation is falling.
  - e. Ground surface is saturated, frozen, or snow covered.

7. The spraying of effluent shall be managed to prevent ponding, run-off, or wind drift to effluent from the permitted area.
8. When the spray field is in operation, the operator shall inspect the site on a routine basis to assure proper operation of the spray field. Any inoperable or malfunctioning sprinkler heads or leaks in the supply lines shall be repaired immediately.
9. The area surrounding each sprinkler head shall be kept clear of vegetation obstructing the water stream from the nozzles for a minimum radius of five (5) feet.
10. Unless otherwise approved by the Department in writing, the spray field shall remain vegetated at all times.
11. A crop management plan shall be developed to address crop planting, fertilization, maintenance, and harvesting. This plan, along with the current Agricultural Erosion and Sedimentation Control Plan, shall be submitted within 60 days of permit issuance.
12. A crop shall be harvested annually from the spray field and the yield per acre shall be reported to the Department in January DMR of the following year.
13. Biosolids from the WWTP may be applied to the spray field in accordance with permit PAG-08-3580 and the agronomic loading rate for the crop(s) grown on the site.
14. The permittee shall keep records of the spray field operation including the date of wastewater application, the amount of effluent spray irrigated per day, which zone has been sprayed, weather conditions, the duration of application, the condition of spray field, the amount of snow on the spray field and the rainfall depth that occurred each day. Copies of these records shall be attached to the Monthly Discharge Monitoring Report for the months in which spray irrigation has occurred.
15. Five years from the date of issuance of this permit, and each subsequent five-year period, the facility shall submit a report to the Department summarizing the effectiveness of the spray field. The report shall include summary reports providing annual nitrogen, hydraulic loading rates, groundwater quality data from quarterly events, groundwater elevation data and maps, and a narrative discussion including tables and maps. The narrative report shall evaluate the overall operation of the system demonstrating its effectiveness. If modification to the operation is proposed, details must be submitted in the report. This analysis should be completed by a Licensed Professional Geologist or Professional Engineer trained to complete such assessments.
16. The permittee shall comply with all other permit conditions specified in Part C.II.F of the current NPDES Permit no. PA0088668.
17. The permittee shall submit a WQM Permit application along with the NPDES Permit Renewal application to renew the permit no later than 180 days prior to the permit expiration date. This application package shall include the 5-year report specified in Condition no. 15 of this Special Conditions.