

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0058858
APS ID 1003491
Authorization ID 1291458

Applicant and Facility Information

| | | | |
|---------------------------|---|------------------|---|
| Applicant Name | <u>Upper Makefield Township Bucks County</u> | Facility Name | <u>Reeve Tract Subdivision</u> |
| Applicant Address | <u>1076 Eagle Road Newtown, PA 18940-2818</u> | Facility Address | <u>Hayhurst Drive Newtown, PA 18940</u> |
| Applicant Contact | <u>David Nyman</u> | Facility Contact | <u>Michael Sullivan</u> |
| Applicant Phone | <u>(215) 968-3340</u> | Facility Phone | <u>(215) 766-2626</u> |
| Client ID | <u>63613</u> | Site ID | <u>621932</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Upper Makefield Township</u> |
| Connection Status | <u>No Limitations</u> | County | <u>Bucks</u> |
| Date Application Received | <u>October 8, 2019</u> | EPA Waived? | <u>Yes</u> |
| Date Application Accepted | <u></u> | If No, Reason | <u></u> |
| Purpose of Application | <u>Permit Renewal.</u> | | |

Summary of Review

This permittee requests the renewal of NPDES permit PA0058858 to discharge 20,225 gallons per day (gpd) of treated sewage effluent to an unnamed tributary to Jericho Creek. The treated effluent is from a sewage treatment plant (STP) that serves the Reeve Tract subdivision.

The STP consists of a bar screen, a Muffin Monster Grinder unit, two equalization tanks, Aqua Aerobics extended aeration treatment (with aeration, anoxic and re-aeration tanks), settling tank and a holding tank. The flow is then sent to a building with two tertiary filters, a WEDECO ICH-2X1-S ultraviolet light (UV) disinfection system, post-aeration, and flow metering. The treated effluent is discharged into a manhole and sent via 4" forcemain to a man-made vegetative (i.e. wetland marsh) recharge area within the Reeve Tract subdivision prior to flowing into an unnamed tributary to Jericho Creek. In general, the discharge is in compliance with current permit limits and is expecting to be in compliance in the future.

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.

| Approve | Deny | Signatures | Date |
|---------|------|--|------------|
| X | | Harmonie Hawley, PhD, PE / Environmental Engineering Specialist /s/ | 11/15/2019 |
| X | | Pravin C. Patel, P.E. / Environmental Engineer Manager /s/ | 11/15/2019 |

Summary of Review

Effluent limitations, sampling type and monitoring frequencies remain the same as the previous permit issued in 2015. The project is located in the Jericho Creek watershed in Upper Makefield Township, Bucks County within the drainage area of the non-tidal portion of the Delaware River known as Lower Delaware, which is classified as Special Protection Water (SPW). Effluent limits contained in the Delaware River Basin Commission's (DRBC) guidance for SPWs Discharge Requirement were applied to the facility in previous permits. Since, the original permit was issued before the SPW designation of the stream, the existing permit was grandfathered to SPW requirements for all parameters but Fecal Coliform as was done in previous permit renewals.

Influent BOD₅ reporting was added to this permit to be consistent with Chapter 94. The frequency was set to 1/month.

The SPW designation for the Lower Delaware River requires that any future expansion of the Reeve Tract STP will be required to comply with the no-Measurable-Change (NMC) to Exiting Water Quality (EWQ).

The DMRs show the effluent flowrate to be approximately 14,000 gallons per day. This is an increase since the 2015 permit renewal and recent Google® map images show new residences in the Reeve Tract subdivision which would increase the flow rate. The plant is rated for 20,225 gpd.

