

Application Type Renewal
 Facility Type Industrial
 Major / Minor Minor

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

Application No. PA0083623
 APS ID 35024
 Authorization ID 1535420

Applicant and Facility Information

Applicant Name	<u>TB Woods Inc.</u>	Facility Name	<u>TB Woods Foundry</u>
Applicant Address	<u>440 5th Avenue</u> <u>Chambersburg, PA 17201-1763</u>	Facility Address	<u>440 5th Avenue</u> <u>Chambersburg, PA 17201-1763</u>
Applicant Contact	<u>Paul McCurdy</u>	Facility Contact	<u>Paul McCurdy</u>
Applicant Phone	<u>(717) 217-3847</u>	Facility Phone	<u>(717) 217-3847</u>
Client ID	<u>27061</u>	Site ID	<u>246342</u>
SIC Code	<u>3568</u>	Municipality	<u>Chambersburg Borough</u>
SIC Description	<u>Manufacturing - Power Transmission Equipment, Nec</u>	County	<u>Franklin</u>
Date Application Received	<u>July 28, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>August 13, 2025</u>	If No, Reason	<u></u>
Purpose of Application	<u>NPDES Permit Renewal .</u>		

Summary of Review

TB Woods Inc. (Permittee) has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The permit was last reissued on October 6, 2020 and became effective on November 1, 2020. The permit expired on October 31, 2025.

Based on the review, it is recommended that the permit be drafted.

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.

Approve	Deny	Signatures	Date
X		Jinsu Kim Jinsu Kim / Environmental Engineering Specialist	March 23, 2026
x		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	March 26, 2026
x		Maria D. Bebenek Maria D. Bebenek, P.E. / Program Manager	March 26, 2026

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.360</u>
Latitude	<u>39° 56' 27"</u>	Longitude	<u>77° 38' 50"</u>
Quad Name	<u>Chambersburg</u>	Quad Code	<u>1924</u>
Wastewater Description: <u>Non-contact cooling water</u>			

Outfall No.	<u>002 (formerly Outfall 001A)</u>	Design Flow (MGD)	<u>0.0028</u>
Latitude	<u>39° 56' 26"</u>	Longitude	<u>77° 38' 50"</u>
Wastewater Description: <u>Non-contact cooling water</u>			

Outfall No.	<u>003 (formerly Outfall 001C)</u>	Design Flow (MGD)	<u>0.0576</u>
Latitude	<u>39° 56' 29"</u>	Longitude	<u>77° 38' 48"</u>
Wastewater Description: <u>Non-contact cooling water</u>			

Outfall No.	<u>004 (formerly Outfall 001E)</u>	Design Flow (MGD)	<u>0.00144</u>
Latitude	<u>39° 56' 32"</u>	Longitude	<u>77° 38' 46"</u>
Wastewater Description: <u>Non-contact cooling water</u>			

Receiving Waters	<u>UNT to Falling Spring Branch</u>	Stream Code	<u>60184</u>
NHD Com ID	<u>49479458</u>	RMI	<u>0.43</u>
Drainage Area	<u>1.51 sq. mi.</u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>0.399</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>13-C</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>

Secondary Waters	<u>Falling Spring Branch</u>	Stream Code	<u>60183</u>
NHD Com ID	<u>49479458</u>	RMI	<u>0.70</u>
Drainage Area	<u>11.1 sq. mi.</u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>7.51</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>13-C</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>

Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>

Nearest Downstream Public Water Supply Intake	<u>City of Hagerstown, MD</u>		
PWS Waters	<u>Conococheague Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>48</u>

Drainage Area

The discharge from Outfalls 001, 002, 003 and 004 is to Unnamed Tributary to Falling Spring Branch. Because these outfalls are located very close to each other, RM is estimated to be 0.43 for all of these outfalls. A drainage area upstream of all of these outfalls is estimated to be 1.51 sq.mi. using USGS StreamStats available at <https://streamstats.usgs.gov/ss/>. DEP's Water Quality Biologist conducted a Point of First Use survey in 1994 and determined that the point of first use (POFU) is to be downstream from Outfall 001, at the confluence of this unnamed tributary and the main stem, Falling Spring Branch. The drainage area at this point (Falling Spring Branch) is estimated to be 11.1 sq.mi. also using USGS StreamStats.

