



DEPARTMENT OF THE ARMY  
PITTSBURGH DISTRICT, CORPS OF ENGINEERS  
WILLIAM S. MOORHEAD FEDERAL BUILDING  
1000 LIBERTY AVENUE  
PITTSBURGH, PA 15222-4186

REPLY TO  
ATTENTION OF

February 7, 2018

Operations Division  
Regulatory Branch  
**LRP-2014-731**

Ms. Leslie Hartz  
Atlantic Coast Pipeline, LLC.  
707 E. Main Street, 19<sup>th</sup> Floor  
Richmond, VA 23219

Dear Ms. Hartz:

I refer to your Final Preconstruction Notification, received in this office February 21, 2017, regarding your proposal to construct the Atlantic Coast Pipeline (ACP or Project) located within four districts of the United States Army Corps of Engineers (USACE): USACE Pittsburgh District, USACE Huntington District, USACE Wilmington District, and USACE Norfolk District. Approximately 61.3 miles of the ACP are located within the USACE Pittsburgh District (see Figure 2 enclosed). Counties crossed by ACP facilities within the USACE Pittsburgh District's regulatory boundaries include Harrison, Lewis, Upshur, and Randolph Counties, West Virginia.

Atlantic Coast Pipeline, LLC (Atlantic) is a company formed to develop, own, and operate the proposed Atlantic Coast Pipeline, an approximately 604.6-mile-long interstate natural gas transmission pipeline system designed to meet growing energy needs in Virginia and North Carolina. Atlantic has contracted with Dominion Energy Transmission, Inc. (DETI), a subsidiary of Dominion, to permit, build, and operate the ACP on behalf of Atlantic.

Construction of the ACP would result in the temporary discharge of earthen fill material associated with access road construction and placement of construction mats into "Waters of the United States (or Waters of the U.S.)" crossed by the mainline pipeline. Permanent loss of "Water of the U.S." is only anticipated to occur as a result of construction of aboveground facilities and construction and improvement of permanent access roads. In addition to the proposed pipeline facilities, the ACP will require construction of one compressor station, one pig launcher/receiver site, two metering and regulation stations, several permanent and temporary access roads, and five valve sites within the USACE Pittsburgh District. The location of each such facility, in the Pittsburgh District, is identified on maps located in Appendix A-1 and A-2 of the application. Impacts at individual wetlands or waterbodies are included in Table 2.0-1 (enclosed).

As a result of the proposed construction there will be 187 single and complete projects, or crossings of Waters of the U.S. including wetlands, within the Pittsburgh

District. These single and complete projects will result in temporary impacts to 101 streams and 3 ponds (11,296 linear feet due to pipeline crossings and 2,100 due to access road use) and 92 wetlands (2.47 acres). Additionally, there will be permanent impacts to 495 LF of streams and 1.27 acres of wetlands loss and there will be 0.28 acres of wetland conversion (i.e. PFO to PEM wetland).

To ensure compliance with the mitigation rule found at 33 CFR 332, mitigation for unavoidable impacts to Waters of the U.S. has been proposed in a Compensatory Mitigation Plan dated January 25, 2018. The mitigation work will consist of a combination of Mitigation Banking and In-Lieu Fee credit purchases as identified in the approved mitigation plan. Within the Pittsburgh District, the proposed mitigation credit purchases are as follows:

1. In-lieu Fee stream credits per watershed: Tygart Valley: 339.46, West Fork: 95.06
2. Banking credits: Tygart Valley Bank: 1.58 credits

Activities associated with projects of this type are authorized by Nationwide Permit (NWP) No. 12 Utility Line Activities, previously issued by the Corps of Engineers, for purposes of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act. These NWP's were published in the January 6, 2017 issue of the Federal Register. This project has been verified to comply with all applicable regional conditions and water quality certification conditions as published in Public Notice LRH-2016-00006-WV on May 17, 2017.

For a list of conditions which must be followed for the NWP to be valid, refer to: <http://www.lrp.usace.army.mil/LinkClick.aspx?fileticket=N2GQpAPStQo%3d&portalid=72>

As **Special Conditions** you must comply with the following:

1. All temporary stream construction entrances must be removed immediately upon project completion.
2. All stream banks, riparian areas, and wetlands disturbed as a result of this project must be replaced at pre-project contours, stabilized, and re-seeded immediately upon project completion at each crossing.
3. One month after the authorized work is completed, and again at the end of the first full growing season (no later than October 31) after the authorized work has been completed you shall inspect all authorized stream and wetland crossings sites that had been temporarily impacted in order to verify that

excess fill material has been removed, and that the site has been restored to pre-existing conditions and contours. These monitoring events shall be summarized in a single report containing:

- a. A statement of whether all excess fill has been removed.
  - b. A description of the status of vegetative growth in the impacted wetlands/ stream banks, a description of substrate and grade, and the stability of the impacted resource with reference to the prevention of erosion and sedimentation entering receiving waters. This report shall be submitted to this office referencing project number LRP-2014-731.
4. This verification remains contingent upon the permittee's submitted Pre-Construction Notification (PCN) information regarding the scope and/or impacts of the project as described in Figures within Appendix A-1 and A-2 of the application, titled Atlantic Coast Pipeline Appendix A-1 – Topographic Maps, and Appendix A-2 Aerial Sheet Maps and aquatic resources identified in Table 2.0-1 Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers – Pittsburgh District. Should new information regarding the scope and/or impacts of the project become available that was not submitted to this office during our review of the proposal, you must submit written information concerning proposed revision(s) to this office for review and evaluation, as soon as practicable.
  5. Construction activities will be performed during low flow conditions within waters of the U.S. to the greatest extent practicable. Additionally, appropriate site specific best management practices for sediment and erosion control in the vicinity of waters of the U.S. shall be implemented during construction activities. You shall ensure stream and riparian upland buffers are adequately flagged and/or staked before construction activities to ensure these areas are not inadvertently impacted during construction and follow the Wetland and Waterbody Construction and Mitigation Procedures, Upland Erosion Control, Revegetation Plan, and Maintenance Plan established by the Federal Energy Regulatory Commission (FERC).
  6. Completion of stream and wetland crossings must adhere to dates established in standard conditions for West Virginia nationwide permits including restrictions during the spawning season for warm water streams (April to June) and trout waters (September 14 to March 31).

7. All requirements of the U.S. Fish and Wildlife Service's (FWS) Biological Opinion dated October 16, 2017 for FERC Docket Numbers CP15-554-000, CP15-554-001 and CP15-555-000 and FWS Project Nos. 05E2VA00-2016-F-1219, 05E2WV00-2014-F-0832, 05E2PA00-2016-TA-0960 and 04EN2000-2017-I-0738 must be adhered to within the Corps' action area defined as approximately 50 linear feet from the delineated boundary of the aquatic resource(s) where regulated work is occurring.
8. All requirements of the Programmatic Agreement for Historic Properties for FERC for Docket Nos. CP15-554-000, CP15-554-001 and CP15-555-000, finalized on January 19, 2018, must be adhered to.

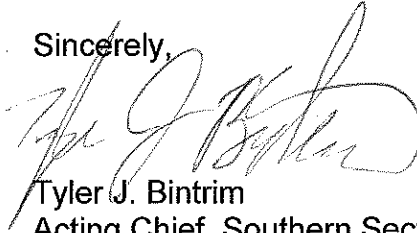
Adherence to these conditions will permit you to proceed with the proposed project. Please note, the enclosed Compliance Certification Form must be signed and returned to this office upon completion of the proposed work.

The verification of this NWP is valid until March 18, 2022, unless the NWP's are modified, suspended, or revoked. If project specifications are changed or work has not been initiated before March 18, 2022, please contact this office for further verification.

The verification of this NWP will not relieve you of the responsibility to obtain any other required state, local, or Federal authorizations.

If you have any questions, please contact Josh Shaffer at (412) 395-7121 or by email at [Joshua.d.shaffer@usace.army.mil](mailto:Joshua.d.shaffer@usace.army.mil). Please complete our customer survey online and provide us with feedback at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=136:4:0](http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0)

Sincerely,



Tyler J. Bintrim  
Acting Chief, Southern Section  
Regulatory Branch

Copies Furnished (email only):

- Adam Fannin (Corps – Huntington District)
- Samantha Dailey (Corps – Wilmington District)
- Steve Gibson (Corps – Norfolk District)
- Kevin Bowman (FERC)
- Spencer Trichell (Dominion Energy Services, Inc.)
- Wade Hammer (ERM, Inc.)
- Nancy Dickson (WV DEP)

**Compliance Certification Form**

PERMIT NO: LRP-2014-731

NAME OF PERMITTEE: Atlantic Coast Pipeline, Inc.

