

Application Type New  
Facility Type Industrial  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL INDUSTRIAL WASTE (IW)  
AND IW STORMWATER**

Application No. PA0207849  
APS ID 1008069  
Authorization ID 1299469

**Applicant and Facility Information**

Applicant Name	<u>Williams Gas Pipeline Transco</u>	Facility Name	<u>Leidy South Project</u>
Applicant Address	<u>2800 Oak Post Boulevard Level 11</u> <u>Houston, TX 77056</u>	Facility Address	<u>Hilltop Lane &amp; Dry Run Road</u> <u>Chapman Township, PA 17760</u>
Applicant Contact	<u>Joseph Dean</u>	Facility Contact	<u>Joseph Dean</u>
Applicant Phone	<u>(713) 215-3427</u>	Facility Phone	<u>(713) 215-3427</u>
Client ID	<u>163321</u>	Site ID	<u>838662</u>
SIC Code	<u>4619</u>	Municipality	<u>Multiple</u>
SIC Description	<u>Trans. &amp; Utilities - Pipelines, Nec</u>	County	<u>Multiple</u>
Date Application Received	<u>December 18, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>New IW NPDES application for discharge of hydrostatic test water</u>		

**Summary of Review**

On December 18, 2019 Transcontinental Gas Pipe Line Company, LLC (Transco) submitted an individual industrial permit application for the discharge of hydrostatic test water from the Leidy South Project. The application includes proposed discharges from 7 different outfalls in Clinton, Columbia, Luzerne, Lycoming and Schuylkill Counties. These discharges would normally qualify for coverage under the PAG-10 General Permit for Discharges from Hydrostatic Testing of Tanks and Pipelines. However, this project does not qualify for a PAG-10 because four of the proposed outfalls are in High Quality (HQ) or Exceptional Value (EV) waters. The discharges will occur in counties covered by both the Northcentral and Northeast Regional Offices, so the permit will be issued by the Bureau of Clean Water.

Hydrostatic testing will be conducted on two new pipeline loops, one pipeline replacement, one compressor station modification and two new compressor stations. Transco expects that each section will only be hydrostatically tested once. All testing will be completed before placing the facilities into service. At each discharge location water will flow through a hydrostatic dewatering structure into well vegetated upland areas and will flow overland before potentially reaching a surface water. When necessary, water will be dechlorinated prior to discharge. Water sources to conduct the hydrostatic testing will come from potable municipal water sources or surface waters within proximity of each facility. Transco projects that a total of 3.72 million gallons of water will be used for testing. It is expected that discharges will occur in the 4<sup>th</sup> quarter of 2021.

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

Approve	Deny	Signatures	Date
X		<i>Maria Schumack</i> Maria L Schumack, P.E. / Environmental Engineer Consultant	April 20, 2020
X		<i>Sean Furjanic</i> Sean M. Furjanic, P.E. / Environmental Program Manager	April 20, 2020

