



TRANSMITTAL

5295 South Commerce Drive, Ste. 500

Murray, Utah 84107

P: 801.736.8537 F: 801.261.3913

TO: Michael Luciani

NFG FM100 Project

FROM: Theresa Albanese

PURCHASE ORDER NO: N/A

DATE: 20200312

TASK: Permit Application – Incompleteness Submittal

SUBJECT: NFG FM100 Project Response to Incompleteness
Notification: DEP Application No ESG830019003-00

☐ For Review
☐ Urgent

☐ Please Comment
☒ As Requested

☐ For Approval
☐ Approved as Noted

☐ For Signature
☐ Please Reply

MESSAGE:

Dear Mr. Luciani,

Enclosed you will find the revised response letter dated 3/12/2020 addressing the additional information requested for ESCGP3 permit incompleteness notification letter dated 12/24/2019 and your emails dated 2/27/2020 and 3/05/2020 for National Fuel Gas Supply Corporation's FM100 Project.

We previously submitted a CD with digital copies for your review.

As documented, we have addressed all outstanding comments and request that the Department issue a Completeness Determination so that we can move into technical review.

Please let me know if you have any questions; you can contact me at the 413.315.2409.

Regards,

Theresa Albanese

CC: PROJECT FILE
WAYNE GRAHAM
MELISSA HARRISON

This document outlines National Fuel Gas Supply Corporation's response to the Pennsylvania Department of Environmental Protection Incompleteness Notice letter issued for the FM100 Project on December 24, 2019. This response, dated March 12, 2020, addresses the list of items missing as identified in the Department's emails dated February 27, 2020 and March 5, 2020.

Each comment has been reproduced and a corresponding answer provided. Where applicable and as noted, National Fuel has updated information and mapping and provided these in separate Attachments. Revised versions of these documents are being provided in digital format as part of this response.

Original Comment #2

Please provide copies of the municipal and county return receipts. [25 Pa Code §105.13a(a)].

Specifically, in Elk County, municipal notifications were sent to Jones Township, the City of St. Marys, Jay Township and Benezette Township. However, according to the maps, it does not appear that there is any proposed work within those municipal limits. Please verify that the project will be proposing earth disturbance within these municipalities.)

Response:

The Department's email dated February 27, 2020 noted that the Act 14 municipal notification letter to Keating Township, McKean County, was missing. Within Keating Township, National Fuel proposes to impact approximately 11.70 acres of land for Rights-of-Way (ROW) and access roads associated with the proposed Staging Area No. 7. The Act 14 Notification letter was not submitted to the Township in the original Permit application submittal.

A letter was sent to Keating Township on February 28, 2020 and received on March 2, 2020. A copy the proof of delivery generated by the U.S. Postal Service online tracking system demonstrating delivery to the Township of Keating, McKean County is provided as Attachment A (Return Receipt for the Act 14 notification letter).

Within Elk County, the originally proposed project included work in Jones Township and the City of St. Mary's; however, that portion of the project was dropped from the scope of work so there is currently no work proposed for the project in these municipalities. Regarding Jay Township, the portion of Line FM100 that is proposed for abandonment passes through the township boundaries; however, there is no work proposed within Jay Township. Consequently, the Act 14 landuse notification letters were sent to these municipalities in error.

In Benazette Township we have proposed abandonment activities as seen on the Index Sheet of the E&S drawings for Elk County. Benazette is the only township in Elk County where NFG proposes project activities/land disturbance.

Original Comment #3

A review of Appendix A found that the table references those streams identified as naturally reproducing trout (wild trout) waters as listed by the PA Fish and Boat Commission. The table also lists whether in-stream work restrictions (based on wild trout spawn periods) are applicable in the specified water bodies. In the Clearfield County section of the table, several streams are identified as "Yes/NRT", but under the "In-Stream Work Restrictions" column those same streams have the word "None", indicating no in-stream work restrictions will be required in those streams that are designated as naturally reproducing wild trout. This is incorrect. A quick scan of the table found the same inconsistencies in other counties as well.

Response:

Please note that an updated/revised Waterbodies Table 2.2-1A was provided to the Department and the County Conservation Districts in the last submission as Attachment B-Comment PW-3 for the data incompleteness response dated February 25, 2020. In that submission, the table inconsistencies were resolved. Therefore, it is possible that the Conservation Districts were reviewing an older, outdated version.

However, for convenience, the updated Table has been provided again and can be found in Attachment B.

New Comments:

Comment 1

Pg. 7, NOI, Section b: The box for alternative BMP or design has been checked. In review of the proposed project, it has been noticed that there are erosion and sediment control BMP's from the New York E&S Manual. Should these proposed erosion and sediment control BMPs be proposed for use during construction activities within Pennsylvania, they will have to be reviewed by the Bureau of Waterways Engineering and Wetlands as an alternative erosion and sediment control BMP. If this was not the intent, please revise the Erosion and Sediment Control Plans and include the erosion and sediment control BMPs from the Pennsylvania Erosion and Sediment Pollution Control Program Manual, dated March 2012.

Response:

Page 7 of the NOI has been revised to uncheck box stating “E&S Plan is designed using an alternative BMP or design standard approved by DEP.”

National Fuel’s Erosion and Sediment Control and Agriculture Mitigation Plan (ESCAMP) has been updated to remove all references to New York standards and BMPs. The Erosion and Sediment Control Plans do not include BMP's, nor were the designs based on the New York E&S Manual.

The updated ESCAMP, revised March 9, 2020 and the NOI are provided in Attachment C.

Comment 2

On the Erosion and Sediment Control Plans, please clearly identify which section of pipeline will be proposed as new construction, and which section of pipeline will be abandonment. It appears that the pipelines (abandonment and new) are the same color on the alignment sheets. Please revise accordingly.

Response:

For clarity, the modernization (proposed pipeline) section and abandonment section of the Project were provided as separate E&S and Site Restoration mapbooks. The legend item representing the abandonment pipeline for each abandonment mapbook was mistakenly labeled “Proposed Pipeline.” Each of the abandonment mapbook index sheets has been revised to properly label this line type as “Existing Pipeline to be Abandoned.”

The following updated index sheets are enclosed as Attachment D:

- Abandonment E&S Mapbook Index Sheet
- Abandonment E&S Mapbook Index Sheet – Cameron County
- Abandonment E&S Mapbook Index Sheet – Clearfield County
- Abandonment E&S Mapbook Index Sheet – Elk County
- Abandonment E&S Mapbook Index Sheet – Potter County
- Abandonment Site Restoration Mapbook Index Sheet
- Abandonment Site Restoration Mapbook Index Sheet – Cameron County
- Abandonment Site Restoration Mapbook Index Sheet – Clearfield County
- Abandonment Site Restoration Mapbook Index Sheet – Elk County
- Abandonment Site Restoration Mapbook Index Sheet – Potter County

Comment 3

Within Clearfield County, the appendices/tables are blank from Pages 44 to 67. These include the “Waterbodies Crossed by the Project”, “Wetlands Located with Project Work Area”, “Floodplains Crossed by the Project”, and “Water Supply Wells and Springs within 150-feet of Project Work Area”. Please provide these appendices/tables.

Response:

We understand that Clearfield County Conservation District did not receive hard copies of the referenced Appendices and Tables, in our previous submittal dated February 25, 2020. We apologize for this unintentional oversight and have provided hard copies of all missing appendices and tables (Pages 44 to 67) that were previously omitted.

We provided the following Appendices/Tables: Wetlands Located with Project Work Area”, “Floodplains Crossed by the Project” and “Water Supply Wells and Springs within 150-feet of Project Work Area” in Attachment E.

Table 2.2-1 - Waterbodies Crossed by the Project is provided in Attachment B as previously addressed above in original comment #3.

Comment 4

Legends on the Plan Drawings are missing, incomplete or inconsistent. Please revise accordingly.

Response:

Please refer to the response provided above for Comment 2.

Attachment A



David S. McClain, Chairman
Keating Township
7160 Route 46
P.O. Box 103
East Smethport, PA 16730

via USPS

National Fuel Gas Supply Corporation

FM 100 Project

Land Use Notification Letter: Request for Land Use Response
Keating Township, Pennsylvania

5295 South Commerce Drive
Suite 500
Murray, UT 84107
United States of America

February 27, 2020

Dear Mr. McClain,

T +1 (801) 571 6522
F +1 (801) 261 3913
www.mottmac.com/americas

On behalf of National Fuel Gas Supply Corporation (National Fuel), Mott MacDonald is sending this notice to inform you of National Fuel's intent to submit an application for coverage under the Pennsylvania Department of Environmental Protection (PADEP) Chapter 102 Erosion and Sediment Control General Permit (ESCGP-3) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations Facilities, and a USACE Joint Permit - Chapter 105 Water Obstructions and Encroachment Permit. National Fuel has a PAG 10 for discharges from hydrostatic testing.

This notification satisfies the requirements of Acts 14, 67, 68, 127 of the Pennsylvania Municipalities Planning Code for the following project:

Project Name: FM100 Project (Project)

Project Description: The primary purpose of the Project, as designed and filed with FERC (Docket No. CP-19-491-000), is to modernize a portion of National Fuel's existing pipeline system. The Project will allow for the removal from service and abandonment of approximately 44.9 miles of vintage steel pipe. National Fuel's risk analysis has prioritized the replacement of these aging facilities. In order to continue to provide the existing transportation and storage services provided by the facilities proposed to be abandoned, approximately 29.5 miles of new 20-inch diameter coated steel pipeline, 0.4 miles of new 12-inch diameter coated steel pipeline to be used as a suction/discharge header, and 4,055 hp of compression and related facilities at the proposed Marvindale Compressor Station will be installed. The Project will enhance the reliability and safety of the National Fuel system for transportation services, local distribution market needs, storage management purposes and local production collection and transportation. Line FM100 is National Fuel's only connecting pipeline between its western and eastern operating systems.



In addition to modernizing its existing system, National Fuel also proposes to construct additional facilities designed to create 330,000 Dth/day of incremental transportation capacity ("Transportation Capacity") from the Sergeant Township area to Transco at Leidy, PA. These additional facilities include 11,110 hp at the proposed Marvindale Compressor Station, 22,220 hp at the proposed Tamarack Compressor Station, an increase in the YM58 pipe diameter to 20-inch, and measurement upgrades at National Fuel's interconnection with Transco at Leidy.

The Transportation Capacity, which is fully subscribed to Transco under a proposed capacity lease, will provide upstream gas supply from shale producing areas in central PA to Transco's "Leidy South Project" (Docket No. CP-19-494-000) on behalf of Transco's foundation shipper. The companion projects will allow abundant, reliable, and economic gas supply to access the interstate pipeline system grid where it can reach key consuming market centers in the northeastern United States via the Transco pipeline system.

Within Keating Township, National Fuel proposes to impact approximately 11.70 acres of land for Rights-of-Way (ROW) and Access Roads to construct their Line YM58 pipelines.

Applicant Contact:

National Fuel Gas Supply Corporation
c/o: Wayne Graham, Environmental Compliance Manager
1100 State Street
Erie, PA 16512

Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PADEP permit must give written notice to the municipality and the county in which the permitted activity is located. Acts 67, 68 and 127, which amended the Municipalities Planning Code, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities and infrastructure and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

Enclosed is a Project Location Map (Attachment 1) and a copy of the PADEP General Information Form (GIF) (Attachment 2) that has been completed by Mott MacDonald on behalf of the Applicant. PADEP invites you to review and comment on the land use aspects of this Project. If you wish to submit comments to DEP to consider in a land use review of this Project, you must respond within 30 days of receipt of this letter to the DEP Central Office listed below:

Pennsylvania Department of Environmental Protection
Regional Permit Coordination Office
Rachel Carson State Office Building
400 Market St.
Harrisburg, PA 17101

If no land use comments are received by the end of the comment period, PADEP will assume that there are no substantive land use conflicts and proceed with the normal application review process. For more information about this land use review process, please visit www.dep.pa.gov (Keyword: Land Use Reviews).



If you have any questions, please do not hesitate to contact me at the number/email listed below.

Sincerely,

Mott MacDonald

A handwritten signature in blue ink, appearing to read 'Doug Gibbons', with a long horizontal flourish extending to the right.

Douglas Gibbons, CEP
Principal Project Manager
T +1 (801) 704 0301
C +1 (801) 633 6293
Douglas.gibbons@mottmac.com

Enclosures: (1) Location Map
(2) PADEP General Information Form

cc: Wayne Graham- National Fuel
Project file

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

David S. McClain
7160 Route 46
PO Box 103
East Smethport, PA 16730



9590 9402 4886 9032 1397 31

2. Article Number (Transfer from service label)

EJ287054107 US

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? If YES, enter delivery address below:

☐ Yes☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

USPS TRACKING®



9590 9402 4886 9032 1397 31

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

Doug Gibbons
Mort MacDonald
5295 South Commerce Drive, Suite 500
Murray, UT 84107

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10



Attachment B

Table 2.2-1A (Rev1): Waterbodies Crossed by the Project

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
Line YM58										
McKean	Stream 006	0.9	3.0	Minor	UNT to Wernwag Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 007	1.2	4.0	Minor	UNT to Wernwag Hollow	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 008	1.4	6.5	Minor	Wernwag Hollow	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 011	1.5	3.0	Minor	UNT to Wernwag Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 012	1.6	6.5	Minor	UNT to Wernwag Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 014	1.6	1.0	Minor	UNT to Wernwag Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 017	1.8	3.0	Minor	UNT to Wernwag Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 019	2.2	2.5	Minor	UNT to Browns Mill Hollow Run	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 020	2.2	2.5	Minor	UNT to Browns Mill Hollow Run	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 026	3.0	3.0	Minor	UNT to Robbins Brook	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 027	3.3	3.0	Minor	UNT to Robbins Brook	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Robbins Brook	3.4	27.0	Intermediate	Robbins Brook	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Donley Fork	3.6	7.0	Minor	Donley Fork	P	HQ-CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Stream 160	4.2	3.0	Minor	UNT to Robbins Brook	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 030 - 1	4.9	3.0	Minor	UNT to Robbins Brook	E	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 02	6.5	3.0	Minor	--	D	--	--	Open Cut	None

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
McKean	Stream 037	6.6	26.2	Intermediate	UNT to Potato Creek	P	TSF	No/TSW	Dam and Pump/Flume	3/01 – 6/15
McKean	Potato Creek	6.8	205.16	Major	Potato Creek	P	TSF	No/TSW	HDD	10/1 – 5/31
McKean	Ditch 03	6.9	3.0	Minor	--	D	--	--	Open Cut	None
McKean	Ditch 05	6.9	5.0	Minor	--	D	--	--	Open Cut	None
McKean	Stream 038	7.1	5.0	Minor	UNT to Potato Creek	P	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Stream 039	7.1	4.0	Minor	UNT to Potato Creek	IT	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Stream 159	7.2	30	Intermediate	UNT to Potato Creek	E	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Stream 040	7.9	3.00	Minor	UNT to Walcott Brook	E	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 041	7.9	9.44	Minor	UNT to Walcott Brook	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 043	8.0	16.71	Intermediate	UNT to Walcott Brook	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 054	10.4	8.50	Minor	Coalbed Hollow	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 122	11.2	5.0	Minor	UNT to Bemis Hollow	E	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 055	11.2	20.18	Intermediate	Bemis Hollow	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 056	11.3	3.0	Minor	UNT to Bemis Hollow	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 066	13.6	3.00	Minor	UNT to Allegheny Portage Creek	E	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 08	13.8	3.0	Minor	--	D	--	--	Open Cut	None
McKean	Ditch 09	13.8	6.5	Minor	--	D	--	--	Open Cut	None
McKean	Ditch 10	13.9	6.0	Minor	--	D	--	--	Open Cut	None
McKean	Allegheny Portage Creek	14.1	129.25	Major	Allegheny Portage Creek	P	TSF	Yes ⁵ /TSW	HDD	10/01 – 12/31 10/1 – 5/31
McKean	Stream 067	14.1	3.0	Minor	UNT to Allegheny Portage Creek	IT	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
McKean	Ditch 11	14.2	6.5	Minor	--	D	--	--	Open Cut	None
McKean	Ditch 12	14.2	3.0	Minor	--	D	--	--	Open Cut	None
McKean	Ditch 13	14.2	3.0	Minor	--	D	--	--	Open Cut	None
McKean	Stream 068	14.2	6.5	Minor	UNT to Allegheny Portage Creek	E	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 070	14.3	6.5	Minor	UNT to Allegheny Portage Creek	IT	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Stream 071	14.5	3.0	Minor	UNT to Allegheny River	E	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Stream 073	14.6	3.0	Minor	UNT to Allegheny River	E	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Stream 074	14.7	3.0	Minor	UNT to Allegheny River	E	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Stream 075	14.7	2.0	Minor	UNT to Allegheny River	IT	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Allegheny River	14.8	169.61	Major	Allegheny River	P	CWF	No	HDD	10/1 – 5/31
McKean	Stream 077	15.0	17.80	Intermediate	UNT to Benson Hollow	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 16	15.3	10.0	Minor	--	D	--	--	Open Cut	None
McKean	Ditch 17	15.3	6.5	Minor	--	D	--	--	Open Cut	None
McKean	Stream 078	15.4	3.50	Minor	UNT to Allegheny River	IT	CWF	No	Dam and Pump/Flume	10/1 – 5/31
McKean	Coleman Creek - 1	15.7	16.15	Intermediate	Coleman Creek	IT	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 18-1	18.0	3.0	Minor	--	D	--	--	Open Cut	None
McKean	Stream 089	18.1	3.0	Minor	UNT to Jordan Hollow	IT	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 091	18.1	3.0	Minor	UNT to Jordan Hollow	IT	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 092	18.1	1.0	Minor	UNT to Jordan Hollow	IT	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 090	18.1	18.14	Intermediate	Jordan Hollow	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 093	18.9	37.74	Intermediate	Ernst Hollow	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
Potter	Stream 094	19.1	27.98	Intermediate	UNT to Sartwell Creek	IT	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Sartwell Creek	19.2	28.49	Intermediate	Sartwell Creek	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 096	19.6	33.00	Intermediate	UNT to Sartwell Creek	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 098	19.7	6.0	Minor	UNT to Sartwell Creek	E	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 099	21.8	21.50	Intermediate	Baker Hollow	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 156	23.0	37.38	Intermediate	Fishing Creek	P	CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 151	25.0	3.0	Minor	UNT to East Branch Fishing Creek	IT	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 116	26.7	3.0	Minor	East Branch Fishing Creek	P	HQ-CWF	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Whitney Creek	27.4	3.0	Minor	Whitney Creek	E	EV	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 102	27.8	3.0	Minor	UNT to Whitney Creek	E	EV	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Potter	Stream 103	28.7	4.0	Minor	UNT to Whitney Creek	E	EV	Yes ⁵ /NRT	Dam and Pump/Flume	10/01 – 12/31 10/1 – 5/31
Line YM58 Access Roads										
McKean	Stream 021	PAR-3	3.0	Minor	UNT to Red Mill Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 022	PAR-3	3.0	Minor	UNT to Red Mill Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 023	PAR-3	3.0	Minor	UNT to Red Mill Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 025	PAR-3	3.0	Minor	UNT to Red Mill Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 024	TAR-4	3.0	Minor	UNT to Red Mill Brook	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 109	PAR-5	3.0	Minor	UNT to Irons Hollow	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
McKean	Stream 110	PAR-5	3.0	Minor	UNT to Irons Hollow	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 111	PAR-5	3.0	Minor	UNT to Irons Hollow	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 112	PAR-5	1.0	Minor	UNT to Irons Hollow	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 113	PAR-5	3.5	Minor	UNT to Irons Hollow	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 114	PAR-5	3.5	Minor	UNT to Irons Hollow	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 030 - 2	TAR-6	3.0	Minor	UNT to Robbins Brook	E	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 032	TAR-6	3.0	Minor	UNT to Robbins Brook	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 033	TAR-6	3.0	Minor	UNT to Robbins Brook	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 034	TAR-6	3.0	Minor	UNT to Robbins Brook	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 035	TAR-6	3.0	Minor	UNT to Robbins Brook	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 036	TAR-6	3.0	Minor	UNT to Robbins Brook	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 01	TAR-6	3.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
McKean	Stream 044	TAR-10	3.0	Minor	UNT to Walcott Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 045	PAR-12	3.0	Minor	UNT to Walcott Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 198	TAR-10	3.0	Minor	UNT to Walcott Brook	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 046	PAR-12	3.0	Minor	UNT to Walcott Brook	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 047	PAR-12	9.00	Minor	UNT to Walcott Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 048	PAR-12	1.00	Minor	UNT to Walcott Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
McKean	Stream 049	PAR-12	3.0	Minor	UNT to Walcott Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 050	PAR-12	3.0	Minor	UNT to Walcott Brook	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 06 – JUR ⁸	PAR-12	2.5	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
McKean	Stream 051	TAR-13	3.0	Minor	UNT to Walcott Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 052	TAR-13	6.5	Minor	UNT to Walcott Brook	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 053	TAR-13	2.5	Minor	UNT to Walcott Brook	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 057	PAR-14	3.0	Minor	UNT to Bemis Hollow	E	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 058	PAR-14	3.0	Minor	UNT to Bemis Hollow	E	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 118	PAR-14	6.5	Minor	UNT to Bemis Hollow	P	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 059	PAR-14	3.0	Minor	UNT to Bemis Hollow	E	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 060	PAR-14	3.0	Minor	UNT to Bemis Hollow	P	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 061	PAR-14	3.0	Minor	UNT to Bemis Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 062	PAR-14	6.5	Minor	Bemis Hollow	P	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 063	PAR-14	3.0	Minor	UNT to Bemis Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 064	PAR-14	3.0	Minor	UNT to Bemis Hollow	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 080	PAR-25	3.0	Minor	UNT to Benson Hollow	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 081	PAR-25	10.0	Minor	UNT to Benson Hollow	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Coleman Creek -2	PAR-25	10.0	Minor	Coleman Creek	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
McKean	Stream 082	PAR-25	3.0	Minor	UNT to Coleman Creek	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 083	PAR-25	3.0	Minor	UNT to Coleman Creek	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 084	PAR-25	3.0	Minor	UNT to Coleman Creek	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 085	PAR-25	3.0	Minor	UNT to Coleman Creek	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 196	PAR-25	3.0	Minor	UNT to Coleman Creek	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 086	TAR-28	3.0	Minor	UNT to Coleman Creek	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 18-2	TAR-28	3.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
McKean	Stream 085c	TAR-26	3.0	Minor	UNT to Jordan Hollow	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 085b	TAR-26	3.0	Minor	UNT to Jordan Hollow	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 085a	TAR-26	3.0	Minor	UNT to Jordan Hollow	E	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Ditch 18-3	TAR-26	3.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
McKean	Stream 195	SA-7	7.0	Minor	UNT to Potato Creek	E	CWF	Yes ⁵ /NRT	Existing Road, install temporary bridge	10/01 – 12/31 10/1 – 5/31
Potter	Stream 155	PAR-31	13.5	Intermediate	UNT to Fishing Creek	P	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
Potter	Stream 153	PAR-31	1.5	Minor	UNT to Fishing Creek	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
Potter	Stream 154	PAR-31	1.0	Minor	UNT to Fishing Creek	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
Potter	Ditch 29	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 30	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 31	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
Potter	Ditch 32	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 33	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 34	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 35	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 36	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 37	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 38	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 39	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 40	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 41	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 42	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 43	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 44	PAR-31	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 53	PAR-36	3.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
McKean	Ditch 58 – JUR ⁸	PAR-14	3.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
McKean	Ditch 59 - JUR ⁸	TAR-11	3.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 28	PAR-32	1.5	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Stream 150	PAR-33	3.0	Minor	UNT to Fishing Creek	IT	CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
Potter	Ditch 20	PAR-33	2.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None

