



Paul W. Diehl
Counsel-Midstream
412.395.5540 Direct
412.553.7781 Fax
pdiehl@eqt.com

February 16, 2017

Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Equitrans, L.P.
Docket No. CP16-13-000
Equitrans Expansion Project – Response to data request
OEP/DG2E/G3

Dear Ms. Bose:

On January 30, 2017, the Office of Energy Projects (“OEP”) issued a data request to Equitrans, LP (“Equitrans”) with respect to Equitrans’ certificate application in Docket No. CP16-13-000. Attached is the response of Equitrans to that data request. Note that the information contained in this filing includes material that reflects changes to material previously submitted, especially as it relates to the Cline Route Variation that Equitrans proposed to adopt in its December 22, 2016 response to the Draft Environmental Impact Statement. Exhibit A contains all tables, figures, and appendices in the DEIS that have been updated as a result of the adoption of this variation. Equitrans has designated the changes to certain tables and appendices using strikeouts, underlines and text color. Also attached is the verification of the individual providing that response.

If you have any questions about the data response, please do not hesitate to contact me at (412) 395-5540 or pdiehl@eqt.com.

Respectfully submitted,

Equitrans, L.P.

A handwritten signature in dark ink, appearing to read "Paul W. Diehl", written over a light gray circular stamp.

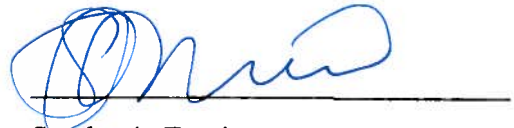
Paul W. Diehl
Counsel-Midstream

Enclosures

cc: Paul Friedman – OEP (w/enclosures)
Lavinia DiSanto – Cardno, Inc. (w/enclosures)
Doug Mooneyhan – Cardno, Inc. (w/enclosures)
Service list (w/o enclosures)

VERIFICATION

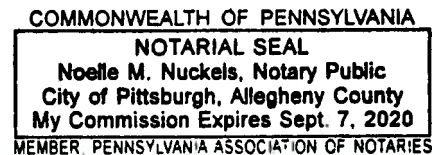
Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, Stephanie Frazier, being duly sworn, upon her oath says that she is [title]; that she has read and is familiar with the foregoing responses to the Commission's January 30, 2017 data request in Docket No. CP16-13-000; that the contents of the responses are true and correct to the best of her knowledge, information and belief; and that she has full power and authority to prepare the responses and execute this verification.



Stephanie Frazier
Supervisor – Environmental
Permitting

COUNTY OF ALLEGHENY
STATE OF PENNSYLVANIA

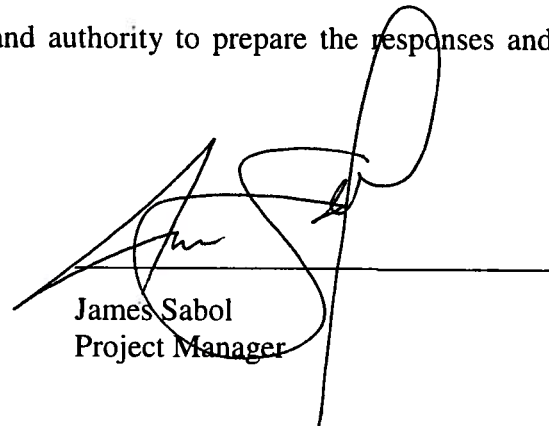
Subscribed and sworn before me this 16 day of February 2017.



Noelle M Nuckels
Notary Public

VERIFICATION

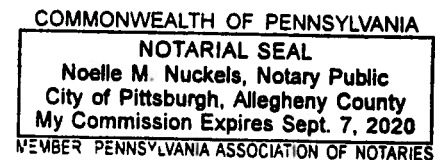
Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, James Sabol, being duly sworn, upon his oath says that he is Project Manager; that he has read and is familiar with the foregoing responses to the Commission's January 30, 2017 data request in Docket No. CP16-13-000; that the contents of the responses are true and correct to the best of his knowledge, information and belief; and that he has full power and authority to prepare the responses and execute this verification.



James Sabol
Project Manager

COUNTY OF ALLEGHENY
STATE OF PENNSYLVANIA

Subscribed and sworn before me this 16 day of February 2017.



Noelle M. Nuckels

Notary Public

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Federal Energy Regulatory Commission

General

1. Attachment C filed October 31, 2016 states “Equitrans will follow the FERC Plan and Procedures as modified within the draft Environmental Impact Statement (DEIS), in addition to its state -specific earth disturbance plans. Equitrans does not intend to develop its own project -specific Plan and Procedures. State -specific permits are consistent with the FERC Plan and Procedures.” Confirm that Equitrans intends to replace the temporary slope breaker spacing in the FERC’s Plan with the Pennsylvania Department of Environmental Protection’s (PADEP) spacing. If Equitrans changes any part of the FERC’s Plan or Procedures language, even if the changes are more stringent than the FERC’s requirements, then Equitrans would be using its own project-specific Plan and/or Procedures and must request approval of these modifications.

Response:

Equitrans intends to use the Pennsylvania Department of Environmental Protection (PADEP) and West Virginia Department of Environmental Protection (WVDEP) spacing on temporary and permanent slope breakers and requests approval of these modifications. A revision to the FERC Plan and Procedures incorporating these modifications will be submitted as part of the Implementation Plan.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

Date: February 16, 2017

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General

2. Respond to the letter filed by Thomas Headley (accession number 20161223-5011) during the draft EIS comment period regarding the Headley Minor Route Variation and construction of the NIAP-S001 pipeline in the vicinity of the proposed H-318 pipeline.

Response:

The NIAP-S001 pipeline, a project owned by EQM Opco LLC (“EQM”), was turned in line November 2016. The original route for this gathering pipeline paralleled the current H-318 pipeline alignment; and the route of NIAP-S001 was relocated west to avoid Mr. Headley’s cropland. The comment above also asks Equitrans to consider paralleling the H-318 pipeline to the recently installed EQM pipeline.

Review of the topography shows that approximately 2,300 feet of this route deviation would be side hill construction of 25° relative to horizontal, meaning that construction would not occur perpendicular to the direction of slope. Side hill construction is associated with greater incidence of slope failure, and therefore should be avoided if other practical alternatives exist. The EQM pipeline right-of-way is along the eastern edge, and the higher side, of the parcels that make up this route deviation, and so a second pipeline would be installed downslope of the first. Greater incidence of slope failure occurs when a new pipeline is installed downslope of a recently restored right-of-way.

According to the construction management team that installed the EQM pipeline, ground water was present before, during, and after construction. Additional slip mitigation measures were required in order to safely install the pipeline on the side hill. Due to the presence of the existing EQM pipeline and the topography, constructability concerns arise as there is limited space to install the H-318 with adequate slip controls. Construction of the H-318 parallel to and downslope of the gathering pipeline may increase the likelihood of a slip and potentially impact both pipelines. The preferred method would be to install a new pipeline upslope of the existing pipeline which is not feasible due to the Headley Property line.

For the reasons described above, Equitrans maintains that the current H-318 pipeline alignment is preferable to the Headley Minor Route Deviation.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

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Water Resources

1. The number of waterbodies that would be crossed by the EEP in table 4.3.2-2 (Number of Waterbody Crossings for the Mountain Valley Project and the Equitrans Project – updated October 2016) does not match the number of waterbody crossings listed in revised Appendix F-2 (Waterbodies Crossed by the Equitrans Expansion Project - updated October 2016). For example, table 4.3.2-2 shows nine intermediate waterbody crossings, but Appendix F-2 shows eight. Revise the tables to show the correct number of waterbody crossings, by flow type, and FERC size classification.

Response:

Table 4.3.2-2 and Appendix F-2 are included as attachments to the Cline Route Variation update package and have been revised to match the number of crossings by flow type and FERC size classification. Refer to Exhibit A for updated tables and figures associated with adoption of the Cline Route Alternative.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

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Water Resources

2. Table 4.3.2-9 (FEMA 100-year Floodplains Crossed by the Mountain Valley Project and Equitrans Expansion Project – updated October 2016) shows the EEP would be located within 100-year floodplains at five different locations. Describe the project components that would be located within these floodplains, as well as the acreage that may be impacted at each location. Clarify if any aboveground facilities would be located within a floodplain and indicate any reduction in flood storage capacity that would occur.

Response:

Resource Report 2 Table 2.2-2 included the details requested in this comment. Table 2.2-2 has been revised to reflect the updated Project alignment in Exhibit B-1.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

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Water Resources

3. Clarify whether Equitrans has provided the location of all water wells, springs, and swallets within 150 feet of construction workspaces. Use publically available sources for areas that have not been surveyed. Provide a site-specific justification for any missing drinking water sources.

Response:

The location of all water wells, springs, and swallets within 150 feet of construction workspaces will be provided prior to construction as part of the Implementation Plan. Public sources are not available in Pennsylvania for water wells, springs, and swallets. The West Virginia Geologic Survey “Springs of West Virginia” publication and the USGS National Hydrography Dataset was searched, and no locations were found within a couple of miles of the Project area.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

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Wetlands

1. Equitrans' October 31, 2016 filing, Attachment C_DEIS Comments, suggests revising text relative to wetland impacts associated with the decommissioning of Pratt Compressor Station to state that "wetland W-AA5 will be protected with the use of BMPs." This is inconsistent with Appendix G-2 which shows both construction and operation impacts to W-AA5 (0.02 acres), as well additional construction and operation impacts to W-AA6 (0.06 acres) also associated with the Pratt Compressor Station. Resolve the apparent discrepancies, and update tables to reflect accurate acreages of impacts on wetlands at the compressor station.

Response:

Both wetlands W-AA5 and W-AA6 are located within the permanent workspace for the Pratt Compressor Station, and therefore the acres of disturbance are identified as permanent impacts as a result of being located within the workspace.

Appendix G-2, included as an attachment to the Cline Route Variation update package in Exhibit A, has been revised to correctly identify the impacts with "Temporary" and "Permanent" to replace construction and operation, and includes a footnote that reads:

"Impacts to wetlands associated with the Pratt Compressor Station are calculated as permanent impacts because they are located within the Pratt Station Permanent Impact Area; however, BMPs will be used to avoid impacts to these wetlands during construction and operation, if practicable."

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

Date: February 16, 2017

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Wetlands

2. Table 4.3.3-3 shows a total of 1.03 acres of construction impacts on wetlands and appendix G-2 shows approximately 1.16 acres. Resolve any discrepancies, and update tables to reflect accurate acreages of impacts on wetlands.

Response:

Wetlands impacts presented in Table 4.3.3-1 have been updated to reflect the Project including the Cline Route Variation and is included in Exhibit A as part of the Cline Route Variation update package. In addition, Table 4.3.3-1 was revised to present temporary and permanent acres of wetland disturbance with all facility features combined to eliminate double counting of disturbance acres resulting from overlapping features.

Table 4.3.3-3 and Appendix G-2 have also been updated to reflect the Project including the Cline Route Variation and are included in Exhibit A. Table 4.3.3-3 identifies total wetland area affected during construction and operation whereas Appendix G-2 identifies temporary and permanent acres of wetland disturbance. The total acres of impact reported in Table 4.3.3-3 and Appendix G-2 will not match because they represent different sets of calculations, i.e., temporary versus construction. In addition, FERC requested that Project facility types be presented separately in Appendix G-2; however, there are overlaps in disturbance areas for facilities, therefore the acreages identified in Appendix G-2 cannot be summed to give an accurate total for the overall Project. The total acres of wetlands impacts for the Project are provided in Table 4.3.3-1, which eliminates double counting associated with overlapping features.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

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Threatened and Endangered Species

1. Attachment H (filed October 31, 2016) indicates that the Pennsylvania Department of Conservation and Natural Resources (DCNR) recommends either avoidance or transplanting of the one population of nodding rattlesnakeroot and the two populations of golden-seal documented during rare plant surveys. However, DCNR's recommendations are voluntary. Therefore, clarify if Equitrans intends to relocate or transplant the populations of nodding rattlesnakeroot and goldenseal.

Response:

The population of nodding rattlesnakeroot would be avoided because it lies within the section of route abandoned after adoption of the Cline Route Variation. Equitrans does not intend to relocate or avoid either population of goldenseal.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

Date: February 16, 2017

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Soils

1. Revise table 4.2.1-2 (Soil Limitations along the Equitrans Expansion Project in Acres) and Appendices N-9 (Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres) and N-10 (Soils and Soil Limitation at the Equitrans Expansion Project Aboveground Facilities in Acres) filed October 31, 2016 to address:
 - a. errors found between the reported totals in table 4.2.1-2 and column totals from the appendices N-9 and N-10 for the H-316 pipeline (farmlands of statewide importance, soils prone to water erosion, soils prone to compaction, and poor revegetation), H-318 (Prime farmlands, farmlands of statewide importance, stony/rocky soils, soils prone to water erosion, compaction potential, poor revegetation), Redhook Compressor Station (prime farmlands, farmlands of statewide importance, compaction potential, poor revegetation), H-158/M-80 and Pratt Compressor Station (compaction potential, poor revegetation). Resolve the apparent discrepancies;
 - b. permanent and temporary acreage impacts for all facilities and soil limitations as presented in table 4.2.1-2 and Appendices N-9 and N-10;
 - c. new appendices that identify permanent and temporary impacts for access roads, yards, and ATWS (similar to DEIS Appendices N-1 through N-8). In addition provide a revised table 4.2.1-2 (similar to table DEIS 4.2.1-1) which includes summary impacts for each of these facilities; and
 - d. clarify that the updated route filed October 31, 2016 would not impact any soils that have a wind erodibility index of 1 or 2 as determined by the SSURGO.

Response:

- a. The reason that there are total acreage discrepancies of soil limitations between Table 4.2.1-2 and Appendices N-9 and N-10 is the way the SSURGO databases are mapped by the GIS software. Table 4.2.1-2, Appendix N-9, and Appendix N-10 have been included as attachments as part of the Cline Route Variation update package (Exhibit A). Milepost data only includes soils that hit, or touch the pipeline; not the outlying access roads, ATWS, yards, etc. Milepost data cannot be assigned to those features because they are not connected spatially. Table 4.2.1-2 and N-10 were revised to resolve the acreage differences for prime farmlands, farmlands of statewide importance, compaction potential, poor revegetation for the Pratt and Redhook Compressor Stations.
- b. The permanent and temporary acreage impacts for the facilities were prepared and submitted as separate tables in the June 2016 submittal. Inadvertently, these tables were not incorporated in the DEIS or October 2016 submittal. They are included in Exhibit A as

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part of the Cline Route Variation update package as new DEIS Appendices N-11, N-12, and N-13.

- c. Please see the response to comment b and Table 4.2.1-2, which was revised to be similar to Table 4.2.1-1.
- d. The SSURGO databases were rechecked and no soils listed have a wind erodibility index of 1 or 2.

Respondent: Stephanie Frazier
Position: Supervisor Permitting – Environmental, EQT Corporation
Phone Number: 412-553-5798
Date: February 16, 2017

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Land Use, Recreation and Aesthetics

1. In response to comments on the draft EIS (see accession number 20161221-5356), confirm that Equitrans has identified all specially-protected farms that would be affected by the EEP. Include farms designated as an agricultural security area or enrolled in the Pennsylvania Agricultural Land Preservation Program, as appropriate). Indicate any planned avoidance, minimization, and mitigation measures for these farms.

Response:

Equitrans has conducted an additional search of agricultural easements in the Pennsylvania Farmland Preservation Program website on the Pennsylvania Department of Agriculture, as well as the Farmland Preservation Program websites for the counties crossed by the EEP. Equitrans also reviewed public comments that were submitted for the DEIS of any landowners that mentioned agricultural easements or other protected agricultural lands. This publicly available data has led to an update of the information below. Equitrans also completed an additional review of the Natural Resources Conservation Service (NRCS) Agricultural Conservation Easement Program (ACEP) easements including contacting the U.S. Department of Agriculture (USDA) Middlebourne Service Center, which covers all of Wetzel County, West Virginia. Exhibit B-2 shows the record of the phone conversation on February 8, 2017, with Mr. Dustin Adkins, the District Conservationist of the Middlebourne Service Center. The results of the NRCS ACEP easements review showed that none would be crossed by the Project.

Since the release of the DEIS, Equitrans has been made aware of and identified four additional farms that are enrolled with conservation easements that are part of agricultural security areas and enrolled in the Pennsylvania Agricultural Land Preservation Program. The EEP would cross four farms along the H-318 pipeline route in Allegheny County, Pennsylvania enrolled in the Allegheny County Farmland Preservation Program, which are shown in Exhibit B-3. The Allegheny County Farmland Preservation Program is part of the Pennsylvania Agricultural Land Preservation Program, although it is administered at a county level. These four farms have agricultural easements, which are located within the Forward Township Agricultural Security Area in Allegheny County that was previously identified in the DEIS.

Temporary impacts to these specially-protected farms will occur during the construction of the H-318 pipeline; however, no permanent impacts are anticipated and Equitrans will restore any disturbance to these properties. Equitrans would implement BMPs contained in the FERC Upland Erosion Control, Revegetation, and Maintenance Plan covering right-of-way stabilization, sediment retention, segregation and stockpiling of topsoil, backfilling of trenches with segregated topsoil, and restoring to the original contours.

In the DEIS Section 4.8.1.3, one farm in Washington County, Pennsylvania is listed as being enrolled in the Pennsylvania Agricultural Land Preservation Program. This farm was incorrectly

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identified as being located in Washington County. According to the Washington County, Pennsylvania website under Farmland Preservation, no farms within Union Township are enrolled in the Pennsylvania Farmland Preservation Program. As the H-318 pipeline in Washington County is located entirely within Union Township, the H-318 does not cross any Farmland Preservation Program farms in Washington County. The farm identified in Washington County is actually one of the four farms identified in Allegheny County as having an agricultural easement.

Resources Used:

Allegheny Farmland maps:

<http://alcogis.maps.arcgis.com/apps/Viewer/index.html?appid=b0a16363affd4b1f8c4d5c90bed456db>

Allegheny County program overview:

<http://www.alleghenyfarmland.com/default.aspx?pageid=4>

PA statute: <http://www.pacode.com/secure/data/007/chapter138e/chap138etoc.html>

Greene County, PA Farmland Preservation Program:

<http://www.co.greene.pa.us/secured/gc2/depts/gccd/FarmlandPreservationPgm.htm>

Washington County, PA Farmland Preservation:

<http://www.co.washington.pa.us/index.aspx?NID=173>

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

Date: February 16, 2017

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Air Quality and Noise

1. Footnote 2 of Attachment C – table 9.1-7 (filed December 22, 2016) states “County is designated as nonattainment for portion of the county. This project will not be in the nonattainment portion(s) of this county.” The footnote is used on the PM10 standards, SO2 standards, and CO standards for Allegheny County maintenance areas. Clarify if footnote 2 should be updated to also include maintenance areas

Response:

See revisions to Table 9.1-7 in Exhibit B-4.

Respondent: Stephanie Frazier

Position: Supervisor Permitting – Environmental, EQT Corporation

Phone Number: 412-553-5798

Date: February 16, 2017

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Reliability and Safety

1. In response to comments on the draft EIS, discuss how Equitrans would determine compensation for affected parties should an incident occur.

Response:

Parties affected by an incident would be compensated for the amount of the loss, a governed by common law or statute. Equitrans has insurance for covered losses, both personal injury or property damage, caused by its operations.

Respondent: James Sabol
Position: Project Manager
Phone Number: 412-395-3597
Date: February 16, 2017

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Reliability and Safety

2. We received a comment that the remote signal to close a mainline block valve (MLV) in the event of an incident would not work if the local area was experiencing a power outage or interruption of cellular service. Provide a discussion of the necessary power and cellular system including backup systems both in the area of the MLV and in the area of the remote control center.

Response:

All MLVs associated with the Equitrans Expansion Project are located at existing or proposed compressor stations. Therefore, the MLVs will have redundant power and telecommunications as built into the standard design of Equitrans' compressor stations.

Typically, primary power is delivered via Capstone generators with mainline utility power serving as back up. Similarly, primary telecommunications are supplied by a telecommunications company with cellular communications acting as back up.

Equitrans has a primary gas control center and a fully-functional redundant backup gas control center located at a remote facility. Both gas control centers have similar primary and back-up power and telecommunications systems in-place.

Respondent: James Sabol
Position: Project Manager
Phone Number: 412-395-3597
Date: February 16, 2017

Exhibit A

DEIS Tables, Figures and Appendices Updated for the Cline Route Variation

Table 2.1-4	Pipeline Facilities for the Equitrans Expansion Project
Table 2.3-1	Land Requirements Associated with the Mountain Valley Project and the Equitrans Expansion Project
Table 4.1.1-2	Elevations at Equitrans Expansion Project Facilities
Table 4.1.1-4	Bedrock Geology Crossed by the Equitrans Expansion Project
Table 4.1.1-6	Closed Coal Mines Crossed and Within 0.25 Mile of the Equitrans Expansion Project
Table 4.1.1-12	Steep Slopes crossed by the Equitrans Expansion Project
Table 4.2.1-2	Soil Limitations along the Equitrans Expansion Project in Acres
Table 4.3.2-1	Watersheds Crossed by the MVP and EEP
Table 4.3.2-2	Number of Waterbody Crossings for the MVP and the EEP
Table 4.3.3-1	Wetland Impacts Associated with the MVP and EEP
Table 4.3.3-3	Equitrans Expansion Project Wetland Impacts
Table 4.4.1-1	Upland Vegetation Cover Types Crossed by the MVP and the EEP
Table 4.4.2-1	Vegetation Communities Affected by Construction and Operation of the MVP and the EEP
Table 4.8.1-1	Land Use Types Affected by Construction and Operation of the MVP and the EEP
Table 4.8.1-4	Land Use Types Affected by Construction and Operation of the Equitrans Expansion Project Pipeline Facilities
Appendix D-2	Proposed Additional Temporary Workspaces for the Equitrans Expansion Project
Appendix D-4	Additional Temporary Workspace within 50 Feet of Wetlands and Waterbodies for the Equitrans Expansion Project
Appendix E-2	Access Roads for the Equitrans Expansion Project
Appendix F-2	Waterbodies Crossed by the Equitrans Expansion Project
Appendix G-2	Wetlands Crossed by the Equitrans Expansion Project
Appendix J-2	Gas and Oil Wells within 0.25 Mile of the Equitrans Expansion Project
Appendix N-9	Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres
Appendix N-10	Soils and Soil Limitation at the Equitrans Expansion Project Aboveground Facilities in Acres
Appendix N-11	Soils and Soil Limitations at the Equitrans Expansion Project Additional Temporary Workspaces in Acres
Appendix N-12	Soils and Soil Limitations at the Equitrans Expansion Project Access Roads in Acres
Appendix N-13	Soils and Soil Limitations at the Equitrans Expansion Project Contractor Yards and Staging Areas in Acres
Appendix Q-2	Public Roadways and Railroads Crossed by the Equitrans Expansion Project

DEIS TABLE 2.1-4 (Updated for EEP Cline Route Variation) Pipeline Facilities for the Equitrans Expansion Project				
State/Pipeline Segment	County	MP Range	Pipeline Diameter (inches)	Length (miles)
Pennsylvania				
H-318	Allegheny	0.0 – 3.0 0.0-2.55	20	3.0 2.6
H-318	Washington	3.0 – 4.3 2.55-3.77	20	4.3 1.2
H-316	Greene	0.0 – 3.0	30	3.0
H-158	Greene	0.0 – 0.2	12	0.2
M-80	Greene	0.0 – 0.2	6	0.2
H-305	Greene	0.0 – 0.1	24	0.1
<i>Pennsylvania (subtotal)</i>				7.8 7.3
West Virginia				
H-319	Wetzel	0.0 – <0.1	16	<0.1
<i>West Virginia (subtotal)</i>				<0.1
Equitrans Expansion Project Total				7.9 7.4
Note: Totals may not sum correctly due to rounding.				

