

*Atlantic Sunrise Project – PA DEP Chapter 105 Joint Permit Application
Transcontinental Gas Pipe Line Company, LLC
Luzerne County*

ATTACHMENT N -1
STORMWATER ANALYSIS AND CONSISTENCY

Revised November 18, 2016

*Atlantic Sunrise Project – PA DEP Chapter 105 Joint Permit Application
Transcontinental Gas Pipe Line Company, LLC
Luzerne County
Attachment N - Stormwater Analysis And Consistency*

Please refer to Attachment C of this application for copies of the letters and consistency requests which have been sent to each County and Municipality. Stormwater analysis letters that have been provided to the County / Municipality, as well as any concurrence letters from the County / Municipality, if received at the time of the application submittal, have been included in this section. Additional concurrence letters will be provided upon receipt; however because this Project is subject to the jurisdiction of the Federal Energy Regulatory Commission (FERC) under the Natural Gas Act, FERC has exclusive jurisdiction over siting. Therefore, local zoning is preempted.



Liberty Technology Center
2200 Liberty Avenue, Suite 100
Pittsburgh, PA 15222

412.713.7100 PHONE
412.471.2348 FAX

www.trcsolutions.com

October 26, 2016

Plains Township Board of Commissioners
Attn: Kathleen O'Boyle, Secretary
126 North Main Street
Plains, PA 18705
(570) 829-3439

Re: Atlantic Sunrise Project
PADEP Application No. E40-769
Plains Township, Luzerne County
Stormwater Management Consistency

Dear Plains Township Commissioners:

On behalf of the Transcontinental Gas Pipeline Company, LLC, a subsidiary of Williams Partners L.P. (Williams) TRC Solutions and BL Companies, Inc. (BL) are providing one copy each of the Erosion and Sediment Control (E&SC) Plans, Site Restoration Plan (SR) Plan, and related narrative for Williams' Atlantic Sunrise Project (Project) temporary contractor yard CY-LU-2-05 that is located within Plains Township, Luzerne County. These plans and narrative are planned to be submitted to the Pennsylvania Department of Environmental Protection (PADEP) and Luzerne County Conservation District as part of Williams' Erosion and Sediment Control General Permit 2 and Chapter 105 Water Obstruction and Encroachment packages for the proposed Project.

A stormwater management consistency letter from Plains Township commenting on the stormwater management analysis is required as part of the Chapter 105 Application package; therefore, we respectfully request that Plains Township review the attached plans and narratives and provide a response within 30 days of the receipt of this letter indicating consistency with respect to the Township's stormwater management ordinances. Should you have any questions or comments, please contact Al Busher of BL at (717) 651-9850 or abusher@blcompanies.com or me at (412) 713-7117 or screscenzo@trcsolutions.com.

Sincerely,

Steve Crescenzo
Senior Environmental Scientist

Enclosures: E&SC Plans, Site Restoration Plan, and Related Narrative (Luzerne County, Appendix E.2)

E.2

CN-CY-LU-2-05 Contractor Yard – Site Specific Narrative and Calculations

Site Specific Narrative

Topographic Features

A USGS Topographic Map is provided as a part of this Contractor Yard's Appendix.

Soil Characteristics

The NRCS Soils Map is provided following this narrative as part of this Contractor Yard's Appendix. Refer to the E&SC Plans for more information on the Site soils.

Earth Disturbance Activity

Proposed Improvements and Land Use

The Phase 1 Contractor Yard will be constructed in Plains Township, Luzerne County. The Contractor Yard will include the reuse of an existing construction yard for temporary material storage and staging area during pipeline construction. The Contractor Yard will be used for construction material storage, preparation and staging, and for construction equipment storage. No earthmoving activity is anticipated and no impervious area will result from the Project.

Present/Past Land Use

The Site is currently located in a gravel construction yard with pockets of vegetation. The existing vegetation will remain and is not to be disturbed. Refer to Section 1.3 of this report for details of the land uses of this Contractor Yard.

Project Site Runoff

Act 167 Summary

Site is located within a current, PADEP approved Act 167 Stormwater Management Watershed Plan. No new impervious area is proposed for the Site and existing vegetated areas will remain in a vegetated condition. The approximate original contours of the Contractor Yard will remain, which will maintain the pre-construction drainage patterns. No change in the runoff rate or volume is anticipated for the 1-year through 100-year storm event.

Surface Water Classification

The attached drawings depict the locations of the streams and wetlands in and near the LOD for the Project. The Project area surface water runoff drains to the Susquehanna River and Mill Creek. The receiving waters are designated as Warm Water Fishery (WWF) and Cold Water Fishery (CWF) under PA Code 25 Chapter 93 respectively.