**Summary of Review**

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.	<u>001</u>	Design Flow (MGD)	<u>0.96</u>
Latitude	<u>41° 24' 8.78"</u>	Longitude	<u>-77° 44' 34.02"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Hydrostatic Test Water</u>			
Receiving Waters	<u>Mudlick Run</u>	Stream Code	<u>23515</u>
NHD Com ID	<u>61114525</u>	RMI	<u>0.5800</u>
Drainage Area	_____	Yield (cfs/mi <sup>2</sup> )	_____
Q <sub>7-10</sub> Flow (cfs)	<u>0.00055</u>	Q <sub>7-10</sub> Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>9-B</u>	Chapter 93 Class.	<u>EV, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>002</u>	Design Flow (MGD)	<u>0.65</u>
Latitude	<u>41° 22' 1.39"</u>	Longitude	<u>-77° 39' 59.99"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Hydrostatic Test Water</u>			
Receiving Waters	<u>Unnamed Tributary to Dry Run (HQ-CWF, MF)</u>	Stream Code	<u>23506</u>
NHD Com ID	<u>61114637</u>	RMI	<u>0.2800</u>
Drainage Area	_____	Yield (cfs/mi <sup>2</sup> )	_____
Q <sub>7-10</sub> Flow (cfs)	<u>0.00013</u>	Q <sub>7-10</sub> Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>9-B</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>003</u>	Design Flow (MGD)	<u>0.96</u>
Latitude	<u>41° 15' 43.41"</u>	Longitude	<u>-76° 31' 56.20"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Hydrostatic Test Water</u>			
Receiving Waters	<u>West Branch Little Muncy Creek (EV (existing use))</u>	Stream Code	<u>19581</u>
NHD Com ID	<u>66912781</u>	RMI	<u>0.5200</u>
Drainage Area	<u></u>	Yield (cfs/mi <sup>2</sup> )	<u></u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.153</u>	Q <sub>7-10</sub> Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>10-D</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use	<u>EV(EXCEPTIONAL VALUE)</u>	Existing Use Qualifier	<u>RBP - Antidegradation</u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>004</u>	Design Flow (MGD)	<u>0.061</u>
Latitude	<u>41° 18' 0.70"</u>	Longitude	<u>-76° 13' 3.55"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Hydrostatic Test Water</u>			
Receiving Waters	<u>Lick Branch (HQ-CWF, MF)</u>	Stream Code	<u>27890</u>
NHD Com ID	<u>65634183</u>	RMI	<u>1.8700</u>
Drainage Area	<u></u>	Yield (cfs/mi <sup>2</sup> )	<u></u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.0626</u>	Q <sub>7-10</sub> Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>5-C</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>005</u>	Design Flow (MGD)	<u>0.031</u>
Latitude	<u>41° 6' 29.74"</u>	Longitude	<u>-76° 26' 31.08"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Hydrostatic Test Water</u>			
Receiving Waters	<u>Unnamed Tributary to Green Creek (TSF, MF)</u>	Stream Code	<u>27770</u>
NHD Com ID	<u>65638881</u>	RMI	<u>1.6400</u>
Drainage Area	_____	Yield (cfs/mi <sup>2</sup> )	_____
Q <sub>7-10</sub> Flow (cfs)	_____	Q <sub>7-10</sub> Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>5-C</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>006</u>	Design Flow (MGD)	<u>0.031</u>
Latitude	<u>41° 6' 29.74"</u>	Longitude	<u>-76° 26' 31.08"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Hydrostatic Test Water</u>			
Receiving Waters	<u>Unnamed Tributary to Green Creek (TSF, MF)</u>	Stream Code	<u>27770</u>
NHD Com ID	<u>65638881</u>	RMI	<u>1.6400</u>
Drainage Area	_____	Yield (cfs/mi <sup>2</sup> )	_____
Q <sub>7-10</sub> Flow (cfs)	_____	Q <sub>7-10</sub> Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>5-C</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>007</u>	Design Flow (MGD)	<u>0.078</u>
Latitude	<u>40° 40' 23.10"</u>	Longitude	<u>-76° 28' 30.67"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Hydrostatic Test Water</u>			
Receiving Waters	<u>Deep Creek (CWF, MF)</u>	Stream Code	<u>17236</u>
NHD Com ID	<u>54969011</u>	RMI	<u>2.4300</u>
Drainage Area	<u></u>	Yield (cfs/mi <sup>2</sup> )	<u></u>
Q <sub>7-10</sub> Flow (cfs)	<u></u>	Q <sub>7-10</sub> Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>6-C</u>	Chapter 93 Class.	<u>CWF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Final</u>	Name	<u>Pine Creek - Schuylkill County</u>

**Development of Effluent Limitations**

This is a new permit application so effluent screening information is not available, therefore a traditional reasonable potential analysis will not be conducted. The permittee will only be hydrostatically testing each section once, therefore an effluent screening will not be required during the permit term. It is expected that the permittee will terminate the permit shortly after the hydrostatic tests are conducted. The permittee will not be allowed to use any chemical additives that would add pollutants to the source water used for testing.