DEIS TABLE 2.3-1 (Updated for EEP Cline Route Variation) Land Requirements Associated with the Mountain Valley Project and the Equitrans Expansion Project		
Project Component/State	Land Affected During Construction (acres)	Land Affected During Operation (acres)
PIPELINE FACILITIES		
West Virginia		
Pipeline Right-of-Way (MVP)	2,896.8	1,184.5
ATWS (MVP)	503.9	0.0
Pipeline Right-of-Way (EEP)	0.7	0.4
ATWS (EEP)	2.3	0.0
Virginia		
Pipeline Right-of-Way (MVP t)	1,551.1	639.5
ATWS (MVP)	230.1	0.0
Pennsylvania		
Pipeline Right-of-Way (EEP)	93.7 987.98	47.4 44.45
ATWS (EEP)	57.9 956.45	0.0
<i>Subtotal Pipeline Facilities – MVP</i>	5,181.9	1,824.0
<i>Subtotal Pipeline Facilities - EEP</i>	151.6 147.43	47.8 44.85
<i>Combined MVP and EEP Pipeline Facilities Total</i>	5,334	1,870
ABOVEGROUND FACILITIES		
West Virginia		
Mobley Interconnect (MVP)	5.0	0.8
Bradshaw Compressor Station (MVP)	24.0	5.8
Sherwood Interconnect (MVP)	7.1	2.0
Harris Compressor Station (MVP)	21.1	4.4
WB Interconnect (MVP t)	6.2	1.2
Stallworth Compressor Station (MVP)	24.7	5.7
Webster Interconnect (EEP)	0.8	0.8
Mobley Tap (EEP)	0.4	0.2
H-306 Tap (EEP)	<0.1	<0.1
H-148 Tap (EEP)	<0.1	<0.1
Virginia		
Transco Interconnect (MVP)	6.2	2.4
Pennsylvania		
Redhook Compressor Station (EEP)	17.2	8.8
Pratt Compressor Station Decommissioning (EEP)	7.5	7.5
Applegate Pig Launcher/Receiver (EEP)	0.4	0.4
Hartson Pig Launcher/Receiver (EEP)	0.1	0.1
H-302 Tap & Pig Launcher/Receiver (EEP)	0.1	0.1
<i>Subtotal Aboveground Facilities – MVP</i>	94.2	22.4
<i>Subtotal Aboveground Facilities - EEP</i>	26.5	18

DEIS TABLE 2.3-1 (Updated for EEP Cline Route Variation) Land Requirements Associated with the Mountain Valley Project and the Equitrans Expansion Project		
Project Component/State	Land Affected During Construction (acres)	Land Affected During Operation (acres)
Combined MVP and EEP Aboveground Facilities Total		
YARDS		
West Virginia (MVP)	109.1	0.0
West Virginia (EEP)	0.3	0.0
Virginia (MVP)	37.8	0.0
Pennsylvania (EEP)	11.4	0.0
<i>Subtotal Yards – MVP</i>	147.0	0.0
<i>Subtotal Yards - EEP</i>	11.67	0.0
Combined MVP and EEP Yards Total	158.6	0.0
ACCESS ROADS		
West Virginia (MVP)	648.5	175.3
West Virginia (EEP)	0.1	0.1
Virginia (MVP)	234.6	71.8
Pennsylvania (EEP)	40.5 10.2	5.1 2
<i>Subtotal Access Roads – MVP</i>	883.1	247.1
<i>Subtotal Access Roads - EEP</i>	10.63	5.230
Combined MVP and EEP Access Roads Total	891.5	249.1
CATHODIC PROTECTION BEDS		
West Virginia (MVP)	12.0	6.2
West Virginia (EEP)	0.0	0.0
Virginia (MVP)	7.0	3.6
Pennsylvania (EEP)	1.1	1.1
<i>Subtotal Cathodic Protection Beds – MVP</i>	19.0	9.8
<i>Subtotal Cathodic Protection Beds - EEP</i>	1.1	1.1
Combined MVP and EEP Cathodic Protection Beds Total	20.0	10.8
MVP Totals	6,325.1	2,103.2
EEP Totals	201.4 3196.93	72.4 69.05
COMBINED TOTALS FOR BOTH PROJECTS	6,524.4	2,178.9
Note: The totals shown in this table are rounded.		
Note: Land Requirements associated with the Jefferson National Forest crossing are provided in section 4.8.1.		

DEIS TABLE 4.1.1-2 (Updated for EEP Cline Route Variation) Elevations at Equitrans Expansion Project Facilities		
Facility	Minimum (feet amsl)	Maximum (feet amsl)
H-158/M-80	920	1,051
H-305	1,064	1,146
H-316	876	1,135
H-318	728	1,238
H-319	893	896
Pratt Compressor Station	895	950
Redhook Compressor Station	1,035	1,077
Webster Interconnect	895	933
H-306 Tap Site	893	894
Mobley Tap	932	936
Applegate L/R Site	1,408	1,412
H-148 Tap Site/Hartson L/R Site	1,056	1,078
H-302 Tap L/R Site	1,424	1,444
Source: USGS, 2016a amsl = above mean sea level		

DEIS TABLE 4.1.1-6 (Updated for EEP Cline Route Variation)					
Closed Coal Mines Crossed and Within 0.25 Mile of the Equitrans Expansion Project					
County	Feature	MP <u>a/</u>	Name <u>b/</u>	Type	Status
Greene	H-316	1.0 – 1.2	Gateway Mine	Underground Mine	Closed
Greene	H-316	1.3 – 3.0	Mather Mine	Underground Mine	Closed
Greene	H-302 Tap Site	3.0	Mather Mine	Underground Mine	Closed
Greene	H-316 ATWS 05	1.5	Mather Mine	Underground Mine	Closed
Greene	H-316 ATWS 06	2.1	Mather Mine	Underground Mine	Closed
Greene	H-316 ATWS 07	2.8	Mather Mine	Underground Mine	Closed
Greene	H-316 Access Road ROW 05A/B	1.5	Mather Mine	Underground Mine	Closed
Greene	H-316 Access Road ROW 06A/B	2.1	Mather Mine	Underground Mine	Closed
Greene	H-316 Access Road ROW 07A/B	2.8	Mather Mine	Underground Mine	Closed
Allegheny	H-318	0.0 – <0.1	Redstone No. 1 Mine	Underground Mine	Closed
Allegheny	H-318	0.0	Wright Mine	Underground Mine	Closed
Allegheny	H-318	N/A	Howe Mine	Underground Mine	Closed
Allegheny	H-318	0.1 – 0.2	Redstone No. 2 Mine	Underground Mine	Closed
Allegheny	H-318	0.4 – 4.00.8	Williams Mine	Underground Mine	Closed
Allegheny	H-318	0.4 – 1.0	Monagh Mine	Underground Mine	Closed
Allegheny	H-318	N/A 0.9	S.B. Tressler Pit	Underground Mine	Closed
Allegheny	H-318	0.84.5 – 1.73	Abandoned Mine Land 3808	Surface Mine	Closed
Allegheny	H-318	1.3 258 – 1.9	Abandoned Mine Land 0129-02	Surface Mine	Reclaimed
Allegheny	H-318	0.4 – 2.741.1 – 2.2	Mongah Mine	Underground Mine	Closed
Allegheny	H-318	N/A 2.1	GW Peterson No.1 Pit	N/A	N/A
Allegheny	H-318	2.41.9 – 2.37	Abandoned Mine Land 3808	Surface Mine	Closed
Allegheny	H-318	2.4 – 2.71.253 - 1.9	Abandoned Mine Land 04293808	Surface Mine	Closed

DEIS TABLE 4.1.1-6 (Updated for EEP Cline Route Variation)					
Closed Coal Mines Crossed and Within 0.25 Mile of the Equitrans Expansion Project					
County	Feature	MP <u>a/</u>	Name <u>b/</u>	Type	Status
Washington	H-318	3.2 3.32.7-2.8	Unknown Mine	Underground Mine	Closed
Washington	H-318	3.2 3.32.7-2.8	Pitt Mine	Underground Mine	Closed
Washington	H-318	3.6 4.23.1-3.8	Coal Bluff	Underground Mine	Closed
Washington	H-318	N/A 3.8	Banner	Underground Mine	Closed
Washington	H-318	N/A 3.8	Cliff Mine	Underground Mine	Closed
Allegheny	Applegate L/R Site	0.0	Redstone No. 1 Mine	Underground Mine	Closed
Washington	Hartson L/R Site & H-148 Tap Site	4.3	Coal Bluff	Underground Mine	Closed
Allegheny	H-318 ATWS 1A-D	0.4 – 0.8	Williams Mine	Underground Mine	Closed
Allegheny	H-318 ATWS 1A-D	0.4 – 0.8	Mongah Mine	Underground Mine	Closed
Allegheny	H-318 ATWS 2A/B, E/F	1.6 – 1.8	Sylvia	Underground Mine	Closed
Allegheny	H-318 ATWS 2A/B, E/F	1.6 – 1.8	Mongah Mine	Underground Mine	Closed
Allegheny	H-318 ATWS 3	1.9	Mongah Mine	Underground Mine	Closed
Allegheny	H-318 ATWS 4A/B	2.0 – 2.3	Mongah Mine	Underground Mine	Closed
Washington	H-318 ATWS 6B/C/D, 7, 8	3.5 – 4.3	Coal Bluff	Underground Mine	Closed
Allegheny	H-318 Access Road 01	0.0	Redstone No. 1 Mine	Underground Mine	Closed
Allegheny	H-318 Access Road 01	0.0	Wright Mine	Underground Mine	Closed
Allegheny	H-318 Access Road 02	0.7	Williams Mine	Underground Mine	Closed
Allegheny	H-318 Access Road 02	0.7	Mongah Mine	Underground Mine	Closed
Allegheny	H-318 Access Road 03	1.0	Mongah Mine	Underground Mine	Closed
Allegheny	H-318 Access Road 04A/B	1.9 2	Mongah Mine	Underground Mine	Closed
Washington	H-318 Access Road 06	3.6	Coal Bluff	Underground Mine	Closed
Washington	H-318 Access Road 08	4.2	Coal Bluff	Underground Mine	Closed

DEIS TABLE 4.1.1-6 (Updated for EEP Cline Route Variation)					
Closed Coal Mines Crossed and Within 0.25 Mile of the Equitrans Expansion Project					
County	Feature	MP <u>a/</u>	Name <u>b/</u>	Type	Status
Sources: PADEP, 2015b; 2015c; WVDEP, 2016a; 2016b					
<u>a/</u> Presents the approximate milepost range crossing the identified mine or single milepost in proximity to the mine if not crossed					
<u>b/</u> Mines are listed multiple times due to being in proximity or crossed by the pipeline and other associated facilities.					
N/A – Not available; ROW – right-of-way					

DEIS TABLE 4.1.1-12 (Updated for EEP Cline Route Variation)		
Steep Slopes crossed by the Equitrans Expansion Project		
Component	15-30% Slope (miles)	Slope Greater than 30% (miles)
H-158	0.1	0.0
M80	0.1	0.0
H-316	1.5	0.2
H-318	4.6 1.2	0.2 0.1
H-305	0.1	0.0
H-319	0.0	0.0
Source: USGS, 2015a		

DEIS TABLE 4.2.1-2
(Updated for EEP Cline Route Variation)

Soil Limitations along the Equitrans Expansion Project in Acres a/

Facility <u>b/</u>	Water Erosion Potential <u>c/</u>		Wind Erosion Potential <u>d/</u>		Prime Farmland <u>e/</u>		Farmland of Statewide Importance <u>e/</u>		Hydric Soils <u>e/</u>		Compaction Potential <u>f/</u>		Stony / Rocky Soils <u>e/</u>		Revegetation Potential <u>g/</u>		Poor Drainage Potential <u>e/</u>	
	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp
H-305 Pipeline	0.56	0.46	0	0	0	0	0.55	0.46	0	0	0.56	1.67	0	0	0.61	1.85	0	0
H-316 Pipeline	10.87	19.90	0	0	2.76	5.15	3.76	7.25	0.26	0.32	9.72	11.57	0.34	0.57	18.20	32.80	0.26	0.32
H-318 Pipeline	16.62	43.82	0	0	4.67	7.31	6.22	17.67	0.26	0.26	15.62	36.27	2.89	1.73	19.14	49.21	0.26	0.26
H-319 Pipeline	0	0	0	0	0	0	0.29	0.53	0	0	0	0	0.29	0.53	0	0	0	0
H-158/M-80 Pipelines	1.73	2.87	0	0	0.69	0.76	0.38	1.58	0	0	0.79	4.18	0	0	2.30	4.72	0	0
Pratt Compressor Station	1.45	0	0	0	5.95	0	0.08	0	0	0	6.04	0	0	0	1.53	0	0	0
Redhook Compressor Station	24.88	0	0	0	15.26	0	7.89	0.92	0	0	17.65	0	0	0	11.00	1.50	0	0
Webster Interconnect	0	0.02	0	0	0	0	0.82	1.26	0	0	0	0	0.82	1.28	0	0.02	0	0
Mobley Tap Site (H-306)	0	0	0	0	0	0	0.72	1.14	0	0	0	0	0.72	1.14	0	0	0	0
Applegate L/R Site	0.40	0	0	0	0.40	0	0	0	0	0	0.40	0	0	0	0.40	0	0	0
Hartson L/R Site (H-148)	0.08	0	0	0	0	0	0	0	0	0	0.08	0	0	0	0.09	0	0	0
H-302 Tap L/R Site	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0
Subtotal	56.59	67.07	0	0	29.73	13.22	20.71	30.81	0.52	0.58	50.86	53.69	5.06	5.25	53.38	90.10	0.52	0.58
Total Acres	123.66		0		42.95		51.52		1.1		104.55		10.31		143.48		1.1	

Source: USDA, 2015a; 2015b

Note: The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding

a/ The soil limitation impacts presented are the total impacts due to construction and operation of the EEP.

b/ The list of facilities includes the associated access roads, additional temporary workspaces, yards, and staging areas in the acreage calculations for each facility.

c/ Based on K factor for the whole soil (Kw), the representative slope, and the non-irrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Non-irrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

d/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

e/ As designated by the NRCS.

f/ Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

g/ Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Non-irrigated Capability Class of 3 or higher).

DEIS TABLE 4.3.2-1 (Updated for EEP Cline Route Variation)			
Watersheds Crossed by the Mountain Valley Project and Equitrans Expansion Project			
State	Sub-basin (8-digit HUC) <u>a/</u>	Start MP	End MP
Mountain Valley Project			
West Virginia	Little Muskingum-Middle Island (05030201)	0.0	9.3
		31.6	32.7
		34.0	37.5
West Virginia	West Fork (05020002)	9.4	31.5
		32.8	33.9
		37.6	43.4
		45.5	47.4
		48.5	50.0
West Virginia	Little Kanawha (05030203)	43.5	45.4
		47.5	48.4
		50.1	78.4
West Virginia	Elk (05050007)	78.5	104.9
		105.6	107.3
West Virginia	Gauley (05050005)	105.0	105.5
		107.4	158.3
		158.8	158.8
		159.1	159.4
		159.7	159.9
		160.1	160.4
		160.7	160.9
West Virginia	Lower New (05050004)	161.1	161.2
		156.8	156.8
		158.4	158.7
		158.9	159.0
		159.5	159.6
		160.0	160.0
		160.5	160.6
		161.0	161.0
		161.3	163.3
		163.5	163.6
West Virginia	Greenbrier (05050003)	163.9	164.0
		164.4	164.4
		163.4	163.4
		163.7	163.8
		164.1	164.3
		164.5	173.4
		173.5	179.1
		179.3	179.4
		179.6	179.8
		180.2	180.2
West Virginia	Middle New (05050002)	179.2	179.2
		179.5	179.5
		179.9	180.1
		180.3	195.4

DEIS TABLE 4.3.2-1 (Updated for EEP Cline Route Variation)			
Watersheds Crossed by the Mountain Valley Project and Equitrans Expansion Project			
State	Sub-basin (8-digit HUC) <u>a/</u>	Start MP	End MP
Virginia	Middle New (05050002)	195.5	217.1
Virginia	Upper James (02080201)	217.2	219.4
Virginia	Upper Roanoke (03010101)	219.5	290.5
Virginia	Banister (03010105)	290.6	300.8
Equitrans Expansion Project			
Pennsylvania	Lower Monongahela (05020005)	H-305 0.0	H-305 0.1
		H-318 0.0	H-318 3.774 3
		H-316 0.0	H-316 3.0
		H-158/M80 0.0	H-158/M80 0.2
West Virginia	Little Muskingum-Middle Island (05030201)	H-319 0.0	H-319 <0.1
Source: USGS, 2015			
a/ Hydrologic Unit Code (HUC) is a classification system developed by the USGS to classify drainage basins from the regional level to individual watersheds.			

DEIS TABLE 4.3.2-2
(Updated for EEP Cline Route Variation)

**Number of Waterbody Crossings for the Mountain Valley Project
and the Equitrans Expansion Project a/**

Project/State	FERC Size Classification				Flow Type			
	Minor	Intermediate	Major	Total	Perennial	Intermittent	Ephemeral	Total
Mountain Valley Project								
West Virginia	595 59 4	112 117	4	71 15	222 19	273 9	2220	715 4
Virginia	325 32 6	72 75	0	401 39 7	176 9	120 2	105	4013 97
<i>Subtotal</i>	920	184 192	4	1108 1 116	389 398	393 2	325 7	1108 1116
Equitrans Expansion Project								
West Virginia	2	2	0	4	3	1	0	4
Pennsylvania	23 25	7 8	1	34 34	13 15	8	10 11	34 34
<i>Subtotal</i>	25 27	9 10	1	35 38	16 18	9	10 11	35 38
Total	806 94 7	240 2	5	1,024 154	377 416	319 402	325 336	1,024 154
<u>a/</u>	Some waterbodies would be crossed at more than one location. This table accounts for each crossing of all affected waterbodies.							

TABLE 4.3.3-1
(Updated for EEP Cline Route Variation)

Wetland Impacts Associated with the Mountain Valley Project and Equitrans Expansion Project

Type/State <u>a/</u>	Temporary (acres) <u>b/</u>	Permanent (acres) <u>b/</u>
PEM Wetlands		
West Virginia	18.92	0.70
Virginia	4.31	0.10
Pennsylvania	0.25	0.66
<i>Total PEM Wetland Impacts</i>	<i>23.47</i>	<i>1.46</i>
PSS Wetlands		
West Virginia	0	0.58
Virginia	0	1.94
Pennsylvania	0	0
<i>Total PSS Wetland Impacts</i>	<i>0</i>	<i>2.52</i>
PFO Wetlands		
West Virginia	0	2.58
Virginia	0	2.01
Pennsylvania	0	0.03
<i>Total PFO Wetland Impacts</i>	<i>0</i>	<i>4.62</i>
<i>Total Wetland Impacts</i>	<i>23.47</i>	<i>9.238.60</i>
<u>a/</u> PEM = Palustrine Emergent; PSS = Palustrine Scrub-Shrub; PFO = Palustrine Forested (Cowardin et al., 1979).		
<u>b/</u> Temporary impacts include those within the permanent (operational) footprint. Permanent acres include those areas disturbed during construction.		

