

WATER QUALITY MANAGEMENT PERMIT

A. PERMITTEE (Name and Address): Keystone Profiles, Ltd. 220 7th Avenue Beaver Falls, PA 15010-3274	CLIENT ID#: 213328 B. PROJECT/FACILITY (Name): Keystone Profiles, Ltd. Beaver Falls Plant	
C. LOCATION (Municipality, County): Beaver Falls City, Beaver County		
D. This amendment approves the modification of industrial wastewater facilities consisting of: <ul style="list-style-type: none"> ➤ Replacement of vacuum drum dewatering system with sludge filter press The sludge is pumped from the bottom of the clarifier into the filter press via McMaster-Carr 9948K13 air-powered double diaphragm pumps with a maximum flow rate of 150 gpm (one working and one on standby). The filter press pushes the sludge/water combination through 36 filter plates to filter the water out of the sludge. In the current operation, an 11 ft³ filter press with 630 mm x 630 mm plate size, 32 mm filter. ➤ Addressing discrepancies between historic facility operation versus current facility operation The general sequence of treatment units is now the equalization tank, the neutralization tank, the flocculation tank, the clarifier, and the sludge filter press. The existing clarifier is 18 ft in diameter with 7.5 ft side water depth and 1.5 ft free board. The bottom of the clarifier has a 17-degree slope (12-inch horizontal to 3/4-inch vertical). The hydraulic loading rate (HLR) of the clarifier at the current average flow of 7,000 gallons per day and maximum flow rate of 20,000 gallons per day are 0.019 gpm/sf and 0.055 gpm/sf. The existing clarifier does not have a flocculator, nor does it have a rake system. The settled solids slide down to the center of the clarifier, where sludge is removed from the clarifier by filter press feed pumps. 		
Pump Stations: _____ Design Capacity: _____ GPM	Manure Storage: Volume: _____ MG Freeboard: _____ inches	Industrial Wastewater Treatment Facility: Annual Average Flow: 0.007 MGD Design Hydraulic Capacity: 0.02 MGD Design Organic Capacity: N/A lb/day
E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING: <ol style="list-style-type: none"> 1. Amendments: All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated October 9, 2025 and its supporting documentation and addendums dated November 14, 2025 and April 30, 2026, 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. 0470204, 0470204 T-1, 0470204 T-2, and 0470204 T-3 dated June 3, 1970, April 4, 1996, March 8, 2000, and September 14, 2004 shall remain in effect. 2. Permit Conditions Relating to Industrial Wastewater are attached and made part of this permit. 3. Special Conditions A-H are attached and made part of this permit. 		
F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS: <ol style="list-style-type: none"> 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. 		
PERMIT ISSUED: June 5, 2026	BY: <i>Kevin Halloran</i> TITLE: Kevin Halloran Clean Water Program Manager Southwest Regional Office	



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.



**WATER QUALITY MANAGEMENT
 POST CONSTRUCTION CERTIFICATION**

PERMITTEE IDENTIFIER

Permittee	Keystone Profiles, Ltd.
Municipality	Beaver Falls City
County	Beaver
WQM Permit No.	<u>0470204</u>
Facility Type	Industrial Waste

All of the above information should be taken directly from the Water Quality Management Permit.

CERTIFICATION

This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.

I, being a Registered Professional Engineer in Pennsylvania, do hereby certify to the best of my knowledge and belief, based upon personal observation and interviews, that the above facility approved under the Water Quality Management Permit has been constructed in accordance with the plans, specifications and modifications approved by DEP.

Construction Completion Date (MM/DD/YYYY): _____

<p>Engineer's Seal</p>	Professional Engineer
	Name _____ (Please Print or Type)
	Signature _____
	Date _____
	License Expiration Date _____
	Firm or Agency _____
	Telephone _____
	Permittee or Authorized Representative
	Name _____ (Please Print or Type)
	Signature _____
	Title _____
	Telephone _____

SPECIAL CONDITIONS FOR PART II PERMIT

These plans are hereby approved subject, nevertheless, to the condition that the waste treatment plant constructed under said plans will produce an effluent satisfactory to the Sanitary Water Board. By this approval, neither the Board nor the Commonwealth of Pennsylvania assumes any responsibility for the feasibility of the plans or the efficiency of the operation of the plant to be constructed thereunder.