The Susquehanna River watershed is listed as impaired in the PADEP Chapter 93 Integrated List; Source unknown – Mercury, PCB and Abandoned Mine Drainage. The Mill Creek watershed is listed as impaired in the PADEP Chapter 93 Integrated List; Urban Runoff/StormSewers-Water/Flow variability and Abandoned Mine Drainage.

BMP Description Narrative

As no earth disturbance is proposed, there are no proposed BMPs for this site.

BMP Installation Sequence of Construction

1. Make notifications according to permit requirements.
2. Hold pre-construction conference with environmental inspectors.
3. If applicable, install security fence. The necessity of a security fence will be at the discretion of the Contractor.
4. Remove security & construction fence after the Site is no longer of use.

Maintenance Program

Monitoring

Transcontinental Gas Pipe Line Company LLC's (Transco's) personnel (Operations) will perform an annual visual inspection until permit closure, by qualified personnel, trained and experienced in E&SC, to ascertain that the Site remained stable and to ensure the Site erosion is causing no undue burden on the property owner or adjacent owners.

Maintenance

Maintenance of the Site will be consistent with the maintenance program for the Project. Refer to Sections 1.10 and 1.11 of this report for the specific maintenance program for the Site.

Soil Conditions and Geologic Formations

Refer to Section 1.12 of this report for soil conditions and geologic formations for the Contractor Yard. Soils within the site LOD are not known to potentially produce acidic stormwater runoff. In the event that unanticipated acid runoff producing soils are encountered, refer to Acid Producing Soils and Bedrock Control Plan, located in the Best Management Practices and Quantities Plan set for material handling requirements

Thermal Impacts

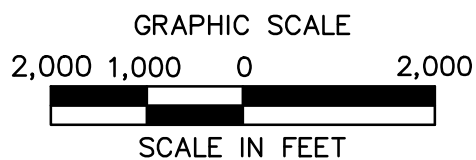
The Pre-Developed and Post-Developed surface will remain similar. No change in thermal impacts are expected

Riparian Forest Buffer

There are no regulated riparian buffers within the Contractor Yard area.

Antidegradation Requirements

The Project is not located in a special protection watershed but is in a siltation impaired watershed. No new proposed impervious cover is proposed for the Site. As a result, no additional stormwater runoff and no degradation of the watershed is anticipated.



BL ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
Companies

ATLANTIC SUNRISE PROJECT
CN-CY-LU-2-05 CONTRACTOR YARD
AERIAL LOCATION MAP
PLAINS TOWNSHIP
LUZERNE COUNTY, PENNSYLVANIA



NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	08-28-15	BL	ISSUED FOR PADEP PERMIT SUBMITTAL	1161481	SMK		BWM	04/03/15		1"=2,000'
1	12-02-15	BL	ISSUED FOR PADEP RESUBMITTAL	1161481	AJB		AOE	04/03/15		
2	09-01-16	BL	MOD 1 ISSUED FOR PADEP SUBMITTAL	1161481	AJB		AJB	04/03/15		
3	Oct. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1	1161481	AJB					
							WO:	1161481	DRAWING NUMBER:	CN-CY-LU-2-05 LOCATION
										SHEET 1 OF 1

Worksheet 1. General Site Information

INSTRUCTIONS: Fill out Worksheet 1 for each watershed

Date: 16-Mar-15

Project Name: Atlantic Sunrise Pipeline - CN-CY-LU-2-05 Contractor Yard

Municipality: Plains Township

County: Luzerne County

Total Area (acres): 16.89

Major River Basin: Susquehanna River

<http://www.dep.state.pa.us/dep/depupdate/watermgt/wc/default.htm#newtopics>

Watershed: Toby-Wapwallopen Creeks

Sub-Basin: N/A

Nearest Surface Water(s) to Receive Runoff: Mill Creek

Chapter 93 - Designated Water Use: CWF

<http://www.pacode.com/secure/data/025/chapter93/chap93toc.html>

Impaired according to Chapter 303(d) List? Yes

<http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqstandards/303d-Report.htm> No

List Causes of Impairment: Urban Runoff/Storm Sewers, Abandoned Mine Drainage

Is project subject to, or part of:

Municipal Separate Storm Sewer System (MS4) Requirements? Yes

[http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterM](http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterManagement/GeneralPermits/default.htm) No

[anagement/GeneralPermits/default.htm](http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterManagement/GeneralPermits/default.htm)