DATE OF ISSUANCE: February 5, 2018

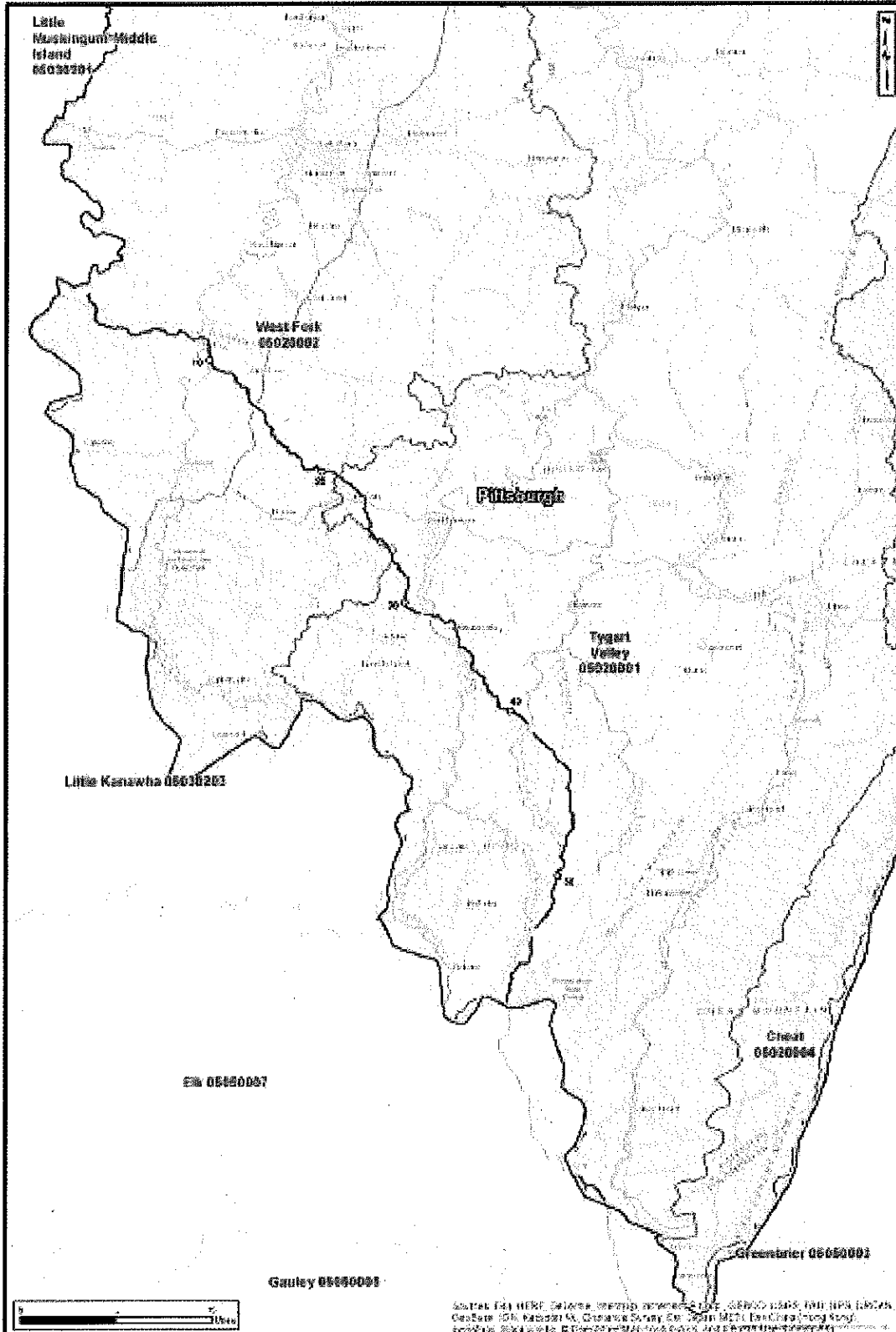
Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers  
Pittsburgh District  
Regulatory Branch, Room 2200  
William S. Moorhead Federal Building  
1000 Liberty Avenue  
Pittsburgh, PA 15222-4186

Please note that your permitted activity is subject to compliance inspection by a U.S. Army Corps of Engineers Representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee



Source: USGS, National Hydrography Dataset, 1:250,000 Scale, 1984 Edition. Data by USGS, National Hydrography Dataset, 1:250,000 Scale, 1984 Edition. Data by USGS, National Hydrography Dataset, 1:250,000 Scale, 1984 Edition.

Atlantic Coast Pipeline		ACP Mainline
		ACP Lateral
		District Boundary
		HUC 8 Watershed

**Atlantic Coast Pipeline**  
**Figure 2 - U.S. Corps of Engineers Districts**  
**Pittsburgh District**  
**HUC 8 Watershed Overview Map**



TABLE 2-0-1

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single Complete Project ID	MRP	Provisional or Survey	Feature ID	County	HUC 8	Project Facility Crossed	Waterbody Name	Waterbody Regime	Waterbody Crossing (feet)	WV Access Road Crossing (feet)	Permanent Affected Bank Length (feet)	Temporary Affected Bank Length (feet)	Permanent Waterbody Impact (feet)	Construction Noting	Construction Class	Wetland Temporary Impact (feet)	Wetland Conversion (feet)	Wetland Loss (feet)	State Regulatory Class	Latitude	Longitude	
WV AP-1-001	0.0	Field Survey	shab002	Harrison County	05020002	Perm ROW, Temp ROW	Tanner Fork	Perennial	na	na	27	na	na	na	na	na	na	na	na	BI	39.17107	-80.55984
	0.0	Field Survey	shab001a	Harrison County	05020002	Perm MLR, Perm ROW, Temp ROW	na	Wetland	42	na	0	0	na	na	MLR Permanent - Wetland Fill	na	na	0.16	na	na	39.17124	-80.56030
	0.0	Field Survey	shab001a	Harrison County	05020002	Perm MLR, Perm ROW, Temp ROW	na	Wetland	na	na	0	0	na	na	MLR Permanent - Wetland Fill	na	na	0.02	na	na	39.17059	-80.55980
	0.0	Field Survey	shab001	Harrison County	05020002	Perm AR, Perm MLR, Perm ROW, Temp ROW	UNT to Tanner Fork	Perennial	3	na	128	0	0	0	Dam and Pump or Flume	na	na	na	na	UNT to BI	39.17126	-80.56067
WV AP-1-002	0.5	Field Survey	shab003	Harrison County	05020002	Perm ROW, Temp ROW	UNT to Tanner Fork	Intermittent	4	na	91	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to BI	39.16561	-80.55981
	0.5	Field Survey	shab002a	Harrison County	05020002	Perm ROW, Temp ROW	na	Wetland	7	na	0	na	na	na	Open Cut - Wetland	na	na	0	na	na	39.16549	-80.56006
WV AP-1-003	1.1	Field Survey	shab001	Lewis County	05020002	Perm AR, Perm ROW, Temp ROW	Kincheloe Creek	Perennial	13	15	137	45	0.01	0.01	Dam and Pump or Flume/Perm AR - Add Culvert	na	na	na	na	BI, HQS	39.14930	-80.55282
	1.1	Field Survey	shab001a	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	24	na	0	na	na	na	Open Cut - Wetland	na	na	0	na	na	39.14914	-80.55326
WV AP-1-004	1.5	Field Survey	shab002	Lewis County	05020002	Perm ROW, Temp ROW	Stard Fork	Perennial	12	na	159	na	na	na	Dam and Pump or Flume	na	na	na	na	BI, HQS	39.14432	-80.55412
WV AP-1-005	2.4	Field Survey	shab006	Lewis County	05020002	Temp AR	na	Wetland	na	167	0	0	na	na	Temp AR - Temporary Wetland Crossing	na	na	0	na	na	39.14834	-80.54905
WV AP-1-006	2.4	Field Survey	shab003	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Kincheloe Creek	Intermittent	21	40	169	0	188	0	Dam and Pump or Flume/Temp AR - Temporary Stream Crossing	na	na	na	na	UNT to BI	39.14794	-80.54492
	2.4	Field Survey	shab006	Lewis County	05020002	Temp AR	na	Wetland	na	na	0	0	na	na	Temp AR - Temporary Wetland Crossing	na	na	0	na	na	39.14763	-80.54559
WV AP-1-007	2.5	Field Survey	shab017	Lewis County	05020002	Perm AR, Temp AR	Kincheloe Creek	Perennial	na	24	0	30	-0.01	-0.01	Temp AR - Temporary Stream Crossing/Perm AR - Add Culvert	na	na	na	na	BI, HQS	39.14956	-80.54140
WV AP-1-008	3.0	Field Survey	shab011a	Lewis County	05020002	Perm AR	na	Wetland	na	279	0	0	na	na	Perm AR - Wetland Loss	na	na	0.12	na	na	39.14167	-80.53605
WV AP-1-009	3.8	Field Survey	shab084	Lewis County	05020002	Perm AR	Hog Camp Run	Perennial	na	11	0	44	0.01	na	Perm AR - Add Culvert	na	na	na	na	BI	39.14286	-80.52002
WV AP-1-010	4.0	Field Survey	shab001	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hog Camp Run	Intermittent	5	na	161	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to BI	39.14072	-80.52108
WV AP-1-011	4.0	Field Survey	shab002	Lewis County	05020002	Perm ROW, Temp ROW	Hog Camp Run	Perennial	40	na	132	na	na	na	Flume or Dam and Pump	na	na	na	na	BI	39.14000	-80.52041
WV AP-1-012	5.0	Field Survey	shab004	Lewis County	05020002	Perm ROW, Temp ROW	Elk Lick	Intermittent	4	na	133	na	na	na	Dam and Pump or Flume	na	na	na	na	BI	39.14131	-80.50932
WV AP-1-013	5.0	Field Survey	shab004	Lewis County	05020002	Perm AR	Elk Lick	Perennial	na	na	133	41	0	-0.01	Dam and Pump or Flume/Perm AR - Add Culvert	na	na	na	na	BI	39.14041	-80.50497
WV AP-1-014	5.7	Field Survey	shab002a	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	53	na	0	na	na	na	Open Cut - Wetland	na	na	0	na	na	39.14325	-80.49333
WV AP-1-015	5.7	Field Survey	shab005	Lewis County	05020002	Perm ROW, Temp ROW	Turkeyrun Creek	Perennial	8	na	126	na	na	na	Dam and Pump or Flume	na	na	na	na	BI	39.14302	-80.49259
WV AP-1-015	5.7	Field Survey	shab006	Lewis County	05020002	Temp ROW	UNT to Turkeyrun Creek	Intermittent	na	na	52	na	na	na	Not Crossed by Centerline	na	na	na	na	UNT to BI	39.14277	-80.49224
WV AP-1-016	5.8	Field Survey	shab004a	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	44	na	0	na	na	na	Open Cut - Wetland	na	na	0	na	na	39.14284	-80.49146



TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single Complete Project ID	MP	Provisional or Survey	Feature ID	County	RUCB	Project Facility	Waterbody Name	Waterbody Regime	Waterbody Crossing (feet)	WB Across Road Centerline Crossing (feet)	Affected Bank Length Wetlands (feet)	Permanent Affected Bank Length Access Road (feet)	Temporary Affected Bank Length Access Road (feet)	Permanent Waterbody Impact (acre)	Construction Method	Coverditch Class	Wetland Temporary Impact (acre)	Wetland Conversion (acre)	Wetland Loss (acre)	State Regulatory Class	Latitude	Longitude
WV AP-1-017	6.3	Field Survey	wab105a	Lewis County	05020002	Temp AR	na	Wetland	na	13	0	0	0	na	Temp AR - Temporary Wetland Crossing	PEM	0.01	0	0	na	39.13785	-80.47289
WV AP-1-018	7.2	Field Survey	wab105c	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hollist Run	ephemeral	na	na	99	na	na	na	Not Crossed by Centerline	na	na	na	na	UNT to B1	39.14112	-80.47124
WV AP-1-019	7.2	Field Survey	wab105e	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	9	9	0	na	na	na	Open Cut - Wetland	PEM	<0.01	0	0	na	39.14186	-80.47044
WV AP-1-020	8.2	Field Survey	wab109	Lewis County	05020002	Perm ROW, Temp ROW	West Fork Silver Run	Perennial	91	na	125	na	na	na	Collusion	na	na	na	na	A, B1, HQS	39.13533	-80.45626
WV AP-1-021	8.2	Field Survey	wab109c	Lewis County	05020002	Temp ROW	na	Wetland	na	na	0	na	na	na	Not Crossed by Centerline	PEM	0.01	0	0	na	39.13523	-80.45594
WV AP-1-022	9.2	Field Survey	wab106c	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	6	na	0	na	na	na	Open Cut - Wetland	PEM	<0.01	0	0	na	39.13080	-80.44382
WV AP-1-023	9.2	Field Survey	wab106e	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PEM	<0.01	0	0	na	39.13042	-80.44391
WV AP-1-024	9.4	Field Survey	wab108	Lewis County	05020002	Perm ROW, Temp ROW	Bread Run	Perennial	11	na	189	na	na	na	Open Cut - Wetland	na	na	na	na	B1	39.12742	-80.44373
WV AP-1-025	10.2	Field Survey	wab109	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Bread Run	Intermittent	4	na	130	na	na	na	Dam and Pump of Flume	na	na	na	na	UNT to B1	39.11756	-80.44129
WV AP-1-026	10.3	Field Survey	wab106a	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	23	na	0	na	na	na	Open Cut - Wetland	FSS	<0.01	0.01	0	na	39.11694	-80.44131
WV AP-1-027	11.8	Field Survey	wab107e	Lewis County	05020002	Perm AR, Perm ROW, Temp ROW	na	Wetland	26	na	0	0	0	na	Open Cut - Wetland	PEM	0.04	0	0	na	39.10775	-80.41958
WV AP-1-028	11.8	Field Survey	wab102	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Facklers Creek	Intermittent	4	na	124	na	na	na	Dam and Pump of Flume	na	na	na	na	UNT to A, B1, HQS	39.10740	-80.41937
WV AP-1-029	11.8	Field Survey	wab103	Lewis County	05020002	Temp ROW	UNT to Facklers Creek	Intermittent	na	na	88	na	na	na	Not Crossed by Centerline	na	na	na	na	UNT to A, B1, HQS	39.10733	-80.41958
WV AP-1-030	12.5	Field Survey	wab103	Lewis County	05020002	Temp ROW	UNT to West Run	Intermittent	na	na	97	na	na	na	Not Crossed by Centerline	na	na	na	na	UNT to B1	39.09983	-80.41372
WV AP-1-031	12.5	Field Survey	wab102	Lewis County	05020002	Perm ROW, Temp ROW	UNT to West Run	Perennial	2	na	139	na	na	na	Dam and Pump of Flume	na	na	na	na	UNT to B1	39.09950	-80.41273
WV AP-1-032	12.6	Field Survey	wab101	Lewis County	05020002	Perm AR, Perm ROW, Temp ROW	West Run	Perennial	14	na	196	0	0	na	Dam and Pump of Flume	na	na	na	na	B1	39.09901	-80.41148
WV AP-1-033	13.7	Field Survey	wab101	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Life Run	Intermittent	4	na	335	na	na	na	Flume or Dam and Pump	na	na	na	na	UNT to B1	39.08659	-80.40381
WV AP-1-034	13.9	Field Survey	wab101e	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	7	na	0	na	na	na	Open Cut - Wetland	PEM	0.03	0	0	na	39.08614	-80.40224
WV AP-1-035	13.8	Field Survey	wab102a	Lewis County	05020002	Temp ROW	na	Wetland	na	na	0	na	na	na	Not Crossed by Centerline	PEM	0.03	0	0	na	39.08562	-80.40234
WV AP-1-036	13.9	Field Survey	wab102	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Life Run	Intermittent	1	na	132	na	na	na	Flume or Dam and Pump	na	na	na	na	UNT to B1	39.08511	-80.40106
WV AP-1-037	14.3	Field Survey	wab102	Lewis County	05020002	Perm ROW, Temp ROW	Life Run	Perennial	20	na	132	na	na	na	Flume or Dam and Pump	na	na	na	na	B1	39.08385	-80.39503
WV AP-1-038	14.5	Field Survey	wab109	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Life Run	Perennial	4	na	76	na	na	na	Dam and Pump of Flume	na	na	na	na	UNT to B1	39.08002	-80.39009
WV AP-1-039	14.7	Field Survey	wab1081c	Lewis County	05020002	Perm AR	na	Wetland	na	25	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0	0.03	na	39.08122	-80.38602
WV AP-1-040	14.8	Field Survey	wab1084c	Lewis County	05020002	Temp AR	na	Wetland	na	na	0	0	0	na	Temp AR - Temporary Wetland Crossing	PEM	<0.01	0	0	na	39.07791	-80.38340
WV AP-1-041	14.8	Field Survey	wab1081	Lewis County	05020002	Temp AR	UNT to Facklers Creek	Intermittent	na	na	0	0	32	0	Temp AR - Temporary Stream Crossing	na	na	na	na	UNT to A, B1, HQS	39.07786	-80.38344
WV AP-1-042	14.3	Field Survey	wab108	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Facklers Creek	Intermittent	14	na	231	0	33	0	Dam and Pump of Flume/Temp AR - Temporary Stream Crossing	na	na	na	na	UNT to A, B1, HQS	39.07647	-80.38924

TABLE 2.0-1

Simple and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipelines within the U.S. Army Corps of Engineers - Pittsburgh District

