



## WATER QUALITY MANAGEMENT PERMIT

<p>A. PERMITTEE (Name and Address): <span style="float: right;">CLIENT ID#: <b>330491</b></span>  <b>Vitro Flat Glass LLC</b>  <b>400 Park Drive</b>  <b>Carlisle, PA 17015-9271</b></p>	<p>B. PROJECT/FACILITY (Name):  <b>Vitro Flat Glass Manufacturing Plant</b></p>	
<p>C. LOCATION (Municipality, County): <span style="float: right;">SITE ID#: <b>248363</b></span>  <b>South Middleton Township, Cumberland County</b></p>		
<p>D. This (permit/amendment) approves the (operation) of industrial wastewater facilities consisting of:  <b>Industrial Wastewater Treatment System including an equalization basin and infiltration gallery.</b></p>		
<p>Pump Stations: _____                  Design Capacity: _____ GPM</p>	<p>Manure Storage:                  Volume: _____ MG                  Freeboard: _____ inches</p>	<p>Industrial Wastewater Treatment Facility:                  Annual Average Flow: _____ MGD                  Design Hydraulic Capacity: _____ MGD                  Design Organic Capacity: _____ lb/day</p>
<p>E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>1. <b>Amendments:</b> All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated <u>N/A</u> and its supporting documentation and addendums dated <u>N/A</u>, 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. <u>2172204, 2172204-1, 2172204 Amendment No. 2, and 2172204 Amendment No. 3</u> dated <u>February 7, 1973, October 22, 1999, July 19, 2000, and September 14, 2017 respectively</u> shall remain in effect.</li> <li>2. Permit Conditions Relating to Industrial Wastewater are attached and made part of this permit.</li> <li>3. Special Conditions numbered <u>A-E</u> are attached and made part of this permit.</li> </ol>		
<p>F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:</p> <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> </ol>		
<p>PERMIT ISSUED:  <u>7/6/20</u></p>	<p>BY: <u>/s/</u>  <b>Maria D. Bebenek, P.E.</b>                  TITLE: <b>Clean Water Program Manager</b>  <b>Southcentral Regional Office</b></p>	



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

**PERMIT CONDITIONS RELATING TO INDUSTRIAL WASTEWATER**

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. All relevant and non-superseded conditions of any prior Water Quality Management Permits, decrees or orders issued to the permittee or his predecessor shall be continued in full force and effect and together with the provisions of this permit shall apply to his successors, lessees, heirs and assigns.
- 3. The responsibility for implementing the conditions of this permit shall rest upon the owner, lessee, assignee or other party in responsible managerial charge of the operation producing the wastewaters and waste treatment facilities. Transfer of a permit to a new owner shall not be effective until said transfer has been executed and filed on forms provided by DEP and DEP approved the transfer.
- 4. The permittee shall secure any necessary permission from the proper federal authority for any outfall or industrial waste treatment structure which discharges into or enters navigable waters and shall obtain a separate permit for any stream crossing, encroachment or change of natural stream conditions within the jurisdiction of DEP.
- 5. When construction of the approved 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. 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.
- 8. Nothing herein shall be construed to be an intent on the part of DEP to approve any present or future act by the permittee, inconsistent with the permittee's lawful powers or with existing laws of this Commonwealth regulating industrial wastes and the practice of professional engineering. This permit shall not be construed to sanction any act otherwise forbidden by any of the laws of the Commonwealth of Pennsylvania or of the United States.

**Construction**

- 9. 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.
- 10. The facilities shall be constructed under expert engineering supervision and competent inspection, in accordance with plans, designs and other data as herein approved or amended and with the conditions of this permit.
- 11. 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.