Existing or planned drinking water supply? Yes

No

If yes, distance from proposed discharge (miles): _____

Approved Act 167 Plan? Yes

[http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterM](http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterManagement/Approved_1.html) No

[anagement/Approved_1.html](http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterManagement/Approved_1.html)

Existing River Conservation Plan? Yes

<http://www.dcnr.state.pa.us/brc/rivers/riversconservation/planningprojects/> No

Worksheet 1. General Site Information

INSTRUCTIONS: Fill out Worksheet 1 for each watershed

Date: 16-Mar-15

Project Name: Atlantic Sunrise Pipeline - CN-CY-LU-2-05 Contractor Yard

Municipality: Plains Township

County: Luzerne County

Total Area (acres): 17.53

Major River Basin: Susquehanna River

<http://www.dep.state.pa.us/dep/depupdate/watermgt/wc/default.htm#newtopics>

Watershed: Toby-Wapwallopen Creeks

Sub-Basin: N/A

Nearest Surface Water(s) to Receive Runoff: Susquehanna River

Chapter 93 - Designated Water Use: WWF

<http://www.pacode.com/secure/data/025/chapter93/chap93toc.html>

Impaired according to Chapter 303(d) List? Yes

<http://www.dep.state.pa.us/dep/deputate/watermgt/wqp/wqstandards/303d-Report.htm> No

List Causes of Impairment: Source Unknown-Mercury, PCB; Abandoned Mine Drainage

Is project subject to, or part of:

Municipal Separate Storm Sewer System (MS4) Requirements? Yes

<http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterManagement/GeneralPermits/default.htm> No

