

Application Type Renewal  
Facility Type Industrial  
Major / Minor Minor

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

Application No. PA0005584  
APS ID 1102699  
Authorization ID 1465131

**Applicant and Facility Information**

Applicant Name	<u>O-I Glass Inc.</u>	Facility Name	<u>Owens Brockway Glass Container Plant 19</u>
Applicant Address	<u>3831 Route 219</u> <u>Brockport, PA 15823-3811</u>	Facility Address	<u>Route 219 N</u> <u>Brockway, PA 15824</u>
Applicant Contact	<u>Denver Preston</u>	Facility Contact	<u></u>
Applicant Phone	<u>(567) 336-3360</u>	Facility Phone	<u></u>
Client ID	<u>78765</u>	Site ID	<u>457042</u>
SIC Code	<u>3221</u>	Municipality	<u>Snyder Township</u>
SIC Description	<u>Manufacturing - Glass Containers</u>	County	<u>Jefferson</u>
Date Application Received	<u>December 1, 2023</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u></u>	If No, Reason	<u>, DEP Discretion</u>
Purpose of Application	<u>NPDES permit renewal to discharge industrial waste and storm water.</u>		

**Summary of Review**

**1.0 General Discussion**

Owens-Illinois (O-I) submitted the application for the renewal of NPDES Permit No. PA0005584 for discharge of stormwater and industrial wastewater from O-I's Brockway glass container production facility located in Brockport, Snyder Township, Jefferson County. The Facility discharges stormwater and wastewater from four regulated outfalls 001 through 004. Outfalls 001, 003, and 004 discharge exclusively stormwater. Outfall 002 flow was revised to 0.066MGD based on current discharge information. Outfall 002 consists of both stormwater and wastewater; the wastewater component comprised of boiler blowdown, condensate and non-contact cooling water. The manufacturing process wastewater, sanitary wastewater and contact cooling water is discharged to the Brockway Area Sewage Authority (BASA) wastewater treatment plant for treatment. The Facility should have been regulated under ELG 40 CFR 426 Subpart H, but the discharge associated with the ELG goes to BASA for treatment, therefore the ELG is not applicable to this discharge. The facility discharges to Little Toby Creek which is classified for cold water fishes (CWF). The existing NPDES permit was issued on May 08, 2019, with an effective date of June 1, 2019, and expiration date of May 31, 2024. The applicant submitted a timely permit renewal application to the Department and is currently operating under the terms and conditions in the existing permit pending under administrative extension provision pending Department action on the renewal application. A topographic map showing the discharge location is presented in attachment A and process flow diagram is presented in attachment C.

**1.1 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

Approve	Deny	Signatures	Date
X		<i>J. Pascal Kwedza</i> J. Pascal Kwedza, P.E. / Environmental Engineer	October 3, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	October 3, 2025

Summary of Review

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.

**1.2 Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>002</u>	Design Flow (MGD)	<u>0.066</u>
Latitude	<u>41° 15' 7.00"</u>	Longitude	<u>78° 44' 24"</u>
Quad Name	<u>Sabula</u>	Quad Code	<u>0916</u>
Wastewater Description: <u>NCCW, boiler blowdown, condensate and stormwater.</u>			
Receiving Waters	<u>Little Toby Creek</u>	Stream Code	<u>50229</u>
NHD Com ID	<u>102668739</u>	RMI	<u>15.52</u>
Drainage Area	<u>59.1</u>	Yield (cfs/mi²)	<u>0.07174</u>
Q <sub>7-10</sub> Flow (cfs)	<u>4.24</u>	Q <sub>7-10</sub> Basis	<u>Streamstats regression</u>
Elevation (ft)	<u>1459</u>	Slope (ft/ft)	<u>                    </u>
Watershed No.	<u>17-A</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>                    </u>	Existing Use Qualifier	<u>                    </u>
Exceptions to Use	<u>                    </u>	Exceptions to Criteria	<u>                    </u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>Metals, Suspended Solids, pH</u>		
Source(s) of Impairment	<u>Abandoned Mine Drainage, Abandoned Mine Drainage, Abandoned Mine Drainage</u>		
TMDL Status	<u>Final</u>	Name	<u>Little Toby Creek</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7.0</u>	Default	<u>                    </u>
Temperature (°F)	<u>                    </u>		<u>                    </u>
Hardness (mg/L)	<u>143</u>	Permit application	<u>                    </u>
Other:	<u>                    </u>		<u>                    </u>
Nearest Downstream Public Water Supply Intake	<u>PA American Water Company - Clarion</u>		
PWS Waters	<u>Clarion River</u>	Flow at Intake (cfs)	<u>90.7</u>
PWS RMI	<u>33.44</u>	Distance from Outfall (mi)	<u>48.7</u>