Act 14 notifications were sent to Bucks County and Upper Makefield Township on September 24, 2019 by Certified Mail and received September 27, 2019

Discharge, Receiving Waters and Water Supply Information

| | | | |
|--|-----------------------|-------------------|------------------------|
| Outfall No. | <u>001</u> | Design Flow (MGD) | <u>0.020225</u> |
| Latitude | <u>40° 17' 29.98"</u> | Longitude | <u>-74° 57' 29.64"</u> |
| Quad Name | <u>Lambertville</u> | Quad Code | <u>1646</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |

| | | | |
|------------------------------|---|------------------------------|------------------------|
| Receiving Waters | <u>Unnamed Tributary to Jericho Creek (WWF, MF)</u> | Stream Code | <u>02989</u> |
| NHD Com ID | <u>26043944</u> | RMI | <u>0.09</u> |
| Drainage Area | <u>0.31</u> | Yield (cfs/mi ²) | <u>0.022</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0.00696</u> | Q ₇₋₁₀ Basis | <u>PA Stream Stats</u> |
| Elevation (ft) | <u>140</u> | Slope (ft/ft) | <u>0.038</u> |
| Watershed No. | <u>2-E</u> | Chapter 93 Class. | <u>WWF, MF</u> |
| Existing Use | <u>Aquatic life</u> | Existing Use Qualifier | <u>Not Applicable</u> |
| Exceptions to Use | <u>Not Applicable</u> | Exceptions to Criteria | <u>Not Applicable</u> |
| Assessment Status | <u>Attaining Use(s)</u> | | |
| Cause(s) of Impairment | <u>Not Applicable</u> | | |
| Source(s) of Impairment | <u>Not Applicable</u> | | |
| TMDL Status | <u>Not Applicable</u> | Name | <u></u> |

| | | | |
|-------------------------|-------------------|-------------------------------------|--|
| Background/Ambient Data | | Data Source | |
| pH (SU) | <u>7</u> | TRG WQM (391-2000-007 default data) | |
| Temperature (°F) | <u>68 (20 °C)</u> | TRG WQM (391-2000-007 default data) | |

| | | | |
|---|------------------------------------|----------------------------|-----------------------|
| Nearest Downstream Public Water Supply Intake | <u>Not Applicable - no intakes</u> | | |
| PWS Waters | <u>Not Applicable</u> | Flow at Intake (cfs) | <u>Not Applicable</u> |
| PWS RMI | <u>Not Applicable</u> | Distance from Outfall (mi) | <u>Not Applicable</u> |

Changes Since Last Permit Issuance: None

Other Comments: None

| Treatment Facility Summary | | | | |
|--|-----------------------------------|----------------------|----------------------------|-------------------------------|
| Treatment Facility Name: Reeve Tract WWTP | | | | |
| WQM Permit No. | | Issuance Date | | |
| 0905405 | | 08/31/2005 | | |
| Waste Type | Degree of Treatment | Process Type | Disinfection | Avg Annual Flow (MGD) |
| Sewage | Tertiary | | Ultraviolet | 0.0202 |
| Hydraulic Capacity (MGD) | Organic Capacity (lbs/day) | Load Status | Biosolids Treatment | Biosolids Use/Disposal |
| 0.0202 | 40 | Not Overloaded | | |

Changes Since Last Permit Issuance: None

Other Comments: STP has filtration and UV disinfection.

Compliance History

DMR Data for Outfall 001 (from September 1, 2018 to August 31, 2019)