County	Waterbody Project ID	MP	Crossing Length ¹ (ft.)	FERC Waterbody Classification	Waterbody Name	Flow Regime ²	Designated Use and Water Quality Criteria ³	Wild Trout ^{4,5}	Crossing Method ⁶	In-Stream Work Restrictions ⁷
Potter	Ditch 21	PAR-33	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 24	PAR-33	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 22	PAR-33	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 23	PAR-33	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 25	PAR-33	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 26	PAR-33	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 27	PAR-33	1.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Potter	Ditch 21a	PAR-36	3.0	Minor	--	D	--	--	Existing Road, No Improvements Proposed	None
Marvindale Compressor Station Access Roads										
McKean	Stream 001	PAR-31	4.0	Minor	UNT to Warner Brook	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31
McKean	Stream 005	PAR-31	4.0	Minor	UNT to Warner Brook	IT	HQ-CWF	Yes ⁵ /NRT	Existing Road, No Improvements Proposed	10/01 – 12/31 10/1 – 5/31

Notes:

* Facilities/Project components not represented do not cross waterbodies.

¹ Crossing length is the bank-to-bank width of the stream at the pipeline or access road centerline crossing.

² Flow regime based on onsite field review. IT – Intermittent; E – Ephemeral; P – Perennial; D-Ditch. As classified by PA Code Title 25 Chapter 93.

³ As classified by PA Code Title 25 Chapter 93.9 Designated Use shapefile. WWF – Warm Water Fishes; CWF – Cold Water Fishes; MF – Migratory Fishes; TSF – Trout Stocked Fishery; HQ – High Quality; and EV – Exceptional Value.

⁴ As classified under PA Code Title 58, Chapters 57.4 and 57.11 as a Class A Wild Trout Water, Wild Trout Water, or Wilderness Trout Water. In-stream work restrictions for Naturally Reproducing Wild Trout Waters are in effect between October 1 and December 31; Class A October 1 and March 31; and Trout Stocked Waters March 1 through June 15. All streams classified as Wilderness Trout Waters qualify as EV resources; consultation with PFBC is required to obtain information regarding in-stream construction restriction periods. If a stream is not flowing at the time or crossing of if all activities avoid in-stream impacts (e.g., HDD/bore) no in-stream work restrictions will apply.

⁵ Stream is designated a wild trout stream because it is located upstream of a naturally reproducing wild trout stream and has a perennial flow regime.

⁶ If it is determined in the field during construction that either dam or pump or flume pipe methods are not possible; a wet trench method may be utilized. Open-cut methods will be evaluated at the time of construction to be used for streams if no flow is present.

⁷ The ESCAMP identifies approved cold water fisheries instream work period as June 1 through September 30; however, this column establishes periods of instream work restrictions. Therefore, for the purposes of continuity, National Fuel has listed the instream cold water fisheries work restriction window as October 1 through May 31. It is noted these restrictions will apply to any waterbody actively flowing at the time of crossing that is labeled as a CWF.

⁸ JUR in the Waterbody Project ID, seen in Ditch 06 - JUR, Ditch 58 - JUR, and Ditch 59 -JUR, denotes a jurisdictional ditch. Ditches without the “JUR” designation represent non-jurisdictional ditches.

Attachment C



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF WATER PROGRAMS
OFFICE OF OIL AND GAS MANAGEMENT

OFFICIAL USE ONLY

ID # _____
Date Received _____
AUTH _____
SITE _____
CLNT _____
APS _____
Fee _____
Check No. _____
Check Date _____

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
TRANSMISSION FACILITIES**

READ THE INSTRUCTIONS PROVIDED IN THIS PERMIT APPLICATION PACKAGE BEFORE COMPLETING THIS FORM. PLEASE PRINT OR TYPE INFORMATION IN BLACK OR BLUE INK.

SECTION A. APPLICATION TYPE

Check one:

NEW ☒ RENEWAL ☐ MAJOR MODIFICATIONS (Provide ESCGP number) ☐

PHASED ☐ (check only if applicable; *note: Most projects are not submitted as phased projects*)

Check one: EXPEDITED ☐ STANDARD ☒

If an Expedited Review Process being requested, be advised that the Expedited Review is not available for all projects. Refer to Section D - Expedited Review Process of the ESCGP-3 NOI Instructions to determine if the project is eligible.

SECTION B. CLIENT INFORMATION

Applicant's Last Name (If applicable) Kittka	First Name Jeffery	MI	Telephone No. (814) 871-8625
Organization Name or Registered Fictitious Name National Fuel Gas Supply Corporation			Telephone No.
DEP Client ID No. 74892			
Headquarters Mailing Address 6363 Main Street	City Williamsville	State NY	ZIP Code 14221
Email Address kittkaj@natfuel.com			
Co-Applicant's Last Name (If applicable)	First Name	MI	Telephone No.
Organization Name or Registered Fictitious Name			Telephone No.
Address	City	State	ZIP Code
Email Address			

SECTION C. SITE INFORMATION					
Is there an existing ESCGP associated with this site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, Permit No. _____					
Has a well permit application been submitted for this site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, Permit No. _____					
Does this site have a 911 address? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide site location address. 128 Kin Foks Lane Mount Jewett, PA 16740					
Site Name FM100 Modernization Project / Abandonment Project					
Site Location See Section 1-4 of this ESCGP-3 Application			Site No. (if another permit has been issued for the site)		
Site Location – City See Section 1-4 of this ESCGP-3 Application				State	ZIP Code
Detailed Written Directions to Site <u>Line KL/Line YM58 Begin (Sergeant Twp, McKean County):</u> Take Grand Army of the Republic - Route 6 to Clermont Rd. Head south on Clermont Rd for ~3 miles to Kin Foks Ln. <u>Line YM224 Begin (Hebron Twp, Potter County):</u> Take State Route 44 N to South Branch Rd. Follow South Branch Rd ~2 miles to Carmer Ln. <u>Existing Line FM100 Abandonment Begin (Huston Twp, Clearfield County):</u> Access driveway via Bennetts Valley Hwy 255 (~1 mile NE of crossing with State Park Rd 153). <u>Tamarack Compressor Station (Leidy Twp, Clinton County):</u> Take Tamarack Rd 144 to Stewart Hill Rd. Follow Stewart Hill Rd ~1.5 miles NE to access driveway.					
Primary Location	County See Attachment 1	Municipality See Attachment 1	City <input type="checkbox"/>	Boro <input checked="" type="checkbox"/>	Twp. <input checked="" type="checkbox"/>
SECTION D. EXPEDITED REVIEW					
I. Expedited Review Eligibility					
1. Is any part of the project in the watershed of a surface water with an existing or designated use of exceptional value or high quality pursuant to Chapter 93 (relating to water quality standards), in an exceptional value wetland in accordance with 25 Pa. Code § 105.17, or in the watershed of an impaired surface water where the cause of the impairment is identified as siltation?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Will the project in which the well pad will be constructed be in or on a floodplain?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Is any earth disturbance located or proposed to be located on land known to be contaminated by the release of regulated substances as defined in Section 103 of Act 2, 35 P.S. § 6026.103?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Will naturally occurring geologic formations or soil conditions provide hazards to the project or surrounding environment or have the potential to cause or contribute to pollution when disturbed?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Do any unresolved non-compliance issues exist with the applicant or the facility?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6. Is the project a transmission project?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

If yes to any of the above questions the project is not eligible for Expedited Review; If the project is eligible for Expedited Review, all the following items must be completed.

II. Expedited Review Process

1. Is the technically and administratively complete and accurate NOI package prepared and certified by a licensed professional?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Are E&S and PCSM/Site Restoration Plan drawings and narrative prepared and sealed by a licensed professional? <i>(Include interim restoration details when needed)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Include a Resource Delineation Report and answer the following questions: (If the answer to question a. is "Yes" then skip to #4. If the answer to a. is "No" the applicant must answer "Yes" to at least one of the questions, b. through d. to be eligible for expedited review.)	
a. Were all wetland resources delineated during the growing season?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. If not during the growing season, was a follow-up visit conducted during the growing season to verify/adjust boundaries and look for potentially missed resources?	<input type="checkbox"/> Yes <input type="checkbox"/> No
c. Was a quality assurance field review conducted at a later date by an independent qualified wetland professional to verify boundaries and look for potentially missed resources? (If yes, attach Quality Assurance Field Review Report)	<input type="checkbox"/> Yes <input type="checkbox"/> No
d. Was a Jurisdictional Determination (JD) or Preliminary JD conducted by the US Army Corps of Engineers on the whole project? (If yes, attach Preliminary or Jurisdictional Determination Report)	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. If applicable, have you included PNDI clearance letters or other documentation from applicable resource agencies?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. If the project site contains, is along, or within 100 feet of a river, stream, creek, lake, pond or reservoir, will you establish new or preserve existing riparian forest buffer at least 100 feet in width between the top of streambank or normal pool elevation of a lake, pond or reservoir and areas of earth disturbances. If no, will a waiver be obtained? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Name of Licensed Professional	
Company	
Address	
Phone	

SECTION E. PROJECT INFORMATION

1. Total Project Area/Project Site (Ac):	556.0	Total Disturbed Area (Ac):	556.0
--	-------	----------------------------	-------

Increased disturbed acreage (for permit modification only)	
--	--

Fee: (For additional information regarding fees, refer to NOI Instructions #3 Permit NOI Filing Fees.)	\$ See Section 1-3 of this ESCGP-3 Application
--	--

2. Project Name: FM100 Modernization Project / Abandonment Project
--

3. Project Type (Check all that apply)

<input type="checkbox"/> Oil/Gas Well ¹	<input checked="" type="checkbox"/> Transmission Facility
<input type="checkbox"/> Gathering Facility	<input type="checkbox"/> Processing Facility
<input type="checkbox"/> Treatment Facility	<input type="checkbox"/> Well Development Impoundment
<input checked="" type="checkbox"/> Compressor Station	<input type="checkbox"/> Non-FERC regulated Transmission Facility
<input checked="" type="checkbox"/> Pipeline	<input type="checkbox"/> Ground/Surface Water Withdrawal Site
<input type="checkbox"/> Storage Field Facility	
<input type="checkbox"/> Other	

¹ If Oil/Gas Well; is the well conventional or unconventional? ☐ Conventional ☐ Unconventional

Project Description

See Section 2-1 of this ESCGP-3 Application

Provide the date of pre-application meeting (if conducted with the Department)

4. Provide the latitude and longitude coordinates for the center of the project. The coordinates should be in Decimal degrees and North American Datum 1983. The coordinates must meet the current DEP policy regarding locational accuracy. For linear projects provide the project's termini.

Line KL Begin / End: 41.703, -78.500 / 41.705, -78.494
Line YM58 Begin / End: 41.702, -78.499 / 41.857, -78.017
Line YM 224 Begin / End: 41.878, -77.975 / 41.886, -77.950
Existing Line FM100 Abandonment Begin / End: 41.220, -78.559 / 41.590, -78.058
Tamarack Compressor Station: 41.436, -77.836

Horizontal Collection Method: ☒ GPS ☐ Interpolated from U.S.G.S. Topographic Map ☐ DEP's eMAP

5. U.S.G.S. 7.5 min. topographic quadrangle Name See Section 1-4 of this ESCGP-3 Application
(Include a copy of the project area on the 7.5 min quad map)

6. Will the project be conducted as a phased permit project? ☐ Yes ☒ No
If Yes, Include Master Site Plan Estimated Timetable for Phased Projects. ☐ Additional sheet(s) attached.

Phase No. or Name	Description	Total Area	Disturbed Area	Start Date	End Date

7. List existing and previous land use for a minimum of the previous 5 years. See Section 2-1 of this ESCGP-3 Application
8. Other Pollutants: Will the stormwater discharge contain pollutional substances other than sediment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain and provide any available quantitative data.
9. Will fuels, chemicals, solvents, other hazardous waste or materials be used or stored on site during earth disturbance activities or will Horizontal Directional Drilling (HDD) activities be conducted? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If yes, Preparedness, Prevention and Contingency (PPC) Plan must be maintained on site during earth disturbance. See NOI Instructions, E.9 PPC Plan Guidance for further information.)
10. Is the project in the watershed of an impaired surface water where the cause of the impairment is identified as siltation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, show how the project will not result in a net change in volume, rate or water quality. See section I below, and E.10 of NOI instructions.)
11. Are there potentially hazardous naturally occurring geological or soil conditions in any portion of the project or surrounding area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, do the potentially hazardous geologic or soil conditions have the potential to cause or contribute to pollution as a result of the proposed earth disturbance activities? No. If no, provide an explanation. See Section 2-1 of this ESCGP-3 Application. If yes, Geologic Hazard Mitigation Plan must be attached and explain where in this application details are provided.
12. Has the Act 14 Municipal Notification and proof of receipt of notification been attached to the NOI? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If not, the NOI is not complete, see E.12 and #4 Municipal Notification in the NOI Instructions for additional guidance.)
13. Has the PNDI receipt been attached to the NOI? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If not, the NOI is not complete, see E.13 and #5 PNHP in the NOI Instructions for additional guidance.)
14. Have the E&S Plan and PCSM/SR Plan been planned and designed to be consistent? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
15. Have existing and/or proposed Riparian Forest Buffers been identified? Yes <input checked="" type="checkbox"/> N/A <input type="checkbox"/> (If yes, they must be shown on the E&S Plan as well as the PCSM/SR Plans.)
16. Have antidegradation implementation requirements for special protection waters been addressed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> (If yes, antidegradation requirements must be included in the plan.)
17. Has the seasonal high groundwater level been identified and 20-inch separation established at all excavation locations for pits for conventional operations and Well Development Impoundments for unconventional operations? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

<p>18. Receiving Waters</p> <p>Watersheds crossed (See ESCGP-3 Section 2-2A and 2-2B for locations in plan view):</p> <p>Allegheny Portage Creek (TSF), Allegheny River (CWF), Baker Hollow (CWF), Bear Creek (CWF), Bemis Hollow (HQ), Bennett Branch Sinnemahoning Creek (CWF), Bennett Branch Sinnemahoning Creek (WWF), Benson Hollow (CWF), Berge Run (EV), Boyer Brook (HQ), Browns Mill Hollow (CWF), Coalbed Hollow (HQ), Coleman Hollow (CWF), Combs Creek (CWF), Deloy Hollow (EV), Donley Fork (HQ), Driftwood Branch Sinnemahoning Cr. (EV), Drury Run (EV), Dry Hollow (CWF), East Branch Fishing Creek (HQ), Ernst Hollow (CWF), First Fork Sinnemahoning Creek (EV), Fishing Creek (CWF), Fishing Creek (CWF), Fisk Hollow (CWF), Gifford Hollow (CWF), Green Hollow (CWF), Grove Run (HQ-CWF), Irons Hollow (CWF), Johnson Run (EV), Jordan Hollow (CWF), Lamb Hollow (CWF), Larson Hollow (CWF), Laurel Run (HQ-CWF), Lick Island Run (EV), Little Bailey Run (HQ), Medix Run (HQ-CWF), Mix Run (HQ-CWF), Oswayo Creek (CWF), Potato Creek (TSF), Red Mill Brook (CWF), Right Fork Big Run (EV), Right Fork Brooks Run (EV), Robbins Brook (HQ), Sartwell Creek (CWF), Saunders Run (HQ-CWF), Skinner Creek (HQ), South Branch Oswayo Creek (EV), Sullivan Run (HQ), Walcott Brook (CWF), Warner Brook (HQ), Wernwag Hollow (HQ), White Hollow (CWF), Whitney Creek (EV), Wiemer Hollow (CWF), Young Hollow (EV)</p> <p>See ESCGP-3 Section 2-1 for full list of receiving waters crossed by the Project</p>	<p>Chapter 93, Designated Use Stream Classification</p> <p><input checked="" type="checkbox"/> HQ <input checked="" type="checkbox"/> EV <input checked="" type="checkbox"/> Other <u>TSF, CWF</u></p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p>	<p>Chapter 93, Existing Use Stream Classification</p> <p><input type="checkbox"/> HQ <input checked="" type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p>
<p>Secondary Receiving Water</p>	<p>Secondary Chapter 93, Designated Use</p>	<p>Secondary Existing Use</p>
<p>Name of Municipal or Private Separate Storm Sewer Operator, if applicable.</p> <p>N/A</p>		
<p>Non-Surface Receiving Water: (include off-site discharges)</p> <p>N/A</p>		

SECTION F. EROSION AND SEDIMENT CONTROL (E&S) PLAN
See the attached Instructions for additional guidance with E&S Plans

Erosion and Sediment Control Plan BMPs should be designed to minimize accelerated erosion and sedimentation through limiting the extent and duration of earth disturbance, protection of existing drainage and vegetation, limiting soil compaction and controlling the generation of increased runoff. The Department recommends the use of the *Pennsylvania Erosion & Sedimentation Pollution Control Program Manual (E&S Manual)* (363-2134-008) to achieve this goal. The E&S Plan must meet the requirements of Pa. Code § 102.4(b) and submitted with the NOI. Also, see section 2. of the NOI instruction for detailed information on completing the E&S plan and additional requirements.

a. E&S Plan Summary

Provide a summary of proposed E&S BMPs and their performance to manage E&S for the project.

