

## WATER QUALITY MANAGEMENT PERMIT

<b>A. PERMITTEE (Name and Address):</b> <b>Youngstown YMCA</b> <b>17 North Champion Street</b> <b>Youngstown, OH 44503-1602</b>	<b>CLIENT ID#:</b> <b>64945</b>	<b>B. PROJECT/FACILITY (Name):</b> <b>Camp Fitch</b>
<b>C. LOCATION (Municipality, County):</b> <b>Springfield Township, Erie County</b>		<b>SITE ID#:</b> <b>254839</b>
<b>D. This permit approves the operation of sewage facilities consisting of:</b> <b>A comminutor with a bypass bar screen, (3) 8,000 gallon equalization tanks, (3) extended aeration tanks with coarse bubble diffusers, (2) final clarifiers, a 5,000 gallon sludge holding tank, (2) 36-square foot fixed media up-flow filters, and effluent pumping to a subsurface absorption field.</b>  <b>The absorption field consists of (24) 840-square foot beds. The beds are arranged into four absorption zones (6 beds/zone - 5,040 square feet of absorption area per zone). Pressure dosing of these zones is controlled by PLC that monitors the status of the pumps and control valves. Each zone is designed to be dosed twice daily. Total absorption area to be provided is 20,134 square feet.</b>		
<b>Pump Stations:</b> <b>N/A</b> <b>Design Capacity:</b> <b>N/A</b> GPM	<b>Manure Storage:</b> <b>Volume:</b> <b>N/A</b> MG <b>Freeboard:</b> <b>N/A</b> inches	<b>Sewage Treatment Facility:</b> <b>Annual Average Flow:</b> <b>0.01692</b> MGD <b>Design Hydraulic Capacity:</b> <b>0.01692</b> MGD <b>Design Organic Capacity:</b> <b>44.0</b> lbs/day
<b>E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:</b> <ol style="list-style-type: none"> <li>1. <b>New Permits:</b> All construction, operations and procedures shall be in accordance with the Water Quality Management Permit application dated <b>March 6, 2024</b>, its supporting documentation and addendums dated <b>N/A</b>, which are hereby made a part of this permit.            Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. <b>2513402</b> dated <b>September 12, 2019</b> shall remain in effect.</li> <li>2. Permit Conditions Relating to Sewerage are attached and made part of this permit.</li> <li>3. Special Conditions <b>A, B, and C</b> are attached and made part of this permit.</li> </ol>		
<b>F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:</b> <ol style="list-style-type: none"> <li>1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply.</li> <li>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.</li> <li>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.</li> <li>4. This permit shall expire on <b>October 31, 2029</b>. The permittee shall submit an application to renew the permit no later than 180 days prior to the permit expiration date.</li> </ol>		
<b>PERMIT ISSUED:</b> _____ <b>BY:</b> _____ <b>Justin C. Dickey</b>  <b>November 1, 2024</b> _____ <b>TITLE:</b> _____ <b>Justin C. Dickey, P.E.</b> <b>Clean Water Program Manager</b> <b>Northwest Regional Office</b>		



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

## 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. 2513402

Youngstown YMCA

**A. Subsurface Disposal and Treatment**

1. The effluent from the treatment facility, sampled from the absorption area dosing tank, shall not exceed the following limitations:

Parameter	Monthly Average (mg/l)	Maximum Daily (mg/l)	Monitoring Frequency	Sample Type
Flow (mgd)	The maximum daily flow sent to the onlot disposal area shall be monitored and reported monthly*		Continuous	Estimated
CBOD <sub>5</sub>	25.0	50.0	1/month	Grab
Total Suspended Solids	30.0	60.0	1/month	Grab
Total Nitrogen as N	Monitor & Report	Monitor & Report	1/month	Estimate
NO <sub>3</sub> -N + NO <sub>2</sub> -N as N	Monitor & Report	Monitor & Report	1/month	Grab
TKN as N	Monitor & Report	Monitor & Report	1/month	Grab
NH <sub>3</sub> -N as N	Monitor & Report	Monitor & Report	1/month	Grab
pH	Minimum 6.0	Maximum 9.0	1/month	Grab

\* - 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.

2. The results of all sampling analyses are to be indicated on the Monitoring Report forms provided by the Department. These monitoring forms and any other reports that are required shall be submitted to the following address within 28 days after the end of each monthly report period:

DEP - Water Management Program  
 Northwest Regional Office  
 230 Chestnut Street  
 Meadville, PA 16335

Erie County Health Department  
 606 West Second Street  
 Erie, PA 16507

3. The groundwater monitoring wells, MW-1, MW-2, and MW-3, shall be sampled on an annual basis for the following parameters, if a sample is able to be collected during that year:

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. If no samples were able to be collected, the permittee should indicate that on the monitoring report.

4. All wells must be purged prior to sampling as per the approved sampling plan dated April 8, 2014.

- B. The Total Nitrogen (expressed as N) content of an aqueous sample is determined by adding the individual analytical results (expressed as N) for Total Kjeldahl Nitrogen, Nitrite-Nitrogen, and Nitrate-Nitrogen. Total Kjeldahl Nitrogen is the sum of Organic Nitrogen and Ammonia Nitrogen as determined by the Kjeldahl method.

C. Right of Entry

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

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