Streamflow

USGS StreamStats produced a Q7-10 flow of 0.399 cfs at the point of discharge and Q7-10 flow of 7.51 cfs at the POFU.

Unnamed Tributary to Falling Spring Branch/Falling Spring Branch

Under 25 Pa Code §93.9z, the entire basin of Falling Spring Branch from Chambersburg-Guilford Township border to Mouth is designated as trout stocking fishes and supports migratory fishes. No special protection water is impacted by this discharge. The stream segment where the discharge is located is considered a trout natural reproduction area but is not considered a Class A Wild Trout fishery. DEP's latest integrated water quality report finalized in 2026 shows that both the receiving stream and Falling Spring Branch are not impaired.

Public Water Supply Intake

The fact sheet developed for the last permit renewal shows that the nearest downstream public water supply intake is located on the Conococheague Creek near the City of Hagerstown, MD about 40 miles from the discharge. Given the distance, the discharge is not expected to impact the water supply.

Treatment Facility Summary				
Treatment Facility Name: TB Woods Foundry				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial	N/A	N/A	N/A	
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
N/A	N/A	N/A	N/A	N/A

Under NAICS code 333613, TB Woods is a foundry, machine shop and warehouse for components used in power transmission. The facility mainly manufactures cast iron. The facility discharges non-contact cooling water (NCCW) and stormwater. No process wastewater and sanitary wastewater have been reported to be discharged from this facility. The fact sheet prepared for the last permit renewal provided the following information:

- Outfall 001 receives non-contact cooling water (NCCW). The NCCW is derived from two wells and is used to cool air compressors. The NCCW discharges into an enclosed culvert that contains spring water that originates within the plant. The combined spring and well water discharges into a swale that leads to UNT Falling Spring Branch. The pump rate of the two wells is 100 gpm and 150 gpm, which is equivalent to 0.360 MGD. According to the previous protection report, it is impossible to determine the amount of spring water that is combined with this flow prior to discharge. The culvert is covered within the plant.
- Outfall 002 receives NCCW from the "Molding #2" area of the plant. The molding machines are cooled with municipal water. The estimated maximum daily flow from this outfall is 0.0028 MGD. The outfall is a 2-inch metal pipe about two feet upstream of outfall 001.
- Outfall 003 contains only groundwater based on past investigations at the facility. Sampling is not required for this outfall, but it will remain on the list for historical and informational purposes. The estimated flow has been listed in previous permits as 0.0576 MGD.
- Outfall 004 receives municipality-derived NCCW from an air compressor. This compressor is only used in the event of a power failure or if the outside temperature exceeds 90 degrees. The estimated flow from this outfall is 0.00144 MGD.

Given the locations of these outfalls, the permit requirements have been developed based on the total flow of 0.422 MGD. In addition to these outfalls, TB Woods also utilizes six (6) stormwater outfalls. More details on these stormwater outfalls will be discussed later in this fact sheet.

The application shows that the facility has not used any chemicals for wastewater treatment nor any chemical additives that are expected to be present in the effluent.

Compliance History	
Summary of DMRs:	A summary of past 12-month DMR data is presented on the next page.
Summary of Inspections:	03/23/2023: DEP conducted a routine inspection and identified that no annual report has been submitted to DEP. This was determined to be a violation at the time of inspection.
Other Comments:	DEP's database revealed that there is one open violation associated with this facility. A draft permit cover letter will indicate that the permit may not be finalized until all violations are resolved and closed out.