Typical pipeline BMPs that are proposed include waterbars, trench plugs, sediment barriers (compost filter socks), rock filter outlets, erosion control blanket, rock construction entrances, temporary equipment bridges, timber mats, mulch, and seed. An appropriate sediment removal device (filter bag, dewatering structure) and well-vegetated area will be utilized for trench and hydrostatic test dewatering. Antidegradation Best Available Combination of Technologies (ABACT) BMPs, including compost filter socks and extended rock construction entrances with daily maintenance, will be utilized in HQ/EV watersheds. Additional information about the proposed BMPs are discussed in the Erosion and Sediment Control Plan.

b. E&S Plan BMP Design

Check those that apply:

- ☒ E&S Plan is designed using BMPs in the *E&S Manual*.
☐ E&S Plan is designed using an alternative BMP or design standard approved by DEP.

Note: NOI packages submitted with alternate BMPs not approved by the Department will be returned to the Applicant.

c. Do you have any information regarding riparian buffer which differs from Section G, Riparian Buffer?

Yes ☐ No ☒

Explain:

d. Thermal Impacts Analysis

Explain how thermal impacts associated with this project were avoided, minimized, or mitigated.

Pipeline

Clearing and grading associated with the pipeline construction may result in temporary loss of tree canopy and riparian vegetation along surface waters and wetlands, potentially resulting in thermal impacts from the loss of shading. However, the thermal impacts will be minimized by limiting the construction ROW to 75 feet, where possible, at wetlands and limiting the maintained permanent ROW to 10 feet at wetlands.

In streams and wetlands, trees and brush will be cut just above or to ground level, leaving the stumps and root systems intact. Tree stumps will be preserved to the maximum extent practicable and will be removed only over the trenchline and where the stumps present a safety hazard for construction. Leaving stumps and root systems in this manner will promote re-growth in some species.

Facilities

Clearing and grading associated with the site development for aboveground facilities was limited to the least amount of space required for safe construction. Runoff from the site will flow over long stretches of vegetated areas before reaching receiving streams, which will provide for additional cooling and infiltration. Additionally, shade areas will be preserved to the greatest extent possible.

e. Off-Site Discharge Analysis

Does the activity propose any off-site discharges to areas other than surface waters? ☐ Yes ☒ No

If yes, it is the applicant's responsibility to ensure that they have legal authority for any off-site discharge to neighboring properties.

The applicant must provide a demonstration in both E&S and PCSM/SR plans that the discharge will not cause erosion, damage, or a nuisance to off-site properties.

SECTION G. RIPARIAN BUFFER

1. Will you be protecting, converting or establishing a voluntary riparian forest buffer as part of this project? ☐ Yes ☒ No
If yes, as part of the PCSM/SR Plan, provide a Buffer Management Plan.
2. Will proposed earth disturbance activities be conducted in an EV or HQ watershed AND within 150 feet of a perennial or intermittent river, stream, or creek, or lake, pond, or reservoir? ☒ Yes ☐ No

If no, proceed to the next section/module.

3. Does this project qualify for an exception (see § 102.14(d)(1))? ☐ Yes ☒ No

If yes, indicate below the type of project for which the exception applies by marking the appropriate box.

- ☐ Oil and gas activities for which site reclamation or restoration is part of the permit authorization in Chapter 78 and 78a.
- ☐ Road maintenance activities.
- ☐ The repair or maintenance of existing pipelines and utilities.
- ☐ Other (see §102.14(d)(1))

If exceptions are checked, explain how existing riparian buffer will be undisturbed to the extent practicable. Provide a demonstration that the requirements of §102.14(b) are met, or provide the necessary information to request a riparian buffer waiver.

4. Are you requesting a riparian buffer waiver for this project (see § 102.14(d)(2))? ☒ Yes ☐ No

If yes, indicate below the type of project for which you are requesting a waiver by marking the appropriate box.

- ☒ Linear project that may include pipelines, public roadways, rail lines, or utility lines.
- ☐ Project is of a temporary nature where the site will be fully restored to its preexisting conditions during the ESCGP permit term.
- ☐ Project where compliance with mandatory riparian buffers is not appropriate or feasible due to site characteristics or existing structures at the project site.
- ☐ Other (see §102.14(d)(2)):

If waivers are checked, explain how existing riparian buffers will be undisturbed to the extent practicable.

Note: If "Yes" to #2 **AND** "No" to #3 and #4, provide an attachment to demonstrate how the requirements of §102.14 are met.

Please refer to Section 2-1 of this ESCGP-3 Application for Riparian Buffer Waiver Request

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) AND/OR SITE RESTORATION(SR) PLAN

See NOI Instructions for additional guidance with PCSM Plans

PCSM/SR BMPs should be designed to use natural measures to eliminate pollution, infiltrate runoff, not require extensive construction/maintenance, promote pollutant reduction, and preserve the integrity of stream channels. All PCSM/SR BMPs proposed in the PCSM/SR Plan must be designed in accordance with Ch. 102, Ch. 78a for unconventional operations, Ch. 78 for conventional operations and the *Pennsylvania Stormwater Best Management Practices Manual (Stormwater BMP Manual)* (363-0300-002). If alternate design criteria are utilized for the proposed project, they must have prior approval by the Department, or the NOI Application will be returned to the Applicant.

After construction is completed, how much of the entire disturbed area will be restored to meadow in good condition or better, or existing conditions? ☐ All ☒ Partial ☐ None

Include PCSM narrative and drawings for remaining impervious area. Also include a map showing the proposed contours of the site restoration plan.

If there are additional stages of the project prior to permit termination or expiration, list the stages and provide the documents required by subsection 'a' to section 'g' for each stage (e.g. partial restoration or changes to the amount of compacted areas, gravel, and/or impervious areas). Upload a narrative for each additional stage in addition to the drawings.

EXAMPLE

Stage No	Stage Name	PCSM Plan	SR Plan
Stage 1		<input type="checkbox"/>	<input type="checkbox"/>
Stage 2		<input type="checkbox"/>	<input type="checkbox"/>
Stage 3		<input type="checkbox"/>	<input type="checkbox"/>
Stage 4		<input type="checkbox"/>	<input type="checkbox"/>

Act 167 Consistency. Check those that apply.

Is there an Act 167 Plan? ☒ Yes ☐ No

☒ The attached PCSM/SR Plan is consistent with an applicable approved Act 167 Plan.

Complete the following for all approved Act 167 Stormwater Management Plans. (Use additional sheets if necessary)

Act 167 Plan Name	Date Adopted	Consistency Letter Included <input type="checkbox"/>
<u>McKean County Act 167 Stormwater Management Plan</u>	<u>June 2010</u>	
<u>Potter County Act 167 Stormwater Management Plan</u>	<u>May 2010</u>	Verification Report Included <input checked="" type="checkbox"/>

Note: A consistency letter is not required if a verification report is provided. See NOI Instructions. The PCSM/SR Plan must satisfy either sub paragraph 1, 2, or 3 below. Check those that apply.

- ☒ Act 167 Plan approvals on or after January 2005 – The attached PCSM/SR Plan, in its entirety, is consistent with all requirements pertaining to rate, volume, and water quality from an Act 167 Stormwater Management Plan approved by DEP on or after January 2005. Box 1 must be checked if a current, DEP approved Act 167 plan exists.
- ☒ The PCSM/SR Plan meets the standard design criteria from sections 102.8(g)(2) and (3) and the *Stormwater BMP Manual*. For projects involving oil and gas activities authorized by a permit issued under Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure, post construction stormwater management requirements are met for all areas that are restored to preconstruction conditions or to a condition of meadow in good condition or better. [Note: PCSM plans must meet both the volume and rate requirements in the regulations, which are provided in the 2 sections mentioned in this paragraph].
- ☐ Alternative Design Standard – The attached PCSM/SR Plan was developed using approaches as provided in 102.8(g)(2)(iv) and 102.8(g)(3)(iii). Demonstrate/explain in the space provided below how this standard will be either more protective than what is required in 102.8(g)(2) and 102.8(g)(3) or will maintain and protect existing water quality and existing and designated uses.

PCSM/SR BMP Alternative Standards:

Has the alternative BMP or design standard been approved by the Department? NOT APPLICABLE

☐ Yes

☐ No – Do not submit the ESCGP-3 application and see Section (H) of the NOI Instructions concerning the alternative BMP approval process.

Water Quality Compliance:

Does the PCSM/SR plan comply with requirements for volume control? ☒ Yes ☐ No

If yes, is at least 90% of the disturbed area controlled by a PCSM BMP? ☒ Yes ☐ No

If yes, do you have the Standard PCSM Worksheet # 10 attached to show water quality compliance has achieved?

☒ Yes ☐ No

If no, attach Standard PCSM Worksheets # 12 and #13 to show water quality compliance has achieved.

If PCSM/SR plan is not complying with the requirements for volume control, attach Standard PCSM Worksheets # 11, # 12 and #13 to show water quality compliance has achieved.

a. PCSM/SR Plan Summary

Provide a summary of proposed BMPs and their performance to manage PCSM/SR for the project.

Along the mainline pipeline, typical E&S BMPs such as permanent waterbars and erosion control blanket will be left in place as part of site restoration for the project. At the aboveground facility sites, typical PCSM BMPs such as infiltration trenches, infiltration berms, retentive berms, and wet ponds will be used and left in place as part of site restoration for facility sites. refer to the PCSM/SR Plans for additional information.

Check all that apply ☒ PCSM BMPs ☒ SR BMPs

b. Do you have any information regarding riparian buffer which differs from what was submitted in the Section G, Riparian Buffer?

☐ Yes ☒ No

Explain:

c. Thermal Impacts Analysis

Explain how thermal impacts associated with this project were avoided, minimized, or mitigated.

Aboveground Facilities

Infiltration of runoff collected in the PCSM facilities will mitigate thermal impacts from post construction stormwater. Further, it is not expected that runoff collected in stormwater infiltration basins and discharged overland to the receiving water will be retained for more than 24 hours, thus providing additional mitigation of potential thermal impacts of discharge from the PCSM facilities. Existing shade trees will be preserved to the greatest extent possible, and excessive riprapping and installation of concrete channels is avoided, which will minimize the transfer of heat to the runoff.

Pipeline

Once pipeline construction activities are complete, disturbed areas will be restored to pre-construction contours and seeded as described in the E&SCP. Temporary workspace disturbed for construction will be allowed to re-establish with woody and herbaceous vegetation species.

d. Off-Site Discharge Analysis.

Does the activity propose any off-site discharges to areas other than surface waters? ☐ Yes ☒ No

If yes, it is the applicant's responsibility to ensure that they have legal authority for any off-site discharge to neighboring properties.

The Applicant must provide a demonstration in both the E&S and PCSM/SR Plans that the discharge will not cause erosion, damage, or a nuisance to off-site properties.

Carpenter Hollow OPP

e. Summary Table for Supporting Calculation and Measurement Data

(See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: South Branch Oswayo Creek

Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.41</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.000	+0.000
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.061	0.085	+0.024
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.000	-0.061
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.765 cfs	0.000 cfs	-0.765 cfs
2) 10-Year/24-Hour	1.563 cfs	0.036 cfs	-1.527 cfs
3) 50-year/24-Hour	2.762 cfs	0.745 cfs	-2.017 cfs
4) 100-year/24-Hour	3.466 cfs	2.085 cfs	-1.381 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____
Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	3,778 cf _____ _____ _____ _____ _____	1.109 _____ _____ _____ _____ _____

Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

Marvindale Interconnect

e. Summary Table for Supporting Calculation and Measurement Data

(See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Warner Brook

Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.50</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.040	+0.040
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.036	0.041	+0.005
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.001	-0.035
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.615 cfs	0.000 cfs	-0.615 cfs
2) 10-Year/24-Hour	1.129 cfs	0.035 cfs	-1.094 cfs
3) 50-year/24-Hour	1.782 cfs	0.754 cfs	-1.028 cfs
4) 100-year/24-Hour	2.106 cfs	1.743 cfs	-0.363 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____
Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<u>1,706</u> cf _____ _____ _____ _____	<u>0.43</u> _____ _____ _____ _____

Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages
 Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
 2. Engineer shall inspect final stabilization prior to removal of temporary measures.

e. Summary Table for Supporting Calculation and Measurement Data

(See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: White Hollow

Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.4</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.040	+0.040
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.006	0.155	+0.149
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.000	-0.006
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.841 cfs	0.654 cfs	-0.187 cfs
2) 10-Year/24-Hour	1.594 cfs	1.233 cfs	-0.361 cfs
3) 50-year/24-Hour	2.591 cfs	1.997 cfs	-0.594 cfs
4) 100-year/24-Hour	3.101 cfs	2.739 cfs	-0.362 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____
Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	467 cf _____ _____ _____ _____ _____	0.073 _____ _____ _____ _____ _____

Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

e. Summary Table for Supporting Calculation and Measurement Data

(See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Allegheny River

Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.43</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.040	+0.040
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.000	0.009	+0.009
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.000	+0.000
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.260 cfs	0.221 cfs	-0.039 cfs
2) 10-Year/24-Hour	0.832 cfs	0.682 cfs	-0.150 cfs
3) 50-year/24-Hour	1.720 cfs	1.389 cfs	-0.331 cfs
4) 100-year/24-Hour	2.207 cfs	1.776 cfs	-0.431 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____
Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	467 cf _____ _____ _____ _____ _____	0.07 _____ _____ _____ _____ _____

Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

e. Summary Table for Supporting Calculation and Measurement Data
(See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: South Branch Oswayo Creek

Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.39</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.014	+0.014
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.000	0.005	+0.005
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.000	+0.000
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.000 cfs	0.000 cfs	+0.000 cfs
2) 10-Year/24-Hour	0.000 cfs	0.000 cfs	+0.000 cfs
3) 50-year/24-Hour	0.000 cfs	0.000 cfs	+0.000 cfs
4) 100-year/24-Hour	0.000 cfs	0.003 cfs	+0.000 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____
Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<u>249</u> cf _____ _____ _____ _____	<u>0.071</u> _____ _____ _____ _____

Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

e. Summary Table for Supporting Calculation and Measurement Data

(See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Oswayo Creek

Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.39</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.00	0.032	+0.032
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.011	0.019	+0.008
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.000	-0.011
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.100 cfs	0.077 cfs	-0.023 cfs
2) 10-Year/24-Hour	0.527 cfs	0.265 cfs	-0.262 cfs
3) 50-year/24-Hour	1.646 cfs	0.880 cfs	-0.078 cfs
4) 100-year/24-Hour	2.445 cfs	2.330 cfs	-0.115 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____
Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	849 cf _____ _____ _____ _____ _____	1.39 _____ _____ _____ _____ _____

Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

- g. Critical PCSM Plan stages**
- Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.
1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
 2. Engineer shall inspect final stabilization prior to removal of temporary measures.

Marvindale Compressor Station

e. Summary Table for Supporting Calculation and Measurement Data

(See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Warner Brook

Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.50</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.58	4.81	+4.23
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.78	1.38	+0.60
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.78	0.00
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.03 cfs	0.00 cfs	-0.03 cfs
2) 10-Year/24-Hour	0.54 cfs	0.22 cfs	-0.33 cfs
3) 50-year/24-Hour	5.31 cfs	2.34 cfs	-2.96 cfs
4) 100-year/24-Hour	10.00 cfs	5.31 cfs	-4.69 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input checked="" type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____	<u>4.6</u>
Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input checked="" type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____ _____ _____ _____ 26,196 cf	_____ _____ _____ _____ <u>7.2</u>

Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input checked="" type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input checked="" type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input checked="" type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ 0.3 _____ 13.8 _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input checked="" type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input checked="" type="checkbox"/> Other <u>Retentive Berm</u>	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____ _____ _____ _____	_____ 14.1 _____ 0.5

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. A licensed professional or designee shall be present on site during installation of bioretention sock infiltration/retention berms to verify that the BMP is being implemented in accordance with the approved plan.
2. Upon completion of construction, a licensed professional or designee shall complete an inspection to verify that BMPs are in place and functioning as designed.
3. After the first growing season, a licensed professional or designee shall perform an inspection to verify that BMPs continue to function as designed and verify that permanent vegetative stabilization has been established.

Tamarack Compressor Station

e. Summary Table for Supporting Calculation and Measurement Data
(See *NOI Instructions for additional guidance with this section*)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Drury Run - North Watershed

Volume Control design storm frequency <u>2 year/24 hour</u> Rainfall amount <u>2.50</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.00	0.40	0.40
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.11	0.17	0.17
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.03	-0.08
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	1.55	1.17	-0.38
2) 10-Year/24-Hour	5.17	3.75	-1.42
3) 50-year/24-Hour	11.18	8.21	-2.97
4) 100-year/24-Hour	14.60	10.77	-3.83

Watershed Name: Drury Run - South Watershed

Volume Control design storm frequency <u>2 year/24 hour</u> Rainfall amount <u>2.50</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.00	4.97	4.97
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.57	1.24	0.67
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.48	-0.08
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	6.34	4.49	-1.85
2) 10-Year/24-Hour	19.92	17.64	-2.28
3) 50-year/24-Hour	41.95	38.33	-3.62
4) 100-year/24-Hour	54.43	49.60	-4.83

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input checked="" type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____	<u>10.2</u>
Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input checked="" type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____ _____ _____ _____ <u>5,998 cf</u>	_____ _____ _____ _____ <u>2.5</u>
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input checked="" type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ <u>32,833 cf</u> _____	_____ <u>8.0</u> _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input checked="" type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____

Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input checked="" type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ <u>37.0</u> _____
--	-----------------------	---	----------------------------------	--

g. Critical PCSM Plan stages
 Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. A licensed professional or designee shall be present on site during installation of the bioretention sock infiltration berm and the conversion of the sediment basin into a wet pond to verify that the BMPs are being implemented in accordance with the approved plan.
2. Upon completion of construction, a licensed professional or designee shall complete an inspection to verify that BMPs are in place and functioning as designed.
3. After the first growing season, a licensed professional or designee shall perform an inspection to verify that BMPs continue to function as designed and verify that permanent vegetative stabilization has been established.

SECTION I. ANTIDegradation ANALYSIS

This section must be completed where earth disturbance activities will be conducted in the watershed of a surface water with an existing or designated use of exceptional value or high quality pursuant to Chapter 93 (relating to water quality standards), projects where any part is located in an exceptional value wetland in accordance with 25 Pa. Code § 105.17, and projects where any part is located in the watershed of an impaired surface water where the cause of impairment is identified as siltation.