Changes Since Last Permit Issuance: N/A

2.0 Treatment Facility Summary				
Treatment Facility Name: Owens Brockway Glass Container Plant 19				
WQM Permit No.	Issuance Date			
N/A	---			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial	Physical (Industrial Waste)	Sedimentation	No Disinfection	
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
		Not Overloaded		

Changes Since Last Permit Issuance: None

**3.0 Existing Effluent Limitations and Monitoring Requirements**

**3.1 Stormwater Outfalls 001, 003 and 004**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

**3.2 Outfall 002**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/month	Grab
Temperature (°F)	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab

### 3.3 Compliance History

#### 3.3.1 DMR Data for Outfall 001 (from March 1, 2024 to February 28, 2025)

Parameter	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24
pH (S.U.) Daily Maximum			8.87						6.37			
TSS (mg/L) Daily Maximum			55						14			
Total Aluminum (mg/L) Daily Maximum			0.022						0.127			
Total Iron (mg/L) Daily Maximum			< 0.02						0.233			

#### 3.3.2 DMR Data for Outfall 002 (from March 1, 2024 to February 28, 2025)

Parameter	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24
Flow (MGD) Average Monthly	0.0504	0.07776	0.04608	0.00144	0.07776	0.01296	0.0216	0.05184	0.02448	0.00864	0.01152	0.11088
pH (S.U.) Daily Minimum	6.01	6.08	6.08	6.48	6.32	6.07	6.39	6.3	6.27	6.34	6.1	6.02
pH (S.U.) Daily Maximum	6.01	6.08	6.08	6.48	6.32	6.07	6.39	6.3	6.27	6.34	6.1	6.02
Temperature (°F) Average Monthly	51.98	53.96	48.38	50.54	49.1	61.34	67.82	68.72	64.4	76.28	68.72	63.5

#### 3.3.3 DMR Data for Outfall 003 (from March 1, 2024 to February 28, 2025)

Parameter	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24
pH (S.U.) Daily Maximum			6.86						6.89			
TSS (mg/L) Daily Maximum			54						11			
Total Aluminum (mg/L) Daily Maximum			0.427						0.180			
Total Iron (mg/L) Daily Maximum			0.807						0.211			

**3.3.4 DMR Data for Outfall 004 (from March 1, 2024 to February 28, 2025)**

Parameter	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24
pH (S.U.) Daily Maximum			8.04						6.87			
TSS (mg/L) Daily Maximum			96						17			
Total Aluminum (mg/L) Daily Maximum			1.02						0.329			
Total Iron (mg/L) Daily Maximum			2.83						0.606			

**3.3.5 Effluent Violations for Outfall 002, from: April 1, 2024 To: February 28, 2025**

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	04/30/24	Daily Min	5.9	S.U.	6.0	S.U.

**3.3.6 Summary of Discharge Monitoring Reports (DMRs):**

DMRs reviewed for the facility for the last 12 months of operation, presented on the table above in sections 3.3.1 to 3.3.4 indicate permit limits have been most of the time. One PH effluent violation was noted on DMRs for the period reviewed.

**3.3.7 Summary of Inspections:**

The facility has been inspected a couple times during last permit cycle. No effluent violations were found during plant inspections.

#### 4.0 Development of Effluent Limitations

Outfall No.	002	Design Flow (MGD)	.00912
Latitude	41° 15' 7.00"	Longitude	-78° 44' 24.00"
Wastewater Description: Other Miscellaneous Discharges, Stormwater			

#### 4.1 Technology-Based Limitations

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

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)

Comments: ELGs listed in 40 CFR 426 Subpart H – Glass Container Manufacturing Subcategory are not applicable to this discharge as there is no process wastewater/contact cooling water.