Effluent Data

DMR Data for Outfall 001 (from January 1, 2025 to December 31, 2025)

Parameter	DEC-25	NOV-25	OCT-25	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25
Flow (MGD) Average Monthly	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
Flow (MGD) Daily Maximum	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
pH (S.U.) Instantaneous Minimum	7.1	7.0	7.1	7.1	7.0	7.0	7.4	7.4	7.3	7.4	7.4	7.1
pH (S.U.) Instantaneous Maximum	7.2	7.2	7.2	7.2	7.2	7.5	7.7	7.7	7.7	7.6	7.5	7.5
Temperature (°F) Daily Maximum	59	60	61	62	63	68	69	62	63	63	62	61

DMR Data for Outfall 004 (from January 1, 2025 to December 31, 2025)

Parameter	DEC-25	NOV-25	OCT-25	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25
Flow (MGD) Average Monthly	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144
Flow (MGD) Daily Maximum	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144	0.00144
pH (S.U.) Instantaneous Minimum	7.0	7.0	7.0	7.0	7.0	7.0	7.3	7.2	7.3	7.3	7.3	7.3
pH (S.U.) Instantaneous Maximum	7.0	7.1	7.2	7.2	7.2	7.4	7.5	7.5	7.5	7.6	7.6	7.4
Temperature (°F) Daily Maximum	58	60	63	66	67	72	71	66	66	64	62	58

Existing Effluent Limits and Monitoring Requirements

A table below summarizes effluent limits and monitoring requirements specified in the existing permit:

Outfalls 001, 002 and 004

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Temperature (°F) Jul 1-31	XXX	XXX	XXX	XXX	85	XXX	1/day	I-S
Temperature (°F) Aug 1 - Jun 30	XXX	XXX	XXX	XXX	110	XXX	1/day	I-S

For Stormwater Outfalls 005, 006, 007, 008 and 009, 1/year grab sampling of pH, CBOD5, COD, TSS, Oil and Grease, TKN, TP, Total Chromium, Total Copper, Dissolved Iron, Total Lead, Total Nickel, Total Zinc is required.

Development of Effluent Limitations and Monitoring Requirements

Outfall No.	<u>001, 002, 003, and 004</u>	Design Flow (MGD)	<u>0.422</u>
Latitude	<u>39° 56' 27"</u>	Longitude	<u>77° 38' 50"</u>
Wastewater Description:	<u>Non-contact cooling water</u>		

Technology-Based Limitations

The federal effluent guidelines and effluent limitations (ELGs) are not applicable for NCCW discharges from this facility. The facility is subject to the state effluent standard for pH found in 25 Pa Code §95.2(1).

Water Quality-Based Limitations

No WQM and Toxics Management Spreadsheet (TMS) have been utilized for this facility as NCCW is the only wastewater generated from this facility for a stream discharge. This permit review approach is also consistent with the latest application instructions in which the instructions indicate the following:

Facilities that discharge only non-process wastewater not regulated by an ELG or new source performance standard can, in lieu of completing three analyses for all Group 1 pollutants, complete three analyses for the following pollutants: 5-Day Biochemical Oxygen Demand (BOD5), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Fecal Coliform (if believed present or if sanitary waste is or will be discharged), Total Residual Chlorine (TRC) (if chlorine is used), Oil and Grease, Chemical Oxygen Demand (COD) (if non-contact cooling water is or will be discharged), Total Organic Carbon (TOC) (if non-contact cooling water is or will be discharged), Ammonia-Nitrogen, pH, and Temperature (winter and summer).

Three (3) grab samples were collected and analyzed for above-referenced pollutants and show that none of these pollutants is discharged at a level of concern.

DEP's Thermal Discharge Limit worksheet was utilized for NCCW and indicates that existing effluent limits are still adequate. No change is therefore recommended.

Additional Considerations

Flow Monitoring

Flow monitoring will remain in the permit and is required by 40 CFR § 122.44(i)(1)(ii).

Outfall 003 Discharges

Sampling has not been required for this outfall as this is only groundwater from a sump pump. This is a reasonable approach and the upcoming permit renewal will still not require sampling for this outfall.

PFAS Monitoring Requirements

No sampling was performed as part of the application as it is not required. No process wastewater is generated and only non-contact cooling water is discharged. A requirement to monitor for PFAS is not recommended.

Chemical Additive

The facility does not utilize a chemical additive.

Anti-Degradation requirements

The effluent limits for this discharge have been developed to ensure the existing in-stream uses and the level of water quality necessary to protect the existing uses are maintained and protected.

Class A Wild Trout Fishery

No Class A Wild Trout is impacted by this discharge.

