pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0052663**
Facility Type	**Non-Municipal**	APS ID	**1113822**
Major / Minor	**Minor**	Authorization ID	**1485267**

Applicant and Facility Information

Applicant Name	**Knights Bridge Corp**	Facility Name	**Knights Bridge STP**
Applicant Address	112 Chesley Drive Suite 200	Facility Address	Brandywine Drive & Endo Boulevard
	Media, PA 19063-1762		Chadds Ford, PA 19317
Applicant Contact	Brian Smith	Facility Contact	Brian Smith
Applicant Phone	(610) 627-3641	Facility Phone	(610) 627-3641
Client ID	62670	Site ID	573809
Ch 94 Load Status	Not Overloaded	Municipality	Chadds Ford Township
Connection Status	No Limitations	County	Delaware
Date Application Received	May 17, 2024	EPA Waived?	No
Date Application Accepted	May 17, 2024	If No, Reason	Christina River Basin TMDL

Purpose of Application: Permit Renewal.

Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from Knight's Bridge Corporation (Permittee) for their Knight's Bridge STP (facility) on 5/17/2024. The facility is located in Chadds Ford Township, Delaware County. This is a minor sewer facility. The facility discharges into an UNT to Harvey Run, WWF/MF. The existing permit expired on 12/31/2024.

This fact sheet is developed in accordance with 40 CFR §124.56

Changes in this renewal: Quarterly E. Coli monitoring added per SOP Establishing Effluent Limitations for Individual Sewage Permits

Current permit has compliance schedule for treatment plant upgrades per WQM 2318404.

The issued WQM permit approved the construction of a new treatment plant consisting the following units:

1. Coarse bar screen
2. Grease interceptor
3. Equalization tank and mechanical fine screens
4. Two treatment trains, each with anoxic tank #1, aerobic tank, anoxic tank #2, and a membrane tank.
5. UV disinfection
6. Sludge holding tank

Public Participation

Approve	Deny	Signatures	Date
X		Christian French / Christian French / Environmental Engineering Specialist	August 08, 2024
X		Pravin Patel / Pravin C. Patel, P.E. / Environmental Engineer Manager	August 08, 2024

Summary of Review
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	Design Flow (MGD)	.09
Latitude	39º 52' 52.00"	Longitude	-75º 33' 15.38"
Quad Name		Quad Code	1941
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Harvey Run (WWF, MF)	Stream Code	00035
NHD Com ID	26108372	RMI	0.7596
Drainage Area	0.0353	Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)	0.00464	Q_{7-10} Basis	StreamStats
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-H	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use	None	Exceptions to Criteria	N/A
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, SILTATION, SILTATION		
Source(s) of Impairment	AGRICULTURE, URBAN RUNOFF/STORM SEWERS		
TMDL Status	Final	Name	Christina River Basin

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Stream Flow: The ratio of stream flow to facility discharge is 0.00464 : (0.09 MGD*1.547 cfs/MGD) or 0.033:1 which is much lower than minimum of 3:1, therefore, the receiving stream is considered as dry/effluent dominant stream and the limitations stated in "*Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers" (DEP document ID: 391-2000-014)* will be applied, subject to other requirements, i.e. TMDL. A Point of First Use Survey (POFU) was conducted by the permit writer, aquatic biologist, and water quality specialist in January 14, 2019 at the receiving stream which indicated the stream to be intermittent at the discharge point and perennial at station 2 where two channels meet.

PWS Intake:
There is no nearby downstream PWS intake structure prior to the border of the state of Delaware. The distance to the PWS intake couldn't be determined.

303d Listed Streams:
The discharge from this facility is in UNT to Harvey Run in state watershed 3-H at RMI 0.7596 per eMapPa. The stream is attaining its designated use of fish consumption but not attaining aquatic life use due to siltation and water/flow variability from urban runoff/storm sewers and agriculture.