#### 4.2 Water Quality-Based Limitations

##### 4.2.1 Stream flows

The drainage area upstream of the discharge location and the Q<sub>7-10</sub> at discharge point were taken from the previous permit are 59.1 sq. mi and 4.24 cfs, respectively.

##### 4.2.2 The following input data were used for TMS model:

- Discharge pH = 7.0 (Default.)
- Stream pH = 7.0 (Default)
- Discharge Hardness = 370 mg/l (application)
- Stream Hardness = 143 mg/l (application)

##### 4.2.3 Toxics

A reasonable potential (RP) analysis was done for pollutant Groups 1, 2 & 5 submitted with the application for outfall 002. All pollutants that were presented in the application sampling data were entered into the Toxics Management Spreadsheet (TMS) to calculate WQBELs. WQBELs recommended by the TMS are presented in attachment B. The results of the TMS indicate discharge levels for all parameters analyzed in exception of Total Copper and Total Cadmium were well below DEP's target quantitation limits (TQL) and calculated WQBELs, therefore no limitation or monitoring is required in the permit. Monitoring is recommended for Total Copper and Total Cadmium. Monitoring 2/month will be required for Total Copper and Total Cadmium.

#### 4.3 Chemical Additives

No new Notification forms were submitted with the application. All other additives listed in the application appear to be approved previously. The permit is written with chemical additive usage and notification requirement located in Part C.II of the permit.

#### 4.4 Best Professional Judgment (BPJ) Limitations

Temperature monitoring will be retained due to this being a thermal discharge. The thermal discharge data review did not indicate the need for temperature limits at this outfall at this time.

No additional monitoring requirements will be imposed at this outfall in order to evaluate stormwater due to inability to isolate the stormwater wastestream from the NCCW.



#### 4.5 Stormwater Outfalls:

<b>Outfall No.</b>	<u>001</u>	<b>Design Flow (MGD)</b>	<u>0</u>
<b>Latitude</b>	<u>41° 14' 51.00"</u>	<b>Longitude</b>	<u>78° 44' 32.00"</u>
<b>Wastewater Description:</b>	<u>Stormwater associated with industrial activity</u>		
<b>Outfall No.</b>	<u>003</u>	<b>Design Flow (MGD)</b>	<u>0</u>
<b>Latitude</b>	<u>41° 14' 51.00"</u>	<b>Longitude</b>	<u>78° 44' 58.00"</u>
<b>Wastewater Description:</b>	<u>Stormwater associated with industrial activity</u>		
<b>Outfall No.</b>	<u>004</u>	<b>Design Flow (MGD)</b>	<u>0</u>
<b>Latitude</b>	<u>41° 14' 53.00"</u>	<b>Longitude</b>	<u>78° 44' 27.00"</u>
<b>Wastewater Description:</b>	<u>Stormwater associated with industrial activity</u>		

Stormwater discharge from this facility is subject to permit requirements under 40 CFR §122.26(a)(1)(ii). The activities at the site fall under SIC Code 3221 and is covered under Appendix N of PAG 03 general permit. The existing permit has 4 stormwater outfalls 001, 002, 003, and 004. Monitoring requirements for the stormwater outfalls in the existing permit are set from Appendix N of the previous PAG-03 permit. The monitoring requirements will be revised to reflect the current PAG 03 Appendix N parameters presented on the table below. The exiting permit requires monitoring stormwater outfalls 001, 003, 004. Per the previous factsheet, outfall 002 is not monitored for stormwater since there no way to separate storm water from other miscellaneous waste stream. The current permit will require continued monitoring of outfalls 001, 003 and 004. The benchmark values listed are not effluent limitations, and exceedances do not constitute permit violations. However, if the permittee's sampling demonstrates exceedances of benchmark values for two consecutive monitoring periods, the permittee shall submit a corrective action plan within 90 days of the end of the monitoring period triggering the plan.

Parameter	Monitoring Requirements		Benchmark Values
	Minimum Measurement Frequency	Sample Type	
Total Phosphorus (mg/L)	1 / 6 months	Grab	XXX
Total Nitrogen (mg/L)	1 / 6 months	Grab	XXX
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
pH (S.U.)	1 / 6 months	Grab	9
Total Iron (mg/L)	1 / 6 months	Grab	XXX
Total Aluminum (mg/L)	1 / 6 months	Grab	XXX

#### 5.0 Other Requirements

##### 5.1 Anti-backsliding

Not applicable to this permit

##### 5.2 Anti-Degradation (93.4)

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

### **5.3 Class A Wild Trout Fisheries**

No Class A Wild Trout Fisheries are impacted by this discharge.