Single Crossing Project ID	MD	Previdential or Survey	Feature ID	County	HUCs	Project Facility	Waterbody Name	Waterbody Category	Waterbody Centerline Crossing (feet)	WB Access Road Crossing (feet)	Affected Wetlands (acres)	Permanent Affected Bank Length Access Road (feet)	Temporary Affected Bank Length Access Road (feet)	Permanent Waterbody Impact (feet)	Construction Method	Construction Class	Wetland Temporary Impact (feet)	Wetland Conversion (acres)	Wetland Loss (acres)	State Regulatory Class	Latitude	Longitude
WV AP-1-036	14.8	Field Survey	wies056	Lewis County	05020002	Perm AR, Temp AR	na	Wetland	na	316	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0	0.02	na	39.07625	-80.38598
WV AP-1-037	14.8	Field Survey	slab082	Lewis County	05020002	Perm AR	UNT to Hackers Creek	Intermittent	na	5	0	0	32	0	Perm AR - Temporary Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.07479	-80.38633
WV AP-1-038	15.0	Field Survey	slab110	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hackers Creek	Epifaunal	3	na	153	na	na	na	Perm AR - Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.07470	-80.39011
WV AP-1-039	15.0	Field Survey	slab109	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hackers Creek	Intermittent	5	na	80	na	na	na	Perm AR - Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.07445	-80.38988
WV AP-1-040	15.0	Field Survey	wies106	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PEM	-0.01	0	0	na	39.07425	-80.39026
WV AP-1-041	15.3	Field Survey	wies086	Lewis County	05020002	Perm AR	na	Wetland	na	74	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0.04	0.04	na	39.07354	-80.38552
WV AP-1-042	15.3	Field Survey	wies107e	Lewis County	05020002	Perm AR, Perm ROW, Temp ROW	na	Wetland	11	na	0	0	0	na	Open Cut - Wetland	PEM	0.01	0	0	na	39.07074	-80.38824
WV AP-1-043	15.3	Field Survey	slab079	Lewis County	05020002	Perm AR	UNT to Hackers Creek	Intermittent	na	3	0	0	32	0	Perm AR - Temporary Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.06638	-80.39198
WV AP-1-044	15.5	Field Survey	slab075	Lewis County	05020002	Perm AR	UNT to Hackers Creek	Intermittent	na	14	0	0	253	0	Perm AR - Temporary Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.06540	-80.38659
WV AP-1-045	15.5	Field Survey	slab111	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hackers Creek	Perennial	13	na	133	na	na	na	Perm AR - Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.06863	-80.38466
WV AP-1-046	15.6	Field Survey	slab112	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hackers Creek	Perennial	4	na	108	na	na	na	Perm AR - Temporary Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.07219	-80.38117
WV AP-1-047	15.6	Field Survey	slab080	Lewis County	05020002	Perm AR	Hackers Creek	Perennial	na	30	0	0	30	0	Perm AR - Temporary Stream Crossing	na	na	na	na	UNT to A. B. I. HQS	39.06930	-80.37960
WV AP-1-048	16.3	Field Survey	wies077e	Lewis County	05020002	Perm AR	na	Wetland	na	283	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0.19	0.19	na	39.05525	-80.38561
WV AP-1-049	16.3	Field Survey	slab113	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hackers Creek	Intermittent	2	na	124	na	na	na	Perm AR - Wetland Loss	na	na	na	na	UNT to A. B. I. HQS	39.09972	-80.37998
WV AP-1-050	16.4	Field Survey	wies108e	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	16	na	0	na	na	na	Open Cut - Wetland	PEM	0.01	0	0	na	39.09391	-80.37963
WV AP-1-051	17.0	Field Survey	wies001e	Lewis County	05020002	Perm AR	na	Wetland	na	44	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0.04	0.04	na	39.09285	-80.37183
WV AP-1-052	17.2	Field Survey	slab114	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Hackers Creek	Perennial	7	na	158	na	na	na	Perm AR - Wetland Loss	na	na	na	na	UNT to A. B. I. HQS	39.09248	-80.36841
WV AP-1-053	18.1	Field Survey	slab116	Lewis County	05020002	Temp ROW	UNT to Hackers Creek	Intermittent	na	na	14	na	na	na	Not Crossed by Centerline	na	na	na	na	UNT to B. I.	39.04573	-80.35770
WV AP-1-054	18.1	Field Survey	slab115	Lewis County	05020002	Perm ROW, Temp ROW	Laurel Lick	Intermittent	5	na	130	na	na	0.01	Flume or Dam and Pump	na	na	na	na	B. I.	39.04887	-80.37726
WV AP-1-055	19.0	Field Survey	wies005e	Lewis County	05020002	Perm AR	na	Wetland	na	38	0	0	0	na	Perm AR - Temporary Wetland Crossing	PEM	0.02	0	0	na	39.09258	-80.34876
WV AP-1-056	19.9	Field Survey	slab023	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Buchanan Run	Intermittent	4	na	129	na	na	na	Perm AR - Stream Crossing	na	na	na	na	UNT to B. I.	39.03471	-80.34564
WV AP-1-057	19.9	Field Survey	wies11e	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PEM	0.02	0	0	na	39.04464	-80.35564
WV AP-1-058	20.2	Field Survey	wies006e	Lewis County	05020002	Perm AR	na	Wetland	na	114	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0.09	0.09	na	39.05825	-80.33263
WV AP-1-059	20.3	Field Survey	slab018	Lewis County	05020002	Perm ROW, Temp ROW	Buchanan Run	Perennial	6	na	9	na	na	na	Perm AR - Stream Crossing	na	na	na	na	B. I.	39.02467	-80.32897

TABLE 2.6-1

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single Crossing Project ID	NP	Presidential or State Field Survey	Feature ID	County	HUC8	Project Facility	Waterbody Name	Waterbody Regime	Waterbody Crossing	WB Access Road Crossing	Affected Bank Length Wetlands (feet)	Permanent Affected Bank Length Access Road (feet)	Temporary Affected Bank Length Access Road (feet)	Permanent Waterbody Impact (feet)	Construction Method	Coverditch Class	Wetland Impact (feet)	Wetland Conversion (feet)	Wetland Loss (feet)	State Regulatory Class	Latitude	Longitude	
WV AP-1-053	24.0	Field Survey	wpab019	Lewis County	05020002	Perm ROW, Temp ROW	UNT to Back Bay Fork	Intermittent	3	na	148	na	na	na	Dam and Pump or Flume	na	na	na	na	na	UNT to B1	39.03410	-80.23405
WV AP-1-054	24.7	Field Survey	wpab121	Lewis County	05020002	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PFO	0.01	0	0	na	na	39.02359	-80.23297
WV AP-1-055	24.3	Field Survey	wpab001	Upshur County	05020001	Perm ROW, Temp ROW	Fork Run	Perennial	10	na	125	na	na	na	Dam and Pump or Flume	na	na	na	na	B1	39.01085	-80.25250	
WV AP-1-056	24.0	Field Survey	wpab104	Upshur County	05020001	Temp AR	na	Wetland	na	na	0	0	0	na	Temp AR - Temporary Wetland Crossing	PEM	<0.01	0	0	na	na	39.00345	-80.28828
WV AP-1-057	24.0	Field Survey	wpab005	Upshur County	05020001	Perm ROW, Temp AR, Temp ROW	na	Wetland	54	46	0	0	0	na	Open Cut - Wetland/Temp AR - Temporary Wetland Crossing	PEM	0.06	0	0	na	na	39.00210	-80.29111
WV AP-1-058	24.0	Field Survey	wpab002	Upshur County	05020001	Perm ROW, Temp AR, Temp ROW	UNT to Fork Run	Intermittent	4	3	32	0	31	0	Dam and Pump or Flume/Temp AR - Temporary Stream Crossing	na	na	na	na	na	UNT to B1	39.00205	-80.29119
WV AP-1-059	24.3	Field Survey	wpab002	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	12	na	0	na	na	na	Open Cut - Wetland	PEM	0.01	0	0	na	na	38.99820	-80.28845
WV AP-1-060	24.6	Field Survey	wpab003	Upshur County	05020001	Perm ROW, Temp ROW	UNT to Back Bay Fork	Intermittent	4	na	225	na	na	na	Dam and Pump or Flume	na	na	na	na	na	UNT to B1	38.99398	-80.28773
WV AP-1-061	24.7	Field Survey	wpab004	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	39	na	0	na	na	na	Open Cut - Wetland	PEM	0.02	0	0	na	na	38.99319	-80.28775
WV AP-1-062	24.7	Field Survey	wpab005	Upshur County	05020001	Perm ROW, Temp ROW	UNT to Back Bay Fork	Intermittent	2	na	78	na	na	na	Dam and Pump or Flume	na	na	na	na	na	UNT to B1	38.99317	-80.28773
WV AP-1-063	24.4	Field Survey	wpab006	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	44	na	0	na	na	na	Open Cut - Wetlands	PEM	0.03	0	0	na	na	38.98438	-80.28450
WV AP-1-064	24.4	Field Survey	wpab001	Upshur County	05020001	Perm AR	UNT to Back Bay Fork	Intermittent	1	na	90	na	na	na	Dam and Pump or Flume	na	na	na	na	na	UNT to B1	38.98436	-80.28437
WV AP-1-065	24.7	Field Survey	wpab002	Upshur County	05020001	Temp ROW	na	Wetland	na	na	0	na	0	na	Dam and Pump or Flume	na	na	na	na	na	UNT to B1	38.98444	-80.28541
WV AP-1-066	24.8	Field Survey	wpab003	Upshur County	05020001	Perm ROW, Temp ROW	UNT to Back Bay Fork	Intermittent	2	na	125	na	na	na	Not Covered by Centerline	PEM	<0.01	0	0	na	na	38.98213	-80.27824
WV AP-1-067	24.9	Field Survey	wpab005	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	424	na	0	na	na	na	Open Cut - Wetland	PEM	0.25	0	0	na	na	38.98058	-80.27559
WV AP-1-068	24.9	Field Survey	wpab004	Upshur County	05020001	Perm ROW, Temp ROW	Back Bay Fork	Perennial	16	na	87	na	na	na	Flume or Dam and Pump	na	na	na	na	B1	38.98032	-80.27538	
WV AP-1-069	24.9	Field Survey	wpab004	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	863	na	0	na	na	na	Open Cut - Wetland	PEM	0.49	0	0	na	na	38.97950	-80.27428
WV AP-1-070	24.9	Field Survey	wpab005	Upshur County	05020002	Perm ROW, Temp ROW	na	Wetland	71	na	0	na	na	na	Open Cut - Wetland	PEM	0.03	0	0	na	na	38.97412	-80.27148
WV AP-1-071	24.9	Field Survey	wpab006	Upshur County	05020002	Perm ROW, Temp ROW	na	Wetland	39	na	0	na	na	na	Open Cut - Wetland	PEM	0.03	0	0	na	na	38.97302	-80.26920
WV AP-1-072	24.4	Field Survey	wpab005	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	8	na	0	na	na	na	Open Cut - Wetlands	PEM	<0.01	0	0	na	na	38.97046	-80.26744
WV AP-1-073	24.4	Field Survey	wpab005	Upshur County	05020001	Perm ROW, Temp ROW	UNT to Lock Run	Intermittent	2	na	131	na	na	na	Dam and Pump or Flume	na	na	na	na	na	UNT to B1	38.95391	-80.25326
WV AP-1-074	24.5	Field Survey	wpab001	Upshur County	05020001	Temp ROW	UNT to Lock Run	Open Water	na	na	12	na	na	na	Pond	na	na	na	na	na	UNT to B1	38.95351	-80.25313
WV AP-1-075	24.9	Field Survey	wpab006	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	55	na	0	na	na	na	Open Cut - Wetland	PEM	0.01	0	0	na	na	38.94540	-80.25101
WV AP-1-076	24.2	Field Survey	wpab006	Upshur County	05020001	Perm ROW, Temp ROW	Crnight Run	Perennial	23	na	221	na	na	na	Dam and Pump or Flume	na	na	na	na	B1	38.94499	-80.25169	