Four of the proposed outfalls are to special protection watersheds or the facility would otherwise qualify for the PAG-10 General Permit. The permittee conducted an anti-degradation analysis and submitted Module 4 of the NPDES Permit Application for Industrial Discharges. Transco has selected the non-discharge alternative of land application for these discharges. They have concluded that discharge to surface waters would likely not occur due to the distance between the outfall structures and receiving streams. However, these outfalls will still be regulated in case of an event that the wastewater does make it to surface waters. While it is expected that all wastewater will be infiltrated, non-degrading limits for parameters of concern associated with hydrostatic testing of pipelines will be developed. Non-degrading limits are utilized to protect the existing quality of HQ and EV waters.

It is expected that each segment will only be hydrostatically tested once. Transco is proposing to use batch discharges at each outfall. Each discharge will last 10 hours/day based on employee work schedules. Discharges will continue until all water used for hydrostatic testing has been discharged.

Development of limits for each outfall is as follows:

<b>Outfall No.</b>	001	<b>Design Flow (MGD)</b>	0.96
<b>Latitude</b>	41° 23' 58.82"	<b>Longitude</b>	-77° 45' 5.97"
<b>Wastewater Description:</b>	Hydrostatic Test Water		

Outfall 001 is proposed to discharge to Mudlick Run which is designated as EV. Hydrostatic test water from 6.3 miles of 36-inch pipeline from the Hensel replacement will be discharged via Outfall 001. The proposed outfall location is approximately 0.5 miles from Mudlick Run.

<b>Outfall No.</b>	002	<b>Design Flow (MGD)</b>	0.65
<b>Latitude</b>	41° 21' 59.19"	<b>Longitude</b>	-77° 40' 29.79"
<b>Wastewater Description:</b>	Hydrostatic Test Water		

Outfall 002 is proposed to discharge to an Unnamed Tributary to Dry Run which is designated as HQ-CWF. Hydrostatic test water from 2.4 miles of 36-inch pipeline from the Hilltop Loop will be discharged via Outfall 002. The outfall location is approximately 0.45 miles from the Unnamed Tributary to Dry Run.

Because the outfalls discharge to special protection waters, non-degrading limits for Outfalls 001 & 002 were developed. Site-specific data is not available to determine existing quality, therefore, Water Quality Network Station WQN458 was used as a reference station to determine the water quality objective and upstream concentration. Geologic characteristic data between the outfalls and WQN458 is presented in Table 1 below:

*Table 1. Geological Characteristics*

Outfall/ WQN	Lat/Long Coordinates	Stream Name	Period of Record	Desig. Use	D.A. mi <sup>2</sup>	% Urban	% Forest	Elevation	Physiographic Province	Distance (mi)
001	41.399672 -77.751658	Mudlick Run		EV	0.067	0	100	1750	Appalachian Plateau - Mountainous High Plateau	32
002	41.366442 -77.674108	Trib to Dry Run		HQ- CWF	0.07	0	76	1748.2	Appalachian Plateau - Mountainous High Plateau	28

458	41.327742 -77.128981	Hoagland Run	10/10 - present		10.7	0	98	1619	Appalachian Plateau - Mountainous High Plateau	
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The anti-degradation analysis spreadsheet was run to determine non-degrading limits (see Attachment A). This spreadsheet implements the concepts in the *Water Quality Antidegradation Implementation Guidance* (391-0300-002). A separate analysis was done for each outfall due to differing discharge and design stream flows, however the results were the same. A summary of the resulting limits is presented in Table 2 below:

Table 2. Non-degrading limits for Outfalls 001 & 002

Parameter	AML (mg/L)	IMAX (mg/L)
Total Suspended Solids	8.6	17.2
TRC	0	0
Dissolved Iron	0.17	0.43
Total Dissolved Solids	72.3	181.0

Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). To measure compliance with the TRC requirement Transco will be required to achieve a non-detect results using a Quantitation Limit of 0.02 mg/L or less.