### **5.4 303d Listed Streams**

The discharge is located on a stream segment that is designated on the 303(d) list as impaired for aquatic life. The impairment is due Acid Mine Drainage. The finalized TMDL for the watershed was developed to address old and new mining activities and did not address non-mining discharges. This facility does not discharge acid mine drainage and the pollutants of concern (total iron, manganese, aluminum, pH), with exception of pH. Therefore, no monitoring or effluent limitation has been placed in previous permits for aluminum, total iron or manganese for Outfall 002 and will not be required during this renewal. The facility has pH limit of 6 to 9 S.U no further action is warranted at this time.

**6.0 Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

**Outfalls 001, 003 & 004, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfalls 001,003 & 004

**6.1 Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

**Outfall 002**, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/month	Grab
Temperature (°F)	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Cadmium, Total	Report	Report	XXX	Report	Report	XXX	2/month	Grab
Copper, Total	Report	Report	XXX	Report	Report	XXX	2/month	Grab

Compliance Sampling Location: At Outfall 002

Attachments

A. Topographical Map



B. Toxic Management Spreadsheet (TMS)



Toxics Management Spreadsheet  
Version 1.4, May 2023

## Discharge Information

Instructions Discharge Stream

Facility: **Owens - Brockway Glass** NPDES Permit No.: **PA0005584** Outfall No.: **001**

Evaluation Type: **Major Sewage / Industrial Waste** Wastewater Description: **Industrial Waste**

Discharge Characteristics							
Design Flow (MGD)*	Hardness (mg/l)*	pH (SU)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)
			AFC	CFC	THH	CRL	Q <sub>7-10</sub> Q <sub>h</sub>
0.066	370	7					

Discharge Pollutant	Units	Max Discharge Conc	0 if left blank		0.5 if left blank		0 if left blank		1 if left blank		Criteria Mod	Chem Transl
			Trib Conc	Stream Conc	Daily CV	Hourly CV	Stream CV	Fate Coeff	FOS			
Group 1	Total Dissolved Solids (PWS)	mg/L	4850									
	Chloride (PWS)	mg/L	2570									
	Bromide	mg/L	3.05									
	Sulfate (PWS)	mg/L	31.8									
	Fluoride (PWS)	mg/L	0.79									
Group 2	Total Aluminum	µg/L	58									
	Total Antimony	µg/L	< 1.08									
	Total Arsenic	µg/L	< 2.9									
	Total Barium	µg/L	628									
	Total Beryllium	µg/L	< 1									
	Total Boron	µg/L	47.7									
	Total Cadmium	µg/L	3.4									
	Total Chromium (III)	µg/L	1.91									
	Hexavalent Chromium	µg/L	10.5									
	Total Cobalt	µg/L	< 1									
	Total Copper	µg/L	80.7									
	Free Cyanide	µg/L										
	Total Cyanide	µg/L	< 10									
	Dissolved Iron	µg/L	< 100									
	Total Iron	µg/L	229									
	Total Lead	µg/L	1.95									
	Total Manganese	µg/L	19									
	Total Mercury	µg/L	< 0.2									
	Total Nickel	µg/L	12.8									
	Total Phenols (Phenolics) (PWS)	µg/L	< 50									
	Total Selenium	µg/L	14.7									
	Total Silver	µg/L	< 1									
	Total Thallium	µg/L	< 1									
	Total Zinc	µg/L	82.8									
	Total Molybdenum	µg/L	3010									
	Acrolein	µg/L	<									
	Acrylamide	µg/L										
	Acrylonitrile	µg/L	<									
	Benzene	µg/L	<									
	Bromofom	µg/L	<									