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single Complete Project ID	MP	Provisional or Survey	Feature ID	County	HUC 8	Project Facility Crossed	Waterbody Name	Waterbody Acquire	Waterbody Crossing (feet)	WE Access Road Centerline Crossing (feet)	Affected Bank Length Workspace (feet)	Permanent Affected Bank Length Across Road (feet)	Temporary Affected Bank Length Across Road (feet)	Permanent Waterbody Impact (feet)	Construction Method	Construction Class	Wetland Conversion (acres)	Wetland Loss (acres)	State Regulatory Class	Latitude	Longitude
WV AP-1 - 072	25.3	Field Survey	wsp0072	Upshur County	05020001	Perm AR, Perm ROW, Temp ROW	na	Wetland	97	38	0	0	0	na	Open Cut - Wetland/Perm AR - Land Loss	PEM	0	0.02	na	38.94333	-80.25931
WV AP-1 - 073	29.3	Field Survey	wsp0073	Upshur County	05020001	Perm AR	UNT to Channel Run	Intermittent	na	na	0	52	0	<0.01	Perm AR - Add Culvert	na	na	na	UNT to B1	38.94553	-80.25931
WV AP-1 - 074	29.9	Field Survey	wsp0074	Upshur County	05020001	Perm ROW, Temp ROW	UNT to French Creek	Perennial	6	na	77	na	na	na	Flume or Dam and Pump	na	na	na	UNT to B2, HQS	38.93442	-80.24959
WV AP-1 - 075	30.5	Field Survey	wsp0075	Upshur County	05020001	Perm ROW, Temp ROW	UNT to French Creek	Perennial	na	na	91	na	na	na	Not Crossed by Centerline	na	na	na	UNT to B2, HQS	38.92920	-80.24859
WV AP-1 - 076	30.6	Field Survey	wsp0076	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	3	na	0	na	na	na	Open Cut - Wetland	PEM	0	0	na	38.92918	-80.24912
WV AP-1 - 076	30.9	Field Survey	wsp0076	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	21	na	0	na	na	na	Open Cut - Wetland	PEM	0	0	na	38.92642	-80.24447
WV AP-1 - 077	30.9	Field Survey	wsp0077	Upshur County	05020001	Perm ROW, Temp ROW	UNT to French Creek	Intermittent	3	na	107	na	na	na	Dam and Pump or Flume	na	na	na	UNT to B2, HQS	38.92445	-80.24438
WV AP-1 - 077	31.1	Field Survey	wsp0077	Upshur County	05020001	Perm ROW, Temp ROW	French Creek	Perennial	39	na	126	na	na	na	Collidam	na	na	na	B2, HQS	38.92019	-80.24017
WV AP-1 - 078	31.3	Field Survey	wsp0078	Upshur County	05020001	Perm AR	na	Wetland	na	18	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0.01	na	38.92650	-80.23756
WV AP-1 - 079	31.7	Field Survey	wsp0079	Upshur County	05020001	Perm ROW, Temp ROW	Bookhannon River	Perennial	89	na	125	na	na	na	Collidam	na	na	na	A, B2, HQS	38.92409	-80.23477
WV AP-1 - 080	32.1	Field Survey	wsp0080	Upshur County	05020001	Perm ROW, Temp ROW	UNT to Tribble Run	Intermittent	6	na	143	na	na	na	Dam and Pump or Flume	na	na	na	UNT to B1	38.92498	-80.22819
WV AP-1 - 081	33.0	Field Survey	wsp0081	Upshur County	05020001	Perm AR, Perm ROW, Temp ROW	UNT to Tribble Run	Perennial	5	na	126	0	68	na	Perm AR - Existing Culvert Clean Out Temporary Stream Impact	na	na	na	UNT to B1	38.92151	-80.21111
WV AP-1 - 082	33.0	Field Survey	wsp0082	Upshur County	05020001	Perm AR	Tribble Run	Perennial	na	na	0	0	0	0	Perm AR - Existing Culvert Clean Out Temporary Stream Impact	na	na	na	B1	38.92267	-80.21172
WV AP-1 - 083	34.1	Field Survey	wsp0083	Upshur County	05020001	Perm ROW, Temp ROW	Bookhannon Run	Epithermal	3	na	150	na	na	na	Dam and Pump or Flume	na	na	na	UNT to B1	38.92808	-80.20956
WV AP-1 - 084	34.4	Field Survey	wsp0084	Upshur County	05020001	Perm ROW, Temp ROW	Grassy Run	Perennial	25	na	129	na	na	na	Flume or Dam and Pump	na	na	na	B1	38.92385	-80.20277
WV AP-1 - 085	34.5	Field Survey	wsp0085	Upshur County	05020001	Perm AR	Gravel Run	Perennial	na	16	0	23	0	0.01	Perm AR - Stream Impact	na	na	na	B1	38.89227	-80.19355
WV AP-1 - 086	36.1	Field Survey	wsp0086	Upshur County	05020001	Perm AR, Perm ROW, Temp ROW	na	Wetland	19	67	0	0	0	na	Open Cut - Wetland/Perm AR - Wetland Loss	PFO	0.02	0.02	na	38.88689	-80.18968
WV AP-1 - 087	36.1	Field Survey	wsp0087	Upshur County	05020001	Perm ROW, Temp ROW	Gravel Run	Perennial	21	na	79	na	na	na	Flume or Dam and Pump	na	na	na	B1	38.88699	-80.18956
WV AP-1 - 088	36.1	Field Survey	wsp0088	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	16	na	0	na	na	na	Open Cut - Wetland	PFO	0.02	0	na	38.88658	-80.18921
WV AP-1 - 088	36.1	Field Survey	wsp0088	Upshur County	05020001	Perm ROW, Temp ROW	UNT to Gravel Run	Intermittent	5	na	85	na	na	na	Dam and Pump or Flume	na	na	na	UNT to B1	38.88690	-80.18929
WV AP-1 - 088	36.4	Field Survey	wsp0088	Upshur County	05020001	Perm AR	Landed Run	Perennial	na	22	0	34	0	0.02	Perm AR - Stream Impact	na	na	na	B1	38.89125	-80.18199
WV AP-1 - 088	36.3	Field Survey	wsp0088	Upshur County	05020001	Perm AR, Perm ROW, Temp ROW	Landed Run	Perennial	21	na	141	0	0	<0.01	Dam and Pump or Flume/Perm AR - Replace Culvert	na	na	na	B1	38.88830	-80.18456
WV AP-1 - 088	36.8	Field Survey	wsp0088	Upshur County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PEM	0	<0.01	na	38.88025	-80.18427

TABLE 2-01

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipelines within the U.S. Army Corps of Engineers - Pittsburgh District