DEIS TABLE 4.3.3-3 (Updated for EEP Cline Route Variation) Equitrans Expansion Project Wetland Impacts				
Facility	Type <u>a/</u>	Crossing Length (feet) <u>b/</u>	Total Wetland Area Affected During Construction (acres) <u>c</u> <u>b/</u> , <u>e/</u>	Total Wetland Area Affected During Operation (acres) <u>e/</u>
Pennsylvania				
Pipeline Facilities <u>d/</u>	PEM	465.9500.1	0.8386	0.57663
	PSS	N/A	0.00	0.00
	PFO	0	0.03	0.03
<i>Pipeline Facilities Subtotal</i>		465.9510.1	0.858	0. 6066
Aboveground Facilities	PEM	N/A	0.0008	0.08
	PSS	N/A	0.00	0.00
	PFO	N/A	0.00	0.00
<i>Aboveground Facilities Subtotal</i>		N/A	0.0008	0.08
Access Roads	PEM	N/A	<0.01	<0.01
	PSS	N/A	0.00	0.00
	PFO	N/A	0.00	0.00
<i>Access Roads Subtotal</i>		N/A	<0.01	<0.01
Yards	PEM	N/A	<0.01	0.00N/A
	PSS	N/A	0.00	0.00N/A
	PFO	N/A	0.00	0.00N/A
<i>Yards Subtotal</i>		N/A	<0.01	0.00N/A
<i>Pennsylvania Total</i>		465.9510.1	0.8594	0.6875
West Virginia				
Pipeline Facilities <u>d/</u>	PEM	39.1	0.06	0.04
	PSS	N/A	0.00	0.00
	PFO	N/A	0.00	0.00
<i>Pipeline Facilities Subtotal</i>		39.1	0.06	0.04
Aboveground Facilities	PEM	N/A	0.00	0.00
	PSS	N/A	0.00	0.00
	PFO	N/A	0.00	0.00
<i>Aboveground Facilities Subtotal</i>		N/A	0.00	0.00
Access Roads	PEM	N/A	0.00	0.00
	PSS	N/A	0.00	0.00
	PFO	N/A	0.00	0.00
<i>Access Roads Subtotal</i>		N/A	0.00	0.00
Yards	PEM	N/A	0.09	0.00N/A
	PSS	N/A	0.00	0.00N/A
	PFO	N/A	0.00	0.00N/A
<i>Yards Subtotal</i>		N/A	0.09	0.00N/A

DEIS TABLE 4.3.3-3 (Updated for EEP Cline Route Variation) Equitrans Expansion Project Wetland Impacts				
Facility	Type <u>a/</u>	Crossing Length (feet) <u>b/</u>	Total Wetland Area Affected During Construction (acres) <u>cb/</u> , <u>e/</u>	Total Wetland Area Affected During Operation (acres) <u>e/</u>
<i>West Virginia Subtotal</i>		39.1	0.15	0.04
EEP Total		504.9539.2	1.0901.03	0.721.410.78
<u>a/</u> PEM = Palustrine Emergent; PSS = Palustrine Scrub-Shrub; PFO = Palustrine Forested (Cowardin et al., 1979). <u>b/</u> N/A = wetlands not crossed by the centerline but within the construction workspace. <u>cb/</u> Construction impacts include those within the operational footprint, as well as those within temporary workspaces. <u>d/</u> Pipeline facilities include the permanent right-of-way, temporary workspace, and additional temporary workspace. <u>e/</u> Acres of impacts have been separated out for each facility type, however there are overlaps in disturbance areas for facilities, therefore the acres identified cannot be summed up for an accurate total for the overall project due to overlapping disturbance areas. The total acres of impacts for the project are identified in Table 4.3.3-1				

DEIS TABLE 4.4.1-1
(Updated for EEP Cline Route Variation)

Upland Vegetation Cover Types Crossed by the Mountain Valley Project and the Equitrans Expansion Project

Cover Type	Common Vegetation Species	Miles Crossed	
		MVP	EEP
Deciduous Forest	northern red oak (<i>Quercus rubra</i>), chestnut oak (<i>Q. montana</i>), white oak (<i>Q. alba</i>), black oak (<i>Q. velutina</i>), scarlet oak (<i>Q. coccinea</i>), southern red oak (<i>Q. falcata</i>), post oak (<i>Q. stellata</i>), red maple (<i>Acer rubrum</i>), sugar maple (<i>Acer saccharum</i>), yellow buckeye (<i>Aesculus flava</i>), American beech (<i>Fagus grandifolia</i>), yellow-poplar (<i>Liriodendron tulipifera</i>), mockernut hickory (<i>Carya tomentosa</i>), shagbark hickory (<i>C. ovata</i>), white ash (<i>Fraxinus americana</i>), basswood (<i>Tilia americana</i>), buckeye (<i>Aesculus glabra</i>), birches (<i>Betula spp.</i>), American elm (<i>Ulmus americana</i>), eastern hop-hornbeam (<i>Ostrya virginiana</i>), spruce (<i>Picea spp.</i>), hemlock (<i>Tsuga canadensis</i>), shortleaf pine (<i>Pinus echinata</i>), and loblolly pine (<i>P. taeda</i>).	234.0	3.58
Coniferous Forest	mountain pine (<i>Pinus pungens</i>), pitch pine (<i>Pinus rigida</i>), shortleaf pine, Virginia pine (<i>Pinus virginiana</i>), red pine (<i>Pinus resinosa</i>), and white pine (<i>Pinus strobus</i>).	8.0	0.0
Mixed Forest	a mix of the above listed deciduous and coniferous tree species.	3.0	0.0
Scrub-Shrub Land	mountain laurel (<i>Kalmia latifolia</i>), fetterbush (<i>Pieris floribunda</i>), rhododendron (<i>Rhododendron spp.</i>), blueberry (<i>Vaccinium spp.</i>), huckleberry (<i>Gaylussacia spp.</i>), autumn olive (<i>Elaeagnus umbellata</i>), hornbeam (<i>Carpinus caroliniana</i>), eastern hop-hornbeam, witch hazel (<i>Hamamelis virginiana</i>), balsam fir (<i>Abies balsamea</i>), dogwood (<i>Cornus spp.</i>), and spicebush (<i>Lindera benzoin</i>).	0.3	0.0
Herbaceous Grasslands	Includes natural to semi-natural areas of open grassland. orchard grass (<i>Dactylis glomerata</i>), poverty grass (<i>Danthonia spicata</i>), common hairgrass (<i>Deschampsia flexuosa</i>), red fescue (<i>Festuca rubra</i>), common velvet grass (<i>Holcus lanatus</i>), Japanese stiltgrass (<i>Microstegium vimineum</i>), Kentucky blue grass (<i>Poa pratensis</i>), meadow false rye grass (<i>Schedonorus pratensis</i>), little bluestem (<i>Schizachyrium scoparium</i>), white clover (<i>Trifolium repens</i>), wingstem (<i>Verbesina alternifolia</i>), giant ironweed (<i>Veronia gigantea</i>), and reed canary grass (<i>Phalaris arundinacea</i>).	3.6	<0.12
Palustrine Forested Wetland	black willow (<i>Salix nigra</i>), black elderberry (<i>Sambucus canadensis</i>), red maple, green ash (<i>Fraxinus pennsylvanica</i>), ironwood (<i>Carpinus carolinia</i>), yellow birch (<i>Betula alleghaniensis</i>), and American elm	0.3	<0.1
Palustrine Scrub Shrub Wetland	black willow, black elderberry, green ash, spicebush, silky dogwood (<i>Cornus amomum</i>), sedge (<i>Cyperaceae spp.</i>), false nettle (<i>Boehmeria cylindrica</i>), sensitive fern (<i>Onoclea sensibilis</i>), soft rush (<i>Juncus effusus</i>), Japanese stiltgrass, jewelweed (<i>Impatiens capensis</i>), and golden ragwort (<i>Packera aurea</i>).	<0.1	<0.1
Palustrine Emergent Wetland	jewelweed, Japanese stiltgrass, soft rush, dark green bulrush (<i>Scirpus atrovirens</i>), false nettle, sensitive fern, wingstem, woolgrass (<i>Scirpus cyperinus</i>), reed canary grass, and various rushes (<i>Juncus spp.</i>) and sedges.	1.1	0.1

DEIS TABLE 4.4.2-1
(Updated for EEP Cline Route Variation)

**Vegetation Communities Affected by Construction and Operation of the
Mountain Valley Project and the Equitrans Expansion Project**

Project/ State/ Component	Upland Forest		Upland Scrub-Shrub		Upland Herbaceous		Wetland (forested, scrub- shrub, emergent) <u>b/</u>		Total	
	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)
MVP										
West Virginia										
Pipeline right-of-way	2,595.1	1,054.7	0.6	0.3	28.7	11.6	0.5	0.3	2,624.9	1,066.9
ATWS	309.5	0.0	0.2	0.0	5.0	0.0	0.4	0.0	315.1	0.0
Aboveground Facilities	79.9	17.6	0.0	0.0	0.0	0.0	0.0	0.0	79.8	17.6
Access Roads	495.3	128.4	1.4	0.5	13.6	4.5	0.5	0.3	510.9	133.6
Yards	20.7	0.0	0.0	0.0	1.1	0.0	0.0	0.0	21.7	0.0
Cathodic Protection	5.0	2.7	0.0	0.0	3.9	2.1	0.0	0.0	8.9	4.8
West Virginia Subtotal	3,505.6	1,203.4	2.3	0.7	52.3	18.2	1.3	0.5	3,561.4	1,222.9
Virginia										
Pipeline right-of-way	1,050.4	431.8	5.4	1.6	24.4	10.4	0.3	0.0	1,080.6	443.7
ATWS	63.2	0.0	0.3	0.0	3.7	0.0	0.0	0.0	67.1	0.0
Aboveground Facilities	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.4
Access Roads	152.5	51.4	0.1	0.1	2.1	0.4	0.0	0.0	154.6	51.8
Yards	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
Cathodic Protection	0.3	0.2	0.0	0.0	1.5	0.8	0.0	0.0	1.8	1.0
Virginia Subtotal	1,274.6	485.8	5.9	1.6	31.7	11.6	0.3	0.0	1,312.4	499.0
MVP Subtotal	4,780.2	1,689.2	8.1	2.3	83.9	29.9	1.6	0.6	4,874.1	1,721.8
EEP										
West Virginia										
Pipeline right-of-way	0.3	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.2
ATWS	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Aboveground Facilities	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
Access Roads	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Yards	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0

DEIS TABLE 4.4.2-1
(Updated for EEP Cline Route Variation)

Vegetation Communities Affected by Construction and Operation of the Mountain Valley Project and the Equitrans Expansion Project

Project/ State/ Component	Upland Forest		Upland Scrub-Shrub		Upland Herbaceous		Wetland (forested, scrub- shrub, emergent) <u>b/</u>		Total	
	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)	Const (acres)	Oper (acres)
Cathodic Protection)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Virginia Subtotal	1.8	0.4	0.0	0.0	0.0	0.0	0.1	0.0	1.9	0.5
Pennsylvania										
Pipeline right-of-way	40.21.6	22.221.3	0.0	0.0	0.52.3	1.10.3	0.90.8	0.70.6	44.741.6	24.022.2
ATWS	20.36	0.0	0.0	0.0	0.0<0.1	0.0	0.0<0.1	0.0	26.120.4	0.0
Aboveground Facilities	4.9	3.2	0.0	0.0	0.2	0.2	0.1	0.1	5.2	3.5
Access Roads	5.1	3.65	0.0	0.0	0.1	0.0	0.0	0.0	5.2	3.65
Yards	1.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	0.0
Cathodic Protection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pennsylvania Subtotal	72.03.7	28.19	0.0	0.0	2.71.0	1.40.5	1.0	0.7	74.082.8	31.029.3
EEP Subtotal	75.573.8	29.328.5	0.0	0.0	2.71.0	1.41.0	1.1	0.80.7	84.775.9	31.529.8
West Virginia Impacts	3,506.9	1,203.9	2.3	0.7	52.3	18.2	1.5	0.6	3,562.7	1223.4
Virginia Impacts	1,276.8	485.5	5.9	1.6	30.2	10.8	0.3	0.0	1,320.6	501.7
Pennsylvania Impacts	72.07	28.17.9	0.0	0.0	1.03.3	0.52.0	1.04	0.7	74.07.3	29.330.6
MVP-EEP Total	4,856.4	1,717.3	8.2	2.3	85.8	31.0	3.2	1.3	4,960.6	1,755.7

a/ Agriculture includes lands used for the cultivation of crops. Common crops in the area include corn, hay, soybeans, tobacco, and wheat.

b/ Wetland numbers in this table derived from a database. Wetland impact estimates based on field delineations can be found in section 4.3.3

c/ Other lands include prior disturbed land utilized for commercial business, industry, or residential purposes.

DEIS TABLE 4.8.1-1
(Updated for EEP Cline Route Variation)

**Land Use Types Affected by Construction and Operation of the Mountain Valley Project and the Equitrans Expansion Project
(in acres)**

Project/State/ Component	Open Land		Agricultural		Forested/ Woodland		Industrial/ Commercial		Residential		Open Water		Total	
	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper
MOUNTAIN VALLEY PROJECT														
Virginia														
Pipeline Right-of-Way	76.0	31.3	411.8	170.7	1,050.7	431.8	0.0	0.0	12.5	5.5	0.2	0.1	1,551.1	639.5
Additional Temporary Workspace	32.1	0.0	129.2	0.0	63.2	0.0	0.0	0.0	5.6	0.0	0.0	0.0	230.1	0.0
Aboveground Facilities	0.0	0.0	0.2	0.0	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	6.2	2.4
Access Roads	16.1	4.2	59.5	13.1	152.5	51.4	0.0	0.0	6.4	3.1	0.1	0.0	234.6	71.8
Yards	4.0	0.0	27.9	0.0	2.3	0.0	0.5	0.0	3.1	0.0	0.0	0.0	37.8	0.0
Cathodic Protection	1.5	0.8	4.0	2.0	0.3	0.2	0.3	0.1	0.9	0.5	0.0	0.0	7.0	3.6
<i>Virginia Subtotal</i>	<i>129.7</i>	<i>36.3</i>	<i>632.7</i>	<i>185.9</i>	<i>1,274.9</i>	<i>485.8</i>	<i>0.8</i>	<i>0.1</i>	<i>28.6</i>	<i>9.1</i>	<i>0.2</i>	<i>0.1</i>	<i>2,066.8</i>	<i>717.3</i>
West Virginia														
Pipeline Right-of-Way	142.0	61.5	150.9	64.1	2,595.1	1,054.7	0.0	0.0	7.5	3.4	1.3	0.8	2,896.8	1,184.5
Additional Temporary Workspace	73.3	0.0	116.6	0.0	309.5	0.0	0.0	0.0	4.2	0.0	0.3	0.0	503.9	0.0
Aboveground Facilities	7.0	2.3	1.2	0.0	79.9	17.6	0.0	0.0	0.0	0.0	0.0	0.0	88.0	19.9
Access Roads	103.6	33.9	41.8	11.3	495.3	128.4	0.0	0.0	7.2	1.7	0.5	0.0	648.5	175.3
Yards	19.5	0.0	63.0	0.0	20.7	0.0	2.3	0.0	3.7	0.0	0.0	0.0	109.1	0.0
Cathodic Protection	3.9	2.1	2.8	1.2	5.0	2.7	0.0	0.0	0.3	0.2	0.0	0.0	12.0	6.2
<i>West Virginia Subtotal</i>	<i>349.2</i>	<i>99.8</i>	<i>376.1</i>	<i>76.6</i>	<i>3,505.5</i>	<i>1,203.4</i>	<i>2.3</i>	<i>0.0</i>	<i>23.0</i>	<i>5.3</i>	<i>2.2</i>	<i>0.8</i>	<i>4,258.3</i>	<i>1,385.9</i>
MOUNTAIN VALLEY PROJECT SUBTOTAL	478.9	136.1	1,008.8	262.5	4,780.4	1,689.2	3.1	0.1	51.5	14.4	2.4	0.9	6,325.1	2,103.2

DEIS TABLE 4.8.1-1
(Updated for EEP Cline Route Variation)

**Land Use Types Affected by Construction and Operation of the Mountain Valley Project and the Equitrans Expansion Project
(in acres)**

Project/State/ Component	Open Land		Agricultural		Forested/ Woodland		Industrial/ Commercial		Residential		Open Water		Total	
	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper
EQUITRANS EXPANSION PROJECT														
Pennsylvania														
Pipeline Right-of-Way	11.88.9	6.04.5	35.336.2	16.74	40.44.0	21.53.3	0.1	0.1	1.5	0.7	0.9	0.9	93.788.0	44.57.4
Additional Temporary Workspace	6.55.6	0.0	30.36	0.0	20.36	0.0	0.0	0.0	0.2	0.0	0.0	0.0	57.956.5	0.0
Aboveground Facilities	3.1	1.3	17.3	12.4	4.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	25.3	16.9
Access Roads	1.56	0.1	3.2	1.6	5.1	3.65	0.0	0.0	0.4	0.0	0.0	0.0	10.24	5.34
Yards	1.9	0.0	4.1	0.0	1.5	0.0	0.0	0.0	4.0	0.0	0.0	0.0	11.4	0.0
Cathodic Protection	0.8	0.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
Pennsylvania Subtotal	25.721.8	8.16.7	91.20.7	30.95	72.26.2	28.330.0	0.1	0.1	6.1	0.7	0.9	0.9	192.39.7	67.770.4
West Virginia														
Pipeline Right-of-Way	0.4	0.3	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4
Additional Temporary Workspace	1.23	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0
Aboveground Facilities	0.9	0.8	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.0
Access Roads	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Yards	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Cathodic Protection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Virginia Subtotal	2.8	1.1	0.0	0.0	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.6	1.5
EQUITRANS EXPANSION SUBTOTALS	28.524.7	9.27.8	91.20.7	30.95	74.08.0	30.428.7	0.1	0.1	6.1	0.7	0.9	0.9	204.319.6.9	71.969.1

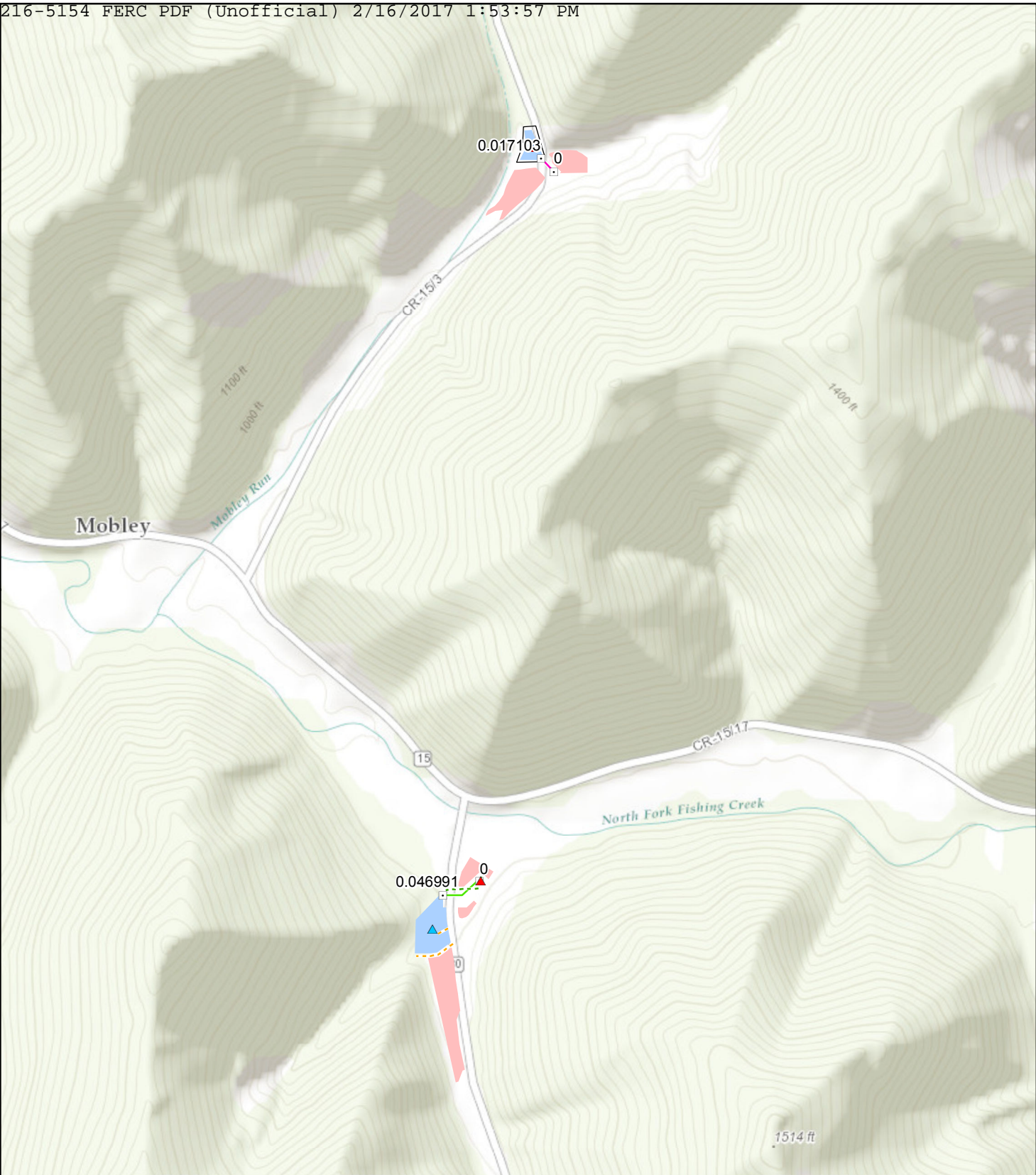
DEIS TABLE 4.8.1-1
(Updated for EEP Cline Route Variation)


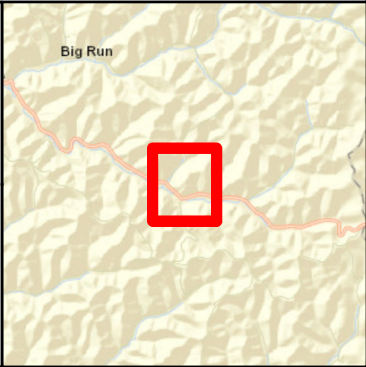
Land Use Types Affected by Construction and Operation of the Mountain Valley Project and the Equitrans Expansion Project
(in acres)

Project/State/ Component	Open Land		Agricultural		Forested/ Woodland		Industrial/ Commercial		Residential		Open Water		Total	
	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper	Constr	Oper
Combined Project Totals	503.67 4	145.39	1,099.5 100.0	293.04	4,858.4 4	1,719.69	3.32	0.23	57.6	15.1	3.3	1.8	6,529.2 40	2,175.2 43