Part 1 - NONDISCHARGE ALTERNATIVES EVALUATION

The applicant must consider and describe any and all non-discharge alternatives for the entire project area which are environmentally sound and will:

- Minimize accelerated erosion and sedimentation during the earth disturbance activity
- Achieve no net change from pre-development to post-development volume, rate and concentration of pollutants in water quality

E & S Plan	PCSM/SR Plan
<p>Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used prior to, during, and after earth disturbance activities that have been incorporated into your E & S Plan based on the site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide the analysis and attach additional sheets if necessary)</p>	<p>Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used after construction that have been incorporated into the PCSM/SR Plan based on your site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide the analysis and attach additional sheets if necessary)</p>
<p>Nondischarge BMPs</p> <p><input type="checkbox"/> Alternative Siting</p> <p style="margin-left: 20px;"><input type="checkbox"/> Alternative location</p> <p style="margin-left: 20px;"><input type="checkbox"/> Alternative configuration</p> <p style="margin-left: 20px;"><input type="checkbox"/> Alternative location of discharge</p> <p><input checked="" type="checkbox"/> Limited Disturbed Area</p> <p><input checked="" type="checkbox"/> Limiting Extent & Duration of Disturbance (Phasing, Sequencing)</p> <p><input type="checkbox"/> Riparian Buffers (150 ft. min.)</p> <p><input type="checkbox"/> Riparian Forest Buffer (150 ft. min.)</p> <p><input type="checkbox"/> Other _____</p>	<p>Nondischarge BMPs</p> <p><input type="checkbox"/> Alternative Siting</p> <p style="margin-left: 20px;"><input type="checkbox"/> Alternative location</p> <p style="margin-left: 20px;"><input type="checkbox"/> Alternative configuration</p> <p style="margin-left: 20px;"><input type="checkbox"/> Alternative location of discharge</p> <p><input type="checkbox"/> Low Impact Development (LID / BSD)</p> <p><input type="checkbox"/> Riparian Buffers (150 ft. min.)</p> <p><input type="checkbox"/> Riparian Forest Buffer (150 ft. min.)</p> <p><input checked="" type="checkbox"/> Infiltration</p> <p><input type="checkbox"/> Water Reuse</p> <p><input type="checkbox"/> Other _____</p>
<p>Will the non-discharge alternative BMPs eliminate the net change in rate, volume and quality during construction?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, antidegradation analysis is complete. If no, proceed to Part 2.</p>	<p>Will the non-discharge alternative BMPs eliminate the net change in rate, volume and quality after construction?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, antidegradation analysis is complete. If no, proceed to Part 2.</p>

PART 2 - ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT)

If the net change in stormwater discharge from or after construction is not fully managed by nondischarge BMPs, the applicant must utilize ABACT BMPs to manage the difference. The Applicant must specify whether the discharge will occur during construction, post-construction or both, and identify the technologies that will be used to ensure that the discharge will be a non-degrading discharge. ABACT BMPs include but are not limited to:

E & S Plan	PCSM/SR Plan
<p><input checked="" type="checkbox"/> Treatment BMPs:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sediment basin with skimmer <input type="checkbox"/> Sediment basin ratio of 4:1 or greater (flow length to basin width) <input type="checkbox"/> Sediment basin with 4-7 day detention <input type="checkbox"/> Flocculants <input checked="" type="checkbox"/> Compost Filter Socks <input type="checkbox"/> Compost Filter Sock Sediment Basin <input type="checkbox"/> RCE w/ Wash Rack <p><input checked="" type="checkbox"/> Land disposal:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Vegetated filters <input type="checkbox"/> Riparian buffers <150ft. <input type="checkbox"/> Riparian Forest Buffer <150ft. <input checked="" type="checkbox"/> Immediate stabilization <p><input checked="" type="checkbox"/> Pollution prevention:</p> <ul style="list-style-type: none"> <input type="checkbox"/> PPC Plans <input checked="" type="checkbox"/> Street sweeping <input checked="" type="checkbox"/> Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials <p><input type="checkbox"/> Stormwater reuse technologies:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sediment basin water for dust control <input type="checkbox"/> Sediment basin water for irrigation <p><input checked="" type="checkbox"/> Other <u>100-ft long rock construction entrances with street sweeping</u></p>	<p><input checked="" type="checkbox"/> Treatment BMPs:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Infiltration Practices <input checked="" type="checkbox"/> Wet ponds <input type="checkbox"/> Created wetland treatment systems <input type="checkbox"/> Vegetated swales <input type="checkbox"/> Manufactured devices <input type="checkbox"/> Bio-retention/infiltration <input type="checkbox"/> Green Roofs <p><input type="checkbox"/> Land disposal:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Vegetated filters <input type="checkbox"/> Riparian Buffers <150ft. <input type="checkbox"/> Riparian Forest Buffer <150ft. <input type="checkbox"/> Disconnection of roof drainage <input type="checkbox"/> Bio-retention/bio-infiltration <p><input checked="" type="checkbox"/> Pollution prevention:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Street sweeping <input type="checkbox"/> Nutrient, pesticide, herbicide or other chemical application plan alternatives <input type="checkbox"/> PPC Plans <input checked="" type="checkbox"/> Non-structural Practices <input checked="" type="checkbox"/> Restoration BMPs <p><input type="checkbox"/> Stormwater reuse technologies:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Divert rainwater into impoundment <input type="checkbox"/> Underground storage <p><input type="checkbox"/> Spray/Drip Irrigation</p> <p><input type="checkbox"/> Other _____</p>
<p>Are the ABACT BMPs selected sufficient to minimize E&S discharges to the extent that existing or designated surface water uses are protected?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, Antidegradation analysis is complete. If no, NOI Application will be returned to the Applicant.</p>	<p>Are the ABACT BMPs selected sufficient to achieve no net change and assure that existing or designated surface water uses are protected?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, Antidegradation analysis is complete. If no, NOI Application will be returned to the Applicant.</p>

SECTION J. COMPLIANCE HISTORY REVIEW

Is/was the applicant(s) in violation of any Department regulation, order, schedule of compliance or permit or in violation of any department regulated activities within the past five years?

☐ Yes ☒ No

If yes, provide the permit number or facility name, a brief description of the violation, the compliance schedule (including dates and steps to achieve compliance) and the current compliance status. (Attach additional information on a separate sheet, when necessary)

Permit Program or Activity: _____ Permit Number (if applicable): _____

Brief Description of non-compliance:

Steps taken to achieve compliance

Date(s) compliance achieved

Current Compliance Status: ☐ In-Compliance ☐ In Non-Compliance

If in non-compliance, attach schedule for achieving compliance.

PERSON PREPARING E&S PLANS

SECTION K. CERTIFICATION BY PERSON PREPARING E&S AND PCSM/SR PLANS

I do hereby certify to the best of my knowledge, information, and belief, that the Erosion and Sediment Control and PCSM/Site Restoration Plans are true and correct, represent actual field conditions, and are in accordance with the 25 Pa. Code Chapters 78/78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Print Name Michael DeNichilo

Signature

Company Mott MacDonald

Address 111 Wood Avenue South, Iselin, NJ 08830-4112

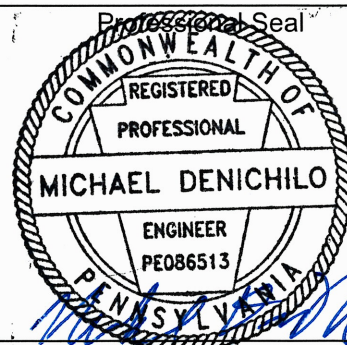
Phone (973)379-3400

Most Recent DEP Training Attended

Location

Date

e-Mail Address michael.denichilo@mottmac.com



EXPEDITED REVIEW PROCESS

In addition to the certification required above, applicants using the expedited permit review process must attach an E&S and PCSM/Site Restoration Plans developed and sealed by a licensed professional engineer, surveyor or professional geologist. The plans shall contain the following certification:

I do hereby certify to the best of my knowledge, information, and belief, that the E & S Control and PCSM/SR BMPs are true and correct, represent actual field conditions and are in accordance with the 25 Pa. Code Chapters 78 / 78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SECTION L. APPLICANT CERTIFICATION

Applicant Certification

I certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that this application and all related attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the ESCGP, and that the applicant agrees to abide by the terms and conditions of the permit. BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained.

I grant permission to the agencies responsible for the permitting of this work, or their duly authorized representative to enter the project site for inspection purposes. I will abide by the conditions of the permit if issued and will not begin work prior to permit issuance.

(For individuals no indication of title is necessary, choose the box below. All others proceed to the next paragraph)

☐ **Individual; proceed to signature portion.**

I hereby certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that I am the person who is responsible for decision-making regarding environmental compliance functions for Enter Entity name, the manager of one or more manufacturing, production, or operating facilities of the applicant and am authorized to make management decisions which govern the operation of regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure the applicant's long term environmental compliance with environmental laws and regulations; and I am responsible for ensuring that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements.

**PERSON PREPARING PCSM PLANS FOR MARVINDALE INTERCONNECT,
CARPENTER HOLLOW OPP, MLV-1, MLV-2, MLV-3, MLV-4**

SECTION K. CERTIFICATION BY PERSON PREPARING E&S AND PCSM/SR PLANS

I do hereby certify to the best of my knowledge, information, and belief, that the Erosion and Sediment Control and PCSM/Site Restoration Plans are true and correct, represent actual field conditions, and are in accordance with the 25 Pa. Code Chapters 78/78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Print Name W. Michael Clark

Signature 

Company Mott MacDonald

Address 111 Wood Avenue South, Iselin, NJ 08830-4112

Phone (973) 379-3400

Most Recent DEP Training Attended

Location

Date

e-Mail Address michael.clark@mottmac.com



EXPEDITED REVIEW PROCESS

In addition to the certification required above, applicants using the expedited permit review process must attach an E&S and PCSM/Site Restoration Plans developed and sealed by a licensed professional engineer, surveyor or professional geologist. The plans shall contain the following certification:

I do hereby certify to the best of my knowledge, information, and belief, that the E & S Control and PCSM/SR BMPs are true and correct, represent actual field conditions and are in accordance with the 25 Pa. Code Chapters 78 / 78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SECTION L. APPLICANT CERTIFICATION

Applicant Certification

I certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that this application and all related attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the ESCGP, and that the applicant agrees to abide by the terms and conditions of the permit. BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained.

I grant permission to the agencies responsible for the permitting of this work, or their duly authorized representative to enter the project site for inspection purposes. I will abide by the conditions of the permit if issued and will not begin work prior to permit issuance.

(For individuals no indication of title is necessary, choose the box below. All others proceed to the next paragraph)

☐ **Individual; proceed to signature portion.**

I hereby certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that I am the person who is responsible for decision-making regarding environmental compliance functions for Enter Entity name, the manager of one or more manufacturing, production, or operating facilities of the applicant and am authorized to make management decisions which govern the operation of regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure the applicant's long term environmental compliance with environmental laws and regulations; and I am responsible for ensuring that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements.

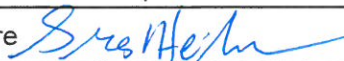
PERSON PREPARING E&S AND PCSM PLANS FOR
MARVINDALE COMPRESSOR STATION AND TAMARACK
COMPRESSOR STATION

SECTION K. CERTIFICATION BY PERSON PREPARING E&S AND PCSM/SR PLANS

I do hereby certify to the best of my knowledge, information, and belief, that the Erosion and Sediment Control and PCSM/Site Restoration Plans are true and correct, represent actual field conditions, and are in accordance with the 25 Pa. Code Chapters 78/78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Print Name Gregory Heilman, P.E.

Signature



Company Michael Baker International

Address 100 Airside Drive, Moon Township, PA 15108

Phone 412-269-6096

Most Recent DEP Training Attended

Location

Date

DEP Oil and Gas Training

Greentree, PA

12/2017

e-Mail Address gheilman@mbakerintl.com



EXPEDITED REVIEW PROCESS

In addition to the certification required above, applicants using the expedited permit review process must attach an E&S and PCSM/Site Restoration Plans developed and sealed by a licensed professional engineer, surveyor or professional geologist. The plans shall contain the following certification:

I do hereby certify to the best of my knowledge, information, and belief, that the E & S Control and PCSM/SR BMPs are true and correct, represent actual field conditions and are in accordance with the 25 Pa. Code Chapters 78 / 78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SECTION L. APPLICANT CERTIFICATION

Applicant Certification

I certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that this application and all related attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the ESCGP, and that the applicant agrees to abide by the terms and conditions of the permit. BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained.

I grant permission to the agencies responsible for the permitting of this work, or their duly authorized representative to enter the project site for inspection purposes. I will abide by the conditions of the permit if issued and will not begin work prior to permit issuance.

(For individuals no indication of title is necessary, choose the box below. All others proceed to the next paragraph)

☐ **Individual; proceed to signature portion.**

I hereby certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that I am the person who is responsible for decision-making regarding environmental compliance functions for National Fuel Supply Corporation, the manager of one or more manufacturing, production, or operating facilities of the applicant and am authorized to make management decisions which govern the operation of regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure the applicant's long term environmental compliance with environmental laws and regulations; and I am responsible for ensuring that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements.

(choose one of the following; not applicable for individuals):

- ☐ The responsible corporate officer ☐ president ☒ vice president ☐ secretary
☐ treasure of NATIONAL FUEL GAS SUPPLY Corporation Company
Entity name
- ☐ The ☐ member or ☐ manager of _____ LLC
Entity name
- ☐ The general partner of _____ partnership/LP/LLP
Entity name
- ☐ The principal executive officer or ranking elected official of _____ Municipality/State/Federal/other public agency
Entity name
- ☐ Power of Attorney/delegation of contractual authority (documentation supporting delegation of contracting authority must be provided) for _____
Entity name

JEFFERY J. KITTKA, VICE PRESIDENT

Print Name and Title of Applicant

[Signature]

Signature of Applicant

11/5/19

Date Application Signed

Print Name and Title of Co-Applicant (if applicable)

Signature of Co-Applicant

Date Application Signed

Notarization

Sworn to and subscribed to before me this

5th day of November, 20 19

Jeannine M. Bacher

Notary Public

AFFIX SEAL

Commonwealth of Pennsylvania

County of _____

My Commission expires _____

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL

Jeannine M. Bacher, Notary Public

City of Erie, Erie County

My Commission Expires Nov. 24, 2019

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

SECTION M. ADDITIONAL CONTACT INFORMATION			
Contact's Last Name Gibbons	First Name Douglas	MI	Phone (801) 571-6522
			FAX
Mailing Address 5295 S. Commerce Drive	City Murray	State UT	ZIP + 4 84107-4719
e-Mail Address douglas.gibbons@mottmac.com			

Summary of Bio-Infiltration BMPs														
	Infiltration Information					Drainage Information				BMP Information				
Proposed Structural bio-Infiltration BMPs (site specific)	Measured Infiltration Rate ¹ (in./hr)	Factor of safety (min. of 2)	Design Infiltration rate (in./hr)	De-watering time ² (hr)	Elevation of limiting zone-water table bedrock, etc. ³	Total drainage area to BMP (sq. ft)	Total impervious drainage area to BMP (sq. ft)	Infiltration BMP Surface area (sq. ft)	Volume of runoff tributary to BMP during the 2yr/24 hr design storm ⁴ (cf)	Calculated removed volume (cf)	Maximum water surface elevation in BMP from 2yr storm ⁶	Infiltration elevation bottom of bed/basin ⁶	Elevation of infiltration test ⁷	Elevation of E&S sediment basin bottom (if applies)
CARPENTER HALLOW OPP INFILTRATION TRENCH	0.125 IN/HR	2	0.063 IN/HR	19.20 HR	N/A	1.109 ACRES	0.356 ACRES	0.356 ACRES	3,699 CF	3,778 CF	2,268.91	2,268.30	2,269.00	N/A
MARVINDALE INTERCONNECT INFILTRATION TRENCH	0.38 IN/HR	2	0.19 IN/HR	39.40 HR	N/A	0.431 ACRES	0.107 ACRES	0.067 ACRES	1,766 CF	2,343 CF	2,090.56	2,089.10	2,092	N/A
MLV 1 INFILTRATION TRENCH	8.31 IN/HR	2	4.16 IN/HR	2.76 HR	N/A	0.155 ACRES	0.094 ACRES	0.036 ACRES	676 CF	896 CF	1,584.92	1,583.50	1,584	N/A
MLV 2 INFILTRATION TRENCH	10.28 IN/HR	2	5.14 IN/HR	11.94 HR	N/A	0.268 ACRES	0.048 ACRES	0.036 ACRES	382 CF	467 CF	1,512.24	1,511.50	1,511	N/A
MLV 3 INFILTRATION TRENCH	4.50 IN/HR	2	2.25 IN/HR	27.92 HR	N/A	0.517 ACRES	0.071 ACRES	0.071 ACRES	237 CF	249 CF	2,233.20	2,233	2,233.5	N/A
MLV 4 INFILTRATION TRENCH	3.00 IN/HR	2	1.50 IN/HR	6.20 HR	N/A	1.387 ACRES	0.090 ACRES	0.090 ACRES	840 CF	849 CF	2,271.04	2,270.50	2,274	N/A

All information should be based on the 2-yr/24-hr storm.

Provide page numbers from the stormwater narrative identifying the location of the above information.

¹The infiltration testing information should be located on the plan view of the PCSM plan and should include infiltration test elevation and rate

²Can include active infiltration time-dewatering time should not exceed 72 hours after the 2-yr/24-hr storm

³Depth to limiting zone is recommended to be at least 2 ft below infiltration

⁴The value should be greater than or equal to the volume to be infiltrated or managed by the BMP

⁶A maximum of 2 ft hydraulic head is recommended

⁷Provide supporting field notes/documentation from soil evaluation

Any deviation from the recommendations above should be adequately justified by a qualified professional and included with the application.

Note: This chart is for summary purposes only and should be consistent with all design calculations and worksheets.

TAMARACK COMPRESSOR STATION

Summary of Bio-Infiltration BMPs														
	Infiltration Information					Drainage Information				BMP Information				
Proposed Structural bio-Infiltration BMPs (site specific)	Measured Infiltration Rate ¹ (in./hr)	Factor of safety (min. of 2)	Design Infiltration rate (in./hr)	De-watering time ² (hr)	Elevation of limiting zone-water table bedrock, etc. ³	Total drainage area to BMP (sq. ft)	Total impervious drainage area to BMP (sq. ft)	Infiltration BMP Surface area (sq. ft)	Volume of runoff tributary to BMP during the 2yr/24 hr design storm ⁴ (cf)	Calculated removed volume (cf)	Maximum water surface elevation in BMP from 2yr storm ⁶	Infiltration elevation bottom of bed/basin ⁶	Elevation of infiltration test ⁷	Elevation of E&S sediment basin bottom (if applies)
Infiltration Berm	***	***	***	***	***	111,513	12,632	7,055	5,998	5,998	1741.0	1739.0	***	N/A

All information should be based on the 2-yr/24-hr storm.

Provide page numbers from the stormwater narrative identifying the location of the above information.

¹The infiltration testing information should be located on the plan view of the PCSM plan and should include infiltration test elevation and rate

²Can include active infiltration time-dewatering time should not exceed 72 hours after the 2-yr/24-hr storm

³Depth to limiting zone is recommended to be at least 2 ft below infiltration

⁴The value should be greater than or equal to the volume to be infiltrated or managed by the BMP

⁶A maximum of 2 ft hydraulic head is recommended

⁷Provide supporting field notes/documentation from soil evaluation

Any deviation from the recommendations above should be adequately justified by a qualified professional and included with the application.

Note: This chart is for summary purposes only and should be consistent with all design calculations and worksheets.

***** As per item 7 on Page 117 of the BMP Manual, since the proposed berms are located in existing woodlands, infiltration testing was not required.**

MARVINDALE COMPRESSOR STATION

Summary of Bio-Infiltration BMPs														
	Infiltration Information					Drainage Information				BMP Information				
Proposed Structural bio-Infiltration BMPs (site specific)	Measured Infiltration Rate ¹ (in./hr)	Factor of safety (min. of 2)	Design Infiltration rate (in./hr)	De-watering time ² (hr)	Elevation of limiting zone-water table bedrock, etc. ³	Total drainage area to BMP (sq. ft)	Total impervious drainage area to BMP (sq. ft)	Infiltration BMP Surface area (sq. ft)	Volume of runoff tributary to BMP during the 2yr/24 hr design storm ⁴ (cf)	Calculated removed volume (cf)	Maximum water surface elevation in BMP from 2yr storm ⁶	Infiltration elevation bottom of bed/basin ⁶	Elevation of infiltration test ⁷	Elevation of E&S sediment basin bottom (if applies)
Infiltration Berm 1	***	***	***	***	***	190,916	131,867	10,213	18,060	18,060	2103.5	2101.0	***	N/A
Infiltration Berm 2	***	***	***	***	***	264,148	164,734	8,794	6,086	6,086	2098.2	2097.0	***	N/A
Infiltration Berm 3	***	***	***	***	***	313,404	167,343	9,371	2,050	2,050	2092.4	2092.0	***	N/A

All information should be based on the 2-yr/24-hr storm.

Provide page numbers from the stormwater narrative identifying the location of the above information.