| Parameter | AUG-19 | JUL-19 | JUN-19 | MAY-19 | APR-19 | MAR-19 | FEB-19 | JAN-19 | DEC-18 | NOV-18 | OCT-18 | SEP-18 |
|---|---------|--------|---------|---------|--------------|---------|---------|--------------|---------|--------------|---------|---------|
| Flow (MGD) Average Monthly | 0.01253 | 0.0154 | 0.01323 | 0.01473 | 0.01544 5 | 0.01338 | 0.01371 | 0.01352 4 | 0.01452 | 0.01406 8 | 0.01485 | 0.01453 |
| Flow (MGD) Daily Maximum | 0.01703 | 0.1026 | 0.01883 | 0.0461 | 0.07147 | 0.01994 | 0.01925 | 0.01837 | 0.02268 | 0.01932 | 0.01923 | 0.02151 |
| pH (S.U.) Instantaneous Minimum | 7.53 | 7.21 | 7.26 | 6.91 | 6.96 | 7.32 | 7.48 | 7.51 | 7.56 | 7.01 | 7.44 | 7.45 |
| pH (S.U.) Instantaneous Maximum | 8.29 | 8.0 | 8.28 | 8.02 | 7.85 | 7.85 | 7.98 | 7.96 | 7.95 | 7.91 | 7.96 | 7.83 |
| DO (mg/L) Instantaneous Minimum | 7.4 | 7.63 | 6.87 | 7.64 | 7.98 | 7.96 | 8.31 | 8.48 | 8.21 | 7.69 | 8.0 | 7.63 |
| CBOD5 (lbs/day) Average Monthly | < 0.2 | < 0.2 | < 0.2 | < 0.3 | < 0.2 | < 0.3 | < 0.3 | < 0.2 | < 0.2 | < 0.2 | < 0.3 | < 0.2 |
| CBOD5 (lbs/day) Raw Sewage Influent Average Monthly | 15 | 14 | 12 | 12 | 14 | 22 | 25 | 20 | 15 | 16 | 23 | 17 |
| CBOD5 (mg/L) Average Monthly | < 2 | < 2 | < 2 | < 2 | < 2 | < 3 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| CBOD5 (mg/L) Raw Sewage Influent Average Monthly | 159 | 160 | 100.8 | 91 | 163 | 200 | 186 | 162 | 138 | 142 | 175 | 142 |
| TSS (lbs/day) Average Monthly | < 0.1 | < 0.09 | < 0.1 | < 0.2 | < 0.09 | < 0.1 | < 0.1 | < 0.1 | 0.3 | < 0.1 | < 0.1 | < 0.1 |
| TSS (lbs/day) Raw Sewage Influent Average Monthly | 17 | 14 | 16 | 8 | 32 | 43 | 68 | 37 | 18 | 19 | 203 | 31 |
| TSS (mg/L) Average Monthly | < 1.0 | < 1.0 | < 1.0 | < 1.5 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | 2.5 | < 1.0 | < 1.0 | < 1.0 |
| TSS (mg/L) Raw Sewage Influent Average Monthly | 190 | 165 | 135 | 63 | 383 | 399 | 501 | 308 | 157 | 149 | 27 | 253 |
| Total Dissolved Solids (mg/L) Average Monthly | 450 | 448 | 542 | 506 | 396 | 420 | 497 | 423 | 437 | 432 | 483 | 309 |

**NPDES Permit Fact Sheet
Reeve Tract Subdivision**

NPDES Permit No. PA0058858

| | | | | | | | | | | | | |
|--|--------|---------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Total Dissolved Solids (mg/L) Daily Maximum | 464 | 460 | 558 | 521 | 440 | 445 | 501 | 423 | 481 | 447 | 513 | 402 |
| Fecal Coliform (CFU/100 ml) Geometric Mean | < 2 | < 2 | < 10 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Fecal Coliform (CFU/100 ml) Instantaneous Maximum | < 2 | < 2 | 54 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| UV Intensity (mW/cm²) Minimum | 1.1 | 0.1 | 0.5 | 1.0 | 1.4 | 1.2 | 1.0 | 1.3 | 1.27 | 1.1 | 1.1 | 1.2 |
| Total Nitrogen (lbs/day) Average Monthly | < 0.6 | < 0.6 | < 0.7 | < 0.8 | < 0.5 | < 0.7 | < 0.9 | < 1.1 | < 0.7 | < 0.6 | < 1.0 | < 0.6 |
| Total Nitrogen (mg/L) Average Monthly | < 6.4 | < 7.0 | < 5.8 | < 6.4 | < 5.9 | < 6.0 | < 6.8 | < 8.7 | < 6.2 | < 5.1 | < 7.5 | < 4.9 |
| Ammonia (lbs/day) Average Monthly | < 0.01 | < 0.009 | < 0.01 | < 0.01 | < 0.009 | < 0.04 | < 0.01 | < 0.01 | < 0.01 | < 0.02 | < 0.01 | < 0.01 |
| Ammonia (mg/L) Average Monthly | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.4 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nitrite (mg/L) Average Monthly | < 0.2 | < 0.02 | < 0.2 | < 0.2 | | | | | | | | < 0.2 |
| Total Phosphorus (lbs/day) Average Monthly | 0.06 | 0.06 | 0.04 | 0.06 | 0.04 | 0.06 | 0.06 | 0.07 | 0.05 | 0.06 | 0.07 | 0.06 |
| Total Phosphorus (mg/L) Average Monthly | 0.6 | 0.7 | 0.4 | 0.4 | 0.5 | 0.5 | 0.4 | 0.6 | 0.4 | 0.6 | 0.5 | 0.5 |