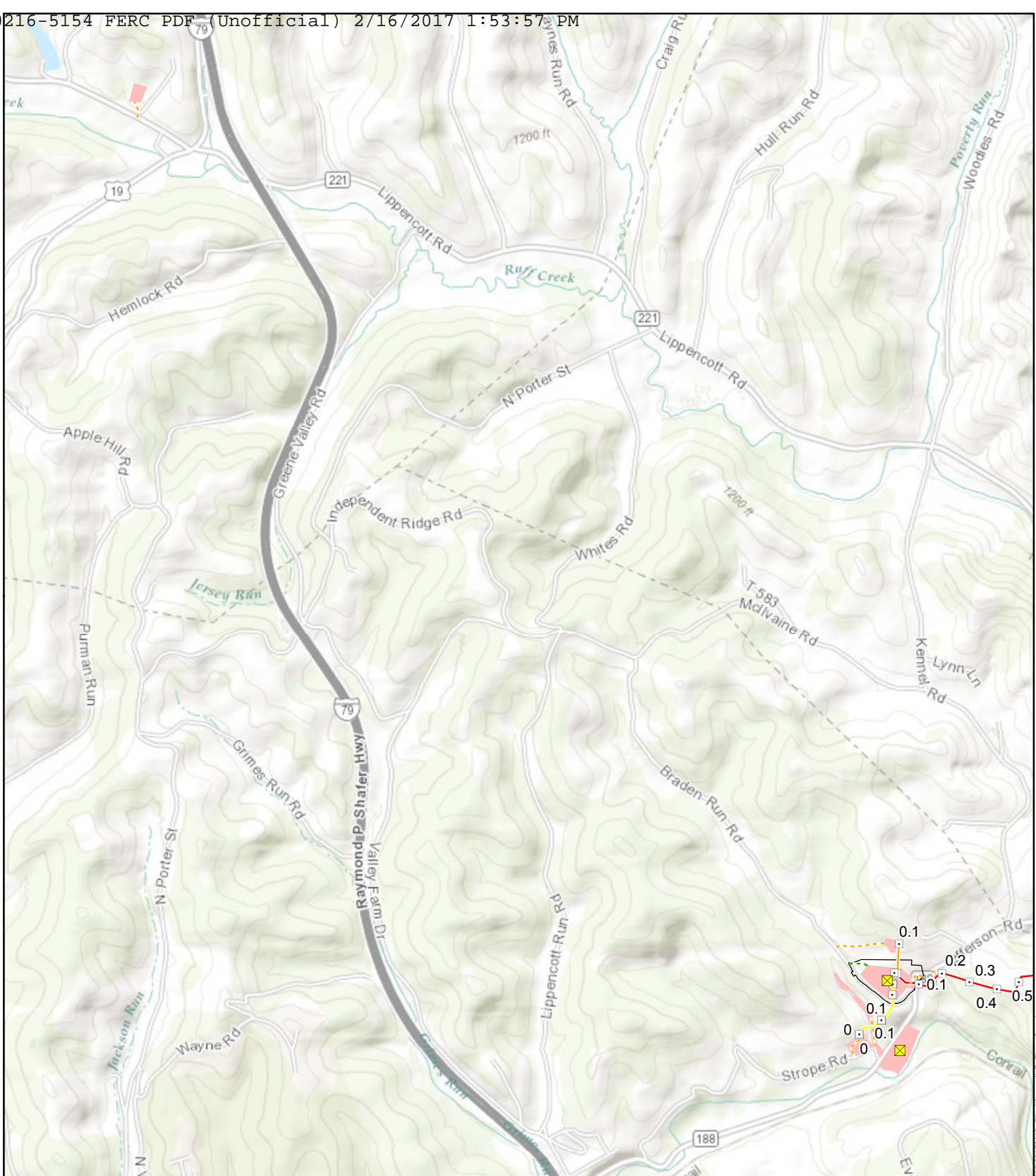
DEIS TABLE 4.8.1-4 (Updated for EEP Cline Route Variation)														
Land Use Types Affected by Construction and Operation of the Equitrans Expansion Project Pipeline Facilities (in acres) <u>a/</u>														
State/Component	Open Land		Agricultural		Forested/ Woodland		Industrial/ Commercial		Residential		Open Water		Total	
	Constr.	Oper.	Constr.	Oper.	Constr.	Oper.	Cons tr.	Oper .	Cons tr.	Ope r.	Cons tr.	Ope r.	Constr.	Oper.
Pennsylvania														
H-158 Pipeline/M80 Pipeline	0.6	0.2	0.8	0.3	2.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	1.6
M80 Pipeline	0.6	0.2	0.8	0.3	2.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	1.6
H-316 Pipeline	2.6	1.0	18.1	7.9	16.5	8.9	0.0	0.0	0.8	0.2	0.0	0.0	38.0	18.0
H-318 Pipeline	8.05.1	4.43.0	14.4515.3	7.63	19.222.8	10.72.4	0.1	0.1	0.7	0.6	0.9	0.9	46.941.2	25.72.8
H-305 Pipeline	0.0	0.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.6
West Virginia														
H-319 Pipeline	0.2	0.1	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3
Equitrans Expansion Project Pipeline Totals	11.69.1 8.7	5.84.3 4.5	35.44.63 6.2	16.141 6.7	38.341.94 0.6	20.82.52 1.8	0.10. 1	0.10 .1	1.5	0.8	0.9	0.9	90.684.98 8.5	46.33.44 4.9
<u>a/</u> Acreages are for pipeline rights of way only and do not include ATWS, yards, or access roads.														

a/ Acreages are for pipeline rights of way only and do not include ATWS, yards, or access roads.

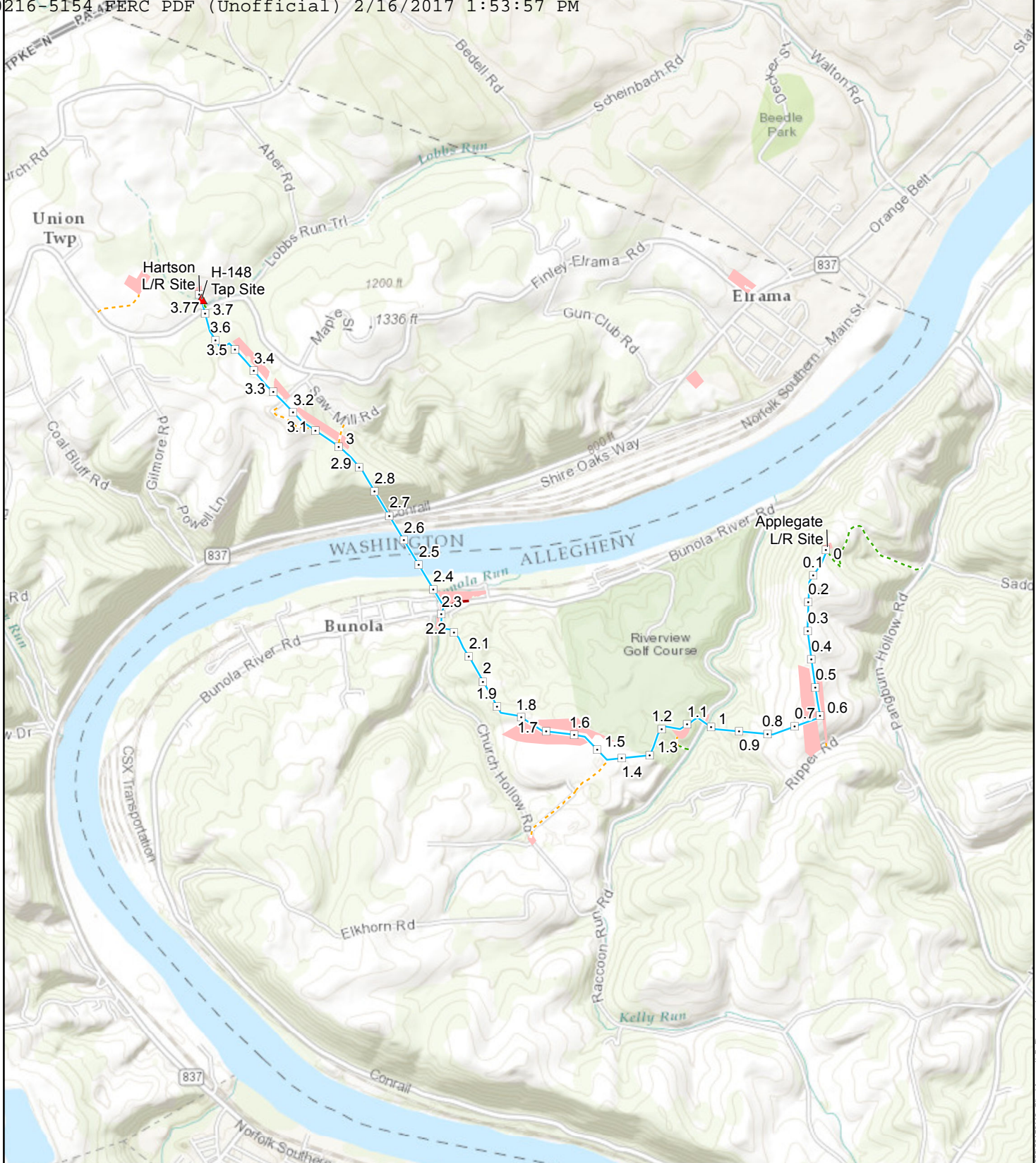



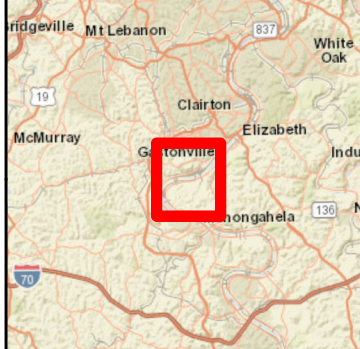
Equitrans Expansion Project		N 1:8,000		0 500 1,000 Feet	
 Appendix B Equitrans Expansion Project Project Overview Map Page 1 of 4 <small>(Revised January 13, 2017)</small>	Legend <ul style="list-style-type: none">MilepostH-319MobleyMeter Station/InterconnectGas Tap		<ul style="list-style-type: none">Permanent Access RoadTemporary Access RoadATWS/YardFootprintInterconnect		

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Equitrans Expansion Project		Legend	
<p>Appendix B Equitrans Expansion Project Project Overview Map</p> <p>Page 3 of 4 (Revised January 13, 2017)</p>	Milepost	ATWS/Yard	
	H-158/M80	Footprint	
	H-305		
	H-316		
	Compressor Station; Compressor Station/ L/R		
	Permanent Access Road		
	Temporary Access Road		
Data Sources: ESRI Streaming Data (2014)			



Equitrans Expansion Project		N 1:30,000		0 1,250 2,500 Feet	
 Appendix B Equitrans Expansion Project Project Overview Map Page 4 of 4 <small>(Revised January 13, 2017)</small>		Legend <ul style="list-style-type: none">MilepostH-318Gas TapPermanent Access RoadTemporary Access RoadATWS/YardGroundbed			
Data Sources: ESRI Streaming Data (2014)					

DEIS APPENDIX D-2
(Updated for EEP Cline Route Variation)

Proposed Additional Temporary Workspaces for the Equitrans Expansion Project

County / State	Pipeline Facility	ATWS Name	ATWS Acreage	ATWS Dimension/ Shape	ATWS Milepost	Land Use Type	Land Use Acres	Purpose
Greene, PA	H-158/M80	H158 M80 ATWS 01	3.3	Irregular Shape	0.00	Pasture/Hay	2.4	Yard - Temporary Storage Area
						Deciduous Forest	0.1	
		H158 M80 ATWS 02	0.5	Irregular Shape	0.05	Developed, Open Space	0.9	ATWS - Laydown Area
						Deciduous Forest	0.2	
	H-305	H305 ATWS 01	1.0	Irregular Shape	0.07	Developed, Open Space	0.4	ATWS - Laydown Area
						Deciduous Forest	0.7	
	H-316	H316 ATWS 01a	0.1	Irregular Shape	0.10	Pasture/Hay	0.3	ATWS - Laydown Area
						Developed, Open Space	0.0	
		H316 ATWS 01b	0.1	132' x 60'	0.10	Pasture/Hay	0.1	ATWS - Proposed Construction Entrance
						Developed, Open Space	0.1	
		H316 ATWS 01c	0.1	Irregular Shape	0.10	Pasture/Hay	0.0	ATWS - Proposed Construction Entrance
						Developed, Open Space	0.1	
		H316 ATWS 02	0.3	Irregular Shape	0.65	Pasture/Hay	0.1	ATWS - Laydown Area
						Cultivated Crops	0.2	
		H316 ATWS 02a	0.1	50' x 50'	0.70	Pasture/Hay	0.1	ATWS - Additional Workspace
						Pasture/Hay	0.0	
		H316 ATWS 03a	0.0	Irregular Shape	0.80	Pasture/Hay	0.0	ATWS - Construction Entrance
						Pasture/Hay	0.1	
		H316 ATWS 03b	0.1	Irregular Shape	0.80	Pasture/Hay	0.1	ATWS - Construction Entrance
						Pasture/Hay	0.1	
		H316 ATWS 03c	0.1	110' x 30'	0.80	Developed, Open Space	0.1	ATWS - Additional Workspace
						Developed, Open Space	0.1	
		H316 ATWS 03d	0.2	114' x 66'	0.80	Pasture/Hay	0.1	ATWS - Construction Entrance
						Developed, Open Space	0.1	
		H316 ATWS 04	0.3	Irregular Shape	0.90	Pasture/Hay	0.1	ATWS - Laydown Area
						Developed, Low Intensity	0.2	
		H316 ATWS 05	1.0	Irregular Shape	1.50	Pasture/Hay	0.1	ATWS - Laydown Area
						Deciduous Forest	0.3	
		H316 ATWS 06	3.0	825' x 210'	2.09	Grassland/Herbaceous	0.0	ATWS - HDD Pullback
						Pasture/Hay	0.7	
		H316 ATWS 07	11.6	Irregular Shape	2.83	Deciduous Forest	3.0	ATWS - H-316 HDD Entrance Location/H-302 Hot Tap Location
						Cultivated Crops	0.1	
						Deciduous Forest	4.1	
						Pasture/Hay	7.4	

DEIS APPENDIX D-2
(Updated for EEP Cline Route Variation)

Proposed Additional Temporary Workspaces for the Equitrans Expansion Project

County / State	Pipeline Facility	ATWS Name	ATWS Acreage	ATWS Dimension/ Shape	ATWS Milepost	Land Use Type	Land Use Acres	Purpose
Allegheny, PA	H-318	H316 ATWS 08	1.8	350' x 250'	0.00	Cultivated Crops	0.2	Yard - Temporary Storage Area
						Deciduous Forest	0.1	
						Pasture/Hay	1.6	
	Redhook	REDHOOK ATWS 01	1.5	Irregular Shape	N/A	Deciduous Forest	0.5	ATWS - Laydown Area
						Developed, Open Space	1.0	
	H-318	H318 ATWS 01a	9.3	1600' x 220'	0.545	Developed, Open Space	0.4	ATWS - Laydown Area
						Pasture/Hay	8.9	
		H318 ATWS 01b	2.2	1323' x 121'	0.455	Cultivated Crops	0.0	ATWS - Laydown Area
						Developed, Open Space	0.0	
						Pasture/Hay	2.2	
		H318 ATWS 01c	0.5	250' x 135'	0.73	Developed, Open Space	0.5	ATWS - Laydown Area
		H318 ATWS 01d	0.2	250' x 55'	0.73	Developed, Open Space	0.2	ATWS - Laydown Area
		H318 ATWS 02a	1.0	Irregular Shape	1.62	Deciduous Forest	0.7	ATWS - Additional Workspace
						Developed, Open Space	0.3	
		H318 ATWS 02c	0.1	130' x 50'	1.70	Deciduous Forest	0.1	ATWS - Additional Workspace
						Developed, Open Space	0.0	
		H318 ATWS 02d	0.1	50' x 50'	1.70	Deciduous Forest	0.1	ATWS - Additional Workspace
						Developed, Open Space	0.0	
		H318 ATWS 02e	0.7	Irregular Shape	1.74	Cultivated Crops	0.4	ATWS - Additional Workspace
						Deciduous Forest	0.2	
						Developed, Open Space	0.2	
		H318 ATWS 03	0.4	180' x 115'	1.905	Deciduous Forest	0.0	ATWS - Additional Workspace
						Developed, Open Space	0.4	
						Pasture/Hay	0.1	
		H318 ATWS 04a	7.3	Irregular Shape	1.62-00	Cultivated Crops	0.5	ATWS - Additional Workspace
						Deciduous Forest	3.2	
						Pasture/Hay	3.6	
		H318 ATWS 04b	4.7	Irregular Shape	1.62-00	Deciduous Forest	2.1	ATWS - Additional Workspace
						Pasture/Hay	2.6	
		H318 ATWS 05a	0.3	230' x 58'	2.375	Deciduous Forest	0.3	ATWS - Laydown Area

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Proposed Additional Temporary Workspaces for the Equitrans Expansion Project

County / State	Pipeline Facility	ATWS Name	ATWS Acreage	ATWS Dimension/ Shape	ATWS Milepost	Land Use Type	Land Use Acres	Purpose
		H318 ATWS 05b	0.1	Irregular Shape	2.480	Developed, Low Intensity	0.0	ATWS - Laydown Area
						Developed, Low Intensity	0.0	
						Developed, Open Space	0.1	
		H318 ATWS 05c	3.1	Irregular Shape	2.480	Deciduous Forest	1.1	ATWS - H-318 HDD Entrance Location
						Developed, Open Space	2.0	
		H318 ATWS 11	0.1	140' x 45'	1.0	Developed, Open Space	0.0	ATWS - Temporary Parking Area
						Deciduous Forest	0.1	
		H318 ATWS 12	0.9	Irregular Shape	1.1	Developed, Open Space	0.3	ATWS - Temporary Staging Area
						Deciduous Forest	0.6	
Washington, PA	H-318	H318 ATWS 06b	3.5	Irregular Shape	3.460	Deciduous Forest	2.5	ATWS - HDD Pullback
						Developed, Open Space	0.8	
						Pasture/Hay	0.1	
		H318 ATWS 06c	1.1	450' x 115'	3.743	Cultivated Crops	0.2	ATWS - HDD Pullback
						Deciduous Forest	0.9	
		H318 ATWS 06d	3.0	950' x 150'	3.834	Cultivated Crops	2.3	ATWS - HDD Pullback
						Deciduous Forest	0.7	
		H318 ATWS 07	0.3	Irregular Shape	4.253.8	Cultivated Crops	0.1	ATWS - Additional Workspace
						Deciduous Forest	0.0	
						Pasture/Hay	0.2	
		H318 ATWS 08	2.5	Irregular Shape	3.84.25	Developed, Low Intensity	0.3	Yard - Temporary Storage Area
						Developed, Medium Intensity	2.0	
						Developed, Open Space	0.2	
						Grassland/Herbaceous	0.1	
		H318 ATWS 09	1.4	277' x 231'	0.00	Deciduous Forest	1.3	Yard - Temporary Storage Area
						Developed, Open Space	0.1	
		H318 ATWS 10	2.3	514' x 214'	0.00	Developed, Low Intensity	1.2	Yard - Temporary Storage Area
						Developed, Medium Intensity	0.4	
						Developed, Open Space	0.7	
Wetzel, WV	H-319	H-319 ATWS 01	0.1	Irregular Shape	0.02	Deciduous Forest	0.1	ATWS - Hot Tap Workspace
		H-319 ATWS 02	0.3	Irregular Shape	0.00	Deciduous Forest	0.0	Yard - Temporary Storage Area

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(Updated for EEP Cline Route Variation)

Proposed Additional Temporary Workspaces for the Equitrans Expansion Project

County / State	Pipeline Facility	ATWS Name	ATWS Acreage	ATWS Dimension/ Shape	ATWS Milepost	Land Use Type	Land Use Acres	Purpose
	Mobley	Mobley ATWS 01	0.4	Irregular Shape	0.00	Developed, Open Space	0.2	ATWS - Additional Workspace
						Deciduous Forest	0.2	
		Mobley ATWS 02	0.7	Irregular Shape	0.00	Developed, Open Space	0.2	ATWS – Additional Workspace
						Deciduous Forest	0.4	
	Webster	Webster ATWS 01	1.2	625' x 130'	N/A	Developed, Open Space	0.3	ATWS - Additional Workspace
						Deciduous Forest	0.5	
						Developed, Open Space	0.7	

DEIS APPENDIX D-4
(Updated for EEP Cline Route Variation)

Additional Temporary Workspace within 50 Feet of Wetlands and Waterbodies for the Equitrans Expansion Project

Project Feature	MP	County	State	ATWS	ATWS Use	ATWS Length x Width <u>a</u> /	Wetland or Waterbody ID	Offset (feet)	Justification
Wetlands									
H-316	1.5	Greene	Pennsylvania	H316 ATWS 05	Laydown Area	2376' x 228'	W-AA8	0	ATWS is located in open field. Work Space to stage the pipe bending crew. Work will be done over timber mats to prevent compaction and rutting.
H-316	2.0	Greene	Pennsylvania	H316 ATWS 06	HDD Pullback	825' x 211'	W-AA9	0	Workspace needed for pipe stringing and pullback of the HDD section. Work will be done over timber mats to prevent compaction and rutting.
H-316	2.8-3.0	Greene	Pennsylvania	H316 ATWS 07	H-316 HDD Entrance Location/H-302 Hot Tap Location	Irregular Shape	W-M2, W-M3, W-M4, W-M5, W-M6	0 - 5	To allow adequate work space to construct the HDD activities, stage and conduct H-302 Hot Tap, and Launcher/Receiver. No impacts to wetlands are anticipated. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
H-318	2.8 2.4	Allegheny	Pennsylvania	H318 ATWS 05c	H-318 HDD Entrance Location	Irregular Shape	W-BB13	10	HDD Entrance Area. To allow adequate work space to construct the HDD activities and groundbed installation. No impacts to wetlands are anticipated. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
H-318	4.33-8	Washington	Pennsylvania	H318 ATWS-08	Temporary Storage Area	Irregular Shape	W-BB13	3	JUSTIFICATION NEEDED
H-318	N/A	Washington	Pennsylvania	H318 ATWS-09	Temporary Storage Area	264' x 205'	W-BB5	0	JUSTIFICATION NEEDED
H-318	N/A	Washington	Pennsylvania	H318 ATWS-10	Temporary Storage Area	514' x 219'	W-BB4	10	JUSTIFICATION NEEDED

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Additional Temporary Workspace within 50 Feet of Wetlands and Waterbodies for the Equitrans Expansion Project

Project Feature	MP	County	State	ATWS	ATWS Use	ATWS Length x Width <u>a/</u>	Wetland or Waterbody ID	Offset (feet)	Justification
H-319	0.0	Wetzel	West Virginia	H319 ATWS 01	Hot Tap Workspace	Irregular Shape	W-Z3A	11	To allow adequate space to stage materials and equipment for pipeline construction as well as maintain a buffer to S-A2A. The workspace is located in open field and limits tree disturbance. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
H-319	0.0	Wetzel	West Virginia	H319 ATWS 02	Laydown Area	Irregular Shape	W-Z3B	0	To allow adequate work space to construct the Hot Tap as well as maintain a buffer to S-A2A. Work will be done over timber mats to prevent compaction and rutting.
Redhook	N/A	Greene	Pennsylvania	Redhook ATWS 01	Laydown Area	Irregular Shape	W-AA1	5	To allow adequate space to stage materials and equipment for compressor station construction. Equitrans owns this workspace, previously used as yard in other Equitrans projects. No impact to the wetland will occur. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
Webster	N/A	Wetzel	West Virginia	Webster ATWS 01	Additional Workspace	625' x 82'	W-Z2	0	To allow adequate space to stage materials and equipment for work at the Webster Interconnect. Workspace is limited to the open area to avoid impacts on trees. Work will be done over timber mats to prevent compaction and rutting.