Christina River Basin TMDL:

The Christina River Basin Total Maximum Daily Load (TMDL) for Nutrients and Dissolved Oxygen for Low-Flow Conditions, issued by the Environmental Protections Agency (EPA) on January 19, 2001 and subsequently revised on October 2002 and April 2006. Furthermore, DEP prepared, and EPA acknowledged an Alternative Reduction Scenario for the Christina River Basin for Low Flow TMDL dated June 27, 2012 to reassigned some of the allocations within the dischargers by keeping the total load to the basin the same. Knights Bridge STP is part of an Alternative Reduction Scenario TMDL (Summary Table 15) for parameters:

Waste Load Allocations														
	Flow	$CBOD_5$	NH_3-N	TN	TP	DO	$CBOD_5$	NH_3-N	TN	TP	DO	TMDL % Reduction		
NPDES	MGD	Mg/l	Mg/l	Mg/l	Mg/l	Mg/l	Lb/day	Lb/day	Lb/day	Lb/day	Lb/day	$CBOD_5$	NH_3-N	TP
PA0052663	0.09	10.0	1.0	10.0	2.0	5.0	7.511	0.751	7.506	1.502	3.755	0.0%	0.0%	0.0%

The Christina River Basin, also has an approved High-Flow TMDL for Bacteria and Sediment (dated September 2006) for Fecal Coliform, enterococci, and TSS, flows and loads for nutrients and CBOD5. The limits for Total Suspended Solids (10 mg/l) and Fecal Coliform (200 No./100ml) will continue in this permit renewal and it is consistent with the High Flow TMDL for Bacteria and Sediment. The high flow TMDL allocations were not adjusted at the time when low flow TMDL under an "Alternative Reduction Scenario" was developed. Since, the Christina River Low-Flow TMDL is the driver for the Christina River High-Flow TDML especially for nutrients, therefore, it is assumed that compliance with the low flow TMDL, satisfies the compliance of the high flow TMDL. Therefore, existing TMDL allocations for all parameters are carried over in the renewal. No seasonal limits were applied to the TP WLAs, therefor this permit is more stringent than the assumptions of the TP WLAs. Seasonal limitations are applied for $CBOD_5$ and NH_3-N, which are consistent with the High Flow Nutrient and Low DO TMDLs.

Class A Wild Trout Fisheries:

No Class A Wild Trout Fisheries are impacted by this discharge

Treatment Facility Summary

Treatment Facility Name: Knights Bridge STP

WQM Permit No.	Issuance Date
2318404	02/14/2019
2300407	02/29/2008
2307401	04/06/2007

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Activated Sludge with Solids Removal	Ultraviolet	0.09

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.09	225	Not Overloaded	Holding Tank	Other WWTP

Changes Since Last Permit Issuance: The new treatment plant (Membrane Bioreactor, MBR) completed construction December 2021.

Other Comments: None

Treatment Plant Description

Knight's Bridge Corporation (KBC/permittee) owns and operates a Wastewater Treatment Plant (WWTP) named Knights Bridge WWTP located in Chadds Ford Township, Delaware County, under the NPDES permit number PA0052663. The treated effluent is discharged into an UNT to Harvey Run in state watershed 3-H. The receiving stream is classified as WWF/MF. The plant receives sewage from a nearby shopping center and offices. Several restaurants are connected to the plant as well. The existing WWTP is rated to treat 0.09 MGD as average annual flow. The permit application indicated an average flow of 0.023 MGD, 0.023 MGD, and 0.020 MGD for the years 2021, 2022, and 2023 with highest monthly average flow of 0.022 MGD.

The issued WQM permit approved the construction of a new treatment plant consisting the following units:

7. Coarse bar screen
8. Grease interceptor
9. Equalization tank and mechanical fine screens
10. Two treatment trains, each with anoxic tank #1, aerobic tank, anoxic tank #2, and a membrane tank.
11. UV disinfection
12. Sludge holding tank

The following chemicals are used at the plant as wastewater treatment chemicals:

Chemical name	Purpose	Maximum use rate	Units
Aluminum Sulfate, 50% solution	Precipitation of Phosphorus	11	GPD
Aquafix	Larvicide/control of Red Worms	0.05	Lbs./day

Biosolids Management:
Sewage sludge and biosolids are transported from Knight's Bridge WWTP by a licensed hauler to the DELCORA STP which operates under NPDES permit number PA0027103 for further processing and treatment.

