pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0060062**
Facility Type	**Non-Municipal**	APS ID	**989390**
Major / Minor	**Minor**	Authorization ID	**1266669**

Applicant and Facility Information

Applicant Name	**US Department of Labor**	Facility Name	**Red Rock Job Corps Center**
Applicant Address	PO Box 218	Facility Address	Rt 487 N
	Lopez, PA 18628-0218		Lopez, PA 18628-0218
Applicant Contact	Jeannie Kapler, Dir. of Admin.	Facility Contact	Jeannie Kapler, Dir. of Admin.
Applicant Phone	(570) 477-0208	Facility Phone	(570) 477-0208
Client ID	117503	Site ID	3905
Ch 94 Load Status	Not Overloaded	Municipality	Colley Township
Connection Status	N/A	County	Sullivan
Date Application Received	March 20, 2019	EPA Waived?	Yes
Date Application Accepted	March 27, 2019	If No, Reason	

Purpose of Application: Renewal of a NPDES Permit

Summary of Review

The subject sewage treatment plant serves the Red Rock Job Corps Center, a federal job training site in Colley Township, Sullivan County. A map of the discharge location is attached.

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		Keith C. Allison / Project Manager	September 17, 2019
		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.05
Latitude	41º 21' 31.21"	Longitude	-76º 18' 9.20"
Quad Name	Red Rock, PA	Quad Code	0835
Wastewater Description:	Sewage Effluent		
Receiving Waters	Mehoopany Creek (HQ-CWF)	Stream Code	29250
NHD Com ID	66411091	RMI	25.3
Drainage Area	1.74 mi^2 (at Mehoopany Creek)	Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)	Undetermined	Q_{7-10} Basis	
Elevation (ft)	2320	Slope (ft/ft)	0.087
Watershed No.	4-G	Chapter 93 Class.	HQ-CWF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	pH		
Source(s) of Impairment	ATMOSPHERIC DEPOSITION		
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	Danville Municipal Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	Approx. 100

Changes Since Last Permit Issuance: None

Other Comments:

Discharge is to a dry stream the drains to a wetland and ultimately to Mehoopany Creek.

The discharge is not expected to be contributing to the impairment for pH to Mehoopany Creek. It consistently meets its pH limits which are identical to the instream criteria. Inspections have not identified any noticeable impact at the outfall or in the receiving swale.

No downstream water supply is expected to be affected by this discharge at this time with the limitations and monitoring proposed.

Treatment Facility Summary

Treatment Facility Name: Red Rock Job Corps

WQM Permit No.	Issuance Date
5789401	3/21/89

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration With Solids Removal	Ultraviolet	0.05

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.05	92	Not Overloaded	Holding Tank	Off Site

Changes Since Last Permit Issuance: None

Other Comments: The treatment, as permitted by WQM Permit No. 5789401, consists of a bar screen, comminutor, two aeration tanks, two clarifiers, chemical addition (soda ash), two rapid sand filters, UV disinfection and sludge holding tank.

Compliance History

Summary of DMRs:	A review of the facility DMRs for the past year find one violation for Fecal Coliform as listed below.
Summary of Inspections:	The facility has been inspected approximately annually over the past permit term, most recently on August 2, 2019 by Stephen Puzio, WQS. This inspection identified no violations. However, the facility has seen sewage overflows, apparently from I&I issues.

Other Comments: A WMS query found no open violations for US Department of Labor in eFACTS. The Department sent the permittee a Notice of Violation on November 19, 2018 regarding unanticipated discharges of sewage over the previous year.

Effluent Violations for Outfall 001, from: August 1, 2018 To: July 31, 2019

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Fecal Coliform	09/30/18	IMAX	> 2420	CFU/100 ml	1000	CFU/100 ml

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.05
Latitude 41º 21' 36.52" **Longitude** -76º 17' 51.31"
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)

Comments: The above limit are included in the existing permit with the exception of more stringent $CBOD_5$ and TSS limits due to the dry stream discharge.

Water Quality-Based Limitations

Antidegradation
This discharge to a special protection watershed is existing and therefore, will not receive the Antidegradation Best Available Combination of Technologies (ABACT) limitations of the Department's Antidegradation guidance.

Dry Stream Discharge
Due to the discharge to a dry stream the limits for both $CBOD_5$ and TSS are at 10 mg/L to account for the lack of available assimilative capacity in the dry swale to Mehoopany Creek. These limits are consistent with the advanced treatment requirements in the Department's *Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers* guidance document. The current version of the guidance also includes limitations for Total Nitrogen, Dissolved Oxygen, and Total Phosphorus which are applicable to new discharges and therefore, will not be included.

CBOD5, DO, and NH3-N
The Department typically uses the WQM7.0 model 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, WQM7.0 modeling was not performed for the discharge due to the stringent existing $CBOD_5$ limitations and the degree of treatment already provided by the facility. Ammonia levels have averaged <0.2 mg/L for the annual monitoring included in the existing permit. Consistent with the Department's requirements for wastewater treatment plants and *NPDES Permit Writer's Manual*, the monitoring for ammonia-nitrogen will be twice per month and Dissolved Oxygen monitoring will now be daily.

Toxics Management
No further "Reasonable Potential Analysis" was performed to determine additional parameters as candidates for limitations for this 0.05 MGD facility sewage treatment facility receiving no industrial influent.

Chesapeake Bay/Nutrient 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. Per a review of the

facility DMRs over the past permit term the Total Nitrogen has averaged 19.3 mg/L and the Total Phosphorus has averaged 2.8 mg/L. The existing annual monitoring for Total Nitrogen and Total phosphorus will remain.