Single Complete Project ID	MP	Precedence Survey	Feature ID	County	HUCs	Project Facility	Watershed Name	Waterbody Regime	Waterbody Centerline Crossing (ft)	WB Access Road Centerline Crossing (ft)	Affected Bank Length (ft)	Permanent Affected Bank Length (ft)	Temporary Affected Bank Length (ft)	Permanent Waterbody Impact (acres)	Construction Method	Construction Class	Wetland Impairment (acres)	Wetland Conversion (acres)	Wetland Loss (acres)	State Regulatory Class	Latitude	Longitude
WV AP-1-089	37.0	Field Survey	wap056	Upshur County	05020001	Temp AR	na	Wetland	na	87	0	0	0	na	Temp AR - Temporary Wetland Crossing	PEM	0.07	0	0	na	38.87603	-80.18245
WV AP-1-090	37.1	Field Survey	wap053	Upshur County	05020001	Temp AR	UNT to Tennesse Creek	Intermittent	na	0	0	0	42	0	Temp AR - Temporary Stream Crossing	na	na	na	na	UNT to HQS, UNT to HQS, Coldwater (Brook/Rainbow Trout)	38.87672	-80.18148
WV AP-1-091	37.8	Field Survey	wap016	Upshur County	05020001	Perma ROW, Temp AR, Temp ROW	Tennessee Creek	Perennial	17	7	128	0	58	0	Dam and Pump or Flume/Temp AR - Temporary Stream Crossing	na	na	na	na	HQS, Coldwater (Brook/Rainbow Trout)	-38.87153	-80.17568
WV AP-1-092	37.8	Field Survey	wap056	Upshur County	05020001	Perma AR, Temp AR	na	Wetland	na	15	0	0	0	na	Perma AR - Wetland, Temp AR - Temporary Wetland Crossing	PEM	0	0	-0.01	na	38.87163	-80.17474
WV AP-1-093	37.8	Field Survey	wap002	Upshur County	08020001	Temp AR	UNT to Tennesse Creek	Open Water	na	na	0	0	0	0	Flood/Temp AR - Temporary Crossing	na	na	na	na	Unassigned Pond to HQS	38.87119	-80.17438
WV AP-1-094	37.9	Field Survey	wap017	Upshur County	05020001	Perma ROW, Temp ROW	UNT to Tennesse Creek	Intermittent	8	na	126	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.86975	-80.17561
WV AP-1-095	37.9	Field Survey	wap009	Upshur County	05020001	Temp ROW	Unassigned Pond	Open Water	na	na	0	na	na	na	Pond	na	na	na	na	na	38.86917	-80.17596
WV AP-1-096	37.9	Field Survey	wap011e	Upshur County	05020001	Perma ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PEM	-0.01	0	0	na	38.86938	-80.17534
WV AP-1-097	39.4	Field Survey	wap012e	Upshur County	05020001	Perma ROW, Temp ROW	na	Wetland	139	na	0	na	na	na	Open Cut - Wetland	PEM	0.01	0	0	na	38.85448	-80.16380
WV AP-1-098	39.6	Field Survey	wap015f	Upshur County	05020001	Temp ROW	na	Wetland	na	na	0	na	na	na	No Crossed by Centerline	PFO	-0.01	0	0	na	38.85537	-80.15924
WV AP-1-099	40.5	Field Survey	wap013	Upshur County	05020001	Perma ROW, Temp ROW	Tennessee Creek	Intermittent	8	na	159	na	na	na	Dam and Pump or Flume	na	na	na	na	HQS, UNT to Coldwater (Brook Trout)	38.85318	-80.15900
WV AP-1-100	40.7	Field Survey	wap012	Upshur County	05020001	Perma ROW, Temp ROW	UNT to Long Run	Intermittent	2	na	139	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to B1	38.84775	-80.14482
WV AP-1-101	41.3	Field Survey	wap015	Upshur County	05020001	Perma ROW, Temp ROW	Right Fork Middle Fork River	Intermittent	5	na	119	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to B1	38.84692	-80.14190
WV AP-1-102	41.3	Field Survey	wap011e	Upshur County	05020001	Perma ROW, Temp ROW	na	Perennial	44	na	130	na	na	na	Flume or Conduitan	na	na	na	na	B2, HQS (Brook Trout)	38.84036	-80.13496
WV AP-1-103	45.4	Field Survey	wap011e	Randolph County	05020001	Perma ROW, Temp ROW	na	Wetland	23	na	0	na	na	na	Open Cut - Wetland	PEM	0.01	0	0	na	38.84052	-80.13406
WV AP-1-104	47.0	Field Survey	wap013	Randolph County	05020001	Perma ROW, Temp ROW	UNT to Long Run	Intermittent	4	na	128	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to Coldwater (Brook/Brown Trout)	38.79708	-80.09547
WV AP-1-105	47.1	Field Survey	wap066	Randolph County	05020001	Perma ROW, Temp ROW	UNT to Long Run	Intermittent	4	na	132	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.77511	-80.09487
WV AP-1-106	47.3	Field Survey	wap04e	Randolph County	05020001	Perma ROW, Temp ROW	na	Wetland	22	na	0	na	na	na	Flume or Dam and Pump	na	na	na	na	na	38.77212	-80.09229
WV AP-1-107	47.4	Field Survey	wap014	Randolph County	05020001	Perma ROW, Temp ROW	UNT to Sugar Run	Intermittent	5	na	129	na	na	na	Open Cut - Wetland	PEM	0.01	0	0	na	38.76987	-80.09220
WV AP-1-108	47.4	Field Survey	wap05e	Randolph County	05020001	Perma ROW, Temp ROW	na	Wetland	22	na	0	na	na	na	Open Cut - Wetland	PEM	0.02	0	0	na	38.76978	-80.09196

TABLE 2.2-1

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single Complete Project ID	MSP	Previdential or Survey	Feature ID	County	HUC8	Project Facility Crossed	Waterbody Name	Waterbody Description	Waterbody Centerline Crossing (feet)	Y/B Access Road Centerline Crossing (feet)	Affected Bank Length Workshop (feet)	Permanent Affected Bank Length Access Road (feet)	Temporary Affected Bank Length Access Road (feet)	Permanent Waterbody Impact (feet)	Construction Method	Cowardin Class	Wetland Impact (acres)	Wetland Conversion (acres)	Wetland Loss (acres)	State Regulatory Class	Latitude	Longitude
WV AP-1-108	48.4	Field Survey	wa04028	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PEM	0.03	0	0	na	38.75334	-80.09976
WV AP-1-109	48.3	Field Survey	wa04096	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	na	Wetland	61	na	0	0	0	na	Open Cut - Wetland	PEM	0.03	0	0	na	38.74565	-80.10161
WV AP-1-110	50.2	Field Survey	wa04096	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	57	na	0	na	na	na	Open Cut - Wetland	PEM	0.04	0	0	na	38.72240	-80.10970
WV AP-1-111	50.2	Field Survey	wa04100	Randolph County	05020001	Perm ROW, Temp ROW	na	Intermittent	na	na	61	na	na	na	Not Crossed by Centerline	na	na	na	na	UNT to B1	38.72213	-80.10986
WV AP-1-112	50.3	Field Survey	wa04101e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	21	na	0	na	na	na	Open Cut - Wetland	PEM	0.03	0	0	na	38.72046	-80.11006
WV AP-1-113	50.3	Field Survey	wa04502	Randolph County	05020001	Perm AR	na	Wetland	na	58	0	0	0	na	Open Cut - Wetland	PFO	0	0	0	na	38.71938	-80.10852
WV AP-1-114	50.4	Field Survey	wa0401	Randolph County	05020001	Perm ROW, Temp ROW	na	Intermittent	6	na	159	na	na	na	Perm AR - Wetland	na	na	na	na	UNT to B1	38.71937	-80.11040
WV AP-1-115	50.4	Field Survey	wa0402	Randolph County	05020001	Perm ROW, Temp ROW	na	Intermittent	3	na	71	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to B1	38.71920	-80.11034
WV AP-1-116	50.5	Field Survey	wa0427	Randolph County	05020001	Perm AR	na	Intermittent	na	19	0	39	0	0.01	Stream Impact	na	na	na	na	B1	38.71563	-80.10759
WV AP-1-117	50.5	Field Survey	wa0403	Randolph County	05020001	Perm ROW, Temp ROW	na	Intermittent	23	na	129	na	na	na	Dam and Pump or Flume	na	na	na	na	B1	38.71629	-80.11234
WV AP-1-118	50.6	Field Survey	wa0409	Randolph County	05020001	Temp ROW	na	Intermittent	na	na	11	na	na	na	Not Crossed by Centerline	na	na	na	na	UNT to B1	38.71526	-80.11362
WV AP-1-119	50.7	Field Survey	wa0402f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	16	na	0	na	na	na	Open Cut - Wetland	PFO	0.02	0	0	na	38.71278	-80.11414
WV AP-1-120	50.8	Field Survey	wa0401	Randolph County	05020001	Perm ROW, Temp ROW	na	Intermittent	4	na	82	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to B1	38.71264	-80.11387
WV AP-1-121	50.8	Field Survey	wa0402	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	na	Intermittent	7	na	130	0	0	na	Not Crossed by Centerline	na	na	na	na	UNT to B1	38.71163	-80.11427
WV AP-1-122	50.8	Field Survey	wa0408e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	11	na	0	na	na	na	Dam and Pump or Flume	PEM	0.01	0	0	na	38.71145	-80.11402
WV AP-1-123	50.9	Field Survey	wa0401e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	16	na	0	na	na	na	Open Cut - Wetland	PEM	0.01	0	0	na	38.71128	-80.11340
WV AP-1-124	50.9	Field Survey	wa0404f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	31	na	0	na	na	na	Open Cut - Wetland	PFO	0.02	0	0	na	38.71055	-80.11353
WV AP-1-125	50.9	Field Survey	wa0404e	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	na	Wetland	124	556	0	0	0	na	Open Cut - Wetland/Perm AR - Wetland	PEM	0.06	0	0.20	na	38.70955	-80.11333
WV AP-1-126	50.9	Field Survey	wa0402	Randolph County	05020001	Perm ROW, Temp ROW	na	Intermittent	4	na	127	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to B1	38.70853	-80.11256
WV AP-1-127	51.0	Field Survey	wa0405f	Randolph County	05020001	Temp ROW	na	Wetland	na	na	0	na	na	na	Not Crossed by Centerline	PFO	0.05	0	0	na	38.70707	-80.11245
WV AP-1-128	51.2	Field Survey	wa0406e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	14	na	0	na	na	na	Open Cut - Wetland	PEM	<0.01	0	0	na	38.70455	-80.11345
WV AP-1-129	51.2	Field Survey	wa0407e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	11	na	0	na	na	na	Open Cut - Wetland	PEM	<0.01	0	0	na	38.70449	-80.11380
WV AP-1-130	51.3	Field Survey	wa0407	Randolph County	05020001	Perm AR	na	Ephemeral	na	2	0	41	0	<0.01	Stream Impact	na	na	na	na	UNT to B1	38.70253	-80.11235
WV AP-1-131	51.4	Field Survey	wa0408	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	2	0	32	0	<0.01	Stream Impact	na	na	na	na	UNT to B1	38.70281	-80.11565
WV AP-1-132	51.4	Field Survey	wa0409e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PFO	0.03	<0.01	0	na	38.70139	-80.11557
WV AP-1-133	51.4	Field Survey	wa0405	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	na	Intermittent	4	na	213	0	0	na	Not Crossed by Centerline	PEM	0.02	0	0	na	38.70065	-80.11598
WV AP-1-134	51.4	Field Survey	wa0410f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	29	na	0	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to B1	38.70034	-80.11594
WV AP-1-135	51.5	Field Survey	wa0425f	Randolph County	05020001	Perm AR	na	Wetland	na	33	0	0	0	na	Open Cut - Wetland	PFO	0.01	0	0	na	38.69998	-80.11612
WV AP-1-136	51.5	Field Survey	wa0425f	Randolph County	05020001	Perm AR	na	Wetland	na	33	0	0	0	na	Open Cut - Wetland/Perm AR - Wetland	PEM	0	0	0.02	na	38.70115	-80.11850