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(Updated for EEP Cline Route Variation)

Additional Temporary Workspace within 50 Feet of Wetlands and Waterbodies for the Equitrans Expansion Project

Project Feature	MP	County	State	ATWS	ATWS Use	ATWS Length x Width <u>a/</u>	Wetland or Waterbody ID	Offset (feet)	Justification
Waterbodies									
H-158/M-80	0.1	Greene	Pennsylvania	H-158/M- 80 ATWS 01	Temporary Storage Area	Irregular Shape	S-AA1	0	Workspace is needed to allow adequate turning radius for equipment and material delivery. Stream impacts will be avoided by construction. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter; and any crossing of the stream will be done by timberman bridge.
H-158/M-80	0.1	Greene	Pennsylvania	H-158/M- 80 ATWS 02	Temporary Storage Area	Irregular Shape	S-AA1	10	Workspace is needed for pipe bending and staging area. Equitrans owns this workspace, previously used in other Equitrans projects. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
H-305	0.1	Greene	Pennsylvania	H305 ATWS 01	Laydown Area	Irregular Shape	SN-1	0	Work Space to tie into existing station. Stream impacts will be avoided by construction. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
H-316	2.8-3.0	Greene	Pennsylvania	H316 ATWS 07	H-316 HDD Entrance Location/H- 302 Hot Tap Location	Irregular Shape	S-M1 and S-AA16	2 and 10	To allow adequate work space to construct the HDD activities, stage and conduct H-302 Hot Tap, and Launcher/Receiver. Stream impacts will be avoided by construction. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.

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Additional Temporary Workspace within 50 Feet of Wetlands and Waterbodies for the Equitrans Expansion Project

Project Feature	MP	County	State	ATWS	ATWS Use	ATWS Length x Width <u>a/</u>	Wetland or Waterbody ID	Offset (feet)	Justification
H-318	1.7	Allegheny	Pennsylvania	H318 ATWS 02a, c, d	Additional Workspace	2a: 530' x 120' 2c: 130' x 50' 2d: 50' x 50'	S-BB3	10	Work Space to install the pipeline, and mitigate any slide issues if they would arise. Adequate workspace to conduct the dam and pump is limited by topography and adjacent roadways. Stream impacts within the ATWS will be avoided by construction. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
H-318	1	Allegheny	Pennsylvania	H318 ATWS 11	Temporary Parking Area	140' x 45'	NHD 99408966 ^{b/}	37	Workspace used as materials laydown and staging of spoils. . No impacts to wetlands are anticipated. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
H-318	2.8	Allegheny	Pennsylvania	H318 ATWS 05c	H-318 HDD Entrance Location	Irregular Shape	S-BB4, S-BB6	0	HDD Entrance Area. To allow adequate work space to construct the HDD activities and groundbed installation. ATWS placement is constrained by Bunola River Road, adjacent Railroad, and topography to the south. No impacts to streams are anticipated with the exception of installation of the groundbed. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter, and any crossing will be made with a timber mat bridge.
H-319	0.0	Wetzel	West Virginia	H319 ATWS 01	Hot Tap Workspace	Irregular Shape	S-A2A	9	Workspace needed for staging and parking. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.

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Additional Temporary Workspace within 50 Feet of Wetlands and Waterbodies for the Equitrans Expansion Project

Project Feature	MP	County	State	ATWS	ATWS Use	ATWS Length x Width <u>a/</u>	Wetland or Waterbody ID	Offset (feet)	Justification
H-319	0.0	Wetzel	West Virginia	H319 ATWS 02	Laydown Area	Irregular Shape	S-A2A	9	To allow adequate work space to construct the Hot Tap. A buffer between S-A2A and the workspace will be left undisturbed. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
Mobley	N/A	Wetzel	West Virginia	Mobley ATWS 01	Additional Workspace	Irregular Shape	S-J63	0	Area is needed for parking. Stream impacts will be avoided by a 10-ft buffer that will be left intact between the workspace and edge of stream. Sediment barriers such as silt fence or compost filter sock will be installed around the ATWS perimeter. Any crossing of the stream will be made with a timbermat bridge.
Mobley	N/A	Wetzel	West Virginia	Mobley ATWS 02	Additional Workspace	Irregular Shape	S-Z1, S-J63	12	Area is needed for equipment and laydown. Stream impacts will be avoided by a 10-ft buffer that will be left intact between the workspace and edge of stream. Sediment barriers such as silt fence or compost filter sock will be installed around the ATWS perimeter. Any crossing of the stream will be made with a timbermat bridge.
Redhook	N/A	Greene	Pennsylvania	Redhook ATWS 01	Laydown Area	Irregular Shape	S-AA1	10	To allow adequate space to stage materials and equipment for compressor station construction. Equitrans owns this workspace, previously used as yard in other Equitrans projects. No impact to the stream will occur. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.

DEIS APPENDIX D-4 (Updated for EEP Cline Route Variation)									
Additional Temporary Workspace within 50 Feet of Wetlands and Waterbodies for the Equitrans Expansion Project									
Project Feature	MP	County	State	ATWS	ATWS Use	ATWS Length x Width <u>a/</u>	Wetland or Waterbody ID	Offset (feet)	Justification
Webster	N/A	Wetzel	West Virginia	Webster ATWS 01	Additional Workspace	625' x 82'	S-A2A, S- A3A	0	To allow adequate space to stage materials and equipment for work at the Webster Interconnect. Workspace is limited to the open area to avoid impacts on trees. Work will be done over timber mats to prevent compaction and rutting. Sediment barriers such as silt fence or compost filter sock will be installed around its perimeter.
<u>a/</u>	Length and width estimates are approximate; no dimensions are provided if ATWS would be irregularly shaped.								
<u>b/</u>	Waterbody features are from desktop survey using National Hydrography Dataset (NHD) and National Wetlands Inventory (NWI) for areas that are not yet surveyed.								

a/

b/

DEIS APPENDIX E-2
(Updated for EEP Cline Route Variation)

Access Roads for the Equitrans Expansion Project

Project Component	Name	MP	Owner-ship <u>a/</u>	Type <u>b/</u>	Status <u>c/</u>	Existing / Proposed Surface Type	Proposed Mods.	Length (feet)	Width (feet)	Width During Construction (feet)	ROW Width (feet)	Temporary Impact	Permanent Impact	Acres	Land Use	Justification for Permanent Access Roads
PENNSYLVANIA																
Greene County																
Redhook	Redhook AR 01	N/A	P	Perm	N	Grass / Gravel	Built complete road	345	20	25	25	-	20' of stone	0.2	Deciduous Forest	Permanent access to Compressor Station
														0.0	Pasture/Hay	
H158	H158 M80 AR 01	0	P	Temp	E	Gravel	Add stone and widen	413	15	25	25	-	None	0.2	Pasture/Hay	
H158/M80	H158 M80 AR 02	0.1	P	Temp	N	Gravel	Add stone and widen	559	10	25	25	-	None	0.0	Deciduous Forest	Permanent road to H305 Receiver Site
														0.2	Developed, Open Space	
														0.1	Pasture/Hay	
H305	H305 AR 01	0.1	P	Perm	E	Gravel	Add stone and widen	907	20	25	25	-	None	0.3	Deciduous Forest	
														0.2	Pasture/Hay	
H316	H316 AR 01	0.1	P	Temp	N	Grass / Gravel	Add stone for construction entrance	313	0	20	25	-	None	0.1	Developed, Open Space	
														0.1	Pasture/Hay	
H316	H316 AR 02	0.2	P	Temp	N	Gravel	Add stone when needed	159	10	20	25	-	None	0.0	Developed, Open Space	Permanent road to rectifier site.
H316	H316 AR 03	0.7	P	Perm	E	Grass / Gravel	Add stone and widen	783	15	25	25	-	10' of stone	0.2	Cultivated Crops	
														0.0	Developed, Low Intensity	
														0.1	Developed, Open Space	

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Access Roads for the Equitrans Expansion Project

Project Component	Name	MP	Owner-ship a/	Type b/	Status c/	Existing / Proposed Surface Type	Proposed Mods.	Length (feet)	Width (feet)	Width During Construction (feet)	ROW Width (feet)	Temporary Impact	Permanent Impact	Acres	Land Use	Justification for Permanent Access Roads
H316	H316 AR 04	0.9	P	Temp	E	Paved / Gravel/ Grass	ROW will be built for pipe installation.	522	15	20	25	None	None	0.2	Pasture/Hay	
														0.3	Developed, Low Intensity	
														0.0	Developed, Open Space	
H316	H316 AR 05a	1.5	P	Temp	E	Grass / Dirt	ROW will be built for pipe installation.	782	10	25	20	None	None	0.2	Developed, Open Space	
														0.2	Pasture/Hay	
H316	H316 AR 05b	1.5	P	Temp	N	Grass / Dirt	ROW will be built for pipe installation.	1,066	0	25	20	None	None	0.5	Deciduous Forest	
														0.0	Grassland/Herbaceous	
														0.0	Pasture/Hay	
H316	H316 AR 06a	2	P	Temp	E	Grass / Gravel /Dirt	Add stone and widen	242	10	25	25	None	None	0.0	Deciduous Forest	
														0.1	Developed, Open Space	
														0.1	Pasture/Hay	
H316	H316 AR 06b	2	P	Temp	N	Grass / Gravel /Dirt	Add stone and widen	281	0	25	25	None	None	0.1	Deciduous Forest	
														0.0	Developed, Open Space	
														0.1	Pasture/Hay	
H316	H316 AR 07a	2.8	P	Perm	E	Grass / Gravel	Add stone and widen	3,261	15	25	20	None	10' of stone	0.4	Deciduous Forest	Permanent road to receiver Site.
														0.0	Developed, Open Space	
														0.6	Pasture/Hay	

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Access Roads for the Equitrans Expansion Project

Project Component	Name	MP	Owner-ship a/	Type b/	Status c/	Existing / Proposed Surface Type	Proposed Mods.	Length (feet)	Width (feet)	Width During Construction (feet)	ROW Width (feet)	Temporary Impact	Permanent Impact	Acres	Land Use	Justification for Permanent Access Roads
H316	H316 AR 07b	2.8	P	Perm	N	Grass / Gravel	Add stone and widen	508	15	90	20	None	10' of stone	1.4	Deciduous Forest	
														0.9	Pasture/Hay	
H316	H316 AR 08	N/A	P	Temp	N	Gravel	Add stone when needed	322	0	25	25	None	None	0.1	Cultivated Crops	
														0.1	Pasture/Hay	
Allegheny County																
H318	H318 AR 01	0	P	Temp	E	Gravel	Add stone when needed	2,785	15	25	25	None	None	1.6	Deciduous Forest	
														0.0	Developed, Open Space	
H318	H318 AR 02a	0.7	P	Temp	N	Grass / Gravel	Add stone when needed	56	0	25	25	None	None	0.0	Developed, Open Space	
H-318	H318 AR09a	1.2	P	Perm	E	Gravel	Add stone when needed	191	12	40	40	None	10' of stone	0.1	Deciduous Forest	
														0.0	Developed, Open Space	
H-318	H318 AR09b	1.2	P	Temp	N	Grass/Gravel	Add stone when needed	183	12	40	40	None	None	0.2	Deciduous Forest	
H318	H318 AR 02b	0.7	P	Temp	N	Grass / Gravel	Add stone when needed	56	0	25	25	None	None	0.0	Developed, Open Space	
H318	H318 AR 03	1.1	P	Temp	E	Paved	Add stone when needed	1,019	15	25	25	None	None	0.3	Deciduous Forest	
														0.2	Developed, Open Space	
Washington County																
H318	H318 AR 04a	1.95	P	Temp	N	Wooded / Grass	None	780	0	25	25	None	None	0.3	Deciduous Forest	
														0.2	Pasture/Hay	
H318	H318 AR 04b b/	1.59	T	Temp	E	Wooded / Grass	Pending	1,238	15	25	0	None	None	N/A	N/A	

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Access Roads for the Equitrans Expansion Project

Project Component	Name	MP	Owner-ship <u>a/</u>	Type <u>b/</u>	Status <u>c/</u>	Existing / Proposed Surface Type	Proposed Mods.	Length (feet)	Width (feet)	Width During Construction (feet)	ROW Width (feet)	Temporary Impact	Permanent Impact	Acres	Land Use	Justification for Permanent Access Roads
H318	H318 AR 05	3.05	P	Temp	E	Paved	None	414	10	15	15	None	None	0.1	Deciduous Forest	
														0.0	Developed, Open Space	
H318	H318 AR 06	3.16	P	Temp	E	Gravel, Grass	None	857	10	25	25	None	None	0.0	Deciduous Forest	
														0.2	Developed, Open Space	
														0.1	Grassland/Herbaceous	
														0.2	Pasture/Hay	
H318	H318 AR 07	3.84	P	Temp	E	Gravel	Add stone when needed	307	15	25	25	None	None	0.0	Cultivated Crops	
														0.0	Pasture/Hay	
H318	H318 AR08	4.33	P	Temp	E	Paved	Add stone when needed	890	0	25	0	None	None	0.1	Developed, Low Intensity	
														0.4	Developed, Open Space	
WEST VIRGINIA																
Wetzel County																
H319	H319 AR 01	0	P	Perm	E	Gravel	Add stone and widen	129	10	25	25	None	None	0.0	Deciduous Forest	Access to tap valve set
Webster Interconnect	Webster AR 01	N/A	P	Perm	E	Gravel	Add stone and widen	50	10	25	20	None	None	0.0	Developed, Open Space	Entrance to Webster Interconnect site
Webster Interconnect	Webster AR 02	N/A	P	Perm	E	Gravel	Add stone and widen	60	0	25	20	None	None	0.0	Deciduous Forest	Exit from Webster Interconnect site
														0.0	Developed, Open Space	

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Access Roads for the Equitrans Expansion Project

Project Component	Name	MP	Owner-ship <u>a/</u>	Type <u>b/</u>	Status <u>c/</u>	Existing / Proposed Surface Type	Proposed Mods.	Length (feet)	Width (feet)	Width During Construction (feet)	ROW Width (feet)	Temporary Impact	Permanent Impact	Acres	Land Use	Justification for Permanent Access Roads
Webster Interconnect	Webster AR 03	N/A	P	Temp	N	Grass	Build Complete Road	204	0	25	20	None	None	0.0	Deciduous Forest	-
														0.1	Developed, Open Space	

ROW = right-of-way
 N/A = Not Applicable
a/ P = Private, T = Township
b/ Perm = Permanent, Temp = Temporary
c/ E = Existing, N = New

DEIS APPENDIX F-2
(Updated for EEP Cline Route Variation)

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
PENNSYLVANIA																		
Greene																		
H-158	S-AA1	0.1	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	10.7 l/	N/A	N/A	Open-cut dry	Minor	10	WW F	WW	NR	3	3
H-158	S-AA1	0.1	UNT / South Fork Tenmile Creek	Per	Temp.	Workspace	N/A	N/A	0	0.02	N/A	Minor	10	WW F	WW	NR	N/A	N/A
H-158 and M-80	S-AA1	0	UNT / South Fork Tenmile Creek	Per	Temp.	ATWS	M80-H158-ATWS-01	N/A	0	0.06	N/A	Minor	10	WW F	WW	NR	N/A	N/A
H-158 and M-80	S-AA6	0	UNT / South Fork Tenmile Creek	Per	Temp.	ATWS	M80-H158-ATWS-01	N/A	0	0.001	N/A	Intermediate	16	WW F	WW	NR	N/A	N/A
M-80	S-AA1	0.1	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	10.7l/	N/A	N/A	Open-cut dry	Minor	10	WW F	WW	NR	3	3
M-80	S-AA1	0.1	UNT / South Fork Tenmile Creek	Per	Temp.	Workspace	N/A	N/A	0	0.02	N/A	Minor	10	WW F	WW	NR	N/A	N/A
H-305	S-N1	0.1	UNT / South Fork Tenmile Creek	Int	Temp.	Workspace	N/A	N/A	N/A	0.02	N/A	Minor	7	WW F	WW	NR	N/A	N/A
H-316	S-AA3	0.1	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	4.4 l/	N/A	N/A	Open-cut dry	Minor	4	WW F	WW	NR	2	3
H-316	S-AA3	0.1	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0	0.004	N/A	Minor	4	WW F	WW	NR	N/A	N/A
H-316	S-AA4	0.2	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	5.2 l/	N/A	N/A	Open-cut dry	Minor	5	WW F	WW	NR	2	3
H-316	S-AA4	0.2	UNT / South Fork Tenmile Creek	Per	Temp.	Workspace	N/A	N/A	0	0.002	N/A	Minor	5	WW F	WW	NR	N/A	N/A
H-316	S-AA8	0.8	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	4.1 l/	N/A	N/A	Open-cut dry	Minor	4	WW F	WW	NR	2	3
H-316	S-AA8	0.8	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0	0.003	N/A	Minor	4	WW F	WW	NR	N/A	N/A

DEIS APPENDIX F-2
(Updated for EEP Cline Route Variation)

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
H-316	S-AA9	0.9	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0	0.002	N/A	Minor	5	WW F	WW	NR	N/A	N/A
H-316	S-AA10	1.1	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	5	N/A	N/A	Open-cut dry	Minor	5	WW F	WW	NR	3	3
H-316	S-AA10	1.1	UNT / South Fork Tenmile Creek	Int	Temp.	Workspace	N/A	N/A	0	0.003	N/A	Minor	5	WW F	WW	NR	N/A	N/A
H-316	S-AA11	1.3	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	9.6	I/	N/A	Open-cut dry	Minor	5	WW F	WW	NR	2	3
H-316	S-AA11	1.3	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0	0.006	N/A	Minor	6.5	WW F	WW	NR	N/A	N/A
H-316	S-AA12	1.3	Ruff Creek	Per	Route Ctl	Pipeline Route	N/A	51.5	N/A	N/A	Open-cut dry	Intermediate	60	WW F	WW	NR	2	3
H-316	S-AA12	1.3	Ruff Creek	Per	Temp.	Workspace	N/A	N/A	0	0.04	N/A	Intermediate	60	WW F	WW	NR	N/A	N/A
H-316	S-AA13	2	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	3.2	I/	N/A	Open-cut dry	Minor	3	WW F	WW	NR	2	3
H-316	S-AA13	2	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0	0.001	N/A	Minor	3	WW F	WW	NR	N/A	N/A
H-316	S-AA14	2.1	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	3.1	I/	N/A	Open-cut dry	Minor	3	WW F	WW	NR	2	3
H-316	S-AA14	2.1	UNT / South Fork Tenmile Creek	Eph	Temp.	Workspace	N/A	N/A	0	0.002	N/A	Minor	3	WW F	WW	NR	N/A	N/A
H-316	S-AA15	2.3	South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	96.2	N/A	N/A	HDD	Intermediate	100	WW F	WW	NR	3	30
H-316	S-AA21	2.5	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	4.3	I/	N/A	HDD i/	Minor	4	WW F	WW	NR	3	215
H-316	S-AA22	2.5	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	7.1	I/	N/A	HDD i/	Minor	7	WW F	WW	NR	3	215
H-316	S-AA23	2.5	UNT / South Fork Tenmile Creek	Eph	Route Ctl	Pipeline Route	N/A	9.2	I/	N/A	HDD i/	Minor	9	WW F	WW	NR	3	220
H-316	S-AA24	2.5	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	8.2	N/A	N/A	HDD i/	Minor	9	WW F	WW	NR	3	205

DEIS APPENDIX F-2
(Updated for EEP Cline Route Variation)

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
H-316	S-AA20	2.7	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	1.8 l/	N/A	N/A	HDD i/	Minor	1	WW F	WW	NR	3	205
H-316	S-AA17	2.8	UNT / South Fork Tenmile Creek	Per	Route Ctl	Pipeline Route	N/A	12.5 l/	N/A	N/A	HDD i/	Intermediate	12	WW F	WW	NR	3	45
H-316	S-AA18	2.8	UNT / South Fork Tenmile Creek	Int	Route Ctl	Pipeline Route	N/A	2.6	N/A	N/A	HDD i/	Minor	6	WW F	WW	NR	3	40
H-316	S-AA19	2.8	UNT / South Fork Tenmile Creek	Int	Temp	Workspace	N/A	N/A	0.001	0.001	N/A	Minor	5	WW F	WW	NR	N/A	N/A
H-316	S-AA16	3	UNT / South Fork Tenmile Creek	Per	Access Ctl	Access Roads	H316 AR 07a	6.3 l/	N/A	N/A	N/A	Minor	5	WW F	WW	NR	N/A	N/A
H-316	S-AA16	3	UNT / South Fork Tenmile Creek	Per	Temp.	Access Roads ROW	H316 AR 07a	N/A	0	0.003	N/A	Minor	5	WW F	WW	NR	N/A	N/A
Pratt	S-AA6	0	UNT / South Fork Tenmile Creek	Per	Temp.	Pratt Station	N/A	N/A	0	0.03	N/A	Intermediate	16	WW F	WW	NR	N/A	N/A
Pratt	S-AA7	0.1	UNT / South Fork Tenmile Creek	Eph	Temp.	Pratt Station	N/A	N/A	0	0.01	N/A	Minor	8	WW F	WW	NR	N/A	N/A
Redhook	S-AA2	0.1	UNT / South Fork Tenmile Creek	Eph	Temp.	ATWS	Redhook ATWS 01	N/A	0	0.006	N/A	Minor	4	WW F	WW	NR	N/A	N/A
Allegheny																		
H-318	S-BB4	0.04	Bunola Run	Per	Perm.	Groundbed	N/A	N/A	0.1	0	N/A	Intermediate	25	WW F	WW	NR	N/A	N/A
H-318	NHD 99408966S-BB3	1.7	Kelly Run	Per	Route Ctl	Pipeline Route	N/A	2026.2	N/A	N/A	Open-cut dry	Intermediate	230	WW F	WW	NR	2	3
H-318	NHD 99408966S-BB3	1.7	Kelly Run	Per	Temp.	Workspace	N/A	N/A	0	0.05	N/A	Intermediate	230	WW F	WW	NR	N/A	N/A
H-318	S-BB4	2.38	Bunola Run	Per	Route Ctl	Pipeline Route	N/A	26.0 l/	N/A	N/A	Open-cut dry	Intermediate	25	WW F	WW	NR	2	3
H-318	S-BB4	2.38	Bunola Run	Per	Temp.	ATWS	H318 ATWS 05c	N/A	0	0.3	N/A	Intermediate	25	WW F	WW	NR	N/A	N/A

DEIS APPENDIX F-2
(Updated for EEP Cline Route Variation)