Compliance History

No non-compliance events were found for the facility in the past two (2) years.

Development of Effluent Limitations

| | |
|---|--|
| Outfall No. <u>001</u> | Design Flow (MGD) <u>0.020225</u> |
| Latitude <u>40° 17' 30.00"</u> | Longitude <u>-74° 57' 30.00"</u> |
| Wastewater Description: <u>Sewage Effluent</u> | |

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) |
| Total Residual Chlorine | 0.5 | Average Monthly | - | 92a.48(b)(2) |

Comments: the above limitations were evaluated but the more restrictive DRBC SPW limits, which were used in previously issued permits for this facility, were retained in this permit renewal. Chlorine was not used in this facility, however daily UV disinfection monitoring was retained in this permit renewal which is in accordance Standard Operating Procedures (SOPs) and Chapter 92a. In addition, the WQM model (Attachment A) was run and the same limits as in the 2015 permit were obtained from the model and are thus retained for this renewal.

Nitrite-N monitoring was added during the last permit renewal (2015), as recommended by DRBC, and is retained in this permit renewal.

A Total Dissolved Solids (TDS) limit of 1,000 mg/l was added two permit renewals ago (2010) as recommended by DRBC and will continue in this permit renewal.

Influent monitoring for CBOD₅ and Total Suspended Solids (TSS) was added to the 2015 permit renewal which is consistent with SOPs and is retained in this permit renewal.

Influent BOD₅ reporting was added to this permit to be consistent with Chapter 94. The frequency was set to 1/month.

Water Quality-Based Limitations

A “Reasonable Potential Analysis” was not conducted as this is a Minor Facility.
Comments: None.

Best Professional Judgment (BPJ) Limitations

Comments: None

Anti-Backsliding

None



Attachment A

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.

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 | Minimum | Average Monthly | Maximum | Instant. Maximum | | |
| Flow (MGD) | Report | Report Daily Max | XXX | XXX | XXX | XXX | Continuous | Metered |
| pH (S.U.) | XXX | XXX | 6.0 Inst Min | XXX | XXX | 9.0 | 1/day | Grab |
| DO | XXX | XXX | 6.0 Inst Min | XXX | XXX | XXX | 1/day | Grab |
| CBOD5 Raw Sewage Influent | Report | XXX | XXX | Report | XXX | XXX | 2/month | 24-Hr Composite |
| CBOD5 | 1.7 | XXX | XXX | 10 | XXX | 20 | 2/month | 24-Hr Composite |
| BOD5 Raw Sewage Influent | Report | XXX | XXX | Report | XXX | XXX | 1/month | 24-Hr Composite |
| TSS Raw Sewage Influent | Report | XXX | XXX | Report | XXX | XXX | 2/month | 24-Hr Composite |
| TSS | 1.7 | XXX | XXX | 10 | XXX | 20 | 2/month | 24-Hr Composite |
| Total Dissolved Solids | XXX | XXX | XXX | 1000 | 2000 Daily Max | 2500 | 2/month | 24-Hr Composite |
| Fecal Coliform (CFU/100 ml) Oct 1 - Apr 30 | XXX | XXX | XXX | 200 Geo Mean | XXX | 1000* | 2/month | Grab |
| Fecal Coliform (CFU/100 ml) May 1 - Sep 30 | XXX | XXX | XXX | 200 Geo Mean | XXX | 1000* | 2/month | Grab |
| UV Intensity (mW/cm ²) | XXX | XXX | Report | XXX | XXX | XXX | 1/day | Measured |
| Total Nitrogen | 1.7 | XXX | XXX | 10.0 | XXX | 20 | 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 | Minimum | Average Monthly | Maximum | Instant. Maximum | | |
| Ammonia Nov 1 - Apr 30 | 0.50 | XXX | XXX | 3.0 | XXX | 6 | 2/month | 24-Hr Composite |
| Ammonia May 1 - Oct 31 | 0.3 | XXX | XXX | 1.5 | XXX | 3 | 2/month | 24-Hr Composite |
| Nitrite May 1 - Sep 30 | XXX | XXX | XXX | Report | XXX | XXX | 1/month | 24-Hr Composite |
| Total Phosphorus | 0.2 | XXX | XXX | 1.0 | XXX | 2 | 2/month | 24-Hr Composite |