All applicable limits from the PAG-10 will also be applied. Those limits are presented in Table 3 below.

Table 3. Applicable PAG-10 limits

Parameter	Average Monthly (mg/L)	IMAX (mg/L)
Dissolved Oxygen		5.0 (min)
pH (S.U.)	6.0 (min)	9.0
Total Suspended Solids	30	60
Oil and Grease	15	30
Dissolved Iron	XXX	7.0

The more stringent of the limits in Table 2 and Table 3 will apply.

Table 4. Recommended Limits for Outfalls 001 & 002

Parameter	AML (mg/L)	IMAX (mg/L)
Total Suspended Solids	8.6	17.2
Total Dissolved Solids	72.3	181.0
Dissolved Oxygen	5.0 (min)	
pH (S.U.)	6.0 (min)	9.0
Oil & Grease	15	30
Total Residual Chlorine	<0.02	<0.02
Dissolved Iron	0.17	0.43

In addition, Flow, Duration of Discharge and Total Monthly Volume Discharge will be monitored.

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<b>Outfall No.</b>	<u>003</u>	<b>Design Flow (MGD)</b>	<u>0.96</u>
<b>Latitude</b>	<u>41° 15' 43.10"</u>	<b>Longitude</b>	<u>-76° 31' 45.91"</u>
<b>Wastewater Description:</b>	<u>Hydrostatic Test Water</u>		

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Outfall 003 is proposed to discharge to West Branch Little Muncy Creek which has an existing use of EV. Hydrostatic test water from 3.5 miles of 42-inch pipeline from the Benton Loop will be discharged via Outfall 003. The outfall location is approximately 0.15 miles from West Branch Little Muncy Creek.



Outfall No. 004  
Latitude 41° 18' 1.15"  
Wastewater Description: Hydrostatic Test Water

Design Flow (MGD) 0.061  
Longitude -76° 13' 17.51"

Outfall 004 is proposed to discharge to Lick Branch which has a designated use of HQ-CWF. Hydrostatic test water from the new Compressor Station 607 in Luzerne County will be discharged via Outfall 004. At this location the project will install two gas turbine-driven compressor units and gas coolers. The outfall location is approximately 0.2 miles from Lick Creek

Because the outfalls discharge to special protection waters, non-degrading limits for Outfalls 003 & 004 were developed. Site-specific data is not available to determine existing quality, therefore, WQN447 was used as a reference station to determine the water quality objective and upstream concentration. Geologic characteristic data between the outfalls and WQN447 is presented in Table 5 below:

Table 5. Geological Characteristics

Outfall/ WQN	Lat/Long Coordinates	Stream Name	Period of Record	Desig. Use	D.A. mi <sup>2</sup>	% Urban	% Forest	Elevation	Physiographic Province	Distance (mi)
003	41.261972 -76.529419	West Branch Little Muncy Creek		EV (Existing use)	3.42	0	82	1641	Ridge and Valley - Appalachian Mountain Section	32.8
004	41.300319 -77.674108	Lick Branch		HQ- CWF	0.93	0	99	1537	Ridge and Valley - Appalachian Mountain Section	48.2
447	41.023889 -76.221531	Spruce Run	8/98 - 12/04	EV	6.5	1.8	97.9	1575	Ridge and Valley - Appalachian Mountain Section	

The anti-degradation analysis spreadsheet was run to determine non-degrading limits (see Attachment A). This spreadsheet implements the concepts in the *Water Quality Antidegradation Implementation Guidance* (391-0300-002). A separate analysis was done for each outfall due to differing discharge and design stream flows. A summary of the resulting limits is presented in Table 6 and Table 7 below:

Table 6. Non-degrading limits for Outfall 003

Parameter	AML (mg/L)	IMAX (mg/L)
Total Suspended Solids	10.2	20.4
TRC	0	0
Dissolved Iron	0.034	0.085
Total Dissolved Solids	54.8	137.0

Table 7. Non-degrading limits for Outfall 004

Parameter	AML (mg/L)	IMAX (mg/L)
Total Suspended Solids	30.9	61.8
TRC	0	0
Dissolved Iron	0.034	0.085
Total Dissolved Solids	96.2	240.5

Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). To measure compliance with the TRC requirement Transco will be required to achieve a non-detect results using a Quantitation Limit of 0.02 mg/L or less.