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	2,6-Dinitrotoluene	µg/L	<	0.5															
	Di-n-Octyl Phthalate	µg/L	<	6.25															
	1,2-Diphenylhydrazine	µg/L	<	5															
	Fluoranthene	µg/L	<	6.25															
	Fluorene	µg/L	<	6.25															
	Hexachlorobenzene	µg/L	<	0.5															
	Hexachlorobutadiene	µg/L	<	0.5															
	Hexachlorocyclopentadiene	µg/L	<	3															
	Hexachloroethane	µg/L	<	2.1															
	Indeno(1,2,3-cd)Pyrene	µg/L	<	0.3															
	Isophorone	µg/L	<	6.25															
	Naphthalene	µg/L	<	6.25															
	Nitrobenzene	µg/L	<	6.25															
	n-Nitrosodimethylamine	µg/L	<	0.5															
	n-Nitrosodi-n-Propylamine	µg/L	<	0.5															
	n-Nitrosodiphenylamine	µg/L	<	0.5															
	Phenanthrene	µg/L	<	0.2															
	Pyrene	µg/L	<	6.25															
	1,2,4-Trichlorobenzene	µg/L	<																
Group 6	Aldrin	µg/L	<																
	alpha-BHC	µg/L	<																
	beta-BHC	µg/L	<																
	gamma-BHC	µg/L	<																
	delta BHC	µg/L	<																
	Chlordane	µg/L	<																
	4,4-DDT	µg/L	<																
	4,4-DDE	µg/L	<																
	4,4-DDD	µg/L	<																
	Dieldrin	µg/L	<																
	alpha-Endosulfan	µg/L	<																
	beta-Endosulfan	µg/L	<																
	Endosulfan Sulfate	µg/L	<																
	Endrin	µg/L	<																
	Endrin Aldehyde	µg/L	<																
	Heptachlor	µg/L	<																
	Heptachlor Epoxide	µg/L	<																
	PCB-1016	µg/L	<																
	PCB-1221	µg/L	<																
	PCB-1232	µg/L	<																
	PCB-1242	µg/L	<																
	PCB-1248	µg/L	<																
	PCB-1254	µg/L	<																
	PCB-1260	µg/L	<																
	PCBs, Total	µg/L	<																
	Toxaphene	µg/L	<																
	2,3,7,8-TCDD	ng/L	<																
Group 7	Gross Alpha	pCi/L																	
	Total Beta	pCi/L	<																
	Radium 226/228	pCi/L	<																
	Total Strontium	µg/L	<																
	Total Uranium	µg/L	<																
	Osmotic Pressure	mOs/kg																	
	Acenaphthene																		





## Stream / Surface Water Information

Owens - Brockway Glass, NPDES Permit No. PA0005584, Outfall 001

Instructions Discharge **Stream**

Receiving Surface Water Name: **West Br Tunungwant Creek**

No. Reaches to Model: **1**

- ☐ Statewide Criteria  
☒ Great Lakes Criteria  
☐ ORSANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi <sup>2</sup> )*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	050229	15.53	1459	59.1			Yes
End of Reach 1	050229	14.8	1420	61.5			Yes

**Q<sub>7-10</sub>**

Location	RMI	LFY (cfs/mi <sup>2</sup> )*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	15.53	0.1	4.24									143	7		
End of Reach 1	14.8	0.1													

**Q<sub>h</sub>**

Location	RMI	LFY (cfs/mi <sup>2</sup> )*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	15.53														
End of Reach 1	14.8														



Toxics Management Spreadsheet  
Version 1.4, May 2023

## Model Results

Owens - Brockway Glass, NPDES Permit No. PA0005584, Outfall 001

Instructions Results

RETURN TO INPUTS

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☒ All

☐ Inputs

☐ Results

☐ Limits

☐ Hydrodynamics

☒ Wasteload Allocations

☒ AFC

CCT (min): 15

PMF: 0.834

Analysis Hardness (mg/l): 149.37

Analysis pH: 7.00

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	750	750	26,715	
Total Antimony	0	0		0	1,100	1,100	39,182	
Total Arsenic	0	0		0	340	340	12,111	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	748,018	
Total Boron	0	0		0	8,100	8,100	288,521	
Total Cadmium	0	0		0	2,974	3.21	114	Chem Translator of 0.927 applied
Total Chromium (III)	0	0		0	791.449	2,505	89,213	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	15.730	16.0	571	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	3,384	
Total Copper	0	0		0	19.614	20.4	728	Chem Translator of 0.96 applied
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	99.679	136	4,847	Chem Translator of 0.733 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1.400	1.65	58.7	Chem Translator of 0.85 applied
Total Nickel	0	0		0	657.504	659	23,467	Chem Translator of 0.998 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	Chem Translator of 0.922 applied
Total Silver	0	0		0	6.415	7.55	269	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	2,315	
Total Zinc	0	0		0	164.632	168	5,996	Chem Translator of 0.978 applied
Acenaphthene	0	0		0	83	83.0	2,956	

