Pennsylvania Department of Environmental Protection

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0228737**
Facility Type	**Municipal**	APS ID	**1097852**
Major / Minor	**Minor**	Authorization ID	**1456668**

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Westover Municipal Authority Clearfield County**	Facility Name	**Westover Borough Sanitary Sewer STP**
Applicant Address	143 Tannery Road PO Box 199 Westover, PA 16692	Facility Address	143 Tannery Road Westover, PA 16692
Applicant Contact	Robin Kitchen	Facility Contact	Ryan Bernecky
Applicant Phone	(814) 227-6512	Facility Phone	(814) 577-8473
Client ID	52207	Site ID	615356
Ch 94 Load Status	Not Overloaded	Municipality	Westover Borough
Connection Status	No Limitations	County	Clearfield
Date Application Received	September 21, 2023	EPA Waived?	Yes
Date Application Accepted	October 3, 2023	If No, Reason	

Purpose of Application: Renewal of a NPDES Permit

Summary of Review

The subject facility is a Publicly Owned Treatment Works (POTW) serving Westover Borough in Clearfield County. A map of the discharge location is attached.

Sludge use and disposal description and location(s): The facility's sludge is sent to other treatment plants for further processing. Per the application 9.26 dry tons were removed in the prior year before submittal.

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
✓		Keith C. Allison Keith C. Allison / Project Manager	March 10, 2025
✓		N. W. H. Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	March 11, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.051
Latitude	40º 45' 24"	Longitude	-78º 39' 59"
Quad Name	Westover, PA	Quad Code	1216
Wastewater Description:	Sewage Effluent		
Receiving Waters	Chest Creek (CWF, MF)	Stream Code	26798
NHD Com ID	61835473	RMI	13.0
Drainage Area	84.2	Yield (cfs/mi^2)	0.0644
Q_{7-10} Flow (cfs)	5.42	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	1352	Slope (ft/ft)	0.001
Watershed No.	8-B	Chapter 93 Class.	CWF, MF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
TMDL Status	Final	Name	Chest Creek Sediment TMDL
Nearest Downstream Public Water Supply Intake	GenOn REMA, LLC		
PWS Waters	West Branch Susquehanna River	Distance from Outfall (mi)	150

Changes Since Last Permit Issuance: The stream and drainage characteristics from the previous review were adequate and are listed above.

Other Comments: The Westover Municipal Authority discharge did not receive a wasteload allocation in the Chest Creek Sediment TMDL. The TMDL cites nonpoint sources as the source of the pollution to the Chest Creek watershed. The impairment from sediment and the segment of Chest Creek covered by the TMDL is upstream in Cambria County. The segment to which the permittee discharges has not been identified as being impaired. Therefore, no additional requirements will be included in the permit pursuant to the TMDL.

This discharge is not expected to affect any downstream water supply at this time with the limitations and monitoring proposed.

Treatment Facility Summary

Treatment Facility Name: Westover Borough WWTP

WQM Permit No.	Issuance Date
1703404	7/2/04

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet	0.051

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.051	53	Not Overloaded	Holding Tank	Other WWTP

Changes Since Last Permit Issuance: None

Other Comments: The treatment plant as permitted under WQM Permit No. 1703404 consists of a comminutor, coarse bar screen, equalization tank, two aeration tanks, two clarifiers, ultraviolet light disinfection and a sludge holding tank. The facility also retains chlorination as a backup disinfection. Also included in WQM permit No. 1703404 are ~21,000 LF of gravity sewers, one pump station with 550 LF force main, two grinder pump units, and a wastewater pump station.

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Monthly	0.010	0.010	0.009	0.008	0.01	0.014	0.009	0.01	0.012	0.022	0.011	0.008
Flow (MGD) Daily Maximum	0.018	0.018	0.019	0.015	0.016	0.063	0.017	0.013	0.039	0.110	0.004	0.017
pH (S.U.) Minimum	7.21	6.83	7.5	7.24	7.68	7.18	7.29	7.22	7.3	7.29	7.82	7.66
pH (S.U.) Maximum	8.06	8.11	8.02	8.39	8.29	8.01	7.90	8.07	7.93	8.06	8.61	8.45
DO (mg/L) Minimum	8.74	7.49	6.34	7.29	8.08	7.7	6.74	6.91	6.93	8.49	9.06	9.58
TRC (mg/L) Average Monthly	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
TRC (mg/L) Instantaneous Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
CBOD5 (lbs/day) Average Monthly	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.3	1	0.5	0.6
CBOD5 (lbs/day) Weekly Average	0.7	0.9	0.5	0.5	0.4	0.2	0.3	0.3	0.5	3	1	1
CBOD5 (mg/L) Average Monthly	5	5	4	6	4	3	3	3	3	3	6	9
CBOD5 (mg/L) Weekly Average	9	7	6	8	8	3	3	3	4	3	9	11
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	8	18	8	10	9	7	18	22	117	117	15	15
BOD5 (lbs/day) Raw Sewage Influent Daily Maximum	10	19	9	12	13	9	42	38	125	125	16	18
BOD5 (mg/L) Raw Sewage Influent Average Monthly	155	176	226	204	216	130	253	267	181	181	169	257
TSS (lbs/day) Average Monthly	0.7	0.5	0.3	0.4	0.6	0.2	0.3	0.3	0.3	1	0.8	0.9
TSS (lbs/day) Raw Sewage Influent Average Monthly	17	23	12	15	18	22	21	18	140	140	17	12