All applicable limits from the PAG-10 will also be applied. Those limits are presented in Table 8 below.

Table 8. Applicable PAG-10 limits

Parameter	Average Monthly (mg/L)	IMAX (mg/L)
Dissolved Oxygen		5.0 (min)
pH (S.U.)	6.0 (min)	9.0
Total Suspended Solids	30	60
Oil and Grease	15	30
Dissolved Iron	XXX	7.0

The more stringent of the limits in Tables 6-7 and Table 8 will apply.

Table 9. Recommended limits for Outfall 003

Parameter	AML (mg/L)	IMAX (mg/L)
Total Suspended Solids	10.2	20.4
Dissolved Iron	0.034	0.085
Total Dissolved Solids	54.8	137.0
Dissolved Oxygen		5.0 (min)
pH (S.U.)	6.0	9.0
Oil & Grease	15	30
Total Residual Chlorine	<0.02	<0.02

Table 10. Recommended limits for Outfall 004

Parameter	AML (mg/L)	IMAX (mg/L)
Total Suspended Solids	30	60
Dissolved Iron	0.034	0.85
Total Dissolved Solids	96.2	240.5
Dissolved Oxygen		5.0 (min)
pH (S.U.)	6.0	9.0
Oil & Grease	15	30
Total Residual Chlorine	<0.02	<0.02

In addition, Flow, Duration of Discharge and Total Monthly Volume Discharge will be monitored.

Outfall No. 005  
Latitude 41° 6' 27.77"  
Wastewater Description: Hydrostatic Test Water

Design Flow (MGD) .031  
Longitude -76° 26' 52.41"

Outfall No. 006  
Latitude 41° 6' 32.06"  
Wastewater Description: Hydrostatic Test Water

Design Flow (MGD) .031  
Longitude -76° 26' 59.75"

Outfalls 005 and 006 are proposed to receive hydrostatic test waster from exisiting Compressor Station 610 in Columbia County. The permittee only expects to use one of these outfalls. At this location the project will add one gas turbine-driven compressor unit at the station and increase the total certificated horsepower of two electric motor-driven units from 40,000 HP to 42,000 HP and re-wheel the exisiting compressors. Both outfalls discharge to an Unnamed Tributary to Green Creek. Outfalls 005 and 006 will be subject to the effluent limits and monitoring conditions laid out in PAG-10 for exisiting pipelines.

Outfall 005 is approximately 0.3 miles from the receiving water and Outfall 006 is approximately 1.1 miles from the receiving stream.

The permittee only intends to hydrostatically test new components, however, the limits in PAG-10 for existing facilities will be applied at Outfalls 005 & 006 in case the hydrostatic test water inadvertently contacts existing components. The limits for existing pipelines in PAG-10 will be applicable at Outfalls 006 & 007.

Table 11. Recommended limits for Outfalls 005 & 006

Parameter	Minimum (mg/L)	Average Monthly (mg/L)	IMAX (mg/L)
Dissolved Oxygen	5.0	XXX	XXX
pH (S.U.)	6.0	XXX	9.0
Total Residual Chlorine	XXX	Report	0.05
Total Suspended Solids	XXX	30	60
Oil and Grease	XXX	15	30
Dissolved Iron	XXX	XXX	7.0
Benzene	XXX	XXX	0.0025
BTEX	XXX	XXX	0.025
Total PCBs	XXX	Report	Report

In addition, Flow, Duration of Discharge and Total Monthly Volume Discharge will be monitored.