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
H-318	S-BB4	2.38	Bunola Run	Per	Temp.	ATWS	H318 ATWS 05c	N/A	0	0.03	N/A	Intermediate	25	WW F	WW	NR	N/A	N/A
H-318	S-BB4	2.38	Bunola Run	Per	Temp.	Workspace	N/A	N/A	0	0.02	N/A	Intermediate	25	WW F	WW	NR	N/A	N/A
H-318	S-BB6	2.38	UNT / Monongahela River	Int	Temp.	ATWS	H318 ATWS 05c	N/A	0	0.006	N/A	Minor	10	WW F	WW	NR	N/A	N/A
Washington																		
H-318	S-BB2	3.38	UNT / Monongahela River	Eph	Route Ctl	Pipeline Route	N/A	1.3 l/	N/A	N/A	Open-cut dry	Minor	1	WW F	WW	NR	2	3
H-318	S-BB2	3.38	UNT / Monongahela River	Eph	Temp.	Workspace	N/A	N/A	0	0.001	N/A	Minor	1	WW F	WW	NR	N/A	N/A
H-318	S-BB1	3.84-2	Lobbs Run	Int	Access Ctl	Access Roads	H318 AR 07	0.4	N/A	N/A	N/A	Minor	2	WW F	WW	NR	N/A	N/A
H-318	S-BB1	3.84-2	Lobbs Run	Int	Route Ctl	Pipeline Route	N/A	5.8 l,m/	N/A	N/A	Open-cut dry	Minor	2	WW F	WW	NR	2	3
H-318	S-BB1	3.84-2	Lobbs Run	Int	Temp.	Workspace	N/A	N/A	0	0.005	N/A	Minor	2	WW F	WW	NR	N/A	N/A
Allegheny/ Washington																		
H-318	S-BB5	2.95-3.122.4 5-2.65	Monongahela River g/	Per	Route Ctl	Pipeline Route	N/A	915 l/	N/A	N/A	HDD	Major	813	WW F	WW	NR	3	60
WEST VIRGINIA																		
Wetzel																		
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Access Ctl	Access Roads	H319 AR 01	15	N/A	N/A	N/A	Intermediate	15	B	WW	April 1-June 30	N/A	N/A
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Route Ctl	Pipeline Route	N/A	15	N/A	N/A	Open-cut dry	Intermediate	15	B	WW	April 1-June 30	3	3
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Temp.	Access Roads ROW	H319 AR 01	N/A	0	0.004	N/A	Intermediate	15	B	WW	April 1-June 30	N/A	N/A

DEIS APPENDIX F-2
(Updated for EEP Cline Route Variation)

Waterbodies Crossed by the Equitrans Expansion Project a/

Project Feature	Waterbody ID	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
H-319	S-A2A	0.04	UNT / North Fork Fishing Creek	Per	Temp.	Workspace	N/A	N/A	0	0.01	N/A	Intermediate	15	B	WW	April 1-June 30	N/A	N/A
Mobley	S-J63	0	UNT / Mobley Run	Per	Route Ctl	Lateral Tap	N/A	1.6	N/A	N/A	N/A	Minor	7	B	WW	April 1-June 30	N/A	N/A
Mobley	S-J63	0	UNT / Mobley Run	Per	PermT emp.	Workspace	N/A	N/A	0	0.01	N/A	Minor	7	B	WW	April 1-June 30	N/A	N/A
Mobley	S-J63	0	UNT / Mobley Run	Per	Temp.	ATWS	Mobley ATWS 01	N/A	0	0.002	N/A	Minor	7	B	WW	April 1-June 30	N/A	N/A
Mobley	S-Z1	0	UNT / Mobley Run	Per	Temp.	Mobley Footprint	N/A	N/A	0	0.01	N/A	Intermediate	12	B	WW	April 1-June 30	N/A	N/A
Webster	S-A3A	0.04	UNT / North Fork Fishing Creek	Int	Temp.	Access Roads ROW	Webster AR 03	N/A	0	0.001	N/A	Minor	8	B	WW	April 1-June 30	N/A	N/A
Webster	S-A3A	0.04	UNT / North Fork Fishing Creek	Int	Temp.	ATWS	Webster ATWS 01	N/A	0	0.03	N/A	Minor	8	B	WW	April 1-June 30	N/A	N/A

<p style="text-align: center;">DEIS APPENDIX F-2 (Updated for EEP Cline Route Variation)</p> <p style="text-align: center;">Waterbodies Crossed by the Equitrans Expansion Project a/</p>
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Project Feature	Waterbody ID	Milepost	Waterbody Name	Flow Type b/	Impact Type n/	Impact Description	ATWS / Access Road ID	Length of Crossing (feet) h/	Perm. Impacts (Acres)	Temporary Impacts (Acres)	Crossing Method j/	FERC Classification	Waterbody Width (Feet) k/	Water Use c/, d/	Fishery Type e/	TOYR f/	Class of Pipe	Depth of Cover (Feet)
Notes:																		
UNT – Unnamed Tributary, N/A - Not Applicable																		
<u>a/</u> All waterbody IDs beginning with "S" are surveyed waterbodies. All waterbodies beginning with "NHD" are from the National Hydrography Dataset (USGS 2014) for areas not yet surveyed.																		
<u>b/</u> From Federal Register / Vol. 80, No. 124 / Monday, June 29, 2015 / Rules Eph streams (rain-dependent streams) have flowing water only in response to precipitation events in a typical year, and are always above the water table. Int streams (seasonal streams) are those that have both precipitation and groundwater providing part of the stream's flow, and flow continuously only during certain times of the year (e.g., during certain seasons such as the rainy season).																		
<u>c/</u> Pennsylvania Protected and State Water Uses: (Source: 25 Pa. Code 93) WWF = Warm Water Fishes																		
<u>d/</u> West Virginia State Water Classifications: (Source: W.Va. Code 47CSR2) B = Propagation and Maintenance of fish and other aquatic life																		
<u>e/</u> Fishery Type: (Source: WVDEP, WVVDNR, and PADEP) WW = Warmwater																		
<u>f/</u> TOYR - Time of Year Restriction = Any span of time within time-of-year restrictions set forth by U.S. Army Corps of Engineer's 401 Water Quality Certification for streams crossed in WV and Greene County Conservation District (No date a, b) NR = No Restriction																		
<u>g/</u> River crosses county line																		
<u>h/</u> Length of crossing is for linear feature (pipeline or access road) crossing length, which is different than the waterbody width if the crossing is not exactly perpendicular to the waterbody.																		
<u>i/</u> The HDD crossing for South Fork Tenmile Creek also crosses the unnamed tributaries in the same bore.																		
<u>j/</u> Open-cut dry crossing methods will either be dam and pump or flume.																		
<u>k/</u> Waterbody width was measured in the field in the center of the survey area (not exactly at the pipeline crossing) and represents the bank full width (not the water width at the time of the survey).																		
<u>l/</u> Pipeline crossing length is greater than top of bank width due to not crossing perpendicular to the waterbody.																		
<u>m/</u> Pipeline crossing length is greater than top of bank width due to the pipeline crossing the stream more than once because of the meandering or branched nature of the waterbody.																		
<u>n/</u> Route Ctl = Route Centerline; Access Ctl = Access Road Centerline.																		

DEIS APPENDIX G-2
(Updated for EEP Cline Route Variation)

Wetlands Crossed by the Equitrans Expansion Project a/

Project Feature	Wetland ID <u>b/</u>	MP	State	County	Wetland Classification <u>c/</u>	Project Component	Length of Crossing (feet) <u>d/</u>	Temporary Construction Impacts (acres) <u>e/, h/</u>	Permanent Operations Impacts (acres) <u>e/, h/</u>	Crossing Method
H-318	W-BB12	1.4	Pennsylvania	Allegheny	PEM	Pipeline-Facilities		<0.01	<0.01	N/A
H-318	W-BB6	1.8	Pennsylvania	Allegheny	PEM	Pipeline-Facilities	34.3	0.07	0.07	Open-cut
H-318	W-BB7	1.52	Pennsylvania	Allegheny	PEM	Pipeline Facilities	318.9	0.1855	0.37	Open-cut
H-318	W-BB11	2.27	Pennsylvania	Allegheny	PFO	Pipeline Facilities		0.03	0.03	N/A
Pratt Station <u>g/</u>	W-AA5	0.1	Pennsylvania	Greene	PEM	Aboveground Facilities		0.02	0.02	N/A
Pratt Station <u>g/</u>	W-AA6	0.1	Pennsylvania	Greene	PEM	Aboveground Facilities		0.06	0.06	N/A
H-316	W-AA4	0.8	Pennsylvania	Greene	PEM	Pipeline Facilities	50.6	0.039	0.07	Open-cut
H-316	W-AA7	0.9	Pennsylvania	Greene	PEM	Pipeline Facilities	51.1	N/A	0.07	Open-cut
H-316	W-AA8	1.5	Pennsylvania	Greene	PEM	ATWS		0.02	0	N/A
H-316	W-AA9	2	Pennsylvania	Greene	PEM	ATWS		0.01	0	N/A
H-316	W-AA10	2.7	Pennsylvania	Greene	PEM	Pipeline Facilities	12.2	N/A	N/A	HDD <u>f/</u>
H-316	W-M3	2.9	Pennsylvania	Greene	PEM	ATWS		<0.01	0	N/A
H-316	W-M6	2.9	Pennsylvania	Greene	PEM	ATWS		<0.01	0	Open-cut
H-316	W-M2	3.0	Pennsylvania	Greene	PEM	Access Roads		N/A	<0.01	N/A
H-318	W-BB5	0	Pennsylvania	Washington	PEM	Yard		<0.01	0	N/A
H-318	W-BB3	3.459	Pennsylvania	Washington	PEM	Pipeline Facilities	33.1	0.015	0.04	Open-cut

DEIS APPENDIX G-2
(Updated for EEP Cline Route Variation)

Wetlands Crossed by the Equitrans Expansion Project a/

Project Feature	Wetland ID <u>b/</u>	MP	State	County	Wetland Classification <u>c/</u>	Project Component	Length of Crossing (feet) <u>d/</u>	Temporary Construction Impacts (acres) <u>e/, h/</u>	Permanent Operations Impacts (acres) <u>e/, h/</u>	Crossing Method
H-319	W-Z3A	0	West Virginia	Wetzel	PEM	Pipeline Facilities	11.7	0.02 4	0.01	Open-cut
H-319	W-Z3B	0	West Virginia	Wetzel	PEM	Yard		0.09	0	N/A
H-319	W-Z3B	0	West Virginia	Wetzel	PEM	Pipeline Facilities	27.3	0.03 3	0.03	Open-cut

N/A - Not applicable

a/ Data are from field surveys where access was granted as of October 15, 2015. All NWI wetlands were accounted for during the field survey

b/ Wetland IDs starting with "W" are field surveyed wetlands. All NWI wetlands are accounted for.

c/ Cowardin wetland classification: PEM - Palustrine Emergent; PFO - Palustrine Forested

d/ Length of crossing measured for linear features only.

e/ Temporary impacts are those located outside the permanent (operational) disturbance footprint; Permanent acres include those areas disturbed during construction. ~~Construction Impact acreage includes Operational Impact acreage.~~

f/ HDD crossing is included in South Fork Tenmile Creek HDD crossing.

g/ Impacts to wetlands associated with the Pratt Station Compressor Station are calculated as Permanent impacts because they are located within the Pratt Station Permanent Impact Area; however, BMPs will be used to minimize avoid impacts to these wetlands during construction, and avoided during and operation, if practicable.

h/ Acres of impacts have been separated out for each facility as per a FERC request, however there are overlaps in disturbance areas for facilities, therefore the acres identified cannot be summed up for an accurate total for the overall project due to overlapping disturbance areas. The total acres of impacts for the project are identified in Table 4.3.3-1.

DEIS APPENDIX J-2 (Updated for EEP Cline Route Variation) Gas and Oil Wells within 0.25 Mile of the Equitrans Expansion Project								
Feature	MP	Near Feature	API Number	Status	County	Type	Distance (ft)	Direction
H-158/ M-80	0	ATWS	059-25617	Active	Greene	Oil & Gas, Coal	967	W
	0	ATWS	059-25585	Active	Greene	Oil & Gas, Coal	947	W
	0	ATWS	059-26423	Proposed But Never Materialized	Greene	Oil & Gas, Coal	975	W
	0	ATWS	059-25585	Active	Greene	Oil & Gas, Coal	947	W
	0.2	Temporary Construction ROW	059-01984	Abandoned	Greene	Oil & Gas, Coal	1,083	E
	0.2	ATWS	059-01939	PADEP Orphan List	Greene	Oil & Gas, Coal	1,263	NW
	0.2	Temporary Construction ROW	059-02020	Abandoned	Greene	Oil & Gas, Coal	1,083	E
H-305	0	Temporary Construction ROW	059-01984	Abandoned	Greene	Oil & Gas, Coal	954	E
	0.1	Access Road ROW	059-01939	PADEP Orphan List	Greene	Oil & Gas, Coal	1,044	W
	0.1	Access Road ROW	059-21800	Active	Greene	Oil & Gas, Coal	1,057	N
	0.1	Access Road ROW	059-02124	DEP Abandoned List	Greene	Oil & Gas, Coal	1,034	NW
	0	Temporary Construction ROW	059-02020	Abandoned	Greene	Oil & Gas, Coal	954	E
H-316	0.2	Permanent Operation ROW	059-01984	Abandoned	Greene	Oil & Gas, Coal	0	W
	0.2	Permanent Operation ROW	059-02020	Abandoned	Greene	Oil & Gas, Coal	0	W
	0.3	Temporary Construction ROW	059-01860	PADEP Abandoned List	Greene	Oil & Gas, Coal	115	N
	0.7	Temporary Construction ROW	059-02016	Active	Greene	Oil & Gas, Unavailable	0	W
	1.0	Temporary Construction ROW	059-24135	Active	Greene	Oil & Gas, Coal	1,049	N
	1.2	Permanent Operation ROW	059-01241	Active	Greene	Oil & Gas, Coal	765	S
	1.4	Access Road ROW	059-22604	Plugged OG Well	Greene	Oil & Gas, Coal	417	NW
H-316	2.7	Permanent Operation ROW	059-21048	Plugged OG Well	Greene	Oil & Gas, Coal	321	E
	3.0	ATWS	059-24955	Active	Greene	Oil & Gas, Coal	82	SW
	2.7	Access Road ROW	059-25009	Active	Greene	Oil & Gas, Coal	628	N

DEIS APPENDIX J-2 (Updated for EEP Cline Route Variation)								
Gas and Oil Wells within 0.25 Mile of the Equitrans Expansion Project								
Feature	MP	Near Feature	API Number	Status	County	Type	Distance (ft)	Direction
	2.7	Permanent Operation ROW	059-24498	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	309	W
	1.6	Temporary Construction ROW	059-23780	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	0	W
	0.0	ATWS	059-21887	Active	Greene	Oil & Gas, Coal	575	NE
	1.5	Access Road ROW	059-23778	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	1,196	N
	1.6	Access Road ROW	059-23782	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	563	S
	1.6	Access Road ROW	059-25243	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	563	S
	3.0	ATWS	059-24956	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	1,256	SW
	1.7	Access Road ROW	059-23779	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	1,132	E
	1.8	Temporary Construction ROW	059-23781	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	91	SW
	1.6	Permanent Operation ROW	059-22618	Operator Reported Not Drilled	Greene	Oil & Gas, Coal	0	W
	0.0	ATWS	059-21991	Active	Greene	Oil & Gas, Coal	722	NE
	1.5	Access Road ROW	059-24133	Active	Greene	Oil & Gas, Coal	992	N
	0.0	ATWS	059-26686	Proposed But Never Materialized	Greene	Oil & Gas, Coal	542	E
H-318	0.7	Temporary Construction ROW	003-00070	Plugged OG Well	Allegheny	Oil & Gas, Non-Coal	815	SE
H-318	0.67	Access Road ROW	003-00209	Plugged OG Well	Allegheny	Oil & Gas, Non-Coal	70521	ES
	0.0	Access Road ROW	003-00435	Plugged OG Well	Allegheny	Oil & Gas, Non-Coal	198	S
	1.64	ATWS	003-00733	Plugged OG Well	Allegheny	Oil & Gas, Non-Coal	6281093	SW
	2.6.3	ATWS	003-00783	Plugged OG Well	Allegheny	Oil & Gas, Non-Coal	336	W
	2.85	Temporary Construction ROW	003-1077	PADEP Plugged	Allegheny	Oil & Gas, Non-Coal	412	W
	0.9	Temporary Construction ROW	003-20004	Active	Allegheny	Oil & Gas, Non-Coal	4059	SE
	4.1	Temporary Construction ROW	003-20012	Active	Allegheny	Oil & Gas, Non-Coal	478	E

DEIS APPENDIX J-2 (Updated for EEP Cline Route Variation)								
Gas and Oil Wells within 0.25 Mile of the Equitrans Expansion Project								
Feature	MP	Near Feature	API Number	Status	County	Type	Distance (ft)	Direction
	1.1	Temporary Construction ROW	003-20012	Active	Allegheny	Oil & Gas, Non-Coal	478	E
	0.0	H318_Perm	003-20017	Active	Allegheny	Oil & Gas, Non-Coal	1191	NW
	0.0	H318_Perm	003-20017	Active	Allegheny	Oil & Gas, Non-Coal	1191	NW
	0.76	Access Road ROW	003-20020	Active	Allegheny	Oil & Gas, Non-Coal	352613	SE
	0.0	Access Road ROW	003-20022	Active	Allegheny	Oil & Gas, Non-Coal	1223	N
	0.0	Access Road ROW	003-20023	Active	Allegheny	Oil & Gas, Non-Coal	79	S
	0.0	Access Road ROW	003-20026	Active	Allegheny	Oil & Gas, Non-Coal	10	W
	0.1	Temporary Construction ROW	003-20078	Plugged OG Well	Allegheny	Oil & Gas, Non-Coal	962	W
	0.2	Access Road ROW	003-20792	Active	Allegheny	Oil & Gas, Coal	764	S
	0.0	Access Road ROW	003-20803	Plugged OG Well	Allegheny	Oil & Gas, Coal	1245	N
	0.0	Access Road ROW	003-20804	Plugged OG Well	Allegheny	Oil & Gas, Coal	1290	N
	1.62	ATWS	003-22051	Active	Allegheny	Oil & Gas, Coal	883307	NES
	2.52	ATWS	003-22053	Active	Allegheny	Oil & Gas, Coal	718	SW
	4.3end	Access Road	125-00465	Plugged OG Well	Washington	Oil & Gas, Coal	951	SW
	3.74	Temporary Construction ROW	125-00666	Active	Washington	Oil & Gas, Coal	546	SW
	4.3end	ATWS	125-00685	Active	Washington	Oil & Gas, Coal	100	NW
	4.3end	ATWS	125-00686	Active	Washington	Oil & Gas, Coal	103	NW
	43.7	Temporary Construction ROW	125-00687	Active	Washington	Oil & Gas, Coal	266	NE
	4.3end	ATWS	125-00688	Active	Washington	Oil & Gas, Coal	962	N
	4.3end	Access Road ROW	125-00689	Plugged OG Well	Washington	Oil & Gas, Coal	706	S
	43.7	Temporary Construction ROW	125-00691	Active	Washington	Oil & Gas, Coal	568	W
	3.93.4	Temporary Construction ROW	125-00692	Active	Washington	Oil & Gas, Coal	1088	NW
	2.93.1	Access Road ROW	125-27645	Active	Washington	Oil & Gas, Coal	986	S
	2.93.1	Access Road ROW	125-27646	Active	Washington	Oil & Gas, Coal	996	S

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(Updated for EEP Cline Route Variation)

Gas and Oil Wells within 0.25 Mile of the Equitrans Expansion Project

Feature	MP	Near Feature	API Number	Status	County	Type	Distance (ft)	Direction
	2.93.1	Access Road ROW	125-27647	Active	Washington	Oil & Gas, Coal	1006	S
	2.93.1	Access Road ROW	125-27648	Active	Washington	Oil & Gas, Coal	1016	S
	2.93.1	Access Road ROW	125-27649	Active	Washington	Oil & Gas, Coal	1026	S
	2.93.1	Access Road ROW	125-27649	Active	Washington	Oil & Gas, Coal	1026	S
H-319	0	ATWS	103-02535	Active	Wetzel	Gas	118	E
	0.1	ATWS	103-02384	Active	Wetzel	Gas	1210	NW
Pratt CS	Area within 0.25 mile of Project Features a/	Pratt CS	059-01984	Abandoned	Greene	Oil & Gas, Coal	1170	NE
		Pratt CS	059-02020	Abandoned	Greene	Oil & Gas, Coal	1,170	NE
Redhook CS		Redhook CS	059-01939	PADEP Orphan List	Greene	Oil & Gas, Coal	1300	W
		Redhook CS	059-01860	PADEP Abandoned Orphan List	Greene	Oil & Gas, Coal	921	E
		Redhook CS	059-01984	Abandoned	Greene	Oil & Gas, Coal	515	E
		Redhook CS	059-02020	Abandoned	Greene	Oil & Gas, Coal	515	E
Webster Interconnect		H306 Tap	103-02535	Active	Wetzel	Gas	193	E
		Access Road ROW	103-02384	Active	Wetzel	Gas	1,240	NW
		ATWS	103-02422	Never Drilled	Wetzel	N/A	1,191	E
		ATWS	103-02524	Active	Wetzel	Gas	1,097	W

Sources: PADEP 2016; WVDEP 2016.

a/ No wells identified within 0.25 mi of Mobley Interconnect; Oil and Gas wells located near taps accounted for above. ATWS = additional temporary workspaces

CS = Compressor Station N/A = Not Available

OG = oil/gas

PADEP = Pennsylvania Department of Environmental Protection ROW = right-of-way

DEIS APPENDIX N-9
(Update for EEP Cline Route Variation)

Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
H-158/M-80 Pipelines														
0.0	0.0	0.0	CaD	Greene, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
0.0	0.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
0.1	0.1	0.0	Nw	Greene, PA	Newark silt loam	0.0	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9
0.1	0.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
0.1	0.2	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
0.2	0.2	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
H-305 Pipeline														
0.0	0.0	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3
0.1	0.1	0.0	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
H-316 Pipeline														
0.0	0.0	0.0	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
0.0	0.1	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0
0.1	0.1	0.0	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

DEIS APPENDIX N-9
(Update for EEP Cline Route Variation)

Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/ Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
0.1	0.1	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.8
0.1	0.2	0.0	Du	Greene, PA	Dunning silt loam	0.0	0.0	0.6	0.6	0.0	0.6	0.0	0.6	0.6
0.2	0.2	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
0.2	0.2	0.0	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7
0.2	0.3	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
0.3	0.5	0.2	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7
0.5	0.5	0.0	WeB	Greene, PA	Westmorel and silt loam, 3 to 8 percent slopes	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
0.5	0.6	0.1	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
0.6	0.9	0.3	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	5.4	0.0	0.0	0.0	0.0	5.4	5.4	5.4
0.9	1.0	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	2.5
1.0	1.0	0.0	UdB	Greene, PA	Udorthents , smoothed, gently sloping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
1.0	1.1	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	2.5
1.1	1.2	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	1.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
1.2	1.2	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.4

