

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0065170
APS ID 911934
Authorization ID 1209562

Applicant and Facility Information

Applicant Name	<u>Crystal Window and Door Systems PA, LLC</u>	Facility Name	<u>Benton Park STP</u>
Applicant Address	<u>204 Franklin Valley Road</u> <u>Dalton, PA 18414</u>	Facility Address	<u>204 Franklin Valley Road</u> <u>Dalton, PA 18414</u>
Applicant Contact	<u>Raymond Melnikoff</u>	Facility Contact	<u>Raymond Melnikoff</u>
Applicant Phone	<u>570-276-8000</u>	Facility Phone	<u>570-276-8000</u>
Client ID	<u>324171</u>	Site ID	<u>484568</u>
Ch 94 Load Status	<u>-</u>	Municipality	<u>Benton Township</u>
Connection Status	<u>-</u>	County	<u>Lackawanna</u>
Date Application Received	<u>November 30, 2017</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 30, 2017</u>	If No, Reason	
Purpose of Application	<u>Renewal of an existing NPDES permit to discharge up to 0.0315 mgd of treated sewage.</u>		

Summary of Review

The applicant is requesting renewal of NPDES Permit No. PA0065170 to authorize a discharge of up to 0.0315 mgd of treated sewage from a minor sewage treatment plant into an Unnamed Tributary to South Branch Tunkhannock Creek in State Water Plan Watershed 04-F. Per the Department's existing use list, the receiving tributary does not have an existing use classification. The receiving tributary is designated for Cold Water Fishes and Migratory Fish (CWF, MF). South Branch Tunkhannock Creek is classified as a TSF. The discharge is not expected to affect public water supplies. The unnamed tributary was previously impaired for pathogens in the 2014 Pennsylvania Integrated Water Quality Monitoring and Assessment Report, but that designation was removed in the 2018 report.

The facility began treating wastewater in October 2017. Prior to that, the facility used its equalization basin as a holding tank and had the wastewater hauled to another treatment facility. The facility's average flow is well below its 0.0315 mgd design capacity; average monthly flow in 2018 was approximately 0.0022 mgd, which declined to 0.0012 mgd through the first half of 2019.

The applicant is advised to review Part A – Table 1.B. of the 2012-2017 NPDES permit. The permit specified (2) years of sampling requirements for Ammonia-Nitrogen, Total Kjeldahl Nitrogen (TKN), Nitrite-Nitrate as Nitrogen, Total Nitrogen, and Total Phosphorous to gather data for Chesapeake Bay Monitoring Program, because no facility-specific data existed. The requirements remain in the new permit due to insufficient sampling during the existing permit.

TRC limitations in the previously issued permit were old technology-based limitations (1.2 mg/L monthly average, 2.8 mg/L IMAX). Per PA Code 92a.47(a)(8), which references 92a.48(b)(2), a monthly average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L is applied to the permit.

Approve	Deny	Signatures	Date
X		/s/ Joseph Cherinko, E.I.T. / Environmental Engineering Specialist	October 6, 2019
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	October 6, 2019

Summary of Review

Sampling frequencies have been updated in accordance with Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limits. The sampling frequency for pH, Dissolved Oxygen, and Total Residual Chlorine has increased from 1/week to 1/day. The sampling frequency for CBOD5, TSS, and Fecal Coliform has increased from 1/month to 2/month.

The most recent 'Sewage Sludge / Biosolids Production and Disposal' Supplemental Report from June 2019 declared that sludge was hauled by Environmental Services Corp. to the Greater Hazleton Joint Sewer Authority's WWTP.

The WMS query 'Inspections Report' was performed. A Routine/Partial Inspection was performed at the facility on 3/28/2018; no violations were noted. The WMS query 'Open Violations by Client' was performed; no violations were returned.

In April 2016, the NPDES permit was transferred from Greystone Benton I, LP to Crystal Window & Door Systems PA, LLC.

The existing NPDES permit expired on November 30, 2017. The renewal application was not submitted timely.

For historical reference purposes, the following background history was included in the last NPDES renewal's fact sheet:

- The STP was originally permitted under SLIBCO (Scranton Lackawanna Industrial Building Company), then Grumman (owner), then Corning (Operator) under NPDES ID# PA0061484. There was a 5/18/2001 NPDES Permit ID# PA0061484-A2 for a proposed increase in discharge volume to 0.048 MGD (incorporating revised limits including ammonia-N limits), but the then-operator (Corning) subsequently sent in a 10/1/2001 Letter indicating that the plant was shutting down, and that the associated WQM Part II Application for the STP expansion would not be submitted. The former STP NPDES permit (PA0061484) was "cancelled" by the owner (Grumman) in 2003.
- The property and STP was subsequently bought by Greystone Benton, and a new 10/24/2007 NPDES Permit ID# PA0065170 issued for the STP with 0.0315 MGD permit basis limits (except incorporation of Phosphorus limits and two years of Chesapeake Bay monitoring). The warehouse went apparently unused during the 2007 Permit's term.
- The 2012 application indicates that the "Benton Park WWTP" will treat "industrial warehouse wastewater" generated onsite. At present, there are no tenants and no discharge from this facility, but the applicant indicates that they might have a potential tenant