*Not to exceed 1,000/100 ml as an instantaneous maximum from May 1st through September 30th. Not to exceed 1,000/100 ml in greater than 10 percent of the samples tested from October 1st through April 30th. This is based on Chapter 92a and DRBC requirements.

Compliance Sampling Location: Outfall 001

Other Comments: Same parameters, limits, monitoring frequencies, and sample type as previous permit.

| Tools and References Used to Develop Permit | |
|---|---|
| <input checked="" type="checkbox"/> | WQM for Windows Model (see Attachment A) |
| <input type="checkbox"/> | PENTOXSD for Windows Model (see Attachment) |
| <input type="checkbox"/> | TRC Model Spreadsheet (see Attachment) |
| <input type="checkbox"/> | Temperature Model Spreadsheet (see Attachment) |
| <input type="checkbox"/> | Toxics Screening Analysis Spreadsheet (see Attachment) |
| <input type="checkbox"/> | Water Quality Toxics Management Strategy, 361-0100-003, 4/06. |
| <input checked="" type="checkbox"/> | Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97. |
| <input type="checkbox"/> | Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98. |
| <input checked="" type="checkbox"/> | Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96. |
| <input type="checkbox"/> | Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97. |
| <input type="checkbox"/> | Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97. |
| <input type="checkbox"/> | Pennsylvania CSO Policy, 385-2000-011, 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, 391-2000-002, 4/97. |
| <input checked="" type="checkbox"/> | Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97. |
| <input type="checkbox"/> | Implementation Guidance Design Conditions, 391-2000-006, 9/97. |
| <input checked="" type="checkbox"/> | Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004. |
| <input type="checkbox"/> | Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997. |
| <input type="checkbox"/> | Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99. |
| <input type="checkbox"/> | Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004. |
| <input type="checkbox"/> | Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97. |
| <input type="checkbox"/> | Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008. |
| <input type="checkbox"/> | Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994. |
| <input type="checkbox"/> | Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09. |
| <input type="checkbox"/> | Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 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, 391-2000-019, 10/97. |
| <input type="checkbox"/> | Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 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, 391-2000-022, 3/1999. |
| <input type="checkbox"/> | Design Stream Flows, 391-2000-023, 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, 391-2000-024, 10/98. |
| <input type="checkbox"/> | Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97. |
| <input type="checkbox"/> | Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07. |
| <input checked="" type="checkbox"/> | SOP for "Establishing Effluent Limitations for Individual Sewage Permits" (Final November 9, 2012; Revised January 10, 2019; Version 1.6) SOP for New and Reissuance Sewage Individual NPDES Permit Applications (Final November 9, 2012; Revised October 11, 2013; Version 1.8) |
| <input checked="" type="checkbox"/> | Other: DRBC Administrative Manual – Part III Water Quality Regulations with Amendments through December 4, 2013, 18 CFR Part 410 |