¹The infiltration testing information should be located on the plan view of the PCSM plan and should include infiltration test elevation and rate

²Can include active infiltration time-dewatering time should not exceed 72 hours after the 2-yr/24-hr storm

³Depth to limiting zone is recommended to be at least 2 ft below infiltration

⁴The value should be greater than or equal to the volume to be infiltrated or managed by the BMP

⁶A maximum of 2 ft hydraulic head is recommended

⁷Provide supporting field notes/documentation from soil evaluation

Any deviation from the recommendations above should be adequately justified by a qualified professional and included with the application.

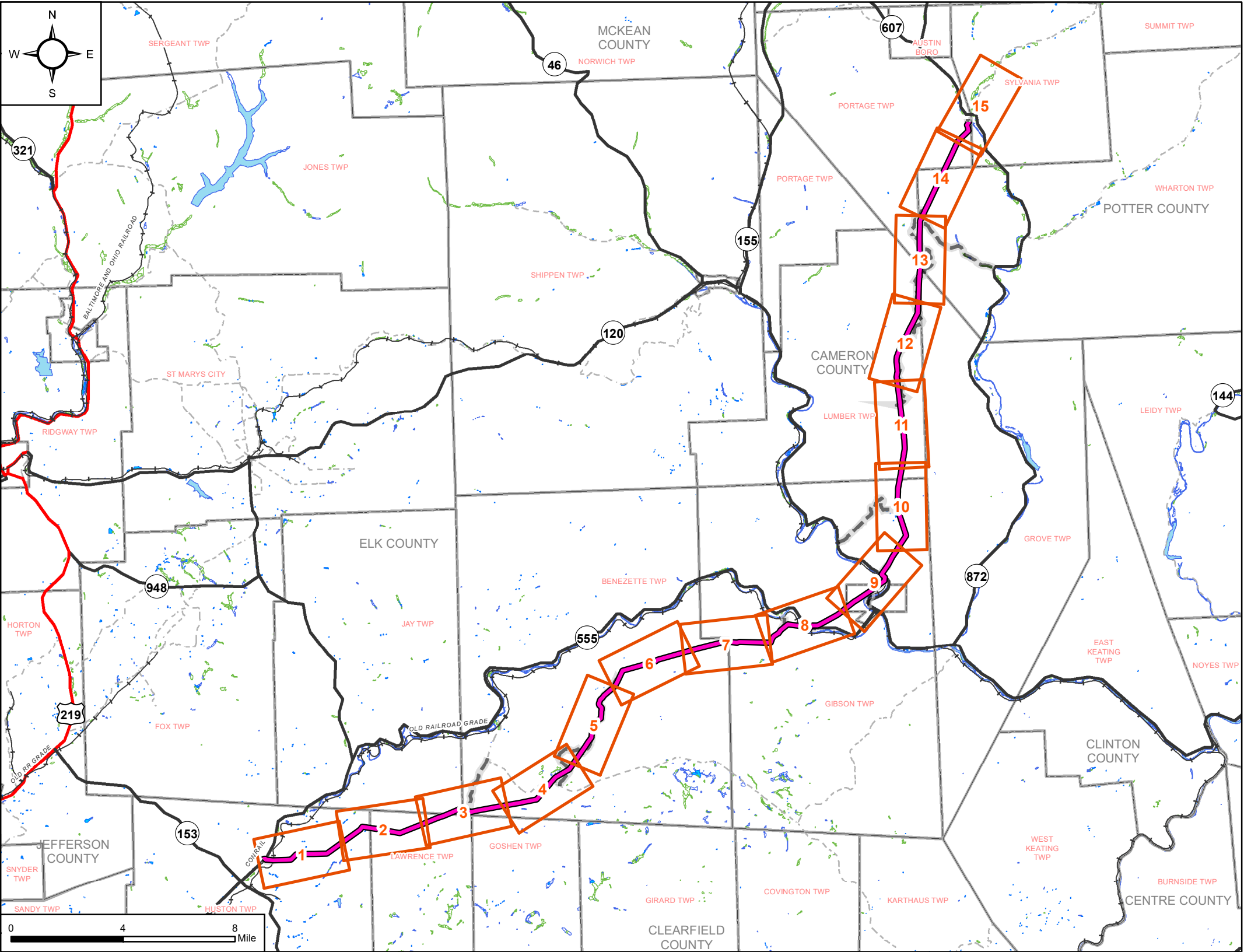
Note: This chart is for summary purposes only and should be consistent with all design calculations and worksheets.

***** As per item 7 on Page 117 of the BMP Manual, since the proposed berms are located in existing woodlands, infiltration testing was not required.**

Attachment 1
Municipalities/Counties Impacted by Project

McKean County
Keating Twp
Liberty Twp
Norwich Twp
Sergeant Twp
Potter County
Allegany Twp
Clara Twp
Hebron Twp
Pleasant Valley Twp
Portage Twp
Roulette Twp
Sylvania Twp
Wharton Twp
Cameron County
Driftwood Boro
Gibson Twp
Grove Twp
Lumber Twp
Elk County
Benezette Twp
Clearfield County
Huston Twp
Lawrence Twp
Clinton County
Leidy Twp

Attachment D



SOURCES:
Parcel Data
Provided by NFG
Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey in cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>
Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>
Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary

CONSTRUCTION MAP LEGEND


- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS**
 - Compost Filter Sock - 12"
 - Compost Filter Sock - 18"
 - Compost Filter Sock - 24"
 - Compost Filter Sock - 32"
 - Timber Mat
 - Waterbar (Temporary)
 - Erosion Control Matting
 - Rock Construction Entrance
- LAND USE BAND**
 - Forest/Woodland
 - Industrial/Commercial Land
 - Open Land

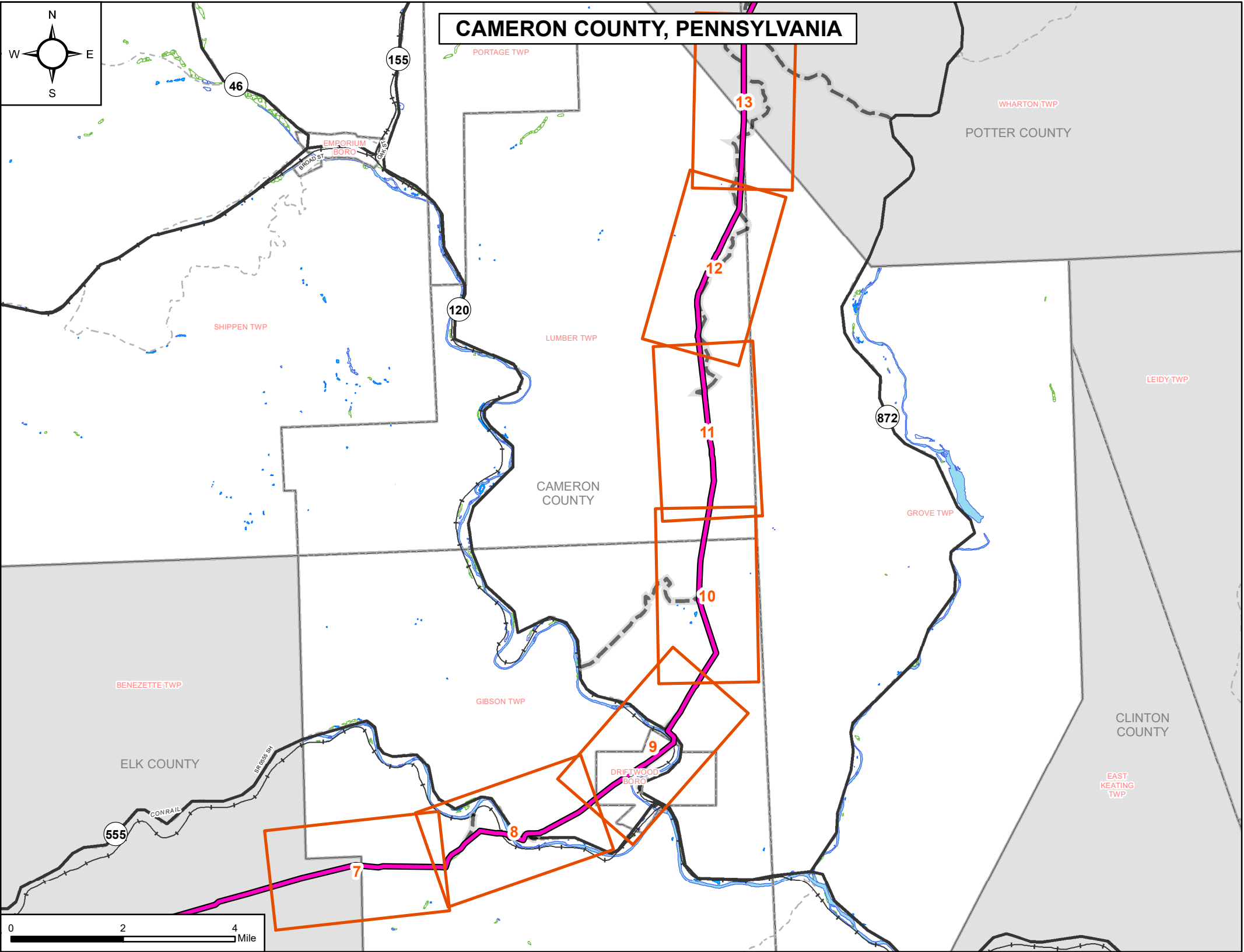
NOTE:
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div><div>National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div></div>	REV	DRAWN BY:	MOTT MACDONALD	INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 4 MILES	
		DATE:	03/2020	



INDEX MAP LEGEND

- Existing Pipeline to be Abandoned

U.S. Route

Local Roads

Routing Map Grid

Freshwater Pond
- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Municipal Boundary

County Boundary

CONSTRUCTION MAP LEGEND

- Existing Pipeline to be Abandoned

Existing NFG Pipeline

Limits of Disturbance/ ESCGP Boundary

Access Road

Major Road

Local Roads

Railroad

Parcels

Municipal Boundary

County Boundary

BhF NRCS Soil Boundary

NHD Stream

Wetland

Delineated Stream

Delineated Wetlands

Approximate 100 Year Floodway

Cut & Cap Location

Grout End Point

Cut/Cap/Grout Insertion

Removal Locations

Rectifier

Valve

Tap
- Existing Casing

Parcels Requesting Removal

Milepost

Watershed Boundary (Chapter 93 Designated or Existing Use)

CWF Cold Water Fishery

EV Exceptional Value

HQ High Quality

HQ-CWF High Quality-Cold Water Fishes

TSF Trout Stocking

Exclusion Zone

Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.

EROSION & SEDIMENT CONTROLS

Compost Filter Sock - 12"

Compost Filter Sock - 18"

Compost Filter Sock - 24"

Compost Filter Sock - 32"

Timber Mat

Waterbar (Temporary)

Erosion Control Matting

Rock Construction Entrance

LAND USE BAND

Forest/Woodland

Industrial/Commercial Land

Open Land

NOTE:
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.



Know what's below.
Call before you dig.

SOURCES:

Parcel Data
Provided by NFG


Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>

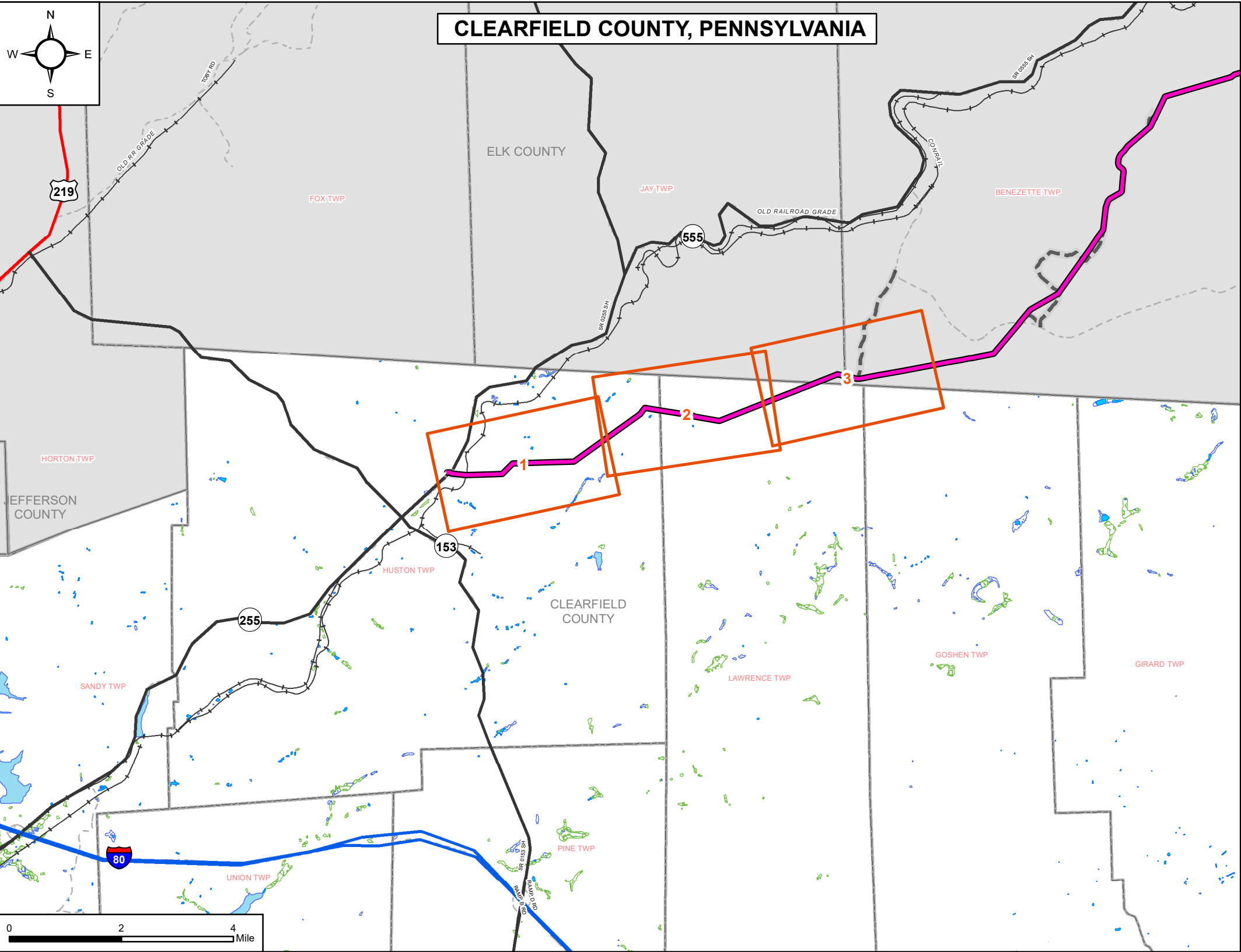
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>

Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>

Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

<div> National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div>	REV	DRAWN BY: MOTT MACDONALD	INDEX SHEET
		CHECKED BY: M. DENICHILO	
		APPROVED BY: M. DENICHILO	
	C	SCALE: 1 INCH = 2 MILES	
		DATE: 03/2020	



INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary

CONSTRUCTION MAP LEGEND

- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note: No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS
- Compost Filter Sock - 12"
- Compost Filter Sock - 18"
- Compost Filter Sock - 24"
- Compost Filter Sock - 32"
- Timber Mat
- Waterbar (Temporary)
- Erosion Control Matting
- Rock Construction Entrance
- LAND USE BAND
- Forest/Woodland
- Industrial/Commercial Land
- Open Land

NOTE:
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.


SOURCES:
Parcel Data
Provided by NFG
Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

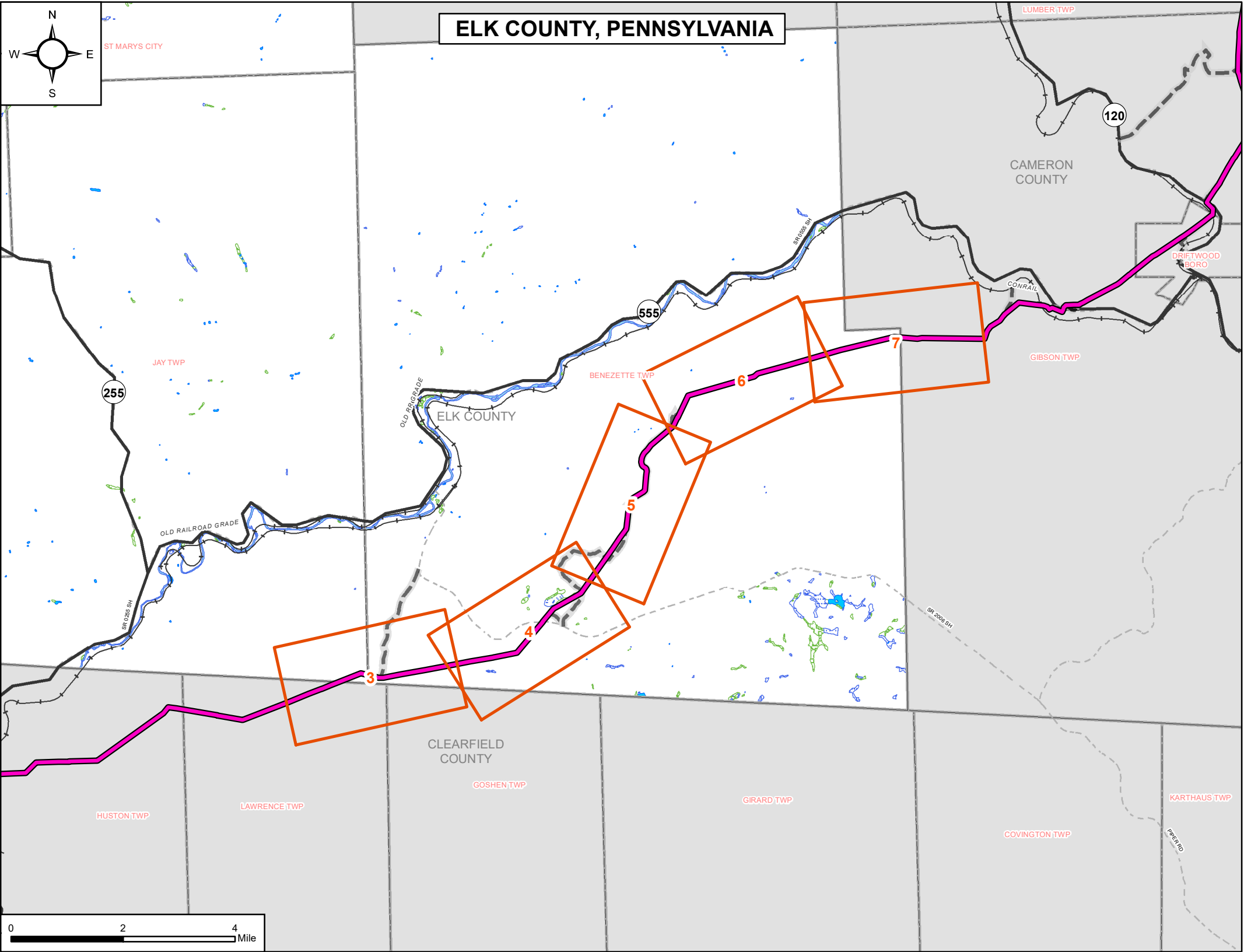
Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>
Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>
Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div><div>National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div></div>	REV	DRAWN BY:	MOTT MACDONALD	INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 2 MILES	
		DATE:	03/2020	



SOURCES:
Parcel Data
Provided by NFG
Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>
Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>
Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary


