pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0061069**
Facility Type	**Industrial**	APS ID	**582525**
Major / Minor	**Minor**	Authorization ID	**1401674**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**SCHOTT North America, Inc.**	Facility Name	**SCHOTT North America, Inc.**
Applicant Address	400 York Avenue Duryea, PA 18642-2036	Facility Address	400 York Avenue Duryea, PA 18642-2026
Applicant Contact	Thomas McDonald, EHS Manager	Facility Contact	Thomas McDonald, EHS Manager
Applicant Phone	(570) 457-7485	Facility Phone	(570) 457-7485
Client ID	281524	Site ID	256591
SIC Code	3231	Municipality	Duryea Borough
SIC Description	Manufacturing – Glass Products made of Purchased Glass	County	Luzerne
Date Application Received	July 1, 2022	EPA Waived?	Yes
Date Application Accepted	October 13, 2022	If No, Reason	-
Purpose of Application	Renewal of existing permit.		

Summary of Review

The applicant is requesting renewal of their NPDES permit to discharge non-contact cooling (NCCW) and stormwater to the Lackawanna River, a CWF-MF (Cold-water Fishes, Migratory Fishes) designated receiving stream in State Water Plan Basin 5-A (Lackawanna River). All flows from the facility enter the municipal storm sewer system and ultimately is discharged into the Lackawanna River. As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. The discharge is not expected to affect public water supplies.

There are no process wastewaters discharged from the facility and no changes are proposed at the facility.

SCHOTT North American, Inc. manufacturers high quality optical glass and ceramics. This facility is considered a minor IW facility without ELGs. Outfall 001 discharges NCCW from cooling towers and other closed loop cooling waters. Modeling was based on a flow of 0.0146 MGD, which is the same as the two previous permits. The application indicated that the average daily flow during production is 0.0090 MGD and the maximum daily flow during production is 0.0795 MGD. Therefore, the 0.0146 MGD is still appropriate.

Pollutant sampling results submitted with the permit application were entered into the Toxic Management Spreadsheet (TMS). The TMS did not recommend any additional or stricter limitations. The limitations for pH, Total Suspended Solids (TSS), Oil & Grease, and Chloroform have been carried over from the previous permit.

Outfalls 002, 003, 004, and 005 only discharge stormwater. The previous permit listed this facility as categorized by SIC Code 3229 (Manufacturing – Pressed and Blown Glass). The submitted permit application listed this facility as being categorized by SIC Code 3231 (Manufacturing – Glass Products made of Purchased Glass). Both SIC Codes fall under Appendix N monitoring requirements of the PAG-03 General Permit. The PAG-03 General Permit was recently updated; therefore, the monitoring/reporting parameters were updated to be consistent with the PAG-03 updated appendix. Semi-annual monitoring and reporting for Total Nitrogen, Total Phosphorous, pH, Total Suspended Solids (TSS), Total Aluminum,

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Project Manager	July 13, 2023
X		/s/ Amy M. Bellanca, P.E. / Acting Engineer Manager	8-4-23

Summary of Review

and Total Iron are required under the PAG-03. Please note that Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO2+NO3-N), where TKN and NO2+NO3-N are measured in the same sample.

Benchmark values exist for pH and TSS. A benchmark value is the concentration of a pollutant in stormwater discharges that serves as a threshold for the determination of whether existing site BMPs are effective in controlling stormwater pollution. The benchmark values can be found in Part C. III. F. of the permit.

The facility will continue to utilize the following previously approved Chemical Additives in their manufacturing processes: Stabrex ST70 (for microorganism control) and 3D Trasar 3DT247 (for cooling water treatment).

This facility is considered a "non-significant" industrial waste discharger per the Department's Phase 3 Watershed Implementation Plan Wastewater Supplement. As recommended in the "Non-Significant Facilities" section, facilities discharging NCCW should sample for Total Nitrogen and Total Phosphorous. The reporting/monitoring will be carried over from the previous permit.

A final Total Maximum Daily Load (TMDL) exists for the Lackawanna River Watershed. The TMDL addresses metals (iron, manganese, and aluminum) and pH associated with acid mine drainage (AMD). There are no approved Waste Load Allocations (WLA) for this facility. No appreciable quantities of these metals are expected to be present in the effluent.