This permit is issued subject to all Sanitary Water Board Rules and Regulations now in force, and the following Special Conditions:

- A. The effluent discharged to the waters of the Commonwealth shall not be acid, shall have a pH of not less than 6.0 nor greater than 9.0, and shall not contain more than 7.0 mg/L of dissolved iron.
- B. In order to avoid obsolescence of the plans of waste treatment works, the approval of the plans herein granted, if not specifically extended, shall cease and be null and void two years from the date of this permit unless the works covered by said plans shall have been completed and placed in operation on or before that date.
- C. Within six months after the herein approved waste treatment works are constructed and placed in operation, the permittee shall submit to the Secretary of the Sanitary Water Board, Pennsylvania Department of Health, Harrisburg, Pennsylvania evidence of the efficiency and adequacy of such works in treating the waste discharged from this establishment. If the proposed waste treatment works fail to meet the requirements of the Sanitary Water Board for secondary treatment, then the permittee shall immediately proceed with the installation of such provisions as may be necessary to obtain a degree of treatment satisfactory to the Sanitary Water Board, subject to approval by the Board of plans for any major additions to or modifications of the new proposed waste treatment works.

Secondary treatment is that treatment that will reduce the organic waste load 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 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; will remove practically all suspended solids; will provide effective disinfection to control disease producing organisms; will provide satisfactory disposal of sludge; and will reduce the quantities of oil, greases, acids, alkalis, toxic, taste and odor producing substances, color, and other substances inimical to the public interest to levels that will not pollute the receiving stream.

An equivalent of secondary treatment is required for non-biodegradable wastes.

- D. Approval of plans refers to waste treatment and not structural stability, which is assumed to be sound and in accordance with good structural design. Failure, because of faulty structural design or poor construction, of the works herein approved will render the permit void.
- E. Attention is specifically directed to the requirement that settled solids shall not be permitted to accumulate to a depth sufficient to reduce the design capacity of the sedimentation basin and that the settled material shall be removed and disposed of in a manner satisfactory to the Bureau of Sanitary Engineering of the Pennsylvania Department of Health.
- F. No radical changes shall be made in the works herein approved without approval of the Department of Health. Revisions which do not increase the rate of flow or change the quality of the effluent, the treatment processes or the point of discharge, may be approved by the Regional Engineer upon submission of plans. Other revisions require the submission of a new application.
- G. No matter how well designed and carefully constructed a waste treatment works may be, full effectiveness cannot be developed unless it is efficiently operated. In order to secure such efficiency, protect the waters of the Commonwealth, and insure the most effective and economical dosage when chemicals are used, the

permittee is required to place the works under the regular charge of a responsible plant official, and its operation under the control of the designer of the works (or other qualified person approved by the Bureau of Sanitary Engineering) for at least one year after completion. Moreover, upon written notice from the Bureau of Sanitary Engineering, the permittee shall maintain one or more skilled operators regularly on duty for such daily periods as the Bureau may direct.

- H. The discharge of untreated or improperly treated industrial wastes to the waters of the Commonwealth is contrary to the requirements of the Sanitary Water Board. If, because of accidental breakdown of the treatment works or plant equipment or for other reason, any such discharge should occur, then the operation of the mill or process producing such discharge shall be discontinued until repairs to the treatment works or other satisfactory measures to prevent stream pollution shall have been completed.

**PENNSYLVANIA DEPARTMENT OF HEALTH
SANITARY WATER BOARD
STANDARD CONDITIONS RELATING TO INDUSTRIAL WASTES
Effective January 1, 1941**

ONE: All relevant and non-superseded conditions of prior industrial waste permits, decrees, or orders issued to the herein named permittee or his predecessor shall be continued in full force and effect.

TWO: During construction no radical changes shall be made from the plans, designs, and other data herein approved unless the permittee shall first submit each such revision to the Sanitary Water Board and receive written approval thereof.

THREE: The works shall be constructed under expert engineering supervision and competent inspection, and in accordance with the plans, designs, and other data as herein approved or amended, and the conditions of this permit.

FOUR: No storm water from pavements, areaways, roofs, or other sources shall be admitted to the works herein approved, which shall be used exclusively for the treatment of industrial wastes.

FIVE: The outfall sewer or drain shall be extended to low water mark of the receiving body of water in such a manner as to insure the satisfactory dispersion of its effluent thereinto: insofar as practicable it shall have its outlet submerged: and shall be constructed of cast iron, concrete, or other material approved by the Division of Sanitary Engineering; and shall be so protected against the effects of flood water, ice, or other hazards as to reasonably insure its structural stability and freedom from stoppage.

SIX: When the herein approved industrial waste treatment works is constructed and before it is placed in operation, the permittee shall notify the State Department of Health so that an inspection of the works may be made by a representative of the Department.

SEVEN: The various structures and apparatus of the industrial waste treatment works herein approved shall be maintained in proper condition so that they will individually and collectively perform the functions for which they were designed.

EIGHT: The screenings and sludge shall be so handled that a nuisance is not created and shall be disposed of in a sanitary manner to the satisfaction of the Division of Sanitary Engineering or the Department of Health.

NINE: The settled solids shall at no time be permitted to accumulate in the sedimentation basin(s) to a depth greater than one third that of the basin(s) as constructed and the settled material removed shall be handled and disposed of in a manner satisfactory to the Division of Sanitary Engineering of the Department of Health and so that a nuisance is not created.