



Atlantic Coast Pipeline

Wetland and Waterbody Survey Report 2

U.S. Army Corps of Engineers – Pittsburgh District

Prepared by:



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**Atlantic Coast Pipeline
Wetland and Waterbody Survey Report 2**

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	METHODS	3
2.1	DESKTOP REVIEW	3
2.2	FIELD SURVEY	5
2.2.1	Wetlands	5
2.2.1.1	Hydrophytic Vegetation.....	5
2.2.1.2	Wetland Hydrology.....	6
2.2.1.3	Hydric Soils	7
2.2.1.4	Cowardin Classification.....	7
2.2.2	Waterbodies	8
2.2.2.1	Regime Classification	8
2.2.3	Seep Points.....	9
2.2.4	Non-Water Points.....	9
3.0	RESULTS AND FINDINGS	9
3.1	Wetlands	9
3.2	Waterbodies	10
3.3	Seep Points.....	10
3.4	Non-Water Points.....	10
4.0	REFERENCES.....	25

LIST OF TABLES

Table 2-1	Wetland, Waterbody, Seep, and Non-Water Point Feature Naming Protocol.....	3
Table 2-2	Survey Corridor County Codes.....	4
Table 3.1-1	Surveyed Wetlands	11
Table 3.2-1	Surveyed Waterbodies	15
Table 3.3-1	Seep Points.....	22
Table 3.4-1	Non-Water Points.....	24

LIST OF FIGURES

Figure 1-1 Project Overview Map. 2

APPENDICES

Appendix A Wetland Datasheets and Photo Pages
Appendix B Waterbody Datasheets and Photo Pages
Appendix C Seep Point Photo Pages
Appendix D Non-Water Point Datasheets and Photo Pages
Appendix E U.S. Geological Survey (USGS) 7.5-Minute Topographic and Aerial Photography
Maps