CONSTRUCTION MAP LEGEND

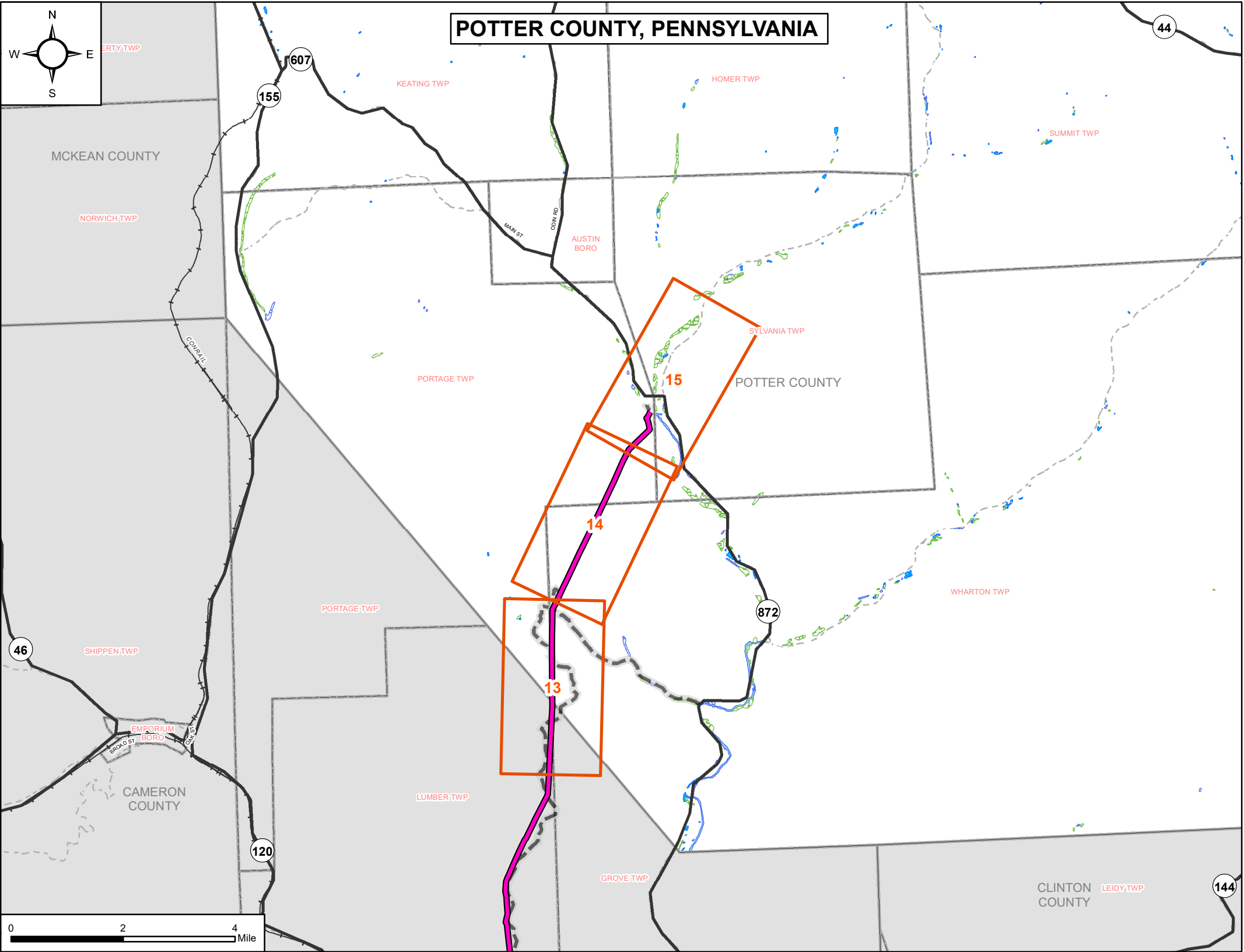
- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS**
 - Compost Filter Sock - 12"
 - Compost Filter Sock - 18"
 - Compost Filter Sock - 24"
 - Compost Filter Sock - 32"
 - Timber Mat
 - Waterbar (Temporary)
 - Erosion Control Matting
 - Rock Construction Entrance
- LAND USE BAND**
 - Forest/Woodland
 - Industrial/Commercial Land
 - Open Land

NOTE:
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.



These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div> National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div>	REV	DRAWN BY:	MOTT MACDONALD	INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 2 MILES	
		DATE:	03/2020	



SOURCES:

Parcel Data
Provided by NFG

Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>

Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>

Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>

Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary

CONSTRUCTION MAP LEGEND

- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS**
- Compost Filter Sock - 12"
- Compost Filter Sock - 18"
- Compost Filter Sock - 24"
- Compost Filter Sock - 32"
- Timber Mat
- Waterbar (Temporary)
- Erosion Control Matting
- Rock Construction Entrance
- LAND USE BAND**
- Forest/Woodland
- Industrial/Commercial Land
- Open Land


NOTE:

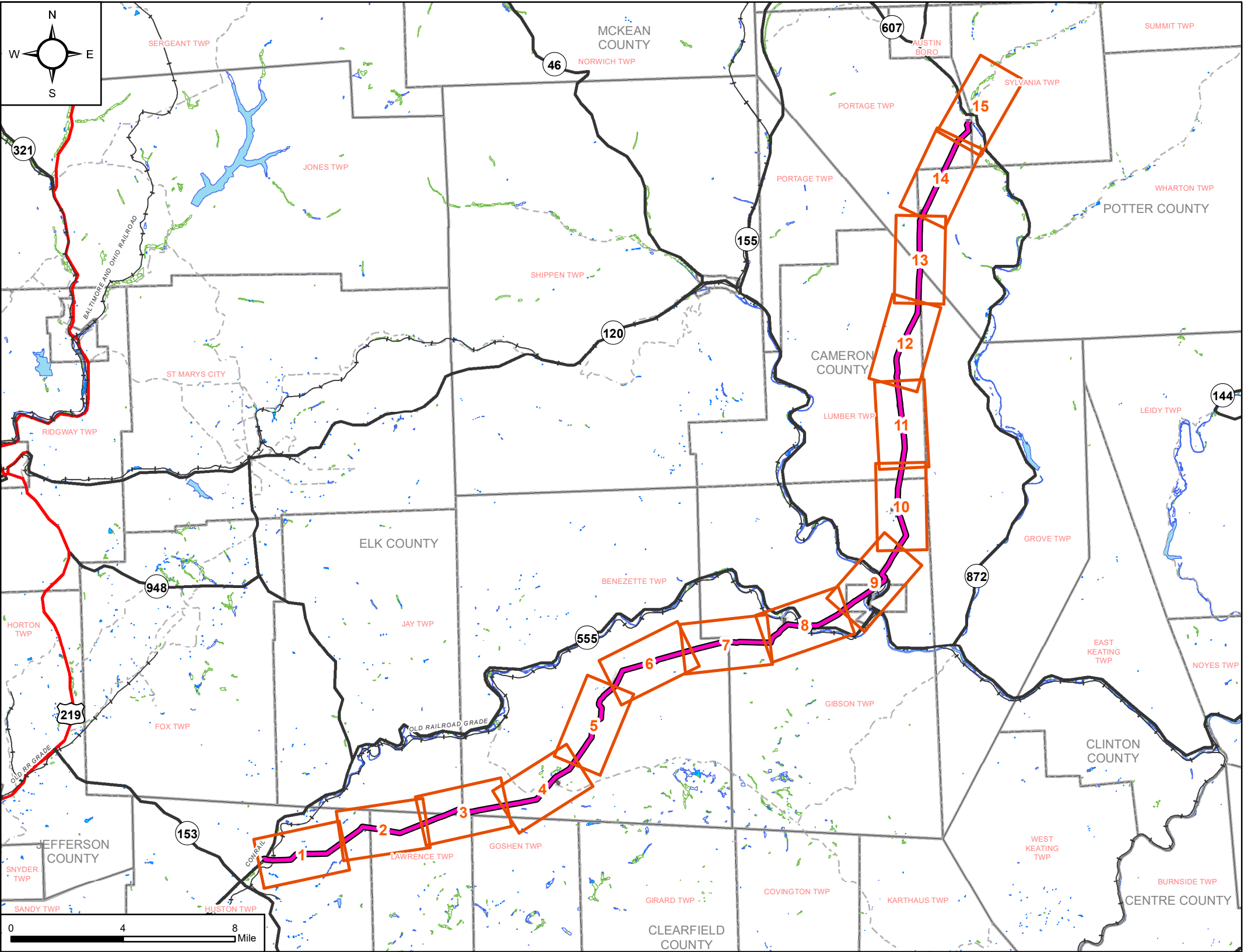
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div><div>National Fuel SUPPLY CORPORATION</div></div> <div>National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div>	REV	DRAWN BY:	MOTT MACDONALD	INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 2 MILES	
		DATE:	03/2020	



INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary

CONSTRUCTION MAP LEGEND

- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note: No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS
- Erosion Control Matting
- LAND USE BAND
- Forest/Woodland
- Industrial/Commercial Land
- Open Land
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap


SOURCES:
Parcel Data
Provided by NFG
Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

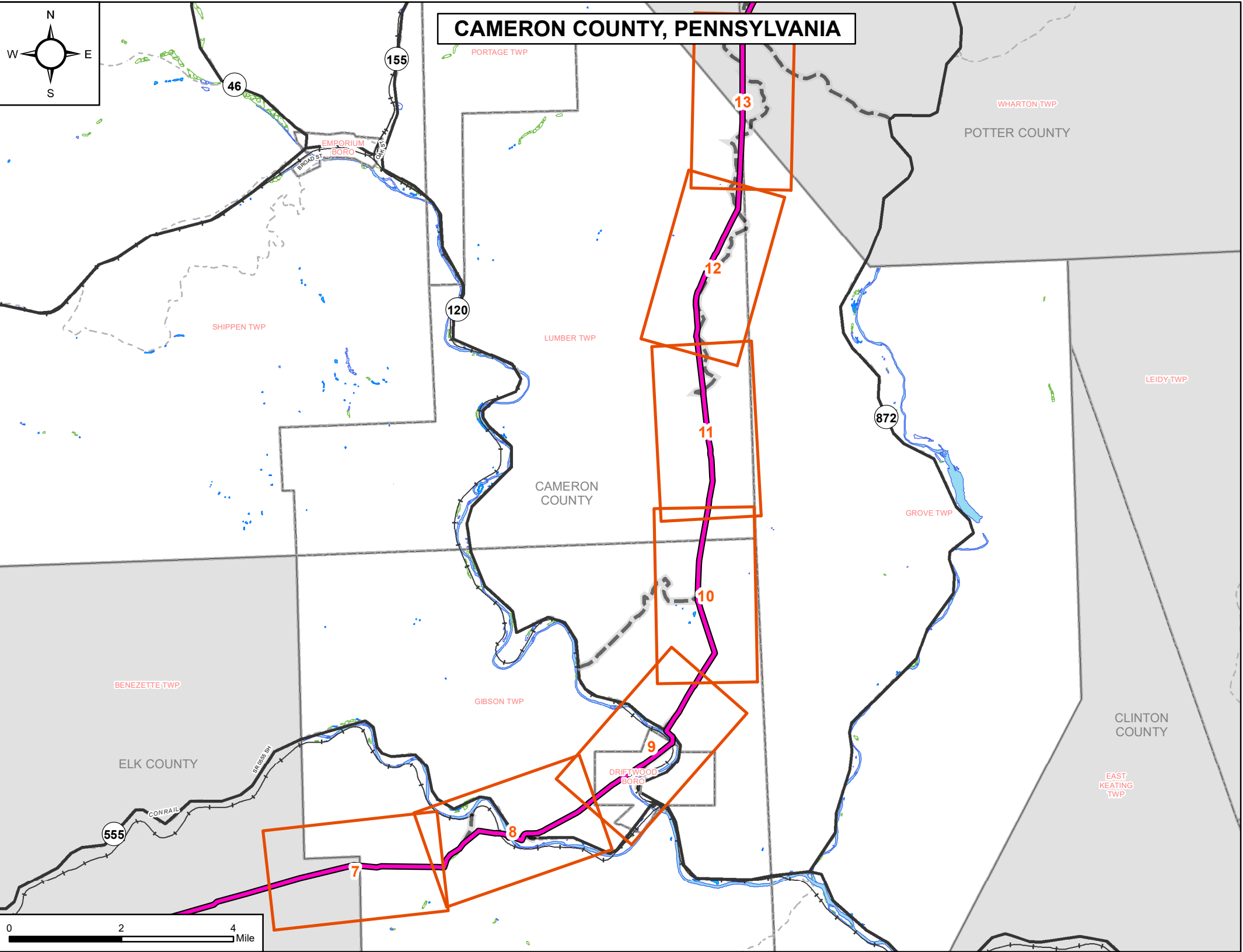
Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>
Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>
Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div><div>National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div></div>	REV	DRAWN BY:	MOTT MACDONALD	SR INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 4 MILES	
		DATE:	03/2020	



SOURCES:
Parcel Data
Provided by NFG
Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>
Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>
Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary

CONSTRUCTION MAP LEGEND


- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS
- Erosion Control Matting
- LAND USE BAND
- Forest/Woodland
- Industrial/Commercial Land
- Open Land

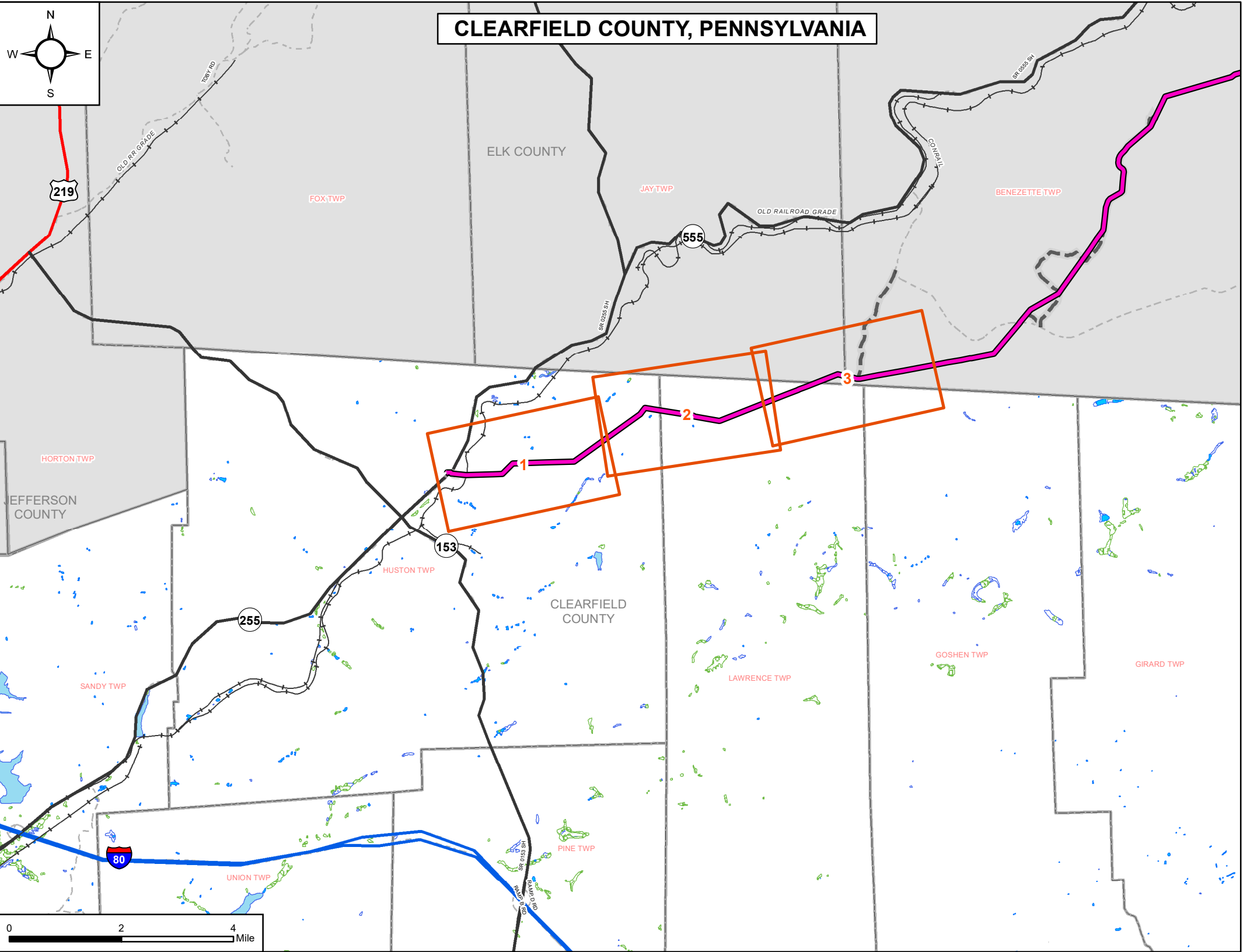
NOTE:
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div></div> <div>National Fuel Gas Supply Corporation</div> <div>FM100 Abandonment Project</div> <div>Penfield to Costello</div>	REV	DRAWN BY:	MOTT MACDONALD	SR INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 2 MILES	
		DATE:	03/2020	



SOURCES:
Parcel Data
Provided by NFG
Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>
Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>
Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary


CONSTRUCTION MAP LEGEND

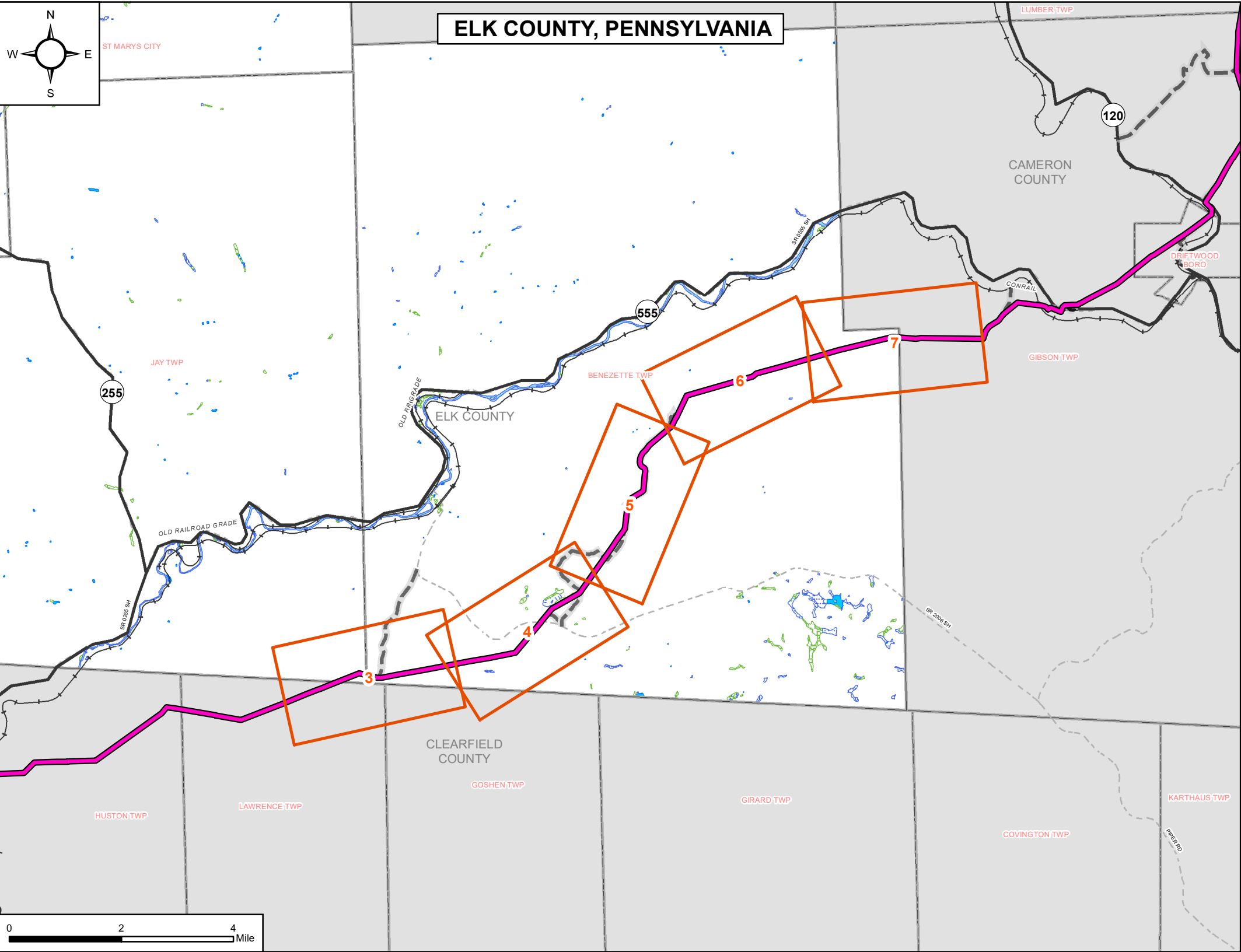
- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS
- Erosion Control Matting
- LAND USE BAND
- Forest/Woodland
- Industrial/Commercial Land
- Open Land
- NOTE:
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div><div>National Fuel SUPPLY CORPORATION</div></div> <div>National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div>	REV	DRAWN BY:	MOTT MACDONALD	SR INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 2 MILES	
		DATE:	03/2020	