Stream gage 1536000 (Lackawanna River at Old Forge, PA) was used as a reference gage to develop the low flow yield (LFY) of 0.28 cfs/mi^2, which was used to model the discharge. RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

All monitoring frequencies have been maintained from the previous permit.

The existing permit expired on December 31, 2022 and the application for renewal was received on time.

A Water Management System Inspection query indicated that on June 24, 2021 a Compliance Evaluation was performed.

There are no open violations for this client that warrant withholding issuance of this permit.

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.	001 - 005	Design Flow (MGD)	0.0146
Latitude	41º 21' 17.68"	Longitude	-75º 45' 24.24"
Quad Name	Birdsboro	Quad Code	1639
Wastewater Description:	IW Process Effluent without ELG, Noncontact Cooling Water (NCCW), Stormwater		

Receiving Waters	Lackawanna River (CWF)	Stream Code	28374
NHD Com ID	65631367	RMI	-
Drainage Area	~ 344 mi^2	Yield (cfs/mi^2)	0.28
Q_{7-10} Flow (cfs)	93.9	Q_{7-10} Basis	USGS Stream Gage 01536000
Elevation (ft)	550.8	Slope (ft/ft)	-
Watershed No.	5-A	Chapter 93 Class.	CWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, FLOW REGIME MODIFICATION, METALS, METALS, PH, PH, SILTATION, SILTATION		
Source(s) of Impairment	ACID MINE DRAINAGE, ACID MINE DRAINAGE, ACID MINE DRAINAGE, ACID MINE DRAINAGE, ACID MINE DRAINAGE, ACID MINE DRAINAGE, ACID MINE DRAINAGE, ACID MINE DRAINAGE		
TMDL Status	Final	Name	Lackawanna River Watershed

Compliance History

DMR Data for Outfall 001 (from May 1, 2022 to April 30, 2023)

Parameter	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22
Flow (MGD) Average Monthly	0.009521	0.002840	0.001380	0.002055	0.041862	0.025287	0.004860	0.013485	0.008051	0.005227	0.006528	0.009804
Flow (MGD) Daily Maximum	0.022919	0.007621	0.003886	0.007818	0.173429	0.099399	0.013334	0.044931	0.010023	0.010891	0.006528	0.018769
pH (S.U.) Daily Minimum	7.00	7.2	6.90	6.6	7.7	7.2	4.7	6.0	6.9	6.9	7.2	7.36
pH (S.U.) Instantaneous Maximum	8.20	7.90	7.70	7.5	7.9	8.0	7.4	7.10	7.6	10.30	7.69	7.78
TSS (mg/L) Average Monthly	8.0	7.00	5.0	17.0	8.0	< 5.0	< 5.0	5.0	< 5.0	< 5.0	9.0	20.0
Oil and Grease (mg/L) Average Monthly	< 3.6	< 3.50	< 3.5	< 3.90	< 4.2	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 5.0	< 5.0
Oil and Grease (mg/L) Instantaneous Maximum	< 3.6	< 3.50	< 3.5	< 3.90	< 4.2	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 5.0	< 5.0
Nitrate-Nitrite (mg/L) Annual Average								0.4				
Nitrate-Nitrite (lbs) Total Annual								5.59				
Total Nitrogen (mg/L) Annual Average								3.0				
Total Nitrogen (lbs) Total Annual								41.93				
Ammonia (mg/L) Annual Average								0.257				
Ammonia (lbs) Total Annual								3.59				
TKN (mg/L) Annual Average								< 1.0				
TKN (lbs) Total Annual								< 13.97				
Total Phosphorus (mg/L) Annual Average								0.23				
Total Phosphorus (lbs) Total Annual								3.2				

Total Aluminum (mg/L) Semi-Annual Average					0.05						< 0.100	
Total Copper (mg/L) Semi-Annual Average					0.005						0.007	
Total Iron (mg/L) Semi-Annual Average					0.110						0.158	
Total Lead (mg/L) Semi-Annual Average					0.010						0.018	
Total Manganese (mg/L) Semi-Annual Average					0.025						0.052	
Total Zinc (mg/L) Semi-Annual Average					0.074						0.087	
Chloroform (mg/L) Semi-Annual Average					< 0.50						< 5.0	

Compliance History

Effluent Violations for Outfall 001, from: June 1, 2022 To: April 30, 2023

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	10/31/22	Daily Min	4.7	S.U.	6.0	S.U.
pH	07/31/22	IMAX	10.30	S.U.	9.0	S.U.