Existing or planned drinking water supply? Yes

No

If yes, distance from proposed discharge (miles): _____

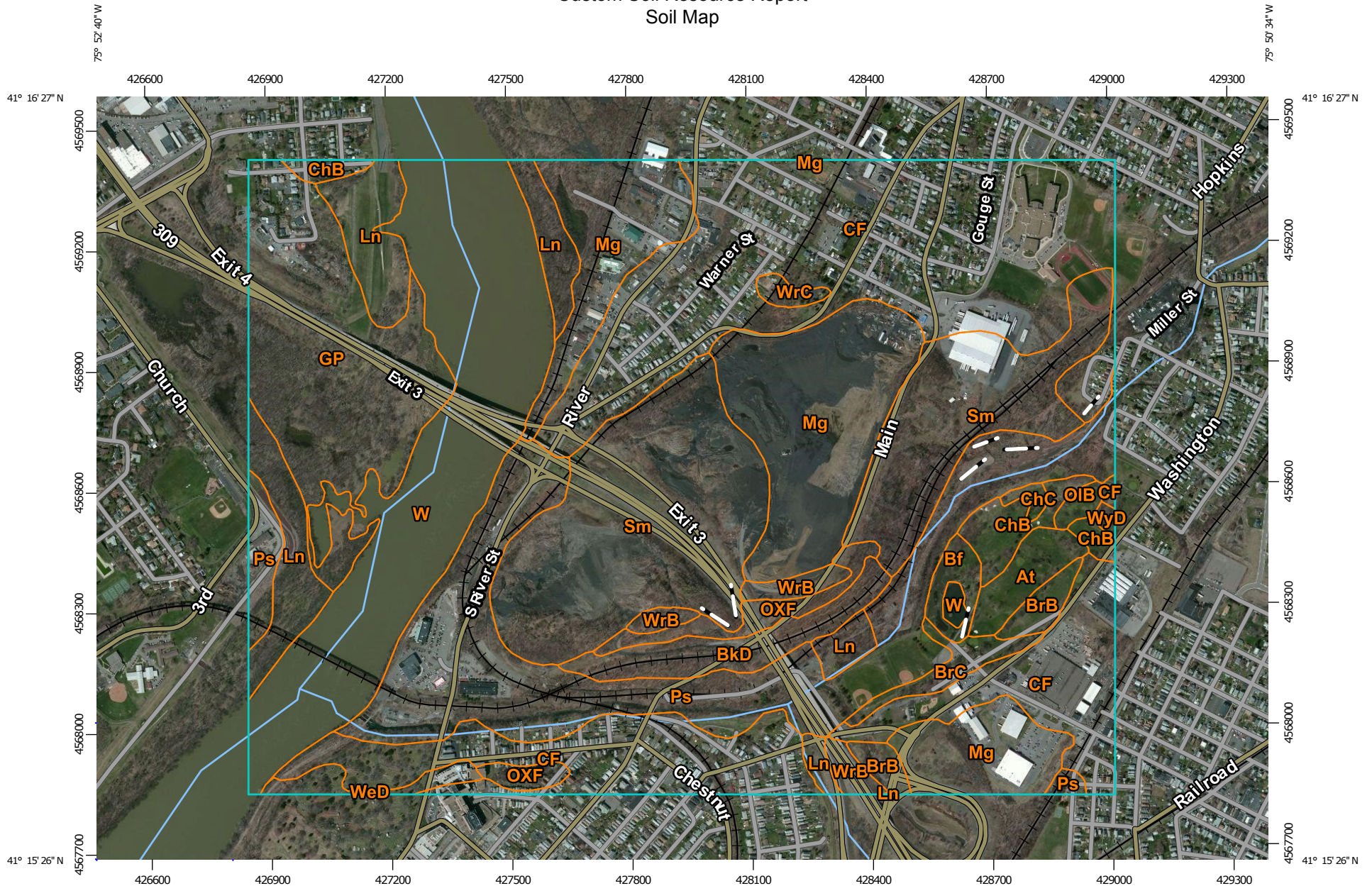
Approved Act 167 Plan? Yes

http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterManagement/Approved_1.html No

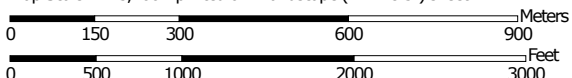
Existing River Conservation Plan? Yes

<http://www.dcnr.state.pa.us/brc/rivers/riversconservation/planningprojects/> No

Custom Soil Resource Report Soil Map




Map Scale: 1:13,400 if printed on A landscape (11" x 8.5") sheet.




Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84


MAP LEGEND


Area of Interest (AOI)

 Area of Interest (AOI)




















Soils




 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

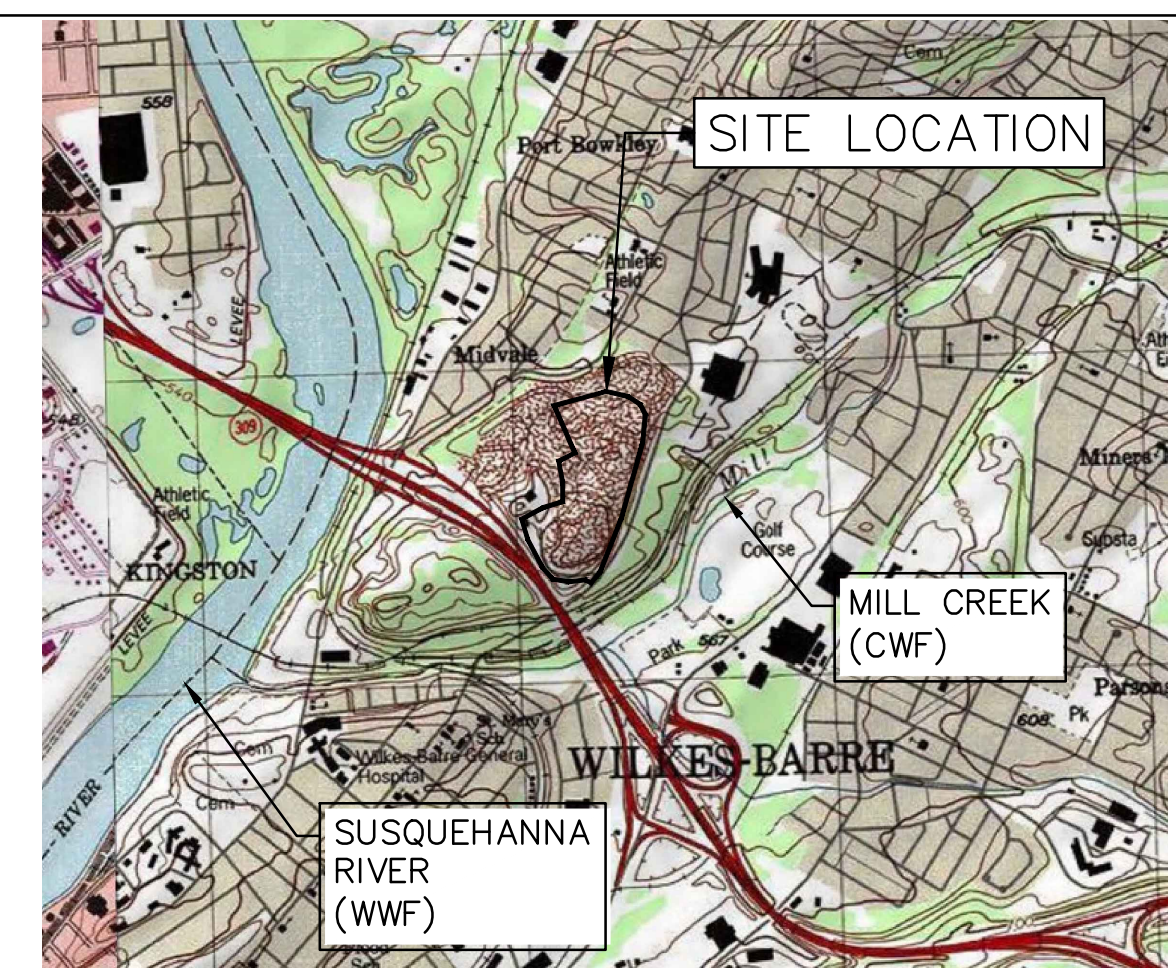
Soil Survey Area: Luzerne County, Pennsylvania
 Survey Area Data: Version 8, Nov 16, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 14, 2011—May 10, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Drawn By & Date/Time: bmetzger Oct 01, 2016 - 1:13pm
 Drawing Location & Name: G:\0851A\14C\14C4909\DWG\010-CPLN\CY_EC14C4909(10)_LU-2-05.dwg