SOURCES:
Parcel Data
Provided by NFG
Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>
Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>
Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>
Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary

CONSTRUCTION MAP LEGEND


- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS
- Erosion Control Matting
- LAND USE BAND
- Forest/Woodland
- Industrial/Commercial Land
- Open Land

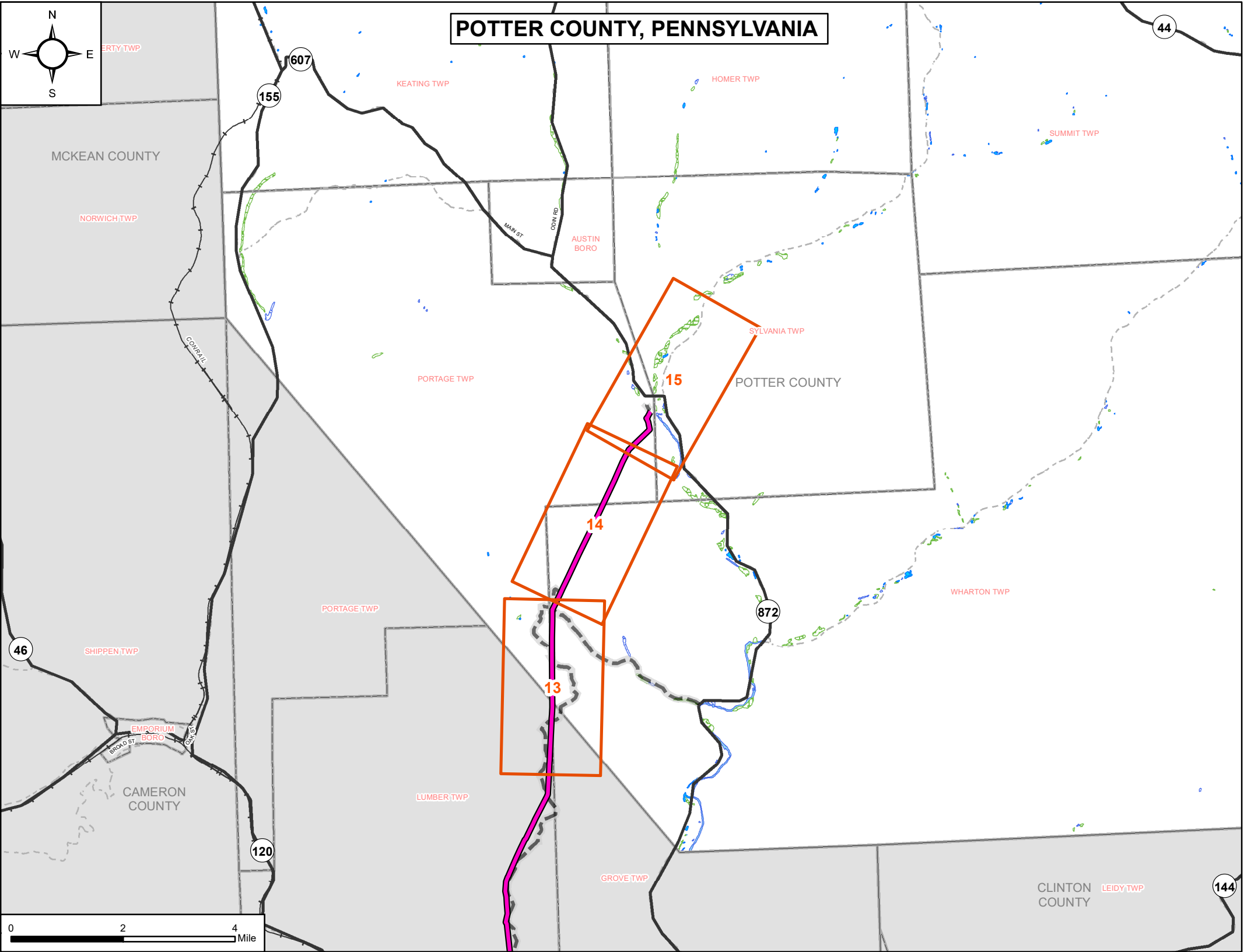
NOTE:
Riparian Buffers
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div></div> <div>National Fuel Gas Supply Corporation</div> <div>FM100 Abandonment Project</div> <div>Penfield to Costello</div>	REV	DRAWN BY:	MOTT MACDONALD	SR INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 2 MILES	
		DATE:	03/2020	



SOURCES:

Parcel Data
Provided by NFG

Mapped Streams
National Hydrography Dataset (NHD)
U.S. Geological Survey on cooperation with U.S. Environmental Protection Agency, USDA Forest Service, and other Federal, State and local partners
<http://www.nhd.usgs.gov>

Mapped Wetlands
U.S. Fish and Wildlife Service, October 01, 2014, National Wetlands Inventory Website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
<http://www.fws.gov/wetlands>

Delineated Streams and Wetlands
Provided by NFG
Stantec
<http://www.stantec.com>

Contours
PAMAP Program, PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey
<http://www.dcnr.state.pa.us/topogeo/pamap>

Roads
1992 - 2019 TomTom. All rights reserved. Streets data is proprietary and the subject of copyright protection and/or database rights protection and/or other intellectual property rights owned by TomTom or its suppliers.
<http://www.tomtom.com>

INDEX MAP LEGEND

- Existing Pipeline to be Abandoned
- U.S. Route
- Local Roads
- Routing Map Grid
- Freshwater Pond
- Freshwater Forested/Shrub Wetland
- Freshwater Emergent Wetland
- Municipal Boundary
- County Boundary


CONSTRUCTION MAP LEGEND

- Existing Pipeline to be Abandoned
- Existing NFG Pipeline
- Limits of Disturbance/ESCGP Boundary
- Access Road
- Major Road
- Local Roads
- Railroad
- Parcels
- Municipal Boundary
- County Boundary
- NRCS Soil Boundary
- NHD Stream
- Wetland
- Delineated Stream
- Delineated Wetlands
- Approximate 100 Year Floodway
- Existing Casing
- Parcels Requesting Removal
- Milepost
- Watershed Boundary (Chapter 93 Designated or Existing Use)
- CWF Cold Water Fishery
- EV Exceptional Value
- HQ High Quality
- HQ-CWF High Quality-Cold Water Fishes
- TSF Trout Stocking
- Exclusion Zone
- Note:
No Hydrocarbon refueling, hazardous material storage, overnight equipment parking, or concrete coating activities within exclusion zones. Pumps & fuel vessels operating in exclusion zones will require secondary containment.
- EROSION & SEDIMENT CONTROLS**
- Erosion Control Matting
- LAND USE BAND**
- Forest/Woodland
- Industrial/Commercial Land
- Open Land
- NOTE:**
- Riparian Buffers**
For Riparian Buffers and forested riparian impacts, please refer to the "Forested Riparian Impacts" mapbook, provided under separate cover.
- Cut & Cap Location
- Grout End Point
- Cut/Cap/Grout Insertion
- Removal Locations
- Rectifier
- Valve
- Tap



Know what's below.
Call before you dig.

These maps have been provided as a tool to assist the contractor in building the pipeline. National Fuel has made responsible efforts to provide this information and verify its accuracy; however, the contractor shall not rely solely on the information provided. National Fuel Gas Company recommends the contractor perform their own due diligence to determine the location of underground facilities, including appropriate state One Call, etc. National Fuel Gas Co. makes no warranty regarding the completeness or accuracy of the information provided.

<div><div>National Fuel Gas Supply Corporation FM100 Abandonment Project Penfield to Costello</div></div>	REV	DRAWN BY:	MOTT MACDONALD	SR INDEX SHEET
		CHECKED BY:	M. DENICHILO	
	C	APPROVED BY:	M. DENICHILO	
		SCALE:	1 INCH = 2 MILES	
		DATE:	03/2020	

Attachment E

Table 2.2-1B: Wetlands Located within Project Work Areas

Wetland Name ¹	County	MP Begin	MP End	Wetland Type Classification ²	Qualify as EV (Yes/No) ⁵	Wetland Construction Impact Dimensions (ft.)	Area within Construction Workspace (acres) ³	Area within Operational Footprint (acres) ⁴
Line YM58								
Wetland 005	McKean	0.5	0.6	PEM	No	304.00 - 53.01	0.381	0.066
Wetland 006	McKean	0.7	0.8	PEM	No	264.60 – 27.16	0.169	0.023
Wetland 007a	McKean	0.9	1.0	PFO	Yes	452.00 - 16.96	0.176	--
Wetland 007	McKean	0.9	1.0	PEM	Yes	824.00 - 43.34	0.822	0.135
Wetland 007b	McKean	1.1	1.1	PFO	No	60.00 - 14.52	0.020	--
Wetland 008	McKean	1.1	1.1	PEM	No	120.00 - 37.02	0.105	0.016
Wetland 009	McKean	1.2	1.3	PEM	Yes	823.00 – 55.89	1.087	0.183
Wetland 009a	McKean	1.2	1.2	PFO	Yes	271.00 - 18.64	0.116	--
Pond 03	McKean	1.2	1.2	PUB	Yes	38.00 - 22.92	0.020	--
Wetland 009b	McKean	1.3	1.3	PFO	No	105.00 - 20.74	0.050	--
Wetland 010a	McKean	1.4	1.5	PFO	Yes	557.00 - 13.76	0.176	--
Wetland 010	McKean	1.4	1.5	PEM	Yes	823.00 – 62.77	1.218	0.190
Wetland 010b	McKean	1.5	1.5	PFO	Yes	208.00 - 8.79	0.042	--
Wetland 011	McKean	1.6	1.6	PEM	Yes	125.00 - 10.80	0.032	0.005
Wetland 145	McKean	1.6	1.6	PEM	No	182.00 - 10.53	0.044	--
Wetland 012b	McKean	1.6	1.6	PEM	No	43.00 - 12.15	0.012	--
Wetland 014	McKean	1.8	1.8	PEM	Yes	44.00 - 17.82	0.018	--
Wetland 015	McKean	1.8	1.8	PEM	Yes	35.00 - 6.22	0.005	--
Wetland 016a	McKean	2.2	2.2	PEM	Yes	122.00 – 61.05	0.175	0.024
Wetland 016	McKean	2.2	2.2	PFO	Yes	106.00 - 4.10	0.010	--
Wetland 016b	McKean	2.2	2.2	PEM	Yes	220.00 – 44.15	0.230	0.044
Pond 06	McKean	2.8	2.8	PUB	No	84.50 - 46.39	0.090	--
Wetland 018	McKean	3.0	3.0	PEM	Yes	41.00 - 9.56	0.009	--

Wetland Name ¹	County	MP Begin	MP End	Wetland Type Classification ²	Qualify as EV (Yes/No) ⁵	Wetland Construction Impact Dimensions (ft.)	Area within Construction Workspace (acres) ³	Area within Operational Footprint (acres) ⁴
Wetland 020a	McKean	3.3	3.3	PFO	Yes	295.00 - 30.41	0.227	0.021
Wetland 020	McKean	3.3	3.4	PEM	Yes	565.00 - 36.46	0.488	0.083
Wetland 023	McKean	3.4	3.6	PEM	No	797.00 - 43.01	0.815	0.161
Wetland 025	McKean	3.6	3.6	PEM	No	90.00 – 52.75	0.112	0.019
Wetland 026	McKean	3.6	3.7	PSS	Yes	375.00 - 33.10	0.335	0.050
Wetland 026a	McKean	3.6	3.7	PEM	Yes	292.00 - 31.47	0.221	0.036
Wetland 027	McKean	3.7	3.7	PEM	Yes	167.00 – 50.34	0.198	0.031
Wetland 028	McKean	4.1	4.1	PEM	No	398.00 - 33.92	0.320	0.059
Wetland 029	McKean	4.3	4.3	PEM	No	156.00 – 44.67	0.165	0.028
Wetland 031	McKean	4.9	5.0	PFO	No	244.00 - 26.24	0.147	--
Wetland 031a	McKean	4.9	5.0	PEM	Yes	218.00 – 35.16	0.183	0.042
Wetland 035-1	McKean	6.6	6.6	PSS	No	231.00- 4.52	0.030	--
Wetland 034	McKean	6.6	6.6	PSS	No	86.00 - 20.26	0.040	--
Wetland 039	McKean	6.7	6.7	PEM	No	146.00 - 31.32	0.105	--
Wetland 037c	McKean	6.8	6.8	PSS	No	101.00 - 62.10	0.159	0.015
Wetland 037b	McKean	6.8	6.8	PEM	No	49.00 - 12.44	0.014	--
Wetland 041	McKean	6.8	6.8	PEM	No	18.00 - 2.42	0.001	--
Wetland 042	McKean	6.9	6.9	PEM	No	30.00 - 11.61	0.008	--
Wetland 045	McKean	7.2	7.2	PEM	No	159.00 - 13.97	0.051	<0.001
Wetland 049	McKean	7.7	7.7	PEM	No	20.00 - 2.17	0.001	--
Wetland 051	McKean	7.8	7.8	PEM	No	392.00 - 31.55	0.293	0.057
Wetland 054	McKean	7.9	7.9	PEM	Yes	50.00 - 40.07	0.047	0.008
Wetland 055	McKean	8.0	8.0	PEM	Yes	200.00 - 32.01	0.148	0.010
Wetland 056	McKean	7.62	7.62	PEM	Yes	16.00 - 2.72	0.001	--
Wetland 059a	McKean	9.3	9.3	PEM	No	92.00 - 48.76	0.105	0.013
Wetland 061	McKean	9.7	9.7	PEM	No	395.00 – 54.69	0.509	0.077

Wetland Name ¹	County	MP Begin	MP End	Wetland Type Classification ²	Qualify as EV (Yes/No) ⁵	Wetland Construction Impact Dimensions (ft.)	Area within Construction Workspace (acres) ³	Area within Operational Footprint (acres) ⁴
Wetland 066a	McKean	9.9	10.0	PEM	No	412.00 - 46.30	0.453	0.093
Wetland 127	McKean	9.9	10.0	PFO	No	308.00 - 20.22	0.143	--
Wetland 067	McKean	10.4	10.4	PEM	Yes	93.00 - 10.30	0.022	<0.001
Wetland 126	McKean	11.2	11.2	PEM	Yes	7.50 - 0.74	<0.001	--
Wetland 126c	McKean	11.2	11.2	PEM	Yes	22.00 - 1.98	0.001	--
Wetland 070	McKean	11.2	11.2	PEM	Yes	59.00 - 14.02	0.019	--
Wetland 071	McKean	11.2	11.2	PEM	Yes	55.00 - 15.04	0.019	--
Wetland 075	McKean	13.9	13.9	PEM	Yes	50.00 - 6.96	0.008	--
Wetland 076	McKean	14.0	14.0	PEM	Yes	116.00 - 10.89	0.029	0.003
Wetland 077	McKean	14.0	14.0	PEM	Yes	104.00 - 23.03	0.056	0.007
Wetland 078	McKean	14.1	14.1	PEM	Yes	42.00 - 12.44	0.012	--
Wetland 080	McKean	14.1	14.1	PUB	Yes	200.00 - 12.41	0.058	0.004
Pond 07	McKean	14.1	14.1	PUB	Yes	25.40 - 17.14	0.010	--
Wetland 082	McKean	14.1	14.1	PEM	No	7.26 - 2.10	<0.001	--
Wetland 083	McKean	14.3	14.3	PEM	Yes	224.00 - 24.89	0.131	0.018
Wetland 086	McKean	14.5	14.5	PEM	No	134.00 - 21.12	0.065	--
Wetland 088	McKean	14.5	14.6	PEM	No	357.00 - 40.26	0.330	--
Wetland 091	McKean	15.1	15.2	PSS	No	765.00 - 37.58	0.801	0.141
Wetland 091a	McKean	15.2	15.2	PEM	No	692.00 - 24.04	0.385	0.017
Wetland 094	McKean	15.3	15.4	PEM	No	161.00 - 11.63	0.043	--
Wetland 096	McKean	18.0	18.0	PEM	Yes	21.00 - 8.29	0.004	--
Wetland 101	Potter	19.0	19.0	PEM	Yes	160.00 - 26.40	0.099	0.014
Wetland 143	Potter	19.2	19.2	PEM	Yes	75.00 - 31.36	0.056	0.010
Wetland 142	Potter	23.0	23.1	PSS	Yes	157.00 - 57.98	0.241	0.032
Wetland 141a	Potter	23.2	23.2	PEM	Yes	202.00 - 60.81	0.289	0.045
Wetland 141	Potter	23.2	23.3	PSS	Yes	206.00 - 18.39	0.094	0.007

Wetland Name ¹	County	MP Begin	MP End	Wetland Type Classification ²	Qualify as EV (Yes/No) ⁵	Wetland Construction Impact Dimensions (ft.)	Area within Construction Workspace (acres) ³	Area within Operational Footprint (acres) ⁴
Wetland 125	Potter	26.6	26.6	PEM	No	84.00 – 62.22	0.121	0.018
Wetland 124a	Potter	26.7	26.7	PEM	Yes	143.00 - 11.88	0.040	0.004
Wetland 124b	Potter	26.7	26.7	PEM	Yes	125.00 - 10.80	0.032	0.007
Line YM58 Total:							13.288	1.817
Line YM58 Access Roads								
Wetland 017	McKean		PAR-3	PEM	No	82.00 - 4.78	0.009	--
Wetland 017a	McKean		PAR-3	PEM	No	83.00 - 5.77	0.011	--
Wetland 117	McKean		PAR-5	PEM	No	26.00 - 6.70	0.004	--
Wetland 118	McKean		PAR-5	PEM	Yes	147.00 - 8.29	0.028	--
Wetland 119	McKean		PAR-5	PEM	No	328.00 - 3.05	0.023	--
Wetland 119a	McKean		PAR-5	PEM	No	651.00 - 9.16	0.137	--
Wetland 120	McKean		PAR-5	PEM	No	122.00 - 8.92	0.025	--
Wetland 121	McKean		PAR-5	PEM	No	156.00 - 4.18	0.015	--
Wetland 121a	McKean		PAR-5	PEM	No	30.00 - 11.61	0.008	--
Wetland 122	McKean		PAR-5	PEM	No	342.00 - 10.57	0.083	--
Wetland 123	McKean		PAR-5	PEM	No	84.00 - 0.51	0.001	--
Wetland 123a	McKean		PAR-5	PEM	No	168.00 - 15.55	0.060	--
Wetland 035-2	McKean		TAR-7	PSS	Yes	231.00 - 4.52	0.024	--
Wetland 035a	McKean		TAR-7	PEM	No	74.00 - 10.59	0.018	--
Wetland 057	McKean		TAR-10	PEM	Yes	48.00 - 6.35	0.007	--
Wetland 058	McKean		PAR-12	PEM	No	220.00 - 9.90	0.050	--
Wetland 058a	McKean		PAR-12	PEM	No	62.00 - 7.02	0.010	--
Wetland 159	McKean		TAR-10	PEM	No	45.00 - 1.93	0.002	--
Wetland 160	McKean		TAR-10	PEM	No	92.00 - 5.68	0.012	--
Wetland 060a	McKean		PAR-12	PEM	No	283.00 - 9.08	0.059	--
Wetland 060	McKean		PAR-12	PEM	No	281.00 - 7.59	0.049	--