Best Professional Judgment (BPJ) Limitations

No additional BPJ limitations are necessary beyond the water quality and 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).

Biosolids Disposal
Per the application, the facility's septage is typically disposed at the Greater Hazelton Joint Sewer Authority facility (PA0026921) for further processing.

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.

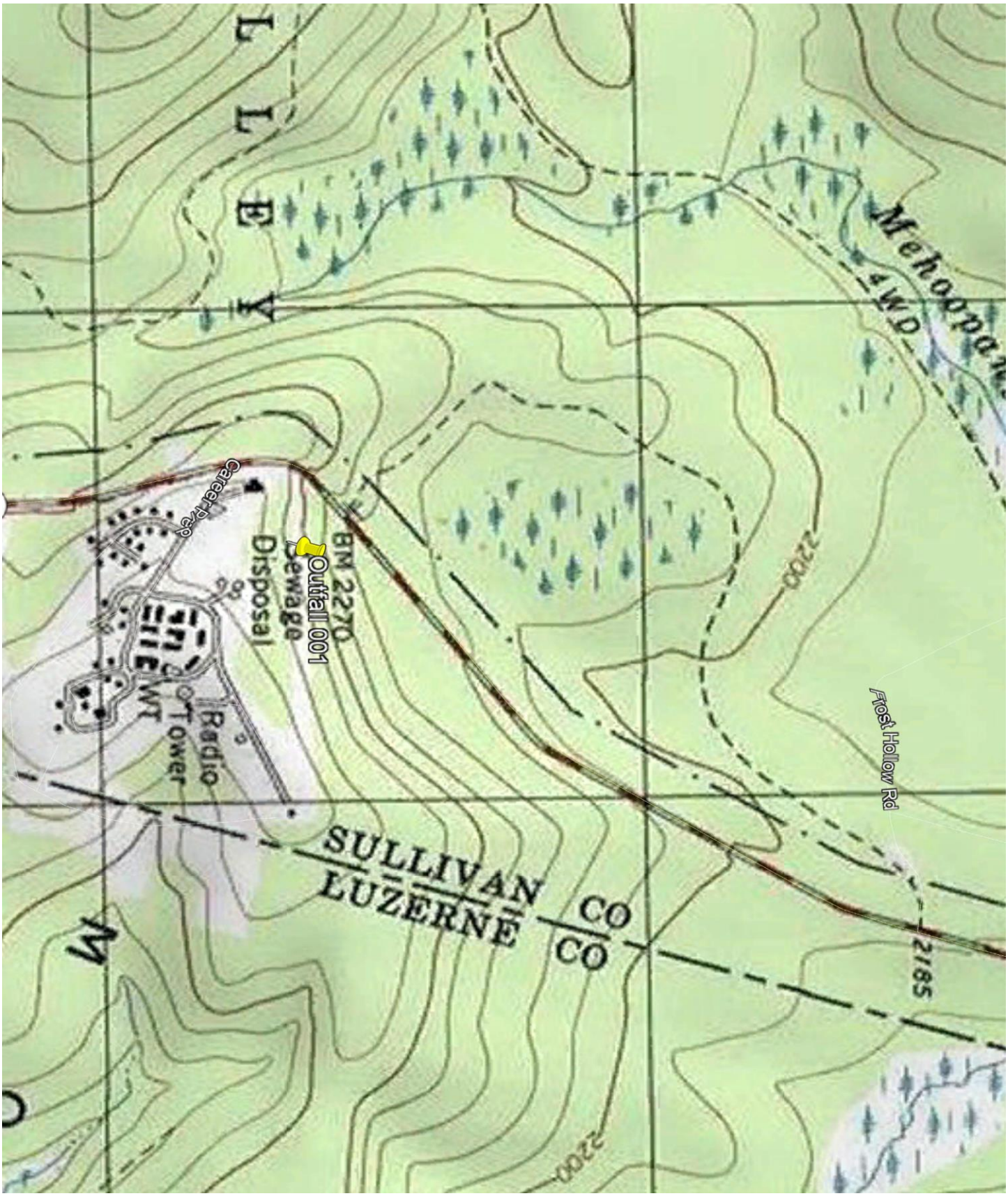
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Instantaneous 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	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	Report	XXX	XXX	XXX	1/day	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	10	XXX	20	2/month	8-Hr Composite
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
UV Transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Metered
Total Nitrogen	XXX	Report Daily Max	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite
Ammonia-nitrogen	XXX	Report Daily Max	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Total Phosphorus	XXX	Report Daily Max	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite

Compliance Sampling Location: Outfall 001

Other Comments: The above limits and monitoring are unchanged from the existing permit with the exception of the DO monitoring increasing from twice per month to daily and the ammonia-nitrogen monitoring increasing from annually to twice per month as mentioned above.

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	PENTOXSD for Windows Model (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Toxics Screening Analysis Spreadsheet (see Attachment)
☒	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☒	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
☒	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
☐	Pennsylvania CSO Policy, 385-2000-011, 9/08.
☒	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
☒	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
☒	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
☐	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.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
☒	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 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, 391-2000-019, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 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, 391-2000-022, 3/1999.
☒	Design Stream Flows, 391-2000-023, 9/98.
☐	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.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
☒	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☒	SOP: Establishing Effluent Limitations for Individual Sewage Permits
☐	Other:



Facility Location Map