LOCATION MAP

USGS PITTSFORD QUADRANGLE
 SCALE: 1" = 2,000'

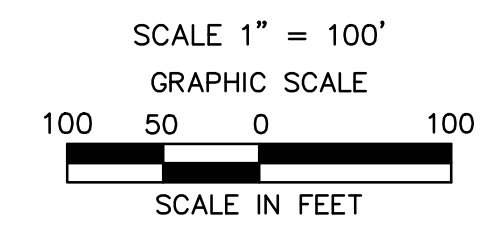
LEGEND

- EXISTING FEATURES**
- PROPERTY BOUNDARY LINE (APPROXIMATE)
 - EXISTING MAJOR CONTOUR (10' INTERVAL)
 - EXISTING MINOR CONTOUR (2' INTERVAL)
 - FENCE
 - STONE ROW
 - SOIL BOUNDARY
 - TREELINE
 - CENTERLINE STREAM/EDGE WATERBODY
 - DELINEATED WETLANDS
 - SPOT ELEVATION
 - TREE OR BUSH
 - UTILITY POLE AND UTILITY LINE
 - GUY POLE
 - GUY POLE OR ANCHOR
 - POST
 - SIGN
 - WATER WELL
 - UTILITY BOX
 - MONUMENT (PROPERTY BOUNDARY MARKER)
 - IRON PIPE OR PIN (PROPERTY BOUNDARY MARKER)
 - SOIL TYPE DESIGNATION
 - EXTENT OF EXISTING GRAVEL YARD
- Wsb**
- SWALE LINING/EROSION CONTROL BLANKET
 - ROCK OUTLET/RIPRAP APRON
 - SEDIMENT BARRIER DESIGNATION
- PROPOSED FEATURES**
- PROPOSED TEMPORARY MAJOR CONTOUR (10' INTERVAL)
 - PROPOSED TEMPORARY MINOR CONTOUR (2' INTERVAL)
 - LIMIT OF DISTURBANCE (OVERALL PIPELINE PROJECT)
 - ESCGP2 - ESCGP-2 PERMIT BOUNDARY
 - SEDIMENT BARRIER
 - FILTER SOCK DIVERSION
 - ORANGE CONSTRUCTION FENCE
 - BREAKLINE

SITE SOIL TYPES

- Mg** MINE DUMP
- OXF** OQUAGA AND LORDSTOWN EXTREMELY STONY SILT LOAMS, STEEP
- Sm** STRIP MINE
- WrB** WURTSBORO CHANNERY LOAM, 3 TO 8 PERCENT SLOPES

* SOILS WITHIN SITE LOD ARE KNOWN TO POTENTIALLY PRODUCE ACIDIC STORMWATER RUNOFF. REFER TO ACID PRODUCING SOILS AND BEDROCK CONTROL PLAN, LOCATED IN THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET FOR MATERIAL HANDLING REQUIREMENTS.



LIMIT OF DISTURBANCE

AREA OF THE LIMIT OF DISTURBANCE IS:
 ±1,499,214 SF / 32.42 AC.