TSS (lbs/day) Raw Sewage Influent Daily Maximum	19	27	13	18	19	33	26	21	175	175	18	16
TSS (lbs/day) Weekly Average	1	0.9	0.5	0.7	1	0.4	0.7	0.5	0.6	3	1	2
TSS (mg/L) Average Monthly	8	6	8	10	13	4	5	3	3	3	9	11
TSS (mg/L) Raw Sewage Influent Average Monthly	306	236	338	309	398	432	299	267	204	204	197	211
TSS (mg/L) Weekly Average	12	7	11	16	20	6	8	5	4	5	18	20
Fecal Coliform (CFU/100 ml) Geometric Mean	8	27	3	14	4	4	4	4	4	4	17	9
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	17	189	8	26	4	4	4	4	4	4	38	21
UV Intensity (mW/cm^2) Minimum	200	1000	1100	1000	1200	1400	1400	2300	2100	2200	1700	1400
Ammonia (lbs/day) Average Monthly	0.05	0.008	0.003	0.03	0.005	0.005	0.07	0.09	0.06	0.1	2	0.5
Ammonia (mg/L) Average Monthly	0.622	0.1	0.1	0.5	0.1	0.1	261.2	0.9709	0.97	0.1105	20.23	7.032

Compliance History	
Summary of Inspections:	The most recent inspection of the facility by the department on July 2, 2024 identified no violations at the time of inspection.
Other Comments:	A query in WMS found an open violations in eFACTS for Westover Municipal Authority for Exceeding the Chemical Average Maximum Contaminant Level from the Department's Safe Drinking Water Program.

Existing Effluent Limitations and Monitoring Requirements

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	1/day	Grab
DO	XXX	XXX	Report	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	10	17	XXX	25	40	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	Grab
TSS	12	19	XXX	30	45	60	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	Grab
Fecal Coliform (CFU/100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	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	Metered
Ammonia	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.051
Latitude 40º 45' 22.00" **Longitude** -78º 40' 0.00"
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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: The above limits are applicable and will continue from the existing NPDES permit.

Water Quality-Based Limitations

CBOD5, DO, and NH3-N

The WQM7.0 model allows the Department to evaluate point source discharges of dissolved oxygen (DO), carbonaceous BOD ($CBOD_5$), and ammonia nitrogen (NH_3-N) into free-flowing streams and rivers. However, modeling was not performed at this time due to the considerable dilution available in Chest Creek (~100:1 at Q_{7-10} conditions) and therefore, the secondary treatment limits listed above are expected to be adequate to protect the receiving stream.

TRC

No TRC modeling has been performed due to the significant dilution noted above and the existing BAT limit of 0.5 mg/L should be adequate to protect the receiving stream. However, it is noted that the primary form of disinfection is ultraviolet light. Due to the potential use of Chlorine as a backup the existing limitation and monitoring for TRC will remain. The permittee typically inputs the NODI code of GG into eDMR when no chlorine is used.

Toxics Management

No further "Reasonable Potential Analysis" was performed to determine additional toxic parameters as candidates for limitations for this 0.051 MGD sewage treatment facility receiving no industrial influent.

Chesapeake Bay Requirements

According to the Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, this facility is considered a Phase 5 Chesapeake Bay sewage discharger, and as such requires no nutrient loading limits. A summary of the available nutrient data for the previous review found the Total Nitrogen to average 20.2 mg/L and the Total Phosphorus to average 3.5 mg/L. Because the nutrients levels in the discharge have been adequately characterized, existing annual Total Nitrogen and Total Phosphorus monitoring will not be included in the draft permit at this time.

e. Coli

Quarterly e. coli monitoring will be required at this time due to recent changes to Chapter 93 of the Departments regulations and Department policy.