Compliance History

DMR Data for Outfall 001 (from June 1, 2023 to May 31, 2024)

Parameter	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23
Flow (MGD) Average Monthly	0.02	0.022	0.024	0.021	0.021	0.021	0.017	0.02	0.021	0.022	0.022	0.022
pH (S.U.) Instantaneous Minimum	6.83	6.51	6.85	6.89	6.66	6.69	6.51	6.33	6.61	6.74	6.57	6.64
pH (S.U.) Instantaneous Maximum	7.13	6.95	7.17	7.16	7.17	7.03	7.2	7.12	7.11	6.98	6.98	6.96
DO (mg/L) Instantaneous Minimum	5.63	7.09	8.0	8.28	7.87	7.3	7.39	5.63	5.3	5.03	5.41	5.14
CBOD5 (lbs/day) Average Monthly	< 0.4	< 0.4	< 0.4	< 0.3	< 0.3	< 0.4	< 0.4	0.5	0.6	< 0.4	< 0.3	< 0.3
CBOD5 (mg/L) Average Monthly	< 2	< 2	< 2	< 2	< 2	< 2	< 2	3	3	< 2	< 2	< 2
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	117	51	168	117	87	90	55	114	78	59	44	32
BOD5 (mg/L) Raw Sewage Influent Average Monthly	724	281	978	757	777	525	314	645	522	324	271	192
TSS (lbs/day) Average Monthly	0.6	0.6	0.6	< 0.4	0.3	0.6	1.8	1.8	0.4	< 0.2	0.6	0.3
TSS (lbs/day) Raw Sewage Influent Average Monthly	39	38	152	51	100	49	24	63	98	37	24	21
TSS (mg/L) Average Monthly	3	4	3	< 3	2	4	10	10	3	< 1	4	2
TSS (mg/L) Raw Sewage Influent Average Monthly	232	210	890	328	902	280	141	358	659	188	144	122

Fecal Coliform (No./100 ml) Geometric Mean	< 3	< 2	< 2	< 2	< 4	< 2	< 2	< 4	< 2	< 2	< 2	< 2
Fecal Coliform (No./100 ml) Instantaneous Maximum	5	< 2	< 2	< 2	7	< 2	< 2	7	< 2	< 2	< 2	< 2
Nitrate-Nitrite (lbs/day) Average Monthly	1.0	0.7	0.6	0.5	0.4	0.9	0.9	1.1	0.8	1.1	0.6	0.9
Nitrate-Nitrite (mg/L) Average Monthly	5	4	3	3	3	5	5	6	5	6	4	5
Total Nitrogen (lbs/day) Average Monthly	< 1.1	< 0.8	0.8	< 0.6	< 0.5	< 1.0	< 1.1	1.2	< 0.8	< 1.2	0.7	1.0
Total Nitrogen (mg/L) Average Monthly	< 6.0	< 4.4	3.9	< 3.7	< 3.3	< 6.0	< 6.0	6.6	< 5.1	< 6.4	5.0	5.7
Ammonia (lbs/day) Average Monthly	< 0.004	< 0.009	< 0.004	0.008	< 0.009	< 0.003	< 0.006	< 0.004	< 0.003	< 0.02	< 0.003	< 0.005
Ammonia (mg/L) Average Monthly	< 0.02	< 0.05	< 0.02	0.1	< 0.1	< 0.02	< 0.04	< 0.02	< 0.02	< 0.1	< 0.02	< 0.03
Total Phosphorus (lbs/day) Average Monthly	0.07	0.01	0.008	0.008	0.009	0.01	0.03	0.05	0.04	0.02	0.05	0.03
Total Phosphorus (mg/L) Average Monthly	0.4	0.1	0.05	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.3	0.2
UV Dosage (mjoules/cm^2) Daily Minimum	100	100	100	100	100	100	100	100	100	100	100	100

Summary of Inspections:

11-14-2023: CEI conducted. No violations identified during the inspection. All treatment units seemed to be functioning properly. No obvious areas of concern were observed in the receiving stream.

05-04-2023: RTPT conducted. No violations identified during the inspection. The outfall area and receiving stream was inspected. Effluent appeared clear entering the stream. Upstream and downstream conditions appeared similar.

01-04-2023: CEI conducted. No violations identified. No obvious areas of concern were observed.

04-11-2022: CEI conducted. No violations identified. No obvious areas of concern were observed.