TABLE 2.0-1

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single Complete Project ID	MP	Provisional or Survey	Feature ID	County	HUC 8	Project Facility Crossed	Waterbody Name	Waterbody Regime	Waterbody Centerline Crossing (feet)	WB Access Road Centerline Crossing (feet)	Affected Bank Length Workpiece (feet)	Permanent Affected Bank Length Access Road (feet)	Temporary Affected Bank Length Access Road (feet)	Permanent Waterbody Impact (acres)	Construction Method #	Cowardin Class	Wetland Temporary Impact (acres)	Wetland Conversion (acres)	Wetland Loss (acres)	Shore Regulatory Class	Latitude	Longitude
WV AP-1-123	51.3	Field Survey	wms411f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	30	na	0	na	na	na	Open Cut - Wetland	PFO	-0.01	0.03	0	na	38.69847	-80.11807
WV AP-1-124	51.6	Field Survey	wms412f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	30	na	0	na	na	na	Open Cut - Wetland	PFO	0.01	0.03	0	na	38.69820	-80.11819
WV AP-1-125	51.6	Field Survey	wms407	Randolph County	05020001	Perm ROW, Temp ROW	UNT to Lost Run	Intermittent	6	na	138	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to B1	38.69796	-80.11803
WV AP-1-126	51.6	Field Survey	wms413f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	14	na	0	na	na	na	Open Cut - Wetland	PFO	0.01	0.01	0	na	38.69696	-80.11793
WV AP-1-127	51.7	Field Survey	wms414e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	8	na	0	na	na	na	Open Cut - Wetland	PBM	0.01	0	0	na	38.69523	-80.11941
WV AP-1-128	51.8	Field Survey	wms418e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PBM	0.01	0	0	na	38.69487	-80.12040
WV AP-1-129	51.9	Field Survey	wms417e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	18	na	0	na	na	na	Open Cut - Wetland	PBM	-0.01	0	0	na	38.69395	-80.12246
WV AP-1-130	52.0	Field Survey	wms416e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PBM	-0.01	0	0	na	38.69215	-80.12448
WV AP-1-131	52.0	Field Survey	wms415f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	30	na	0	na	na	na	Open Cut - Wetland	PFO	0.01	0.05	0	na	38.69133	-80.12542
WV AP-1-132	52.1	Field Survey	wms420	Randolph County	05020001	Perm AR	Beach Run	Perennial	na	23	0	0	na	na	Open Cut - Wetland	na	na	na	HQS Coldwater (Book Trout)	38.68942	-80.13214	
WV AP-1-133	52.1	Field Survey	wms420f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	31	na	0	na	na	na	Open Cut - Wetland	PFO	0.02	0.03	0	na	38.69009	-80.12697
WV AP-1-134	52.1	Field Survey	wms408	Randolph County	05020001	Perm ROW, Temp ROW	Beach Run	Perennial	27	na	130	na	na	na	Dam and Pump or Flume	na	na	na	HQS Coldwater (Book Trout)	38.68979	-80.12691	
WV AP-1-135	52.2	Field Survey	wms424e	Randolph County	05020001	Perm AR	na	Wetland	na	19	0	0	na	na	Open Cut - Wetland	PSS	0.01	0	0	na	38.69090	-80.13068
WV AP-1-136	52.2	Field Survey	wms423e	Randolph County	05020001	Perm AR	na	Wetland	na	132	0	0	na	na	Open Cut - Wetland	PSS	0.08	0	0	na	38.68996	-80.12949
WV AP-1-137	52.2	Field Survey	wms425e	Randolph County	05020001	Perm AR, Temp ROW	na	Wetland	na	56	0	0	na	na	Open Cut - Wetland/Perm AR	PBM	0.04	0	0	na	38.68925	-80.12859
WV AP-1-138	52.3	Field Survey	wms435e	Randolph County	05020001	Perm AR	na	Wetland	na	114	0	0	na	na	Open Cut - Wetland	PBM	0.08	0	0	na	38.68528	-80.12847
WV AP-1-139	52.3	Field Survey	wms422e	Randolph County	05020001	Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PBM	-0.01	0	0	na	38.68658	-80.13007
WV AP-1-140	52.5	Field Survey	wms421	Randolph County	05020001	Perm AR	UNT to Beach Run	Intermittent	na	3	0	0	287	0	Open Cut - Wetland	na	na	na	UNT to FQS, Coldwater (Book Trout)	38.68359	-80.12923	
WV AP-1-141	52.8	Field Survey	wms422	Randolph County	05020001	Perm AR	UNT to Beach Run	Intermittent	na	32	0	0	479	0	Open Cut - Wetland	na	na	na	UNT to FQS, Coldwater (Book Trout)	38.67914	-80.13114	
WV AP-1-142	53.0	Field Survey	wms428e	Randolph County	05020001	Perm AR	na	Wetland	na	27	0	0	0	na	Open Cut - Wetland	PBM	0	0	0.01	na	38.67432	-80.13409
WV AP-1-143	53.1	Field Survey	wms426e	Randolph County	05020001	Perm AR	na	Wetland	na	21	0	0	0	na	Open Cut - Wetland	PBM	0	0	0.01	na	38.67177	-80.13270
WV AP-1-144	53.3	Field Survey	wms421e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	70	na	0	na	na	na	Open Cut - Wetland	PBM	0.03	0	0	na	38.66938	-80.13436
WV AP-1-145	53.7	Field Survey	wms428e	Randolph County	05020001	Perm AR	na	Wetland	na	23	0	0	0	na	Open Cut - Wetland	PBM	0	0	0.01	na	38.65991	-80.13185
WV AP-1-146	53.7	Field Survey	wms426e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	29	na	0	na	na	na	Open Cut - Wetland	PBM	0.01	0	0	na	38.66043	-80.13747
WV AP-1-147	54.0	Field Survey	wms409e	Randolph County	05020001	Perm AR	na	Wetland	na	31	0	0	0	na	Open Cut - Wetland	PBM	0	0	0.02	na	38.66932	-80.14612