Development of Effluent Limitations and Monitoring Requirements

TB Woods utilizes the following stormwater outfalls:

Outfall No.	<u>005 (formerly Outfall SW02)</u>	Receiving Water	<u>UNT Falling Spring Branch</u>
Latitude	<u>39° 56' 32"</u>	Longitude	<u>77° 38' 46"</u>
Drainage Area	<u>42,350 sq. ft.</u>	RMI	<u>0.43</u>
Drainage Description:	<u>Northeast side of the plant's blacktop area.</u>		
Outfall No.	<u>006 (formerly Outfall SW03)</u>	Receiving Water	<u>UNT Falling Spring Branch</u>
Latitude	<u>39° 56' 20"</u>	Longitude	<u>77° 38' 54"</u>
Drainage Area	<u>36,875 sq. ft.</u>	RMI	<u>0.89</u>
Drainage Description:	<u>West parking area and warehouse.</u>		
Outfall No.	<u>007 (formerly Outfall SW04)</u>	Receiving Water	<u>UNT Falling Spring Branch</u>
Latitude	<u>39° 56' 22"</u>	Longitude	<u>77° 38' 59"</u>
Drainage Area	<u>100,000 sq. ft.</u>	RMI	<u>0.81</u>
Drainage Description:	<u>Parking area and office complex.</u>		
Outfall No.	<u>008 (formerly Outfall SW05)</u>	Receiving Water	<u>UNT Falling Spring Branch</u>
Latitude	<u>39° 56' 34"</u>	Longitude	<u>77° 38' 47"</u>
Drainage Area	<u>21,875 sq. ft.</u>	RMI	<u>0.31</u>
Drainage Description:	<u>Foundry and machine shop area.</u>		
Outfall No.	<u>009 (formerly Outfall SW02A)</u>	Receiving Water	<u>UNT Falling Spring Branch</u>
Latitude	<u>39° 56' 27"</u>	Longitude	<u>77° 38' 50"</u>
Drainage Area	<u>78,100 sq. ft.</u>	RMI	<u>0.43</u>
Drainage Description:	<u>East side of the plant's blacktop area.</u>		
Outfall No.	<u>010 (formerly Outfall SW02B)</u>	Receiving Water	<u>UNT Falling Spring Branch</u>
Latitude	<u>39° 56' 30"</u>	Longitude	<u>77° 38' 47"</u>
Drainage Area	<u>15,750 sq. ft.</u>	RMI	<u>0.43</u>
Drainage Description:	<u>Roof of the foundry and office complex.</u>		
Outfall No.	<u>011 (formerly Outfall SW02C)</u>	Receiving Water	<u>UNT Falling Spring Branch</u>
Latitude	<u>39° 56' 32"</u>	Longitude	<u>77° 38' 48"</u>
Drainage Area	<u>9,120 sq. ft.</u>	RMI	<u>0.43</u>
Drainage Description:	<u>Roof of the office complex.</u>		

Given its NAICS code (or SIC code of 3568), Appendix U of NPDES PAG-03 General Permit is applicable to this facility. This appendix requires a semi-annual monitoring of TN, TP, pH, TSS, Oil/Grease, Nitrate+Nitrite, Total Aluminum, Total Iron, and Total Zinc. DEP's SOP no. BCW-PMT-032 recommends NPDES PAG-03 General Permit requirements to be implemented as minimum standards for individual industrial permits. As a result, these parameters with monitoring frequency will replace existing requirements for all stormwater outfalls. The application indicates that Outfall 008 is a representative outfall for Outfalls 005, 009, 010 and 011 and Outfall 007 is a representative outfall for Outfall 006. Based on the review and locations of these outfalls, DEP has determined that monitoring requirements will only be included for Outfalls 007 and 008. The latest standard stormwater monitoring requirements will be included in Part C of the permit.

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" (362-0400-001), SOPs and/or BPJ.

Outfalls 001, 002, and 004, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Instant. Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/day	Grab
Temperature (°F) Aug 1 - Jun 30	XXX	XXX	XXX	XXX	110 Daily Max	XXX	1/day	I-S
Temperature (°F) Jul 1 - 31	XXX	XXX	XXX	XXX	85 Daily Max	XXX	1/day	I-S

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” (362-0400-001), SOPs and/or BPJ.

