

Application Type New
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0254827
 APS ID 992145
 Authorization ID 1271472

Applicant and Facility Information

Applicant Name	<u>PBS Coals Inc.</u>	Facility Name	<u>A Seam Deep Mine STP</u>
Applicant Address	<u>PO Box 260</u> <u>Friendens, PA 15541</u>	Facility Address	<u>Intersection Of Sr 3010 & Sr 2031</u> <u>Berlin, PA 15530</u>
Applicant Contact	<u>Matthew Twichell</u>	Facility Contact	<u>Kim Shick</u>
Applicant Phone	<u>(814) 443-4668</u>	Facility Phone	<u>(814) 443-4668</u>
Client ID	<u>233</u>	Site ID	<u>746073</u>
Municipality	<u>Brothersvalley Township</u>	County	<u>Somerset</u>
Date Application Received	<u>April 30, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 1, 2019</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renew NPDES permit.</u>		

Summary of Review

NPDES Permit No. PA0254827 was originally issued on October 9, 2014. It is set to expire on October 31, 2019.

The facility name referenced in previous NPDES Permit No. PA0254827 is "A Deep Mine STP" and will be retained for this renewal permit.

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.



Pol Rep PA0254827

Approve	Deny	Signatures	Date
x		David R. Ponchione / Project Manager /s/	August 30, 2019
x		Chris Kriley, P.E. / Program Manager for Donald J. Leone, P.E. / Environmental Engineer Manager /s/	September 3, 2019

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>005</u>	Design Flow (MGD)	<u>0.003</u>
Latitude	<u>39° 55' 53</u>	Longitude	<u>-79° 2' 56"</u>
Quad Name	<u>Murdock</u>	Quad Code	<u>1913</u>
Wastewater Description: <u>Treated Sanitary Sewage</u>			
Receiving Waters	<u>Wilson Creek</u>	Stream Code	<u>38947</u>
NHD Com ID	<u>69918491</u>	RMI	<u>5.3500</u>
Drainage Area	<u>0.23</u>	Yield (cfs/mi ²)	<u>0.009</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00204</u>	Q ₇₋₁₀ Basis	<u>USGS</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u>0.00676</u>
Watershed No.	<u>19-F</u>	Chapter 93 Class.	<u>WWF</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>Metals, pH</u>		
Source(s) of Impairment	<u>Abandoned Mine Drainage</u>		
TMDL Status	<u>Final, 04/09/2009</u>	Name	<u>Coxes Creek Watershed</u>
Nearest Downstream Public Water Supply Intake		<u>Indian Creek Valley Water Authority</u>	

Changes Since Last Permit Issuance: None

Other Comments: None

Treatment Facility Summary

Treatment Facility Name: A Seam Deep Mine

Changes Since Last Permit Issuance: None

The applicant proposes to discharge treated sanitary wastewater from a proposed STP.

The STP will have a hydraulic design flow of 0.003 MGD. The permittee was informed by way of the draft and final cover letters, and Part C of the NPDES permit, that a WQM permit is required before the plant can be constructed.

Compliance History

Summary of DMRs: The STP has not yet been constructed, therefore there are no effluent results. DMR's are being submitted and indicate that there is not discharge as the plant has not yet been constructed.

Operations Compliance Check Summary Report

Facility: PBS Coals Deep Mine STP

NPDES Permit No.: PA0254827

Compliance Review Period: 9/2014 – 9/2019

Inspection Summary:

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC
2348418	03/03/2015	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted

Violation Summary:

No violations noted

Open Violations by Client ID:

CLIENT ID	CLIENT	PF ID	FACILITY	PF STATUS	INSP PROGRAM	VIOLATION DATE	VIOLATION
233	PBS COALS INC	244776	SHADE CK COAL PREP	Active	MING Coal Regulatory	07/18/2019	Failure to comply with the terms and conditions of the permit
233	PBS COALS INC	247276	CAMBRIA FUEL PREP PLT	Active	MING Coal Regulatory	11/16/2011	Failure to handle acid forming spoil to prevent water pollution
233	PBS COALS INC	247276	CAMBRIA FUEL PREP PLT	Active	MING Coal Regulatory	11/16/2011	Failure to properly design, construct or maintain sedimentation ponds
233	PBS COALS INC	247276	CAMBRIA FUEL PREP PLT	Active	MING Coal Regulatory	09/20/2011	Failure to handle acid forming spoil to prevent water pollution

233	PBS COALS INC	697926	SCHROCK RUN MINE	Reclamation Complete	MING Coal Regulatory	10/05/2009	Failure to properly design, construct or maintain erosion & sedimentation controls
233	PBS COALS INC	272248	PBS COALS DIAMOND T DEEP MINE	Reclamation Complete	MING Coal Regulatory	03/17/2008	No violation - Voluntary Reclamation Activity

Enforcement Summary:

No enforcement

DMR Violation Summary:

No discharge. Plant not built

Compliance Status:

Permittee in compliance with Clean Water. Plant not built.

Completed by: John Murphy

Completed date: 8/27/2019

Development of Effluent Limitations

Outfall No. <u>005</u>	Design Flow (MGD) <u>0.003</u>
Latitude <u>39° 55' 53"</u>	Longitude <u>-79° 2' 56"</u>
Wastewater Description: <u>Treated sanitary sewage</u>	

The receiving stream is located in State Water Plan watershed 19-F and is classified for Warm Water Fishes, aquatic life, water supply and recreation. The discharge is not expected to affect public water supplies.

WQM modeling has been done. CBOD, TSS, DO and NH₃-N effluent limits are based on this modeling. Standard Fecal Coliform limits are imposed. TRC modeling has been done to impose TRC limits. The monitoring of Total Phosphorous, Total Nitrogen, Total Aluminum, Total Iron, and Total Manganese are imposed based on the Department Policy and stream condition. Nitrite & Nitrate Evaluation shows no limits are needed for NO₂-N and NO₃-N.

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)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
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 Nitrogen	Report	Average Monthly	-	92a.61
Total Phosphorous	Report	Average Monthly	-	92a.61
Total Aluminum	Report	Average Monthly	-	Department Policy for streams impaired with AMD metals.
Total Iron	Report	Average Monthly	-	Department Policy for streams impaired with AMD metals.
Total Manganese	Report	Average Monthly	-	Department Policy for streams impaired with AMD metals.

Comments: The above effluent limitation values s are consistent with the previous NPDES permit.

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
NH ₃ -N (May 1 – Oct 31)	2.5	Average Monthly	WQM7.0
(Nov 1 – Apr 30)	7.5		
Total Residual Chlorine	0.1	Average Monthly	TRC Modeling

Comments: The above effluent limitations are consistent with the previous NPDES 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) and/or BPJ.

Outfall 005, Effective Period: Permit Effective Date through Permit Expiration Date

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly		Instant. Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	0.003	XXX	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine	XXX	XXX	XXX	0.1	XXX	0.24	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60.0	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 005, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly		Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	XXX	2.5	XXX	5.0	2/month	Grab
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	XXX	7.5	XXX	15.0	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Manganese	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Compliance Sampling Location: Outfall 005

Other Comments: The above effluent limitations and monitoring requirements are consistent with the previous NPDES permit with a few minor changes as follows:

- The units for Fecal Coliform are now expressed as “No./100 ml” in lieu of “CFU/100 ml”.
- The “Minimum” effluent limitations for the parameters pH and Dissolved Oxygen are now “Instantaneous Minimum”.