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<b>Outfall No.</b>	<u>007</u>	<b>Design Flow (MGD)</b>	<u>.078</u>
<b>Latitude</b>	<u>40° 40' 27.44"</u>	<b>Longitude</b>	<u>-76° 28' 27.03"</u>
<b>Wastewater Description:</b>	<u>Hydrostatic Test Water</u>		

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Outfall 007 is proposed to discharge to Deep Creek. Hydrostatic test water from the new Compressor Station 620 in Schuylkill County will be discharged via Outfall 007. At this location the project will install one gas turbine-driven compressor unit (31,871 nominal HP at ISO conditions). The outfall location is approximately 0.15 miles from Deep Creek.

Deep Creek is impaired for Pathogens in the vicinity of the proposed discharge, but the hydrostatic test water is not expected to contribute to that impairment. Deep Creek is a part of the TMDL for Pine Creek – Schuylkill County. The TMDL addresses Pine Creek’s impairment for metals caused by acid mine drainage. Since this will not be a recurring discharge it is not expected that it will contribute to the impairment. The segment of Deep Creek where the discharge occurs in not impaired due to AMD. Monitoring for Aluminum, Iron and Manganese will not be required.

The limits for new pipelines in PAG-10 will be applicable at Outfall 007.

Table 12. Recommended limits for Outfall 007

Parameter	Minimum (mg/L)	Average Monthly (mg/L)	IMAX (mg/L)
Dissolved Oxygen	5.0	XXX	XXX
pH (S.U.)	6.0	XXX	9.0
Total Residual Chlorine	XXX	Report	0.05
Total Suspended Solids	XXX	30	60
Oil and Grease	XXX	15	30
Dissolved Iron	XXX	XXX	7.0

In addition, Flow, Duration of Discharge and Total Monthly Volume Discharge will be monitored.

**Sample Type and Frequency**

Sample type for all pollutants will be grab. Flow and duration of discharge will be measured. Dissolved Oxygen, pH and Total Residual Chlorine will be measured twice per discharge. All other parameters will be measured once per discharge. Each batch discharge will be considered a separate discharge for the purposes of this requirement.

**Additional Requirements**

Applicable conditions in the PAG-10 General Permit will be required as a part of this permit. Because this is an individual permit Transco will not be eligible to use the 15-day Notification Form available to PAG-10 permittees to add additional outfalls. If Transco wishes to add additional outfalls, they must apply for a permit amendment.

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	PENTOXSD for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Toxics Screening Analysis Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input 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 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 checked="" 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 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 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 type="checkbox"/>	SOP: [redacted]
<input type="checkbox"/>	Other: [redacted]

## ATTACHMENT A

### NON-DEGRADING LIMITS ANALYSIS FOR OUTFALLS 001, 002, 003 and 004

**Outfall 001**

**Spreadsheet to evaluate Non-Degradation of Water Quality**

Parameter	WQ Objective	Mean Concentration	Concentration	Units	Multiplier	Non degrad C AML	Units	
TSS	5	5	5.00	mg/L	1.72	8.60	mg/L	TSS
TRC	0	0	0.00	mg/L	1.72	0.00	mg/L	TRC
TDS	42	36	42.04	mg/L	1.72	72.31	mg/L	TDS
Iron Dissolved	100	100	100.00		1.72	172.00	ug/L	

Q Discharge	0.96	mgd	=	1.48512	cfs
Q Upstream Q <sub>7-10</sub>	0.00055	cfs	=	0.010521	Q <sub>hm</sub> cfs
			Q total =	1.495641	cfs

**Source of information:**

WQ Objective: WQN 458

Upstream Concentration: WQN 458

Multiplier from LTA to AMV @CV of 0.5 TABLE on page 64

$$Q_{hm} = 7.43 \times (Q_{7-10})^{.874}$$

<b>C total</b>	Values are from WQN Station (Upper 95% confidence limit)
<b>C</b>	Values are from WQN Station Median Concentration