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[illegible]

Analysis pH: 7.00

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	220	220	9,356	
Total Arsenic	0	0		0	148	148	6,294	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	174,361	
Total Boron	0	0		0	1,600	1,600	68,043	
Total Cadmium	0	0		0	0.323	0.36	15.4	Chem Translator of 0.893 applied
Total Chromium (III)	0	0		0	102.367	119	5,062	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	442	Chem Translator of 0.962 applied

Total Cobalt	0	0		0	19	19.0	808	
Total Copper	0	0		0	12.544	13.1	556	Chem Translator of 0.96 applied
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	1,500	1,500	63,791	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	3.855	5.26	224	Chem Translator of 0.734 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.770	0.91	38.5	Chem Translator of 0.85 applied
Total Nickel	0	0		0	72.600	72.8	3,097	Chem Translator of 0.997 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	4.600	4.99	212	Chem Translator of 0.922 applied
Total Silver	0	0		0	N/A	N/A	N/A	Chem Translator of 1 applied
Total Thallium	0	0		0	13	13.0	553	
Total Zinc	0	0		0	165.004	167	7,117	Chem Translator of 0.986 applied
Acenaphthene	0	0		0	17	17.0	723	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0		0	59	59.0	2,509	
Benzo(a)Pyrene	0	0		0	0.1	0.1	4.25	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroisopropyl)Ether	0	0		0	6,000	6,000	255,163	
Bis(2-Ethylhexyl)Phthalate	0	0		0	N/A	N/A	N/A	
4-Bromophenyl Phenyl Ether	0	0		0	910	910	38,700	
Butyl Benzyl Phthalate	0	0		0	54	54.0	2,296	
2-Chloronaphthalene	0	0		0	35	35.0	1,488	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthracene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
1,3-Dichlorobenzene	0	0		0	160	160	6,804	
1,4-Dichlorobenzene	0	0		0	69	69.0	2,934	
3,3-Dichlorobenzidine	0	0		0	150	150	6,379	
Diethyl Phthalate	0	0		0	N/A	N/A	N/A	
Dimethyl Phthalate	0	0		0	800	800	34,022	
Di-n-Butyl Phthalate	0	0		0	500	500	21,264	
2,4-Dinitrotoluene	0	0		0	21	21.0	893	
2,6-Dinitrotoluene	0	0		0	320	320	13,609	
1,2-Diphenylhydrazine	0	0		0	200	200	8,505	
Fluoranthene	0	0		0	3	3.0	128	
Fluorene	0	0		0	40	40.0	1,701	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	N/A	N/A	N/A	
Hexachlorocyclopentadiene	0	0		0	2	2.0	85.1	
Hexachloroethane	0	0		0	1	1.0	42.5	
Indeno(1,2,3-cd)Pyrene	0	0		0	12	12.0	510	
	0	0		0	N/A	N/A	N/A	




☒ THH

CCT (min): 21.583

PMF: 1

Analysis Hardness (mg/l): N/A

Analysis pH: N/A

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	500,000	500,000	N/A	
Chloride (PWS)	0	0		0	250,000	250,000	N/A	
Sulfate (PWS)	0	0		0	250,000	250,000	N/A	
Fluoride (PWS)	0	0		0	2,000	2,000	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	5.6	5.6	238	
Total Arsenic	0	0		0	10	10.0	425	
Total Barium	0	0		0	2,400	2,400	102,065	
Total Boron	0	0		0	3,100	3,100	131,834	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Dissolved Iron	0	0		0	300	300	12,758	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	1,000	1,000	42,527	
Total Mercury	0	0		0	0.003	0.003	0.13	
Total Nickel	0	0		0	610	610	25,942	
Total Phenols (Phenolics) (PWS)	0	0		0	5	5.0	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	0.24	0.24	10.2	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acenaphthene	0	0		0	70	70.0	2,977	
Anthracene	0	0		0	300	300	12,758	
Benzidine	0	0		0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0		0	N/A	N/A	N/A	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroisopropyl)Ether	0	0		0	200	200	8,505	
Bis(2-Ethylhexyl)Phthalate	0	0		0	N/A	N/A	N/A	
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		0	0.1	0.1	4.25	
2-Chloronaphthalene	0	0		0	800	800	34,022	