Best Professional Judgment (BPJ) Limitations

No additional BPJ limits are needed beyond the technology-based limits noted above.

Anti-Backsliding

No water quality based or BPJ limits were made less stringent consistent with the anti-backsliding requirements of 40 CFR 122.44(l).

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	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	1/day	Grab
DO	XXX	XXX	Report	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	10	17	XXX	25	40	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	Grab
TSS	12	19	XXX	30	45	60	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
UV Intensity (mW/cm²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Metered
Ammonia	Report	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab

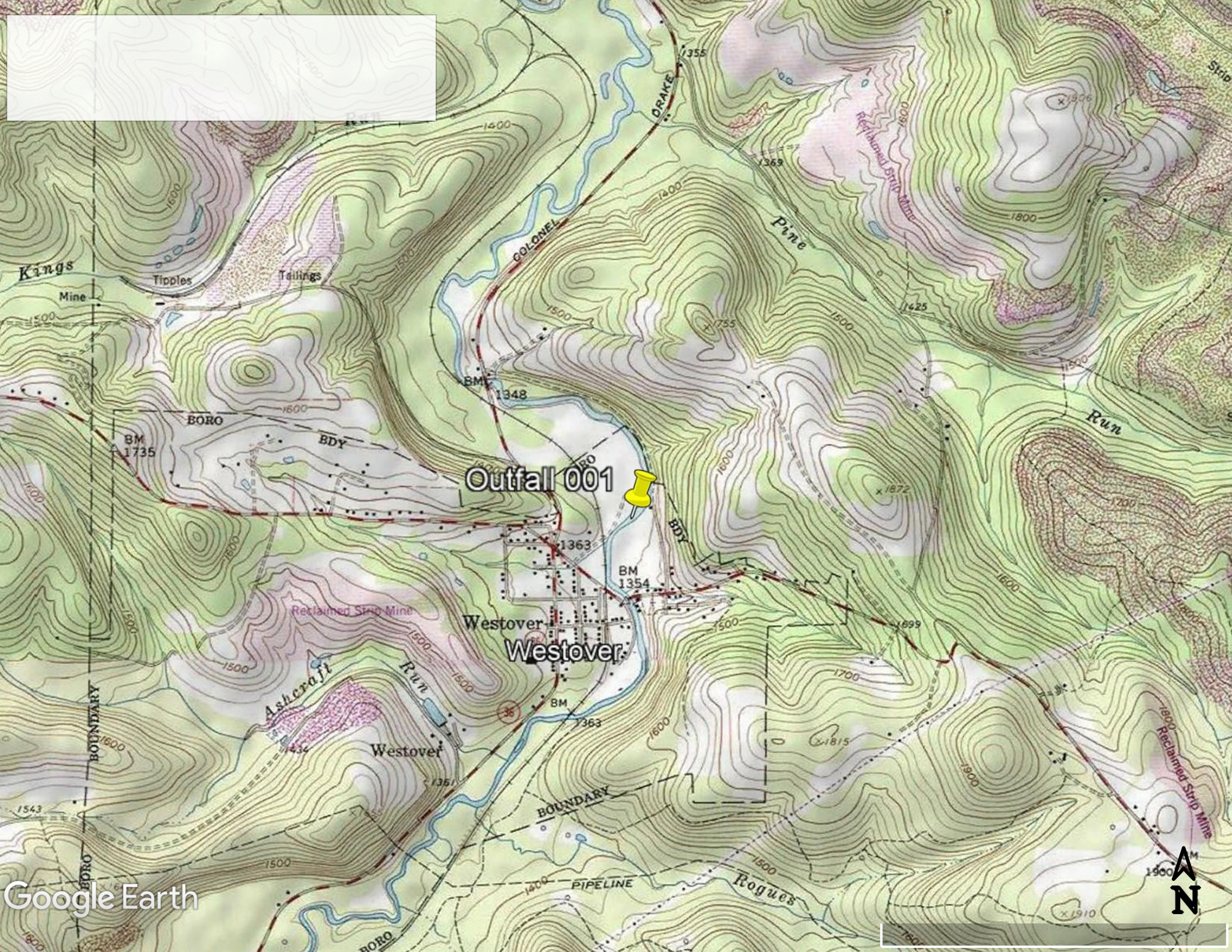
Compliance Sampling Location: Outfall 001

Other Comments: Monitoring for e. coli is new as mentioned above.

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:

Attachment:

A. Discharge Location Map


Outfall 001
Westover
Westover
Kings
Mine
Tipples
Tailings
COLONEL
DRAKE
Pine
Run
Rogues
Ashcraft
Run
BORO
BDY
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