Outfalls 007 and 008, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly		Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1 / 6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1 / 6 months	Grab
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1 / 6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1 / 6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1 / 6 months	Grab
Nitrate + Nitrite-Nitrogen	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
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1 / 6 months	Grab

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
<input type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input type="checkbox"/>	SOP: [redacted]
<input type="checkbox"/>	Other: [redacted]



Instructions **Inputs**

Facility: **TB Woods Foundry** Permit No.: **PA0083623**

Stream Name: **UNT Falling Spring Branch** Analyst/Engineer: **Jinsu Kim**

Stream Q7-10 (cfs)*: **7.5** Outfall No.: **001** Analysis Type*: **TSF**

Facility Flows

Semi-Monthly Increment	Intake (Stream) (MGD)*	Intake (External) (MGD)*	Consumptive Loss (MGD)*	Discharge Flow (MGD)
Jan 1-31	0.422	0.422		0.422
Feb 1-29	0.422	0.422		0.422
Mar 1-31	0.422	0.422		0.422
Apr 1-15	0.422	0.422		0.422
Apr 16-30	0.422	0.422		0.422
May 1-15	0.422	0.422		0.422
May 16-31	0.422	0.422		0.422
Jun 1-15	0.422	0.422		0.422
Jun 16-30	0.422	0.422		0.422
Jul 1-31	0.422	0.422		0.422
Aug 1-15	0.422	0.422		0.422
Aug 16-31	0.422	0.422		0.422
Sep 1-15	0.422	0.422		0.422
Sep 16-30	0.422	0.422		0.422
Oct 1-15	0.422	0.422		0.422
Oct 16-31	0.422	0.422		0.422
Nov 1-15	0.422	0.422		0.422
Nov 16-30	0.422	0.422		0.422
Dec 1-31	0.422	0.422		0.422

Stream Flows

Q7-10 Multipliers (Default Shown)	PMF	Seasonal Stream Flow (cfs)	Downstream Stream Flow (cfs)
3.2	1.00	24.03	24.68
3.5	1.00	26.29	26.94
7	1.00	52.57	53.22
9.3	1.00	69.84	70.50
9.3	1.00	69.84	70.50
5.1	1.00	38.30	38.95
5.1	1.00	38.30	38.95
3	1.00	22.53	23.18
3	1.00	22.53	23.18
1.7	1.00	12.77	13.42
1.4	1.00	10.51	11.17
1.4	1.00	10.51	11.17
1.1	1.00	8.26	8.91
1.1	1.00	8.26	8.91
1.2	1.00	9.01	9.66
1.2	1.00	9.01	9.66
1.6	1.00	12.02	12.67
1.6	1.00	12.02	12.67
2.4	1.00	18.02	18.68



Thermal Limits Spreadsheet
Version 1.0, April 2024

Instructions **TSF Results**

Recommended Limits for Case 1 or Case 2

Semi-Monthly Increment	TSF Target Maximum Stream Temp. (°F)	Case 1 Daily WLA (Million BTUs/day)	Case 2 Daily WLA (°F)
Jan 1-31	40	N/A -- Case 2	110.0
Feb 1-29	40	N/A -- Case 2	110.0
Mar 1-31	46	N/A -- Case 2	110.0
Apr 1-15	52	N/A -- Case 2	110.0
Apr 16-30	58	N/A -- Case 2	110.0
May 1-15	64	N/A -- Case 2	110.0
May 16-31	68	N/A -- Case 2	110.0
Jun 1-15	70	N/A -- Case 2	110.0
Jun 16-30	72	N/A -- Case 2	110.0
Jul 1-31	74	N/A -- Case 2	93.6
Aug 1-15	80	N/A -- Case 2	110.0
Aug 16-31	87	N/A -- Case 2	110.0
Sep 1-15	84	N/A -- Case 2	110.0
Sep 16-30	78	N/A -- Case 2	110.0
Oct 1-15	72	N/A -- Case 2	110.0
Oct 16-31	66	N/A -- Case 2	110.0
Nov 1-15	58	N/A -- Case 2	110.0
Nov 16-30	50	N/A -- Case 2	110.0
Dec 1-31	42	N/A -- Case 2	110.0

Date	Version
4/3/2024	1.0

Change(s)
Original