Existing Effluent Limitations and Monitoring Requirements

The table below summarizes effluent limitations and monitoring requirements specified in the existing final NPDES permit that was in effect between December 1, 2021 to December 31, 2024.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
CBOD5 Nov 1 - Apr 30	15	XXX	XXX	20	XXX	40	2/month	24-Hr Composite
CBOD5 May 1 - Oct 31	7.5	XXX	XXX	10	XXX	20	2/month	24-Hr Composite
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
TSS	7.5	XXX	XXX	10	XXX	20	2/month	24-Hr Composite
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Nitrate-Nitrite	7.5	XXX	XXX	10	XXX	20	2/month	24-Hr Composite
Total Nitrogen	7.5	XXX	XXX	10.0	XXX	20	2/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	2.3	XXX	XXX	3.0	XXX	6	2/month	24-Hr Composite
Ammonia May 1 - Oct 31	0.8	XXX	XXX	1.0	XXX	2	2/month	24-Hr Composite
UV Dosage (mJoules/cm^2)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Recorded
Total Phosphorus	0.37	XXX	XXX	0.5	XXX	1	2/month	24-Hr Composite

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .09
Latitude 39º 52' 56.00" **Longitude** -75º 33' 10.00"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

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

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	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)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

Water Quality-Based Limitations

As stated in page 4 of this report, WLAs were established for this facility in the Christina River Basin TMDL. The following limitations apply from the TMDL:

Parameter	Reported Values of Effluent (mg/l)		Water Quality Based Effluent Limits (mg/l)			Basis
	Average Value	Daily Max.	Monthly Average		Daily Max	
			Conc. (mg/l)	Mass (lb/day)	Conc. (mg/l)	
$CBOD_5$	3.16	16	10	7.5	20	Christina River Basin Low Flow (for nutrients) and High Flow (for nutrients, low DO, bacteria, and sediment), and Alternate Reduction Scenario TMDLs
TSS	4.57	19	10	7.5	20	
NH_3N	<0.4	2.48	1.0	0.8	2.0	
Total P	0.4	2.48	0.5	0.37	1.0	
Total N	9.02	29.7	10.0	7.5	20.0	
Fecal Coliform (CFU/100ml)	<126.44	2420	200	--	1,000	
DO (Min)	---	6.0	---	---	6.0	

Comment: Seasonal multipliers will be applied for $CBOD_5$ and NH_3-N, as allowed by High Flow Nutrients and Low DO TMDL. The mass loading for Total N in the Christina River Basin Alternate Reduction Scenario TMDL has been corrected from 15 lb/day to 7.5 lb/day to match the mass loading limit of Nitrate-Nitrite as N.

Best Professional Judgment (BPJ) Limitations

Flow and influent BOD_5 and TSS monitoring:
The requirement to monitor the volume of effluent will remain in the permit per 40 CFR § 122.44(i)(1)(ii). Influent BOD_5 and TSS monitoring requirements are established in the permit per the requirements set in Pa Code 25 Chapter 94.

Total Dissolved Solids (TDS):
Facilities discharging less than 0.1 MGD are not required to report TDS and its constituents. No TDS limit or monitoring requirement will be placed in the permit.

Monitoring Frequency and Sample Types:
Otherwise specified above, the monitoring frequency and sample type of compliance monitoring for existing parameters are recommended by DEP's SOP and Permit Writers Manual and/or on a case-by-case basis using best professional judgment (BPJ).

Anti-Backsliding
The proposed limits are at least as stringent as are in existing permit, unless otherwise stated; therefore, anti-backsliding is not applicable.

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 001, 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	Instantaneous Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
CBOD5 Nov 1 - Apr 30	15	XXX	XXX	20	XXX	40	2/month	24-Hr Composite
CBOD5 May 1 - Oct 31	7.5	XXX	XXX	10	XXX	20	2/month	24-Hr Composite
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
TSS	7.5	XXX	XXX	10	XXX	20	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Nitrate-Nitrite	7.5	XXX	XXX	10.0	XXX	20	2/month	24-Hr Composite
Total Nitrogen	7.5	XXX	XXX	10.0	XXX	20	2/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	2.3	XXX	XXX	3.0	XXX	6	2/month	24-Hr Composite

Outfall 001 , Continued (from 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	Instantaneous Minimum	Average Monthly	Maximum	Instant. Maximum		
Ammonia May 1 - Oct 31	0.8	XXX	XXX	1.0	XXX	2	2/month	24-Hr Composite
Total Phosphorus	0.37	XXX	XXX	0.5	XXX	1	2/month	24-Hr Composite
UV Dosage (mjoules/cm^2)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Recorded

Compliance Sampling Location: At Outfall 001

Other Comments: None

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	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.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☒	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	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.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	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.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	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.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☒	Other: Christina River Basin high and low flow TMDL