- 12. The DEP office that issued this permit must be contacted during construction if significant changes are proposed to the approved facilities. Significant changes include, but are not limited to changes to the type(s) of process(es) used for treatment and changes to the design capacities of tanks, impoundments, and conveyance structures or equipment by more than 5% of the original design. For projects involving PENNVEST funding, all changes should be discussed with the DEP project manager prior to implementation. DEP may require the submission of an application to amend this permit. All changes shall be documented in an attachment to the Post Construction Certification form.
- 13. 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 local Waterways Conservation Officer must be notified when explosives are to be used.

**Operation and Maintenance**

- 14. If at any time the industrial waste treatment facility, or the discharge of the effluent creates a public nuisance, or such discharge is causing or contributing to pollution of the waters of this Commonwealth, the permittee shall immediately adopt remedial measures acceptable to DEP.
- 15. 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.
- 16. To ensure operational efficiency and protect the waters of this Commonwealth, the permittee shall maintain skilled operators at all times.
- 17. No stormwater, sewage or other industrial wastes not specifically approved herein shall be admitted to the facilities for which this permit is issued.
- 18. These industrial waste treatment facilities shall be operated and maintained to perform as designed. In order to ensure the efficiency and proper maintenance of the treatment facilities, the permittee shall make periodic inspections to detect any impairment of structural stability, adequate capacity or other requisites which might impair the effectiveness of the approved facilities.
- 19. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 287, 288, 291, 297 and 299 (related to permits and requirements for land filling, land application, incineration and storage of industrial sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



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

**SPECIAL CONDITIONS**  
Water Quality Management Permit No. 2172204 A-4  
Vitro Flat Glass LLC

- A. The effluent discharged to the infiltration gallery shall not be acid and shall have a pH of not less than 6.0 nor greater than 9.0.
- B. All bio-degradable wastes shall be given a minimum of secondary treatment or its equivalent for industrial wastes. Secondary treatment is that treatment which shall accomplish the following:
  - 1. Reduce the organic wasteload as measured by the biochemical oxygen demand test by at least 85% during the period May 1 to October 31 and by at least 75% during the remainder of the year based on a five consecutive day average of values.
  - 2. Remove practically all of the suspended solids.
  - 3. Provide effective disinfection to control disease-producing organisms.
  - 4. Provide satisfactory disposal of sludge.
  - 5. Reduce the quantities of oils, greases, acids, alkalis, toxic, taste, and odor-producing substances, color, and other substances inimical to the public interest to levels which shall not pollute the waters of the Commonwealth.

An equivalent of the treatment prescribed above shall be required for non-biodegradable wastes.

- C. All monitoring wells shall be sampled quarterly and the samples shall be analyzed for the following parameters:

<i>pH</i>	<i>Specific Conductance</i>
<i>BOD<sub>5</sub></i>	<i>COD</i>
<i>Total Solids</i>	<i>Total Dissolved Solids</i>
<i>Oil and Grease</i>	<i>Ammonia-Nitrogen</i>
<i>Nitrate as N</i>	<i>Total Kjeldahl Nitrogen</i>
<i>Total Phosphorus</i>	<i>Alkalinity, Total</i>
<i>Fluoride, Total</i>	<i>Iron, Dissolved</i>
<i>Iron, Total</i>	<i>Sulfate, Total</i>
<i>Chloride</i>	<i>Total Organic Carbon</i>

- D. The results of all sampling activities are to be listed on the monitoring report forms supplied by the Department as submitted to this office within 28 days after the end of each quarterly report period. The monitoring report forms shall be submitted to the following address:

Department of Environmental Protection  
Clean Water Program  
909 Elmerton Avenue  
Harrisburg, PA 17110

- E. The permittee shall develop and implement operation and maintenance procedures and other necessary management practices for the existing underground disposal treatment system. This underground disposal treatment system as well as the existing lined impoundment must be operated and maintained properly at all times to provide an adequate treatment to ensure the protection of groundwater. Any records and/or written operation and maintenance plan of the underground disposal treatment system must be kept on-site and be made available to DEP upon request.

- F. 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 the industrial wastewater treatment system in, along or across private property with full rights of ingress, egress and regress