**PHASE 1 CPLN CONTRACTOR YARD SPREAD 2 OPTION 5 - PLAINS TOWNSHIP
 CN-CY-LU-2-05**

Date			Description			By			REVISIONS				
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.	NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/28/2015	BL	ISSUED FOR PADEP SUBMITTAL	W0161481	SMK								
1	12/02/2015	BL	ISSUED FOR PADEP RESUBMITTAL	W0161481	SMK								
2	09/01/2016	BL	MODIFICATION 1 ISSUED FOR PADEP SUBMITTAL	W0161481	AJB								
3	Oct 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1	W0161481	AJB	AJB							

TRANSCONTINENTAL GAS PIPELINE COMPANY LLC											
ATLANTIC SUNRISE PROJECT - PROPOSED 30" NATURAL GAS PIPELINE											
SOIL EROSION & SEDIMENT CONTROL AND LAYOUT PLANS FOR											
ABOVE GROUND FACILITIES & ASSOCIATED PERMANENT ACCESS ROADS											
LUZERNE COUNTY, PENNSYLVANIA											
SOIL EROSION AND SEDIMENT CONTROL PLAN											
DRAWN BY: HFT			DATE: 04/03/15			ISSUED FOR BID:			SCALE: AS NOTED		
CHECKED BY: AJB			DATE: 04/03/15			ISSUED FOR CONSTRUCTION:			REVISION: 3		
APPROVED BY: AJB			DATE: 04/03/15			DRAWING NUMBER: 24-1601-70-28-A/1683_3			SHEET 1 OF 3		
WG: 1161481						CY-CN-CY-LU-2-05					

ALARIC J. BUSHER REG. NO. PE 60320



EARTH DISTURBANCE ACTIVITY - PAST, PRESENT, AND FUTURE LAND USES

THE LAND USES FOUND WITHIN THE PROJECT AREA IS A GRAVEL CONSTRUCTION YARD. ACCORDING TO THE IMAGERY PROVIDED BY THE PENNSYLVANIA GEOLOGICAL SURVEY, THE LAND USES WITHIN THE PROJECT AREA REMAINED SIMILAR OVER THE PAST YEARS. FUTURE LAND USE WOULD INVOLVE MINIMAL IMPACT WITH THE CONTINUED USE AS A TEMPORARY CONTRACTOR YARD.

RECEIVING WATERCOURSE - CHAPTER 93 DESIGNATION

THE RECEIVING WATERCOURSE IS THE SUSQUEHANNA RIVER (WWF) AND MILL CREEK (CWF).

THERMAL IMPACT ANALYSIS

THE PRE-DEVELOPED AND POST-DEVELOPED SURFACE WILL REMAIN SIMILAR. NO CHANGE IN THERMAL IMPACTS ARE EXPECTED.

SEQUENCE OF CONSTRUCTION


1. MAKE NOTIFICATIONS ACCORDING TO PERMIT REQUIREMENTS.
2. HOLD PRE-CONSTRUCTION CONFERENCE WITH ENVIRONMENTAL INSPECTORS.
3. IF APPLICABLE, INSTALL SECURITY FENCE. THE NECESSITY OF A SECURITY FENCE WILL BE AT THE DISCRETION OF THE CONTRACTOR.
4. REMOVE SECURITY FENCE AND COMPOST FILTER SOCK AFTER THE SITE IS NO LONGER OF USE.

Drawn By & Date/Time: bmetzger Oct 01, 2016 - 1:14pm
Drawing Location & Name: G:\OBST14\14C\14C4909\DWG\010-CPLN\CY_EC14C4909(10)_LU-2-05.dwg