TABLE 2.4-1

Single and Complete Crossings of Waters of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single Crossing Project ID#	MP	Provisional Survey#	Feature ID#	County	HUC#	Project Facility	Watershed Name	Watershed Regime	Watershed Crossing	WB Access Road	Affected Bank Length	Permanent Affected Bank Length	Temporary Affected Bank Length	Permanent Waterbody Impact	Construction Method	Construction Class	Wetland Conversion	Wetland Loss	State Regulatory Class	Latitude	Longitude
WV AP-1-158	54.1	Field Survey	sm119	Randolph County	05020001	Perm AR	Left Fork Buckhannon River	Perennial	na	49	0	32	0	0.01	Perm AR - Add Culvert	na	na	na	HQS, Coldwater (Brook Trout)	38.65173	-80.15098
WV AP-1-159	54.1	Field Survey	sm125	Randolph County	05020001	Perm AR	Left Fork Buckhannon River	Perennial	na	18	0	54	0	0.02	Perm AR - Stream Impact	na	na	na	HQS, Coldwater (Brook Trout)	38.65184	-80.15141
WV AP-1-160	54.1	Field Survey	sm126	Randolph County	05020001	Perm AR	Left Fork Buckhannon River	Intermittent	na	12	0	0	46	0	Perm AR - Temporary Stream Crossing	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.65197	-80.15090
WV AP-1-161	54.2	Field Survey	sm113e	Randolph County	05020001	Perm AR	Left Fork Buckhannon River	Wetland	na	na	0	0	0	na	Perm AR - Wetland Loss	PBM	0	0.02	na	38.65097	-80.15179
WV AP-1-162	54.3	Field Survey	sm429e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PBM	0	0	na	38.65661	-80.14944
WV AP-1-163	54.3	Field Survey	sm124	Randolph County	05020001	Perm AR	Left Fork Buckhannon River	Perennial	na	3	0	0	12	0	Perm AR - Temporary Stream Crossing	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.65689	-80.15166
WV AP-1-164	54.3	Field Survey	sm409	Randolph County	05020001	Perm ROW, Temp ROW	Phillips Camp Run	Perennial	na	na	131	na	na	na	Perm AR - Temporary Stream Crossing	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.65570	-80.14992
WV AP-1-165	54.4	Field Survey	sm438e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Dam and Pump or Flume	na	na	na	HQS, Coldwater (Brook Trout)	38.65544	-80.15015
WV AP-1-166	55.0	Field Survey	sm111	Randolph County	05020001	Perm ROW, Temp ROW	Short Run	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PSS	-0.01	0	na	38.64436	-80.15511
WV AP-1-167	55.1	Field Survey	sm400c	Randolph County	05020001	Perm ROW, Temp ROW	na	Perennial	na	na	149	na	na	na	Dam and Pump or Flume	na	na	na	UNT to BI	38.64421	-80.15533
WV AP-1-168	55.1	Field Survey	sm128	Randolph County	05020001	Perm AR	Left Fork Buckhannon River	Perennial	na	21	0	0	36	0	Perm AR - Temporary Stream Crossing	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.64274	-80.14689
WV AP-1-169	55.1	Field Survey	sm129	Randolph County	05020001	Perm AR	Long Run	Intermittent	na	19	0	0	41	0	Perm AR - Temporary Stream Crossing	na	na	na	HQS, Coldwater (Brook Trout)	38.63747	-80.15035
WV AP-1-170	55.3	Field Survey	sm401	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	Long Run	Intermittent	na	na	133	0	0	na	Dam and Pump or Flume	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.63771	-80.15672
WV AP-1-171	55.3	Field Survey	sm401	Randolph County	05020001	Perm ROW, Temp ROW	Long Run	Intermittent	na	na	133	na	na	na	Dam and Pump or Flume	na	na	na	UNT to HQS, Coldwater (Brook Trout)	38.63753	-80.15725
WV AP-1-172	55.3	Field Survey	sm402c	Randolph County	05020001	Temp ROW	na	Wetland	na	na	0	na	na	na	Not Crossed by Conduit	PBM	0	0	na	38.63761	-80.15698
WV AP-1-173	55.3	Field Survey	sm402	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	Long Run	Perennial	na	na	128	0	38	0	Perm AR - Existing Culvert Clean Out Temporary Stream Impact	na	na	na	HQS, Coldwater (Brook Trout)	38.63932	-80.16065
WV AP-1-174	55.9	Field Survey	sm407e	Randolph County	05020001	Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PBM	-0.01	0	na	38.63725	-80.15731
WV AP-1-175	55.9	Field Survey	sm408e	Randolph County	05020001	Perm ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PBM	0.01	0	na	38.62817	-80.15627
WV AP-1-176	56.0	Field Survey	sm409e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	0	na	na	na	Not Crossed by Conduit	PBM	-0.01	0	na	38.62610	-80.15578
WV AP-1-177	56.0	Field Survey	sm411c	Randolph County	05020001	Temp ROW	na	Wetland	na	na	0	na	na	na	Open Cut - Wetland	PBM	0.01	0	na	38.62551	-80.15531
WV AP-1-178	56.0	Field Survey	sm411c	Randolph County	05020001	Temp ROW	na	Wetland	na	na	0	na	na	na	Not Crossed by Conduit	PBM	-0.01	0	na	38.62388	-80.15517



TABLE 2.0-1

Single and Complete Crossings or Waders of the U.S. for the Atlantic Coast Pipeline within the U.S. Army Corps of Engineers - Pittsburgh District

Single and Complete Project ID	DFP	Provisional Survey	Feature ID	County	HUC8	Project Facility Category	Waterbody Name	Waterbody Begins	Waterbody Crossing	Waterbody Centerline Crossing	WB Access Road Crossing	Affected Bank Length Workpiece (feet)	Permanent Affected Bank Length Access Road (feet)	Temporary Affected Bank Length Access Road (feet)	Permanent Waterbody Impact (feet)	Construction Method	Cowardin Class <sup>a</sup>	Wetland Temporary Impact (feet)	Wetland Conversion (acres)	Wetland Loss (acres)	State Regulatory Class	Latitude	Longitude
WV AP-1 - 178	56.1	Field Survey	wsp012e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	133	na	na	0	na	na	na	Open Cut - Wetland	PEM	0.10	0	na	na	38.62347	-80.15607
WV AP-1 - 179	56.1	Field Survey	wsp007	Randolph County	05020001	Perm ROW, Temp ROW	UNT to Left Blockhouse n R.	Intermittent	4	na	na	273	na	na	na	Dam and Pump	na	na	na	na	UNT to HQS, UNT to Colander (Brook Trout)	38.62186	-80.15582
WV AP-1 - 180	63.0	Field Survey	wes2085e	Randolph County	05020001	Perm AR	na	Wetland	na	na	na	0	0	0	na	Perm AR - Wetland Loss	PEM	0	0.07	na	38.51217	-80.10710	
WV AP-1 - 181	63.0	Field Survey	wes214e	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	na	Wetland	77	34	na	0	0	0	na	Open Cut - Wetland AR - Wetland Loss	PEM	0.02	0	na	38.51096	-80.10726	
WV AP-1 - 182	63.2	Field Survey	wes212e	Randolph County	05020001	Perm AR, Perm ROW, Temp ROW	na	Wetland	15	na	na	0	0	0	na	Open Cut - Wetland	PEM	-0.01	0	na	38.50669	-80.10489	
WV AP-1 - 183	63.3	Field Survey	wes213f	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	na	na	na	0	na	na	na	Open Cut - Wetland	PFO	-0.01	0	na	38.50648	-80.10471	
WV AP-1 - 184	63.5	Field Survey	wes211e	Randolph County	05020001	Perm ROW, Temp ROW	na	Wetland	27	na	na	0	na	na	na	Open Cut - Wetland	PEM	0.01	0	na	38.50250	-80.10217	
WV AP-1 - 185	63.8	Field Survey	wes210e	Randolph County	05020001	Perm ROW	na	Wetland	26	na	na	0	na	na	na	Open Cut - Wetland	PEM	0	0	na	38.50085	-80.09515	
WV AP-1 - 186	65.3	Field Survey	smo112	Randolph County	05020001	Perm ROW, Temp ROW	UNT to Mingo Run	Intermittent	19	na	na	164	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to Colander (Brook Trout)	38.48621	-80.08911
WV AP-1 - 187	65.5	Field Survey	smo124	Randolph County	05020001	Perm ROW, Temp ROW	UNT to Mingo Run	Intermittent	9	na	na	151	na	na	na	Dam and Pump or Flume	na	na	na	na	UNT to Colander (Brook Trout)	38.48378	-80.08640

<sup>a</sup> Single and Complete Project ID identifies each separate and distinct crossing as a Single and Complete Project, or groups crossings water features according to USACE guidance. A Single and Complete Project may include more than one wetland and/or waterbody together.  
<sup>b</sup> Survey Features represent wetlands and waterbodies that have been documented during field surveys and for which data sheets are included in the Wetland and Waterbody Definition Report. Provisional Features have been added via desktop review of available desktop resources and other available data.  
<sup>c</sup> Feature ID is unique to each waterbody or wetland delineation. Features starting with "w" are wetlands, features starting with "wb" are waterbodies, features starting with "dc" are wetlands or waterbodies that have been added based on desktop review where survey access is not available.  
<sup>d</sup> Project Facility Crossed column includes the following categories and such is defined below:  
 Perm AR - Permanent Access Road  
 Temp AR - Temporary Access Road  
 Perm ROW - Permanent Right-of-Way  
 Temp ROW - Temporary Right-of-Way  
 Temp CPY - Temporary ROW  
 Perm MLR - Permanent Launcher Reservoir Site  
<sup>e</sup> Affected Bank Length Workpiece column represents temporary impacts associated with mainline pipeline construction and is determined based on the waterbody bank length within the construction workpiece.  
<sup>f</sup> Affected Bank Length Access Road column represents the waterbody bank length that will be impacted due to access road use or improvement, both Permanent and Temporary impacts are categorized based on intended use and/or improvements.  
<sup>g</sup> Construction Method column includes traditional construction methods for waterbodies that have a pipeline centerline crossing length. For waterbodies that are not crossed by the pipeline centerline or other unique facility components this column reads "Not Crossed by Centerline". For waterbodies that are not crossed by the pipeline centerline or other unique facility components this column refers to the unique facility crossed and identifies the nature of the planned impacts, as well as a general description of access road improvements, where applicable.  
<sup>h</sup> Cowardin Classification for wetlands, PEM = palustrine emergent, PSS = palustrine scrub-shrub, and PFO = palustrine forested.  
<sup>i</sup> Wetland Impact columns include acreage of temporary impacts with project workpiece that will be restored to pre-construction conditions and allowed to revegetate to pre-construction conditions after construction is complete, conversion impacts will result from operational maintenance of the pipeline right-of-way chasing PSS and PFO wetland types to PEM and PSM/PSS and use impacts will result from filling wetland for permanent access road construction or improvement.  
 respectively.