Wetland Name ¹	County	MP Begin	MP End	Wetland Type Classification ²	Qualify as EV (Yes/No) ⁵	Wetland Construction Impact Dimensions (ft.)	Area within Construction Workspace (acres) ³	Area within Operational Footprint (acres) ⁴
Wetland 061b	McKean		TAR-13	PEM	No	98.00 - 12.44	0.028	--
Wetland 061c	McKean		TAR-13	PEM	No	95.00 - 3.20	0.007	--
Wetland 062	McKean		TAR-13	PEM	No	118.00 - 13.28	0.036	--
Wetland 062A	McKean		TAR-13	PEM	No	14.00 - 0.16	<0.001	--
Wetland 063	McKean		TAR-13	PEM	No	330.00 - 7.26	0.055	--
Wetland 063a	McKean		TAR-13	PEM	No	277.00 - 1.72	0.011	--
Wetland 064	McKean		TAR-13	PEM	No	45.00 - 1.93	0.002	--
Wetland 065	McKean		TAR-13	PEM	No	92.00 - 13.25	0.028	--
Wetland 065a	McKean		TAR-13	PEM	Yes	62.00 - 0.70	0.001	--
Wetland 140	McKean		PAR-14	PEM	No	35.00 - 8.71	0.007	--
Wetland 089	McKean		TAR-22	PEM	No	47.00 - 9.26	0.010	--
Wetland 089a	McKean		TAR-22	PEM	No	10.00 - 4.35	0.001	--
Wetland 106	Potter		PAR-30	PUB	No	327.00 - 3.99	0.030	--
Line YM58 Total:							0.854	--
Line KL Extension								
Wetland 004b	McKean	0.2	0.2	PEM	Yes	243.00 - 103.61	0.583	0.095
Line KL Extension Total:							0.583	0.095
Marvindale Compressor Station Access Roads								
Wetland 002	McKean		PAR-1	PEM	Yes	40.00 - 7.62	0.007	--
Wetland 003	McKean		PAR-1	PFO	Yes	65.00 - 4.02	0.006	--
Pond 01	McKean		PAR-1	PUB	Yes	17.20 - 7.59	0.003	--
Wetland 004a	McKean		PAR-1	PEM	Yes	55.00 - 11.08	0.014	--
Wetland 004	McKean		PAR-1	PFO	Yes	112.00 - 11.66	0.030	--
Marvindale Compressor Station Access Roads Total:							0.060	--
Line YM224 Loop								
Wetland 112	Potter	1.1	1.1	PEM	No	73.00 - 23.27	0.039	0.002

Wetland Name ¹	County	MP Begin	MP End	Wetland Type Classification ²	Qualify as EV (Yes/No) ⁵	Wetland Construction Impact Dimensions (ft.)	Area within Construction Workspace (acres) ³	Area within Operational Footprint (acres) ⁴
Wetland 114	Potter	1.1	1.1	PEM	No	227.00 - 8.82	0.046	--
YM224 Loop Total:							0.085	0.002
Line FM100 Abandonment								
Wetland 149	Clearfield	0.0	0.1	PSS	Yes	53.00 - 36.98	0.045	--
Wetland 149b	Clearfield	0.2	0.2	PEM	Yes	57.00 - 2.29	0.003	--
Wetland 149c	Clearfield	0.2	0.2	PEM	Yes	190.00 - 22.00	0.096	--
Wetland 149d	Clearfield	0.2	0.2	PSS	Yes	74.00 - 15.89	0.027	--
Wetland 139a	Clearfield	4.8	4.8	PEM	Yes	51.35 - 19.51	0.023	--
Wetland 139	Clearfield	4.9	4.9	PEM	Yes	50.00 - 19.16	0.022	--
Wetland 137	Elk	7.9	7.9	PEM	Yes	22.00 - 5.94	0.003	--
Wetland 138	Elk	8.0	8.0	PEM	Yes	50.00 - 13.06	0.015	--
Wetland 135	Elk	11.1	11.1	PEM	No	44.00 - 25.74	0.026	--
Wetland 134a	Elk	12.0	12.0	PEM	No	56.00 - 48.22	0.062	--
Wetland 148	Cameron	22.1	22.1	PSS	Yes	48.00 - 13.60	0.015	--
Line FM100 Abandonment Total:							0.337	--
PEM Total:							12.042	1.853
PSS Total:							1.811	0.040
PFO Total:							1.143	0.021
PUB Total:							0.211	--
Wetlands Total:							15.207	1.914

¹ Field designations represent unique identifiers assigned to each wetland during field surveys.

² Wetland classifications are based on the Cowardin classification systems whereby P = Palustrine, EM = Emergent, FO = Forested, and SS = Scrub-Shrub.

³ Land within the Construction Workspace includes disturbance to the ATWS, TWS, and the permanent easement.

⁴ Operational impacts account for the permanently maintained 10-foot-wide easement.

⁵ Exceptional Value (EV) wetlands include wetland areas that: A) serve as habitat for endangered/threatened species; B) are located within 0.5 miles of wetlands that maintain the habitat of a threatened/endangered species; c) are located in or along the floodplain of a wild trout stream of waters listed as exceptional value under chapter 93 and the floodplain of streams tributary thereto; d) are located along existing public or private drinking water supplies (surface or groundwater); or e) are in natural/wild areas within state forest or parks or federal wilderness areas <https://www.pacode.com/secure/data/025/chapter105/s105.17.html>

Table 2.2-1C: Floodplains Crossed by the Project

County	MP/ Access Road Name	Latitude	Longitude	Waterbody Project ID	Waterbody Name	Designated Use and Water Quality Criteria
Line YM58						
McKean	0.9	41.70952384	-78.48415010	Stream 006	UNT to Wernway Hollow	HQ-CWF
McKean	1.2	41.71148123	-78.47999842	Stream 007	UNT to Wernway Hollow	HQ-CWF
McKean	1.4	41.71328078	-78.47698812	Stream 008	Wernway Hollow	HQ-CWF
McKean	1.5	41.71436376	-78.47474427	Stream 011	UNT to Wernway Hollow	HQ-CWF
McKean	1.6	41.71464539	-78.47414846	Stream 012	UNT to Wernway Hollow	HQ-CWF
McKean	1.6	41.71479147	-78.47411364	Stream 014	UNT to Wernway Hollow	HQ-CWF
McKean	1.8	41.71685195	-78.47032115	Stream 017	UNT to Wernway Hollow	HQ-CWF
McKean	2.2	41.71984324	-78.46531115	Stream 019	UNT to Browns Mill Hollow Run	HQ-CWF
McKean	2.2	41.7200442	-78.46492246	Stream 020	UNT to Browns Mill Hollow Run	HQ-CWF
McKean	3.0	41.72633739	-78.45228861	Stream 026	UNT to Robbins Brook	HQ-CWF
McKean	3.3	41.72975562	-78.44757736	Stream 027	UNT to Robbins Brook	HQ-CWF
McKean	3.4	41.73038108	-78.44719633	Robbins Brook	Robbins Brook	HQ-CWF
McKean	3.6	41.73307059	-78.44369357	Donley Fork	Donley Fork	HQ-CWF
McKean	4.6	41.74251833	-78.43158935	Stream 160	UNT to Robbins Brook	HQ-CWF
McKean	4.9	41.74315861	-78.42554339	Stream 030 -1	UNT to Robbins Brook	HQ-CWF
McKean	6.6	41.75293467	-78.39749265	Stream 037	UNT to Potato Creek	TSF
McKean	6.7	41.7544034	-78.39399173	Potato Creek	Potato Creek	TSF
McKean	7.1	41.7544615	-78.38972579	Stream 038	UNT to Potato Creek	TSF
McKean	7.1	41.75444543	-78.38935917	Stream 039	UNT to Potato Creek	CWF
McKean	7.2	41.75441042	-78.38743214	Stream 159	UNT to Potato Creek	CWF
McKean	7.9	41.75706657	-78.37493616	Stream 040	UNT to Walcott Brook	CWF
McKean	7.9	41.75697296	-78.37485919	Stream 041	UNT to Walcott Brook	CWF
McKean	8.0	41.75699609	-78.37249149	Stream 043	UNT to Walcott Brook	CWF

County	MP/ Access Road Name	Latitude	Longitude	Waterbody Project ID	Waterbody Name	Designated Use and Water Quality Criteria
McKean	10.4	41.76355628	-78.32941825	Stream 054	Coalbed Hollow	HQ-CWF
McKean	11.2	41.76718262	-78.3146635	Stream 122	UNT to Bemis Hollow	HQ-CWF
McKean	11.2	41.76724807	-78.31686750	Stream 121	UNT to Bemis Hollow	HQ-CWF
McKean	11.3	41.76712779	-78.3145119	Stream 055	Bemis Hollow	HQ-CWF
McKean	11.3	41.76712281	-78.31426231	Stream 056	UNT to Bemis Hollow	HQ-CWF
McKean	11.3	41.76734102	-78.31398342	Stream 057	UNT to Bemis Hollow	HQ-CWF
McKean	13.6	41.78305035	-78.27729453	Stream 066	UNT to Allegheny Portage Creek	CWF
McKean	14.0	41.78829673	-78.27052216	Allegheny Portage Creek	Allegheny Portage Creek	TSF
McKean	14.1	41.7887135	-78.26995579	Stream 067	UNT to Allegheny Portage Creek	CWF
McKean	14.2	41.78988336	-78.26787878	Stream 068	UNT to Allegheny Portage Creek	CWF
McKean	14.3	41.79097787	-78.26622532	Stream 070	UNT to Allegheny Portage Creek	CWF
McKean	14.5	41.7925588	-78.26424459	Stream 071	UNT to Allegheny River	CWF
McKean	14.6	41.79351298	-78.26314877	Stream 073	UNT to Allegheny River	CWF
McKean	14.7	41.79421314	-78.26217648	Stream 074	UNT to Allegheny River	CWF
McKean	14.7	41.79442351	-78.2619073	Stream 075	UNT to Allegheny River	CWF
McKean	14.9	41.79592939	-78.26034516	Allegheny River	Allegheny River	CWF
McKean	15.4	41.795592	-78.248992	Stream 078	UNT to Allegheny River	CWF
McKean	15.7	41.80863178	-78.22251845	Coleman Creek	Coleman Creek	CWF
McKean	18.0	41.81016678	-78.20603292	Stream 086	UNT to Jordan Hollow	CWF
McKean	18.1	41.8110168	-78.20534566	Stream 089	UNT to Jordan Hollow	CWF
McKean	PAR-3	41.7178022	-78.45295649	Stream 022	UNT to Red Mill Brook	CWF
McKean	PAR-3	41.71663716	-78.45152507	Stream 023	UNT to Red Mill Brook	CWF
McKean	PAR-3	41.71277612	-78.44639801	Stream 025	UNT to Red Mill Brook	CWF
McKean	PAR-3	41.71380682	-78.44632243	Stream 024	UNT to Red Mill Brook	CWF
McKean	PAR-3	41.72249441	-78.45397676	Stream 021	UNT to Red Mill Brook	CWF

County	MP/ Access Road Name	Latitude	Longitude	Waterbody Project ID	Waterbody Name	Designated Use and Water Quality Criteria
McKean	PAR-5	41.76275543	-78.47466734	Stream 109	UNT to Irons Hollow	CWF
McKean	PAR-5	41.76165361	-78.4739665	Stream 110	UNT to Irons Hollow	CWF
McKean	PAR-5	41.75557959	-78.47233415	Stream 111	UNT to Irons Hollow	CWF
McKean	PAR-5	41.75714654	-78.47049738	Stream 112	UNT to Irons Hollow	CWF
McKean	PAR-5	41.75778345	-78.46514879	Stream 113	UNT to Irons Hollow	CWF
McKean	PAR-5	41.74456085	-78.43976928	Stream 114	UNT to Irons Hollow	CWF
McKean	PAR-5	41.74315861	-78.42554339	Stream 030-2	UNT to Robbins Brook	HQ-CWF
McKean	TAR-6	41.73616244	-78.40797283	Stream 032	UNT to Robbins Brook	HQ-CWF
McKean	TAR-6	41.73596673	-78.40637594	Stream 033	UNT to Robbins Brook	HQ-CWF
McKean	TAR-6	41.73650956	-78.40428649	Stream 034	UNT to Robbins Brook	HQ-CWF
McKean	TAR-6	41.73702569	-78.40279245	Stream 035	UNT to Robbins Brook	HQ-CWF
McKean	TAR-6	41.737596	-78.40079208	Stream 036	UNT to Robbins Brook	HQ-CWF
McKean	TAR-10	41.74903927	-78.37653927	Stream 044	UNT to Walcott Brook	CWF
McKean	PAR-12	41.76034218	-78.36627787	Stream 045	UNT to Walcott Brook	CWF
McKean	TAR-10	41.75373402	-78.36461709	Stream 198	UNT to Walcott Brook	CWF
McKean	PAR-12	41.76108322	-78.3644886	Stream 046	UNT to Walcott Brook	CWF
McKean	PAR-12	41.76105066	-78.35817164	Stream 047	UNT to Walcott Brook	CWF
McKean	PAR-12	41.76093737	-78.3579907	Stream 048	UNT to Walcott Brook	CWF
McKean	PAR-12	41.76041497	-78.35498313	Stream 049	UNT to Walcott Brook	CWF
McKean	PAR-12	41.76322064	-78.3500265	Stream 050	UNT to Walcott Brook	CWF
McKean	TAR-13	41.74881982	-78.32859692	Stream 051	UNT to Walcott Brook	CWF
McKean	TAR-13	41.74802283	-78.32751972	Stream 052	UNT to Walcott Brook	CWF
McKean	TAR-13	41.74798343	-78.32602203	Stream 053	UNT to Walcott Brook	CWF
McKean	PAR-14	41.77139407	-78.31068016	Stream 058	UNT to Bemis Hollow	HQ-CWF
McKean	PAR-14	41.76735896	-78.3083331	Stream 118	UNT to Bemis Hollow	HQ-CWF

County	MP/ Access Road Name	Latitude	Longitude	Waterbody Project ID	Waterbody Name	Designated Use and Water Quality Criteria
McKean	PAR-14	41.77688244	-78.30974868	Stream 059	UNT to Bemis Hollow	HQ-CWF
McKean	PAR-14	41.77998706	-78.30778801	Stream 060	UNT to Bemis Hollow	HQ-CWF
McKean	PAR-14	41.78092323	-78.30711247	Stream 061	UNT to Bemis Hollow	HQ-CWF
McKean	PAR-14	41.78404182	-78.30766374	Stream 062	Bemis Hollow	HQ-CWF
McKean	PAR-25	41.81054173	-78.2381618	Stream 080	UNT to Benson Hollow	CWF
McKean	PAR-25	41.81025457	-78.2337313	Stream 081	Benson Hollow	CWF
McKean	PAR-25	41.79599358	-78.24327073	Coleman Creek	Coleman Creek	CWF
McKean	PAR-25	41.80961941	-78.2212397	Stream 082	UNT to Coleman Creek	CWF
McKean	PAR-25	41.80998285	-78.22089958	Stream 083	UNT to Coleman Creek	CWF
McKean	PAR-25	41.81351769	-78.21890368	Stream 084	UNT to Coleman Creek	CWF
McKean	PAR-25	41.81661466	-78.2189201	Stream 085	UNT to Coleman Creek	CWF
McKean	PAR-25	41.75373402	-78.36461709	Stream 196	UNT to Coleman Creek	CWF
McKean	TAR-26	41.81393544	-78.20897827	Stream 085c	UNT to Jordan Hollow	CWF
McKean	TAR-26	41.81581804	-78.20923341	Stream 085b	UNT to Jordan Hollow	CWF
McKean	TAR-26	41.81744083	-78.20848581	Stream 085a	UNT to Jordan Hollow	CWF
McKean	SA-7	41.80948877	-78.42597083	Stream 195	UNT to Potato Creek	CWF
Potter	18.1	41.8111870	-78.2051968	Stream 091	UNT to Jordan Hollow	CWF
Potter	18.1	41.8111918	-78.2050226	Stream 092	UNT to Jordan Hollow	CWF
Potter	18.1	41.8112494	-78.2051133	Stream 090	Jordan Hollow	CWF
Potter	18.9	41.8180475	-78.1947849	Stream 093	Ernst Hollow	CWF
Potter	19.1	41.8202685	-78.1930235	Stream 094	UNT to Sartwell Creek	CWF
Potter	19.2	41.8216804	-78.1916060	Sartwell Creek	Sartwell Creek	CWF
Potter	19.6	41.8238897	-78.1841700	Stream 096	UNT to Sartwell Creek	CWF
Potter	19.7	41.8247684	-78.1828970	Stream 098	UNT to Sartwell Creek	CWF
Potter	19.9	41.82744521	-78.18129453	Stream 197	UNT to Sartwell Creek	CWF

County	MP/ Access Road Name	Latitude	Longitude	Waterbody Project ID	Waterbody Name	Designated Use and Water Quality Criteria
Potter	21.8	41.8370533	-78.14919817	Stream 099	Baker Hollow	CWF
Potter	23.0	41.8359036	-78.1282262	Stream 156	Fishing Creek	CWF
Potter	23.2	41.83548861	-78.12540536	Stream 152	UNT to Fishing Creek	CWF
Potter	25.0	41.8391466	-78.0965789	Stream 151	UNT to East Branch Fishing Creek	HQ-CWF
Potter	26.0	41.8448506	-78.0796395	Stream 117	UNT to Fishing Creek	CWF
Potter	26.8	41.8452839	-78.0647304	Stream 116	East Branch Fishing Creek	HQ-CWF
Potter	27.4	41.8447063	-78.0527711	Whitney Creek	Whitney Creek	EV
Potter	27.8	41.84510165	-78.0444320	Stream 102	UNT to Whitney Creek	EV
Potter	28.7	41.85001485	-78.02968847	Stream 103	UNT to Whitney Creek	EV
Potter	PAR-31	41.8374915	-78.1201519	Stream 155	UNT to Fishing Creek	CWF
Potter	PAR-31	41.8393374	-78.1087150	Stream 153	UNT to Fishing Creek	CWF
Potter	PAR-31	41.8396724	-78.1078149	Stream 154	UNT to Fishing Creek	CWF
Potter	PAR-33	41.8462215	-78.0841382	Stream 150	UNT to Fishing Creek	CWF
Line KL Extension						
McKean	0.0	41.70435834	-78.50000496	Stream 005	UNT to Warner Brook	HQ-CWF
McKean	0.0	41.70416085	-78.49996793	Stream 001	UNT to Warner Brook	HQ-CWF
FM100 Abandonment						
Clearfield	0.1	41.21946422	-78.55628606	Stream 180	Bennett Branch Sinnemahoning Creek	CWF
Clearfield	0.2	41.21946422	-78.55628606	Stream 181	UNT to Bennett Branch Sinnemahoning Creek	CWF
Clearfield	4.9	41.23290907	-78.47525624	Stream 145	Laurel Run	HQ-CWF
Elk	7.9	41.24112555	-78.41853688	Stream 144	UNT to Medix Run	HQ-CWF
Elk	7.9	41.24119763	-78.41819764	Stream 143	Medix Run	HQ-CWF
Cameron	23.2	41.33125816	-78.18382838	Stream 174	Bennett Branch Sinnemahoning Creek	WWF
Cameron	26.8	41.35497645	-78.12688099	Stream 169	Driftwood Branch Sinnemahoning Creek	TSF

Table 2.2-1D: Water Supply Wells and Springs within 150-feet of Project Work Areas

Facility ¹ / County	MP	Latitude	Longitude	Well Type	Well ID	Workspace Type	Approx. Distance from Construction Workspace (feet)	Current Use
Line YM58								
McKean	19.1	41.820862	-78.193240	Spring	N/A	ATWS	91.0	Not utilized as a source of potable water
Potter	23.8	41.835457	-78.125261	Spring	N/A	ATWS	114.5	Not utilized as a source of potable water
Potter	23.2	41.83570	-78.12474	Spring	N/A	TWS	75.1	Not utilized as a source of potable water
Line KL Extension								
McKean	0.0	41.70135	-78.49992	Agricultural Irrigation	594683	ATWS	0	Withdrawal
McKean	0.0	41.70167	-78.49972	Domestic	131079	ATWS	0	Withdrawal
Line FM100 Abandonment								
Elk	8.0	41.24098	-78.417066	Spring	N/A	TWS	28.4	Not utilized as a source of potable water
Potter	44.0	41.59083	-78.05917	Domestic	N/A	Access Road	53.2	Withdrawal

¹ Project components not addressed in table do not have water supply wells/springs within 150 feet of Project workspaces.
Source: PAGWIS 2018, landowner coordination and Project environmental survey.