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0315</u>
Latitude	<u>41° 35' 9"</u>	Longitude	<u>-75° 39' 22"</u>
Quad Name	<u>Dalton</u>	Quad Code	<u>0640</u>
Wastewater Description: <u>Treated sewage effluent</u>			
Receiving Waters	<u>Unnamed Tributary to South Branch Tunkhannock Creek</u>	Stream Code	<u>28879</u>
NHD Com ID	<u>66403337</u>	RMI	<u>1.15</u>
Drainage Area	<u>14.2</u>	Yield (cfs/mi ²)	<u>0.021</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.294</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)	<u>1,058</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>04-F</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Supporting</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>-</u>	Name	<u>-</u>
Secondary Waters	<u>South Branch Tunkhannock Creek</u>	Stream Code	<u>28799</u>
NHD Com ID	<u>66403433</u>	RMI	<u>-</u>
Drainage Area	<u>29.1</u>	Yield (cfs/mi ²)	<u>0.031</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.602</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)	<u>1,050</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>04-F</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>-</u>	Special Protection	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>DANVILLE BORO MUNI AUTH, ID# 101934-001</u>		
PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u>196 (StreamStats)</u>
PWS RMI	<u>-</u>	Distance from Outfall (mi)	<u>> 100 miles</u>

Changes Since Last Permit Issuance: The Unnamed Tributary to South Branch Creek was listed as impaired for pathogens in the last permit renewal's fact sheet. According to the 2018 Pennsylvania Integrated Water Quality Monitoring and Assessment Report, the unnamed tributary is no longer impaired, and is listed as Supporting.

Other Comments: Lackawanna State Park Lake is located approximately 3.65 miles downstream from Outfall 001. It is listed as impaired for aquatic life (Nutrients/Low D.O., 2002) and impaired for fish consumption (Mercury, 2016) in the 2018 Pennsylvania Integrated Water Quality Monitoring and Assessment Report.

Treatment Facility Summary				
Treatment Facility Name: Benton Park STP				
WQM Permit No.		Issuance Date		
3587401		2/2/1987		
3587401-T3		4/27/2016		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Calcium Hypochlorite Tablets	0.0022 (2018)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0315	26	Not Overloaded	None	Hauled Offsite

Changes Since Last Permit Issuance:

The NPDES renewal application states that the hydraulic design and permitted capacities of the facility are respectively 0.0477 and 0.0315 mgd. Elsewhere in the application, the hydraulic design capacity is listed as 0.0473 mgd.

The 2012 NPDES renewal fact sheet contains the following information:

“The 2001 NPDES Permit Amendment (increasing previous permit to 0.048 MGD, based on pH of 6.5) would have imposed ammonia-N limits, but no WQM Part II permit (STP expansion) was issued & the STP was never upgraded, with that permit subsequently terminated by then-owner.”

The 2016 WQM permit lists the hydraulic design capacity as 0.0315 mgd. The permit application did not identify upgrades that would have raised the hydraulic design capacity. The applicant is advised to confirm the plant's hydraulic design capacity. The NPDES renewal application was processed assuming a capacity of 0.0315 mgd.

Development of Effluent Limitations

Outfall No. 001
Latitude 41° 35' 9"
Wastewater Description: Sewage Effluent

Design Flow (MGD) .0315
Longitude -75° 39' 22"

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	State Regulation
CBOD ₅	25.0	Average Monthly	92a.47(a)(1)
	50.0	IMAX	92a.47(a)(1)
Total Suspended Solids	30.0	Average Monthly	92a.47(a)(1)
	60.0	Average Weekly	92a.47(a)(1)
pH	6.0 – 9.0 S.U.	Min – Max	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	92a.47(a)(4)
	1,000 / 100 ml	IMAX	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	92a.47(a)(5)
	10,000 / 100 ml	IMAX	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	92a.47-48
	1.6	IMAX	92a.47-48

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	5.0	Minimum	Existing limit supported by 2019 Water Quality Modeling
Ammonia-Nitrogen May 1 – Oct 31	22.3	Average Monthly	Existing limit supported by 2019 Water Quality Modeling
Total Phosphorous	2.0	Average Monthly	Existing limit imposed because of a downstream “Lackawanna State Park Lake” per 8/7/2007 PADEP Biologist (Sherrill Leap) Memo. The Lake continues to be listed as impaired for nutrients per the 2018 Integrated Monitoring and Assessment Report.
	4.0	IMAX	

Comments: As in the existing permit, no winter limit or IMAX for Ammonia-Nitrogen was applied due to summer limit being close to concentrations expected from secondary treatment.