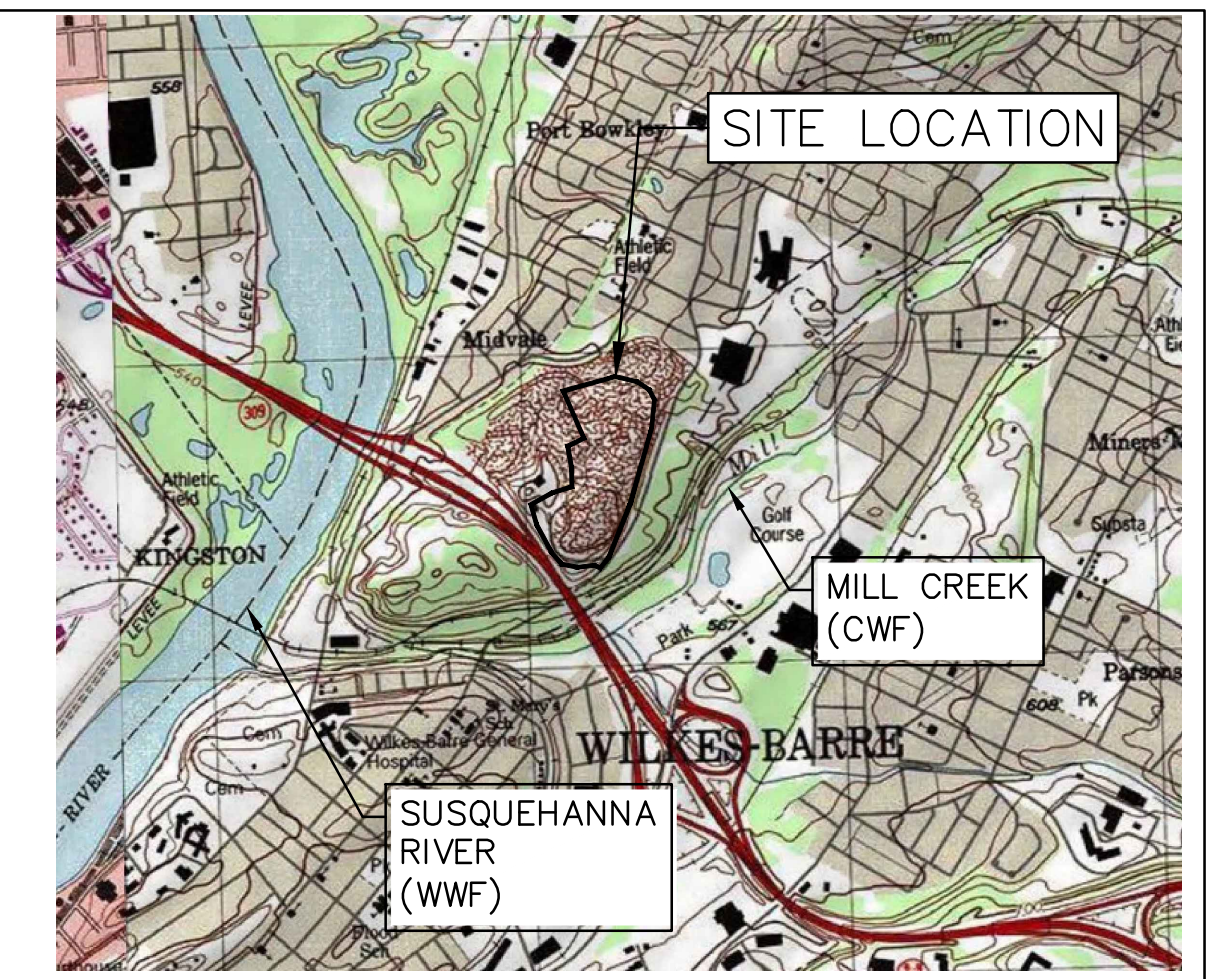
**PHASE 1 CPLN CONTRACTOR YARD SPREAD 2 OPTION 5 - PLAINS TOWNSHIP
CN-CY-LU-2-05**

Date	Description	By	REVISIONS						
			NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
05/29/15	Internal QA/QC	AJB	0	08/28/2015	BL	ISSUED FOR PADEP SUBMITTAL	W0161481	SMK	
05/29/15	Internal Review	DAK	1	12/02/2015	BL	ISSUED FOR PADEP RESUBMITTAL	W0161481	SMK	
05/23/16	Internal Review	AJB	2	09/01/2016	BL	MODIFICATION 1 ISSUED FOR PADEP SUBMITTAL	W0161481	AJB	
09/16/16	Internal Review	AJB	3	Oct 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1	W0161481	AJB	AJB
10/03/16	Internal Review	DK/TH							

TRANSCONTINENTAL GAS PIPELINE COMPANY LLC ATLANTIC SUNRISE PROJECT- PROPOSED 30" NATURAL GAS PIPELINE SOIL EROSION & SEDIMENT CONTROL AND LAYOUT PLANS FOR ABOVE GROUND FACILITIES & ASSOCIATED PERMANENT ACCESS ROADS LUZERNE COUNTY, PENNSYLVANIA SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS										
DRAWN BY:		HFT	DATE:	04/03/15	ISSUED FOR BID:		SCALE:			AS NOTED
CHECKED BY:		AJB	DATE:	04/03/15	ISSUED FOR CONSTRUCTION:		REVISION:			3
APPROVED BY:		AJB	DATE:	04/03/15	DRAWING NUMBER:		24-1601-70-28-A/1683_3		SHEET 2	
WG:		1161481		CY-CN-CY-LU-2-05				OF 3		

ALARIC J. BUSHER REG NO. PE 60320
 ARCHITECTURE
 ENGINEERING
 ENVIRONMENTAL
 LAND SURVEYING





LOCATION MAP

USGS PITTSBURGH QUADRANGLE
SCALE: 1"=2,000'