**Preliminary Limitations are the more stringent of ABACT, Non-degradation or QBEL for each parameter of concern.**

**Outfall 002**

Spreadsheet to evaluate Non-Degradation of Water Quality

Parameter	WQ Objective	Mean Concentration	Concentration	Units	Multiplier	Non degrad C AML	Units	
TSS	5	5	5.00	mg/L	1.72	8.60	mg/L	TSS
TRC	0	0	0.00	mg/L	1.72	0.00	mg/L	TRC
TDS	42	36	42.02	mg/L	1.72	72.27	mg/L	TDS
Iron Dissolved	100	100	100.00	ug/L	1.72	172.00	ug/L	Iron Dissolved

Q Discharge = 0.65 mgd = 1.00555 cfs  
 Q Upstream Q<sub>7-10</sub> = 0.00013 cfs = 0.002982 Q<sub>hm</sub> cfs  
 Q total = 1.008532 cfs

**Source of information:**  
 WQ Objective: WQN 458  
 Upstream Concentration: WQN 458  
 Multiplier from LTA to AMV @CV of 0.5 TABLE on page 64  
 $Q_{hm} = 7.43 \times (Q_{7-10})^{.874}$

<b>C total</b>	Values are from WQN Station (Upper 95% confidence limit)
<b>C</b>	Values are from WQN Station Median Concentration

Preliminary Limitations are the more stringent of ABACT, Non-degradation or WQBEL for each parameter of concern.



**Outfall 003**

Spreadsheet to evaluate Non-Degradation of Water Quality

Parameter	WQ Objective	Mean Concentration	Concentration	Units	Multiplier	Non degrad C AML	Units	
TSS	4	2	5.94	mg/L	1.72	10.22	mg/L	TSS
TRC	0	0	0.00	mg/L	1.72	0.00	mg/L	TRC
TDS	28	24	31.88	mg/L	1.72	54.83	mg/L	TDS
Iron Dissolved	20	20	20.00	ug/L	1.72	34.40	ug/L	Iron Dissolved

Q Discharge = 0.96 mgd = 1.48512 cfs  
 Q Upstream Q<sub>7-10</sub> = 0.153 cfs = 1.440155 Q<sub>hm</sub> cfs  
 Q total = 2.925275 cfs

**Source of information:**  
 WQ Objective: WQN 447  
 Upstream Concentration: WQN 447  
 Multiplier from LTA to AMV @CV of 0.5 TABLE on page 64  
 $Q_{hm} = 7.43 \times (Q_{7-10})^{.874}$

<b>C total</b>	Values are from WQN Station (Upper 95% confidence limit)
<b>C</b>	Values are from WQN Station Median Concentration

Preliminary Limitations are the more stringent of ABACT, Non-degradation or WQBEL for each parameter of concern.

**Outfall 004**

Spreadsheet to evaluate Non-Degradation of Water Quality

Parameter	WQ Objective	Mean Concentration	Concentration	Units	Multiplier	Non degrad C AML	Units	
TSS	4	2	17.98	mg/L	1.72	30.92	mg/L	TSS
TRC	0	0	0.00	mg/L	1.72	0.00	mg/L	TRC
TDS	28	24	55.95	mg/L	1.72	96.24	mg/L	TDS
Iron Dissolved	20	20	20.00	ug/L	1.72	34.40	ug/L	Iron Dissolved

Q Discharge = 0.061 mgd = 0.094367 cfs  
 Q Upstream Q<sub>7-10</sub> = 0.0626 cfs = 0.65947 Q<sub>hm</sub> cfs  
 Q total = 0.753837 cfs

**Source of information:**

WQ Objective: WQN 447  
 Upstream Concentration: WQN 447  
 Multiplier from LTA to AMV @CV of 0.5 TABLE on page 64  
 $Q_{hm} = 7.43 \times (Q_{7-10})^{.874}$

<b>C total</b>	Values are from WQN Station (Upper 95% confidence limit)
<b>C</b>	Values are from WQN Station Median Concentration

Preliminary Limitations are the more stringent of ABACT, Non-degradation or WQBEL for each parameter of concern.