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☒ **CRL** CCT (min):  PMF:  Analysis Hardness (mg/l):  Analysis pH:

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Total Nickel	0	0		0	N/A	N/A	N/A
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A
Total Selenium	0	0		0	N/A	N/A	N/A
Total Silver	0	0		0	N/A	N/A	N/A
Total Thallium	0	0		0	N/A	N/A	N/A
Total Zinc	0	0		0	N/A	N/A	N/A
Acenaphthene	0	0		0	N/A	N/A	N/A
Anthracene	0	0		0	N/A	N/A	N/A
Benzidine	0	0		0	0.0001	0.0001	0.026
Benzo(a)Anthracene	0	0		0	0.001	0.001	0.26
Benzo(a)Pyrene	0	0		0	0.0001	0.0001	0.026
3,4-Benzofluoranthene	0	0		0	0.001	0.001	0.26
Benzo(k)Fluoranthene	0	0		0	0.01	0.01	2.58
Bis(2-Chloroethyl)Ether	0	0		0	0.03	0.03	7.75
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A
Bis(2-Ethylhexyl)Phthalate	0	0		0	0.32	0.32	82.6
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A
Butyl Benzyl Phthalate	0	0		0	N/A	N/A	N/A
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A
Chrysene	0	0		0	0.12	0.12	31.0
Dibenzo(a,h)Anthracene	0	0		0	0.0001	0.0001	0.026
1,2-Dichlorobenzene	0	0		0	N/A	N/A	N/A
1,3-Dichlorobenzene	0	0		0	N/A	N/A	N/A
1,4-Dichlorobenzene	0	0		0	N/A	N/A	N/A
3,3-Dichlorobenzidine	0	0		0	0.05	0.05	12.9
Diethyl Phthalate	0	0		0	N/A	N/A	N/A
Dimethyl Phthalate	0	0		0	N/A	N/A	N/A
Di-n-Butyl Phthalate	0	0		0	N/A	N/A	N/A
2,4-Dinitrotoluene	0	0		0	0.05	0.05	12.9
2,6-Dinitrotoluene	0	0		0	0.05	0.05	12.9
1,2-Diphenylhydrazine	0	0		0	0.03	0.03	7.75
Fluoranthene	0	0		0	N/A	N/A	N/A
Fluorene	0	0		0	N/A	N/A	N/A
Hexachlorobenzene	0	0		0	0.000045	0.00005	0.012
Hexachlorobutadiene	0	0		0	0.01	0.01	2.58
Hexachlorocyclopentadiene	0	0		0	N/A	N/A	N/A
Hexachloroethane	0	0		0	0.1	0.1	25.8
Indeno(1,2,3-cd)Pyrene	0	0		0	0.001	0.001	0.26
Isophorone	0	0		0	N/A	N/A	N/A
Naphthalene	0	0		0	N/A	N/A	N/A
Nitrobenzene	0	0		0	N/A	N/A	N/A
n-Nitrosodimethylamine	0	0		0	0.0007	0.0007	0.18
n-Nitrosodi-n-Propylamine	0	0		0	0.005	0.005	1.29
n-Nitrosodiphenylamine	0	0		0	3.3	3.3	852
Phenanthrene	0	0		0	N/A	N/A	N/A


☒ Recommended WQBELs & Monitoring Requirements

No. Samples/Month: 4

Model Results

9/12/2025

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Pollutants	Mass Limits		Concentration Limits				Governing WQBEL	WQBEL Basis	Comments
	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units			
Total Cadmium	Report	Report	Report	Report	Report	µg/L	15.4	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Copper	Report	Report	Report	Report	Report	µg/L	466	AFC	Discharge Conc > 10% WQBEL (no RP)

C. Process Flow Diagram