LEGEND

EXISTING FEATURES

- PROPERTY BOUNDARY LINE (APPROXIMATE)
- EXISTING MAJOR CONTOUR (10' INTERVAL)
- EXISTING MINOR CONTOUR (2' INTERVAL)
- FENCE
- STONE ROW
- SOIL BOUNDARY
- TREELINE
- CENTERLINE STREAM/EDGE WATERBODY
- DELINEATED WETLANDS
- SPOT ELEVATION
- TREE OR BUSH
- UTILITY POLE AND UTILITY LINE
- GUY POLE
- GUY POLE OR ANCHOR
- POST
- SIGN
- WATER WELL
- UTILITY BOX
- MONUMENT (PROPERTY BOUNDARY MARKER)
- IRON PIPE OR PIN (PROPERTY BOUNDARY MARKER)
- SOIL TYPE DESIGNATION
- EXTENT OF EXISTING GRAVEL YARD

PROPOSED FEATURES

- LIMIT OF DISTURBANCE (OVERALL PIPELINE PROJECT)
- ESCGP-2 PERMIT BOUNDARY

ESCGP-2 PERMIT TABLE*

LIMIT OF ESCGP-2 PERMIT BOUNDARY/SITE AREA FOR CN-CY-LU-2-05	INCLUDED IN OVERALL PERMIT AREA
LIMITS OF DISTURBANCE FOR CONTRACTOR YARD	34.42 AC.
AREA OF PROTECTED /SENSITIVE VALUE FEATURES	0.00 AC.
AREA OF RIPARIAN FOREST BUFFER PROTECTION	0.00 AC.
AREA OF MINIMUM DISTURBANCE/REDUCED GRADING	0.00 AC.
STORMWATER MANAGEMENT AREA N/A*	N/A*
DISTURBED AREA CONTROLLED BY BMPs	N/A*

*THE CONTRACTOR YARD IS A TEMPORARY STAGING AREA AND WILL BE MAINTAINED AT EXISTING GRADE THROUGHOUT AND AT THE COMPLETION OF CONSTRUCTION.

PHASE 1 CPLN CONTRACTOR YARD SPREAD 2 OPTION 5 - PLAINS TOWNSHIP
CN-CY-LU-2-05



RECEIVING WATERCOURSE - CHAPTER 93 DESIGNATION

THE RECEIVING WATERCOURSE IS THE SUSQUEHANNA RIVER (WWF) AND MILL CREEK (CWF).

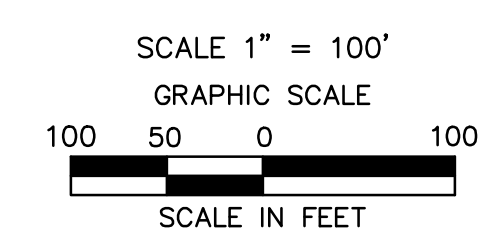
SITE SOIL TYPES

- Mg** MINE DUMP
- OXF** OQUAGA AND LORDSTOWN EXTREMELY STONY SILTY LOAMS, STEEP SLOPES
- Sm** STRIP MINE
- WrB** WURTSBORO CHANNERY LOAM, 3 TO 8 PERCENT SLOPES

* SOILS WITHIN SITE LOD ARE KNOWN TO POTENTIALLY PRODUCE ACIDIC STORMWATER RUNOFF. REFER TO ACID PRODUCING SOILS AND BEDROCK CONTROL PLAN, LOCATED IN THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET FOR MATERIAL HANDLING REQUIREMENTS.

NOTES

- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY WILLIAMS AND ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
- THE CONTRACTOR SHALL CONTACT PA ONE CALL A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.



Date	Description	By	NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
05/29/15	Internal QA/QC	AJB	0	08/28/2015	BL	ISSUED FOR PADEP SUBMITTAL	W0161481	SMK	
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10/03/16	Internal Review	DK/TH							

ALARIC J. BUSHER REG NO. PE 60320									

TRANSCONTINENTAL GAS PIPELINE COMPANY LLC									
ATLANTIC SUNRISE PROJECT- PROPOSED 30" NATURAL GAS PIPELINE									
POST CONSTRUCTION STORMWATER MANAGEMENT PLANS FOR									
ABOVE GROUND FACILITIES & ASSOCIATED PERMANENT ACCESS ROADS									
LUZERNE COUNTY, PENNSYLVANIA									
SITE RESTORATION PLAN									
DRAWN BY:	HFT	DATE:	04/03/15	ISSUED FOR BID:		SCALE:	AS NOTED		
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WG:	1161481				CY-CN-CY-LU-2-05	OF	3		