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Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

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1.2	1.3	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6
1.3	1.3	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
1.3	1.3	0.0	W	Greene, PA	Water	-	-	-	-	-	-	-	-	-
1.3	1.4	0.0	Nw	Greene, PA	Newark silt loam	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
1.4	1.4	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0
1.4	1.5	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4
1.5	1.5	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
1.5	1.6	0.1	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7
1.6	1.6	0.1	AgB	Greene, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
1.6	1.6	0.0	AgC	Greene, PA	Allegheny silt loam, 8 to 15 percent slopes	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
1.6	1.7	0.0	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7
1.7	1.7	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4
1.7	1.7	0.0	AgC	Greene, PA	Allegheny silt loam, 8 to 15 percent slopes	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
1.7	1.8	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
1.8	1.8	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.3

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Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

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Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
2.7	2.8	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2
2.8	2.8	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0
2.8	3.0	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2
H-318 Pipeline														
0.0	0.1	0.1	GuB	Allegheny, PA	Guernsey silt loam, 3 to 8 percent slopes	1.2	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0
0.1	0.1	0.4 0.0	CuD	Allegheny, PA	Culleoka- Dormont- Urban land complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2
0.1	0.2	0.1	GuC	Allegheny, PA	Guernsey silt loam, 8 to 15 percent slopes	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
0.2	0.2	0.0	CuD	Allegheny, PA	Culleoka- Dormont- Urban land complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2
0.2	0.3	0.1	GuD	Allegheny, PA	Guernsey silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
0.3	0.4	0.1	CuD	Allegheny, PA	Culleoka- Dormont- Urban land complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2
0.4	0.60.7	0.3	GuC	Allegheny, PA	Guernsey silt loam, 8 to 15 percent slopes	0.0	42.6 12.9	0.0	0.0	0.0	0.0	42.6 12.9	0.0	0.0
0.60.7	0.7	0.4 0.0	GuD	Allegheny, PA	Guernsey silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	4.0 0.9	4.0 0.9	4.0 0.9
0.7	0.8	0.1	GuC	Allegheny, PA	Guernsey silt loam, 8 to 15 percent slopes	0.0	42.6 12.9	0.0	0.0	0.0	0.0	42.6 12.9	0.0	0.0
0.8	0.80.9	0.1	GSFS mF	Allegheny, PA	Gilpin, Weikert, and Culleoka- shaly silt loams, very steep Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	2.4 3.5	0.0	2.4 3.5	0.0 3.5	2.4 3.5

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Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
0.80.9	0.9	0.10.0	GuGS mD	Allegheny, PA	Guernsey silt loam, 8 to 15-percent slopes Strip mines, 8 to 25 percent slopes Strip	0.0	1.20.0	0.0	0.0	0.00.4	0.0	1.20.0	0.00.4	0.00.4
0.9	1.0	0.1	CuDSf M	Allegheny, PA	Culleoka-Dormont-Urban land complex, 15 to 25 percent slopes Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	0.03.5	0.0	1.93.5	1.93.5	1.93.5
1.0	1.11.0	0.10.0	GSFG QF	Allegheny, PA	Gilpin, Weikert, and Culleoka-shaly silt loams, very steep Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	2.10.0	0.0	2.10.9	0.00.9	2.10.9
1.1	1.21.1	0.10.0	DeGSf M	Allegheny, PA	Dormont silt loam, 8 to 15-percent slopes Strip mines, 25 to 75 percent slopes	0.0	1.70.0	0.0	0.0	0.03.5	0.0	1.73.5	1.73.5	1.73.5
1.21.1	1.21.1	0.10.0	CuDS mB	Allegheny, PA	Culleoka-Dormont-Urban land complex, 15 to 25 percent slopes Strip mines, 0 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.90.0	1.90.0	1.90.0
1.21.1	1.31.2	0.1	DeGS mF	Allegheny, PA	Dormont silt loam, 8 to 15-percent slopes Strip mines, 25 to 75 percent slopes	0.0	1.60.0	0.0	0.0	0.03.5	0.0	1.63.5	1.63.5	1.63.5
1.31.2	1.3	0.1	CwDS mB	Allegheny, PA	Culleoka-Westmoreland and silt-loams, 15 to 25 percent slopes Strip mines, 0 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.70.0	0.70.0	0.70.0
1.3	1.4	0.0	DeB	Allegheny, PA	Dormont silt loam, 3 to 8 percent slopes	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0
1.4	1.4	0.0	DeD	Allegheny, PA	Dormont silt loam, 15 to 25-percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0

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(Update for EEP Cline Route Variation)

Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
1.4	1.5	0.1	DeB	Allegheny, PA	Dormont silt loam, 3 to 8 percent slopes	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0
1.5	1.6	0.0	DeC	Allegheny, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	0.8	0.0	0.0	0.0	0.0	0.5	0.5	0.5
1.6	1.6	0.1	DeD	Allegheny, PA	Dormont silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
1.6	1.7	0.1	DeE	Allegheny, PA	Dormont silt loam, 25 to 35 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
1.7	1.8	0.1	GSF	Allegheny, PA	Gilpin, Weikert, and Culleoka shaly silt loams, very steep	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	1.7
1.81.3	1.81.3	0.10.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	1.33.5	0.0	1.33.5	1.33.5	1.33.5
1.81.3	1.91.3	0.10.0	CwC	Allegheny, PA	Culleoka- Westmorel and silt loams, 8 to 15 percent slopes	0.0	0.90.5	0.0	0.0	0.0	0.0	0.90.5	0.0	0.90.5
1.91.3	2.01.5	0.10.2	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes Allegheny	4.85.5	0.0	0.0	0.0	0.0	0.0	0.0	4.85.5	4.85.5
2.01.5	2.21.7	0.2	AgB	Allegheny, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	8.1	8.1	0.0
2.21.7	2.21.7	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	3.4	0.0	3.4	3.4	3.4
2.21.7	2.31.8	0.1	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes	4.85.5	0.0	0.0	0.0	0.0	0.0	0.0	4.85.5	4.85.5
2.31.8	2.41.9	0.1	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	3.4	0.0	3.4	3.4	3.4
1.9	1.9	0.0	SmB	Allegheny, PA	Strip mines, 0 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	1.9	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	3.4	0.0	3.4	3.4	3.4

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Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
2.41.9	2.62.2	0.3	SmD	Allegheny, PA	Strip mines, 8 to 25 percent slopes Strip	0.0	0.0	0.0	0.0	2.33.0	0.0	0.0	2.33.0	2.33.0
2.62.2	2.72.2	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	3.4	0.0	3.4	3.4	3.4
2.72.2	2.82.3	0.1	GQF	Allegheny, PA	Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	0.0	0.0	3.01.0	3.01.0	3.01.0
2.82.3	2.82.3	0.40.0	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
2.82.3	2.82.3	0.0	GQF	Allegheny, PA	Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
2.82.3	2.92.4	0.1	URB	Allegheny, PA	Urban land- Rainsboro complex, gently sloping	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
2.92.4	2.92.4	0.0	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes Rainsboro	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
2.92.4	3.02.5	0.1	RaA	Allegheny, PA	Rainsboro silt loam, 0 to 3 percent slopes	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
3.02.5	3.12.6	0.20.1	W		Water	-	-	-	-	-	-	-	-	-
3.12.6	3.22.7	0.1	Us	Washington, PA	Udorthents , smoothed	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.22.7	3.32.8	0.00.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
3.32.8	3.42.9	0.1	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
3.42.9	3.53.0	0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
3.53.0	3.63.1	0.1	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4

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Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
3.63. 1	3.73. 2	0.00.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
3.73. 2	3.73. 2	0.40.0	WeB	Washington, PA	Westmorel and silt loam, 3 to 8 percent slopes	1.1	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
3.73. 2	3.73. 2	0.0	WeC	Washington, PA	Westmorel and silt loam, 8 to 15 percent slopes	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
3.73. 2	3.83. 3	0.00.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
3.83. 3	3.83. 3	0.0	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
3.83. 3	3.83. 3	0.40.0	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8
3.83. 3	3.83. 3	0.0	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
3.83. 3	3.93. 4	0.1	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8
3.93. 4	3.93. 4	0.0	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
3.93. 4	4.03. 5	0.1	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3
4.03. 5	4.03. 5	0.40.0	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
4.03. 5	4.13. 6	0.1	CaB	Washington, PA	Calvin silt loam, 3 to 8 percent slopes	0.0	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
4.13. 6	4.23. 7	0.1	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
4.23. 7	4.33. 8	0.1	Fa	Washington, PA	Fairplay (marl) silt loam	0.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.5

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Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
4-33.8	4-33.8	0.0	WeD	Washington, PA	Westmorel and silt loam, 15 to 25 percent slopes	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
H-319 Pipeline														
0.0	0.0	0.0	Sk	Wetzel, WV	Skidmore gravelly loam	0.0	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0

USDA, 2015a; 2015b

Note: Totals may not sum correctly due to rounding.

Note: Includes acreages for associated Yards, Roads, and ATWS.

a/ Areas identified as prime farmland and farmland of statewide importance are identified as lands that meet the "all prime farmland" or "farmland of statewide and local importance" criteria as determined by NRCS, SSURGO.

b/ Areas identified to have a severe compaction potential are limited to silt loam or finer based on particle size and ranked "somewhat poor," "poor," and "very poor" drainage as determined by SSURGO.

c/ Areas identified as highly water erodible soils are ranked as "very severe" or "severe" by SSURGO erosion hazard (Off-Road, Off-Trail) criteria. d/ Areas identified as highly wind erodible soils have a wind erodibility index of 1 or 2 as determined by SSURGO.

e/ Areas identified to have poor revegetation potential are lands that have a Capability Class 3 or greater, a low available water capacity and slopes greater than 8 percent as determined by SSURGO.

f/ Areas identified to have a hydric rating include the all and partial criteria as determined by SSURGO.

g/ Areas identified to have poor drainage potential are ranked as "poor" or "very poor" as determined by SSURGO.

h/ Areas identified to have stoney/rocky soils are soils that as determined by SSURGO. Include stone, rocky or cobbles in the soil name (does not include rock outcrops).

DEIS APPENDIX N-10
(Updated for EEP Cline Route Variation)

Soils and Soil Limitation at the Equitrans Expansion Project Aboveground Facilities in Acres

Soil Map Unit			Temporary Impact		Permanent Impact		Prime Farm-land <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>
			Acres	% of Site	Acres	% of Site									
Symbol	County	Soil Map Unit Name													
Pratt Compressor Station															
DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	1.61	21	1.61	21	0	0	0	0	0	0	1.61	0	1.6145
Hu	Greene, PA	Huntington silt loam	5.96	78	5.96	78	6	0	0	0	0	0	0	5.96	0
Nw	Greene, PA	Newark silt loam	0.1	1	0.1	1	0	0	0	0	0	0	0	0.1	0.1
W	Greene, PA	Water	0.01	<0.01	0.01	<0.01	0	0	-	-	-	-	-	-	-
Redhook Compressor Station															
DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	3.08 3.07	17	3.08 2.58	17 15	0	33.07	0	0	0	0	3.08 3.07	0	0
DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	1.68 1.56	9	1.68 0.16	9 <0.01	0	0	0	0	0	0	1.68 1.56	0 1.56	1.68 1.560
DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	65.98	34	61.92	3411	0	65.98	0	0	0	0	65.98	65.98	65.98
DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.14	1 <0.01	0.14 0	10 0	0	0	0	0	0	0	0	0.14	0.14
DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	1.35 1.81	810	1.35 0.11	8 <0.01	0	0	0	0	0	0	0	0 1.81	1.35 1.810
GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	5.55 2.6	34 30	5.54 3.5	34 25	65.26	0	0	0	0	0	5.55 2.6	5.55 2.60	95 26
Nw	Greene, PA	Newark silt loam	0.9	1	0	0	0	0	0	0	0	0	0	0.9	0.9
Webster Interconnect															
GpF	Wetzel, WV	Gilpin- Peabody complex, 35 to 70 percent slopes	0.02	<0.01	0.02	<0.01	0	0	0	0	0	0	0.02	0	0.02
Sk	Wetzel, WV	Skidmore gravelly loam	2.46 2.08	99 84	2.46 0.82	99 33	0	22.08	0	0	2.46 2.08	0	0	0	0
Mobley Tap Site (H-306)															
Sk	Wetzel, WV	Skidmore gravelly loam	0.51 1.63	100	0.50 3.6	100 22	0	41.63	0	0	0.51 1.63	0	0	0	0

DEIS APPENDIX N-10
(Updated for EEP Cline Route Variation)

Soils and Soil Limitation at the Equitrans Expansion Project Aboveground Facilities in Acres

Soil Map Unit Symbol	County	Soil Map Unit Name	Temporary Impact		Permanent Impact		Prime Farm-land <u>a/</u>	Farmland of Statewide Importance <u>a/</u>	Hydric Soils <u>b/</u>	Shallow Depth to Ground-water <u>c/</u>	Stony/ Rocky Soils <u>d/</u>	Poor Drainage Potential <u>e/</u>	Soils Prone to Erosion by Water <u>f/</u>	Soils Prone to Compaction <u>g/</u>	Poor Re-vegetation Potential <u>h/</u>	
			Acres	% of Site	Acres	% of Site										
Applegate L/R Site																
Gub	Allegheny, PA	Guernsey silt loam, 3 to 8 percent slopes	0.39	100	0.39	100	0	0	0	0	0	0	0.39	0.39	0	
Hartson L/R Site (H-148)																
WeD	Washington, PA	Westmorel and silt loam, 15 to 25 percent slopes	0.11	100	0.11	100	0	0	0	0	0	0	0.11	0.11	0.11	
H-302 Tap L/R Site																
DtF	Greene, PA	Dormont-Culleoka complex, 25 to 50 percent slopes	0.33	100	0.33	100	0	0	0	0	0	0	0	0	0.33	

USDA, 2015a; 2015b

Note: Totals may not sum correctly due to rounding.

Note: Includes acreages for associated Yards, Roads, and ATWS.

a/ Areas identified as prime farmland and farmland of statewide importance are identified as lands that meet the “all prime farmland” or “farmland of statewide and local importance” criteria as determined by NRCS, SSURGO.

bg/ Areas identified to have a severe compaction potential are limited to silt loam or finer based on particle size and ranked “somewhat poor,” “poor,” and “very poor” drainage as determined by SSURGO.

ef/ Areas identified as highly water erodible soils are ranked as “very severe” or “severe” by SSURGO erosion hazard (Off-Road, Off-Trail) criteria.

d/ ~~Areas identified as highly wind erodible soils have a wind erodibility index of 1 or 2 as determined by SSURGO.~~

eh/ Areas identified to have poor revegetation potential are lands that have a Capability Class 3 or greater, a low available water capacity and slopes greater than 8 percent as determined by SSURGO.

fb/ Areas identified to have a hydric rating include the all and partial criteria as determined by SSURGO.

ge/ Areas identified to have poor drainage potential are ranked as “poor” or “very poor” as determined by SSURGO.

hd/ Areas identified to have stoney/rocky soils are soils that as determined by SSURGO. Include stone, rocky or cobbles in the soil name (does not include rock outcrops).

DEIS APPENDIX N-11
(Updated for EEP Cline Route Variation)

Soils and Soil Limitations at the Equitrans Expansion Project Additional Temporary Workspaces in Acres

Facility a/	County	Total Area (acres)	Slopes >15 percent b/ (acres)	Designated Farmland c/		Hydric Soils d/ (acres)	Shallow Depth to Groundwater d/ (acres)	Stony / Rocky Soils d/ (acres)	Poor Drainage Potential d/ (acres)	Soils Prone to Erosion		Soils Prone to Soil Compaction g/ (acres)	Poor Revegetation Potential h/ (acres)
				Prime (acres)	Statewide Importance (acres)					By Water e/ (acres)	By Wind f/ (acres)		
H-305 Pipeline	Greene/PA	1.01	0.82	0	0.19	0	0	0	0	0.19	0	1.011.0	1.011.0
H-316 Pipeline	Greene/PA	20.43	14.17	2.212.26	1.03	0	0	0	0	4.384.44	0	2.954.21	14.7314.69
H-318 Pipeline	Allegheny, Washington/PA	44.44	7.39	3.613.25	12.0612.27	0.01	0.01	0	0.01	18.8129.47	0	10.3017.22	11.0426.62
H-319 Pipeline	Wetzel/WV	0.34	0	0	0.09	0	0	0.09	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	3.87	0.05	0	0.48	0	0	0	0	0	0	0.48	0.53
Pratt Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	1.50	0	0	0.92	0	0	0	0	0	0	1.50	1.50
Webster Interconnect	Wetzel/WV	1.55	0.02	0	1.531.18	0	0	0.021.18	0	0.02	0	1.530	0.02
Mobley Tap Site (H-306)	Wetzel/WV	0.11	0	0	0.111.07	0	0	0.111.07	0	0	0	0.110	0
Applegate L/R Site	Allegheny/PA	0	0	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	0	0	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
Total Acres		73.25	22.45	5.825.51	16.4417.23	0.01	0.01	0.222.34	0.01	23.4034.12	0	17.8824.41	28.8344.36
Percent of Total Acres			31%	8%	22%	0.01%	0.04%	0%	0.01%	32%	0%	24%	39%

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility.

However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/ Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/ Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher).

Sources: Soil Survey Staff 2015a, 2015b

DEIS APPENDIX N-12
(Updated for EEP Cline Route Variation)

Soils and Soil Limitations at the Equitrans Expansion Project Access Roads in Acres

Facility a/	County	Total Area (acres)	Slopes >15 percent b/ (acres)	Designated Farmland c/		Hydric Soils d/ (acres)	Shallow Depth to Groundwater d/ (acres)	Stony / Rocky Soils d/ (acres)	Poor Drainage Potential d/ (acres)	Soils Prone to Erosion		Soils Prone to Soil Compaction g/ (acres)	Poor Revegetation Potential h/ (acres)
				Prime (acres)	Statewide Importance (acres)					By Water e/ (acres)	By Wind f/ (acres)		
H-305 Pipeline	Greene/PA	0.52	0.34	0	0	0	0	0	0	0.34	0	0.34	0.34
H-316 Pipeline	Greene/PA	3.43	1.47	0.68	0.630.82	0	0	0	0	2.152.34	0	1.441.72	2.414.40
H-318 Pipeline	Allegheny, Washington/PA	3.80	0.75	0.761.32	0.440.31	0	0	0.140.79	0	1.202.02	0	1.462.54	1.523.29
H-319 Pipeline	Wetzel/WV	0.02	0	0	0.02	0	0	0.02	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	0.49	0.23	0	0.130.26	0	0	0	0	0.350.22	0	0.350.48	0.360.49
Pratt Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	0	0	00.16	00.02	0	0	0	0	00.18	0	00.18	00.03
Webster Interconnect	Wetzel/WV	0.12	0	0	0.12	0	0	0.12	0	0	0	0	0
Mobley Tap Site (H-306)	Wetzel/WV	0	0	0	0	0	0	0	0	0	0	0	0
Applegate L/R Site	Allegheny/PA	0	0	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	0	0	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
Total Acres		8.38	2.79	1.442.16	1.341.55	0.00	0.00	0.280.93	0.00	4.045.1	0	3.595.26	4.638.55
Percent of Total Acres			33%	17%	16%	0.00%	0.00%	3%	0.00%	48%	0%	43%	55%

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility.

However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/ Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/ Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher).

Sources: Soil Survey Staff 2015a, 2015b

DEIS APPENDIX N-13
(Updated for EEP Cline Route Variation)

Soils and Soil Limitations at the Equitrans Expansion Project Contractor Yards and Staging Areas in Acres

Facility a/	County	Total Area (acres)	Slopes >15 percent b/ (acres)	Designated Farmland c/		Hydric Soils d/ (acres)	Shallow Depth to Groundwater d/ (acres)	Stony / Rocky Soils d/ (acres)	Poor Drainage Potential d/ (acres)	Soils Prone to Erosion		Soils Prone to Soil Compaction g/ (acres)	Poor Revegetation Potential h/ (acres)
				Prime (acres)	Statewide Importance (acres)					By Water e/ (acres)	By Wind f/ (acres)		
H-305 Pipeline	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
H-316 Pipeline	Greene/PA	1.82	0	0	1.82	0	0	0	0	0	0	1.82	1.82
H-318 Pipeline	Allegheny, Washington/PA	6.24	2.49	0.37	0.12	0	0	0	0	0.37	0	3.445.86	5.84
H-319 Pipeline	Wetzel/WV	0.25	0	0	0.25	0	0	0	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	3.34	1.88	0.000.76	0.71	0	0	0	0	1.452.21	0	2.162.92	2.59
Pratt Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
Webster Interconnect	Wetzel/WV	0	0	0	0	0	0	0	0	0	0	0	0
Mobley Tap Site (H-306)	Wetzel/WV	0	0	0	0	0	0	0	0	0	0	0	0
Applegate L/R Site	Allegheny/PA	0	0	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	0	0	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	0	0	0	0	0	0	0	0	0	0	0	0
Total Acres		14.62	4.07	0.371.13	2.90	0	0	0	0	1.822.58	0	7.3910.60	10.25
Percent of Total Acres			35%	3%	25%	0%	0%	0%	0%	16%	0%	64%	88%

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility.

However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/ Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/ Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher).

Sources: Soil Survey Staff 2015a, 2015b

Exhibit B-1

Table 2.2-2 FEMA 100-year Flood Zones Crossed by the Project

(Revised February 16, 2017)

Site	Impact	State / County	Floodplain Waterbody	FEMA Flood Zone	Milepost	Impact (acres)	Crossing Length (feet)
	Description						
H-318	Access Roads	PA / Allegheny	Perry Mill Run	AE	0	0	18.06
H-318	Access Roads ROW	PA / Allegheny	Perry Mill Run	AE	0	0.01	0
H-318	ATWS	PA / Allegheny	Kelly Run	A	1.7	0.270	0
H-318	Permanent Easement	PA / Allegheny	Kelly Run	A	4.71	0.170.09	0
H-318	Pipeline Route	PA / Allegheny	Kelly Run	A	4.71	0	146.5374.20
H-318	Workspace	PA / Allegheny	Kelly Run	A	4.71	0.4318	0
H-318	ATWS	PA / Allegheny	Bunola Run	A	2.73	0.02	0
H-318	Permanent Easement	PA / Allegheny	Bunola Run	A	2.73	0.0020	0
H-318	Workspace	PA / Allegheny	Bunola Run	A	2.73	0.02	0
H-318	ATWS	PA / Allegheny	Bunola Run	AE	2.84	3.54	0
H-318	Permanent Easement	PA / Allegheny	Bunola Run	AE	2.84	0.69	0
H-318	Pipeline Route	PA / Allegheny	Bunola Run	AE	2.84	0	606.99
H-318	Workspace	PA / Allegheny	Bunola Run	AE	2.84	0.31	0
H-318	Permanent Easement	PA / Allegheny	Monongahela River	AE	32.4	0.52	0
H-318	Pipeline Route	PA / Allegheny	Monongahela River	AE	32.5	0	456.54

Flood Zone AE = Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods.

Exhibit B-2

Record of Phone Conversation with the USDA Middlebourne Service Center



MEMORANDUM

TO: Dustin Adkins, USDA Middlebourne Service Center, District
Conservationist, (304) 758-2173

FROM: Jared Brandell-Douglas, Tetra Tech

DATE: 02/08/2017

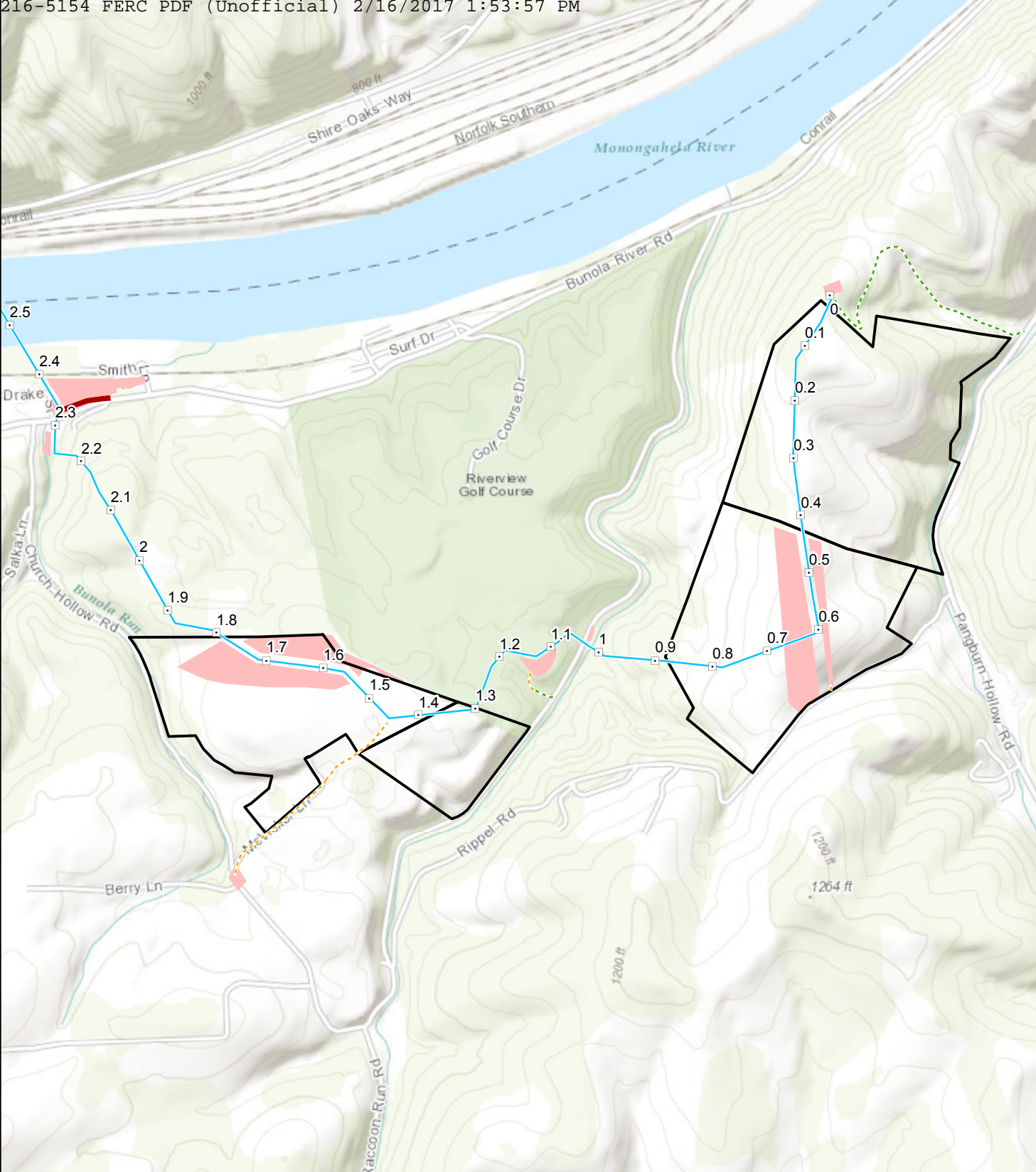
SUBJECT: Agricultural Conservation Easements in Wetzel County, West
Virginia

NOTES:

Mr. Jared Brandell-Douglas contacted the U.S. Department of Agriculture (USDA) Middlebourne Service Center and spoke with Mr. Dustin Adkins, the District Conservationist of the Middlebourne Service Center, which covers all of Wetzel County, West Virginia. Mr. Brandell-Douglas stated that he is calling on behalf of Equitrans, regarding the Equitrans Expansion Project (EEP), and would like to confirm that the current EEP pipeline route in Wetzel County does not cross any Agricultural Conservation Easement Program (ACEP) easements. Mr. Adkins stated that there are no ACEP easements within Wetzel County, West Virginia. Mr. Brandell-Douglas thanked Mr. Adkins for the information.

Exhibit B-3

**Agricultural Conservation Easement Program Easements Crossed by the Equitrans
Expansion Project**



Equitrans Expansion Project




Exhibit B-3
Agricultural Conservation Easement Program Easements Crossed by the Equitrans Expansion Project

February, 2017

Data Sources: ESRI Streaming Data (2014)

Legend

- Milepost
- H-318
- Permanent Access Road
- Temporary Access Road
- ATWS/Yard
- Groundbed
- Agricultural Conservation Easement Program Easement

Scale: 1:15,000

0 1,250 2,500 Feet




Exhibit B-4

**Table 9.1-7 Revised Summary of General Conformity Applicability Analysis – Equitrans
Expansion Project**

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Table 9.1-7 Revised Summary of General Conformity Applicability Analysis - Equitrans Expansion Project (Revised December 20, 2016)

Project Element	NO ₂ Standards		Ozone 8-hr Standards				PM _{2.5} Standards			PM ₁₀ Standards	SO ₂ Standards	CO Standards
	2010	1971	2008 NO _x	2008 VOC	1997 NO _x	1997 VOC	2012	2006	1997	1987	1971	1971
Greene County, PA <i>Redhook Compressor Station</i>												
Estimated Year 1 emissions (tpy)	1.72	1.72	1.72	0.27	1.72	0.27	0.25	0.25	0.25	0.44	0.08	3.11
Estimated Year 2 emissions (tpy)	10.59	10.59	10.59	1.72	10.59	1.72	1.65	1.65	1.65	3.33	0.53	19.91
<i>Pratt Decomission</i>												
Estimated Year 3 emissions (tpy)	6.28	6.28	6.28	1.12	6.28	1.12	1.10	1.10	1.10	1.94	0.40	13.75
<i>H-316 Pipeline Construction</i>												
Estimated Year 1 emissions (tpy)	1.32	1.32	1.32	0.15	1.32	0.15	0.26	0.26	0.26	0.77	0.06	1.17
Estimated Year 2 emissions (tpy)	6.96	6.96	6.96	0.79	6.96	0.79	1.40	1.40	1.40	4.59	0.29	5.99
Attainment Status¹ Conformity De Minimis (tpy) Max. Annual County-Wide Emissions (tpy) Exceeds De Minimis? (Yes/No)	Attain/Unclass N/A 17.55 No	Attain/Unclass N/A 17.55 No	Attain/Unclass. N/A 17.55 No	Maintenance N/A 2.51 No	100 50 17.55 No	50 50 2.51 No	Attain/Unclass N/A 3.05 No	Nonattainment (P)² N/A 3.05 No	Nonattainment (P)² N/A 3.05 No	Attain/Unclass N/A 7.92 No	Attain/Unclass N/A 0.82 No	Attain/Unclass N/A 25.90 No
Allegheny County, PA <i>H-318 Pipeline Construction</i>												
Estimated Year 1 emissions (tpy)	0.96	0.96	0.96	0.11	0.96	0.11	0.18	0.18	0.18	0.56	0.04	0.85
Estimated Year 2 emissions (tpy)	5.05	5.05	5.05	0.58	5.05	0.58	1.01	1.01	1.01	3.35	0.21	4.34
Attainment Status¹ Conformity De Minimis (tpy) Max. Annual County-Wide Emissions (tpy) Exceeds De Minimis? (Yes/No)	Attain/Unclass N/A 5.05 No	Attain/Unclass N/A 5.05 No	Marginal 100 5.05 No	Moderate 50 0.58 No	100 50 5.05 No	50 50 0.58 No	Nonattainment 100 1.01 No	Nonattainment² 100 1.01 No	Nonattainment² 100 1.01 No	Maintenance (P)² N/A 3.35 No	Maintenance (P)² N/A 0.21 No	Maintenance (P)² N/A 4.34 No
Washington County, PA <i>H-318 Pipeline Construction</i>												
Estimated Year 1 emissions (tpy)	0.39	0.39	0.39	0.04	0.39	0.04	0.07	0.07	0.07	0.23	0.02	0.34
Estimated Year 2 emissions (tpy)	2.04	2.04	2.04	0.23	2.04	0.23	0.41	0.41	0.41	1.35	0.08	1.75
Attainment Status¹ Conformity De Minimis (tpy) Max. Annual County-Wide Emissions (tpy) Exceeds De Minimis? (Yes/No)	Attain/Unclass N/A 2.04 No	Attain/Unclass N/A 2.04 No	Marginal 100 2.04 No	Moderate 50 0.23 No	100 50 2.04 No	50 50 0.23 No	Attain/Unclass N/A 0.41 No	Nonattainment 100 0.41 No	Nonattainment 100 0.41 No	Attain/Unclass N/A 1.35 No	Attain/Unclass N/A 0.08 No	Attain/Unclass N/A 1.75 No
Construction Project Triggers General Conformity Requirements? (Yes/No)	No	No	No	No	No	No	No	No	No	No	No	No

1. County is inside the Ozone Transport Region (OTR).

2. County is designated as nonattainment **or as a maintenance area** for portions of the county. This project will not be in the nonattainment portion(s) of this county.

Exhibit B-1

Table 2.2-2 FEMA 100-year Flood Zones Crossed by the Project

(Revised February 16, 2017)

Site	Impact	State / County	Floodplain Waterbody	FEMA Flood Zone	Milepost	Impact (acres)	Crossing Length (feet)
	Description						
H-318	Access Roads	PA / Allegheny	Perry Mill Run	AE	0	0	18.06
H-318	Access Roads ROW	PA / Allegheny	Perry Mill Run	AE	0	0.01	0
H-318	ATWS	PA / Allegheny	Kelly Run	A	1.7	0.270	0
H-318	Permanent Easement	PA / Allegheny	Kelly Run	A	1.71	0.170.09	0
H-318	Pipeline Route	PA / Allegheny	Kelly Run	A	1.71	0	146.5374.20
H-318	Workspace	PA / Allegheny	Kelly Run	A	1.71	0.1318	0
H-318	ATWS	PA / Allegheny	Bunola Run	A	2.73	0.02	0
H-318	Permanent Easement	PA / Allegheny	Bunola Run	A	2.73	0.0020	0
H-318	Workspace	PA / Allegheny	Bunola Run	A	2.73	0.02	0
H-318	ATWS	PA / Allegheny	Bunola Run	AE	2.84	3.54	0
H-318	Permanent Easement	PA / Allegheny	Bunola Run	AE	2.84	0.69	0
H-318	Pipeline Route	PA / Allegheny	Bunola Run	AE	2.84	0	606.99
H-318	Workspace	PA / Allegheny	Bunola Run	AE	2.84	0.31	0
H-318	Permanent Easement	PA / Allegheny	Monongahela River	AE	32.4	0.52	0
H-318	Pipeline Route	PA / Allegheny	Monongahela River	AE	32.5	0	456.54

Flood Zone AE = Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods.

Exhibit B-2

Record of Phone Conversation with the USDA Middlebourne Service Center



MEMORANDUM

TO: Dustin Adkins, USDA Middlebourne Service Center, District
Conservationist, (304) 758-2173

FROM: Jared Brandell-Douglas, Tetra Tech

DATE: 02/08/2017

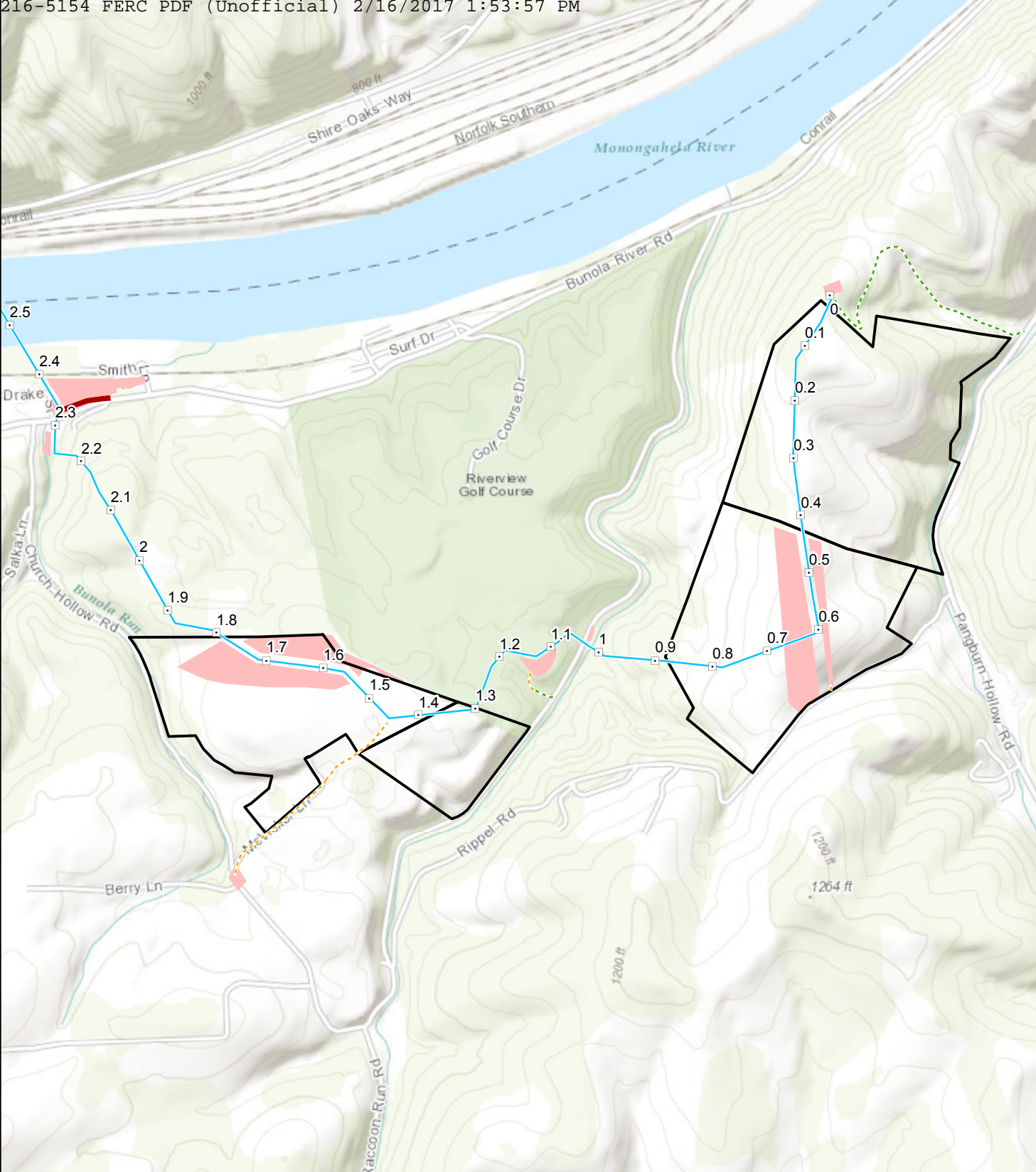
SUBJECT: Agricultural Conservation Easements in Wetzel County, West
Virginia

NOTES:

Mr. Jared Brandell-Douglas contacted the U.S. Department of Agriculture (USDA) Middlebourne Service Center and spoke with Mr. Dustin Adkins, the District Conservationist of the Middlebourne Service Center, which covers all of Wetzel County, West Virginia. Mr. Brandell-Douglas stated that he is calling on behalf of Equitrans, regarding the Equitrans Expansion Project (EEP), and would like to confirm that the current EEP pipeline route in Wetzel County does not cross any Agricultural Conservation Easement Program (ACEP) easements. Mr. Adkins stated that there are no ACEP easements within Wetzel County, West Virginia. Mr. Brandell-Douglas thanked Mr. Adkins for the information.

Exhibit B-3

**Agricultural Conservation Easement Program Easements Crossed by the Equitrans
Expansion Project**



Equitrans Expansion Project		N 1:15,000 0 1,250 2,500 Feet	
 Exhibit B-3 Agricultural Conservation Easement Program Easements Crossed by the Equitrans Expansion Project February, 2017	Legend <ul style="list-style-type: none">MilepostH-318Permanent Access RoadTemporary Access RoadATWS/YardGroundbedAgricultural Conservation Easement Program Easement		

Exhibit B-4

**Table 9.1-7 Revised Summary of General Conformity Applicability Analysis – Equitrans
Expansion Project**

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Table 9.1-7 Revised Summary of General Conformity Applicability Analysis - Equitrans Expansion Project (Revised December 20, 2016)

Project Element	NO ₂ Standards		Ozone 8-hr Standards				PM _{2.5} Standards			PM ₁₀ Standards	SO ₂ Standards	CO Standards
	2010	1971	2008 NO _x	2008 VOC	1997 NO _x	1997 VOC	2012	2006	1997	1987	1971	1971
Greene County, PA <i>Redhook Compressor Station</i>												
Estimated Year 1 emissions (tpy)	1.72	1.72	1.72	0.27	1.72	0.27	0.25	0.25	0.25	0.44	0.08	3.11
Estimated Year 2 emissions (tpy)	10.59	10.59	10.59	1.72	10.59	1.72	1.65	1.65	1.65	3.33	0.53	19.91
<i>Pratt Decomission</i>												
Estimated Year 3 emissions (tpy)	6.28	6.28	6.28	1.12	6.28	1.12	1.10	1.10	1.10	1.94	0.40	13.75
<i>H-316 Pipeline Construction</i>												
Estimated Year 1 emissions (tpy)	1.32	1.32	1.32	0.15	1.32	0.15	0.26	0.26	0.26	0.77	0.06	1.17
Estimated Year 2 emissions (tpy)	6.96	6.96	6.96	0.79	6.96	0.79	1.40	1.40	1.40	4.59	0.29	5.99
Attainment Status¹ Conformity De Minimis (tpy) Max. Annual County-Wide Emissions (tpy) Exceeds De Minimis? (Yes/No)	Attain/Unclass N/A 17.55 No	Attain/Unclass N/A 17.55 No	Attain/Unclass. N/A 17.55 No	Maintenance N/A 2.51 No	100 50 17.55 No	50 50 2.51 No	Attain/Unclass N/A 3.05 No	Nonattainment (P)² N/A 3.05 No	Nonattainment (P)² N/A 3.05 No	Attain/Unclass N/A 7.92 No	Attain/Unclass N/A 0.82 No	Attain/Unclass N/A 25.90 No
Allegheny County, PA <i>H-318 Pipeline Construction</i>												
Estimated Year 1 emissions (tpy)	0.96	0.96	0.96	0.11	0.96	0.11	0.18	0.18	0.18	0.56	0.04	0.85
Estimated Year 2 emissions (tpy)	5.05	5.05	5.05	0.58	5.05	0.58	1.01	1.01	1.01	3.35	0.21	4.34
Attainment Status¹ Conformity De Minimis (tpy) Max. Annual County-Wide Emissions (tpy) Exceeds De Minimis? (Yes/No)	Attain/Unclass N/A 5.05 No	Attain/Unclass N/A 5.05 No	Marginal 100 5.05 No	Moderate 50 0.58 No	100 50 5.05 No	50 50 0.58 No	Nonattainment 100 1.01 No	Nonattainment² 100 1.01 No	Nonattainment² 100 1.01 No	Maintenance (P)² N/A 3.35 No	Maintenance (P)² N/A 0.21 No	Maintenance (P)² N/A 4.34 No
Washington County, PA <i>H-318 Pipeline Construction</i>												
Estimated Year 1 emissions (tpy)	0.39	0.39	0.39	0.04	0.39	0.04	0.07	0.07	0.07	0.23	0.02	0.34
Estimated Year 2 emissions (tpy)	2.04	2.04	2.04	0.23	2.04	0.23	0.41	0.41	0.41	1.35	0.08	1.75
Attainment Status¹ Conformity De Minimis (tpy) Max. Annual County-Wide Emissions (tpy) Exceeds De Minimis? (Yes/No)	Attain/Unclass N/A 2.04 No	Attain/Unclass N/A 2.04 No	Marginal 100 2.04 No	Moderate 50 0.23 No	100 50 2.04 No	50 50 0.23 No	Attain/Unclass N/A 0.41 No	Nonattainment 100 0.41 No	Nonattainment 100 0.41 No	Attain/Unclass N/A 1.35 No	Attain/Unclass N/A 0.08 No	Attain/Unclass N/A 1.75 No
Construction Project Triggers General Conformity Requirements? (Yes/No)	No	No	No	No	No	No	No	No	No	No	No	No

1. County is inside the Ozone Transport Region (OTR).

2. County is designated as nonattainment **or as a maintenance area** for portions of the county. This project will not be in the nonattainment portion(s) of this county.

Document Content(s)

CP16-13 data response cover (February 16).PDF.....	1-1
Frazier verification (2-16).PDF.....	2-2
Sabol verification (2-16).PDF.....	3-3
CP16-13 Responses to January 30 2017 Request_02162017.PDF.....	4-18
CP16-13 Responses to January 30 2017_Exhibit A.PDF.....	19-90
CP16-13 Responses to January 30 2017_Exhibit B.PDF.....	91-98
CP16-13 Responses to January 30 2017_Exhibit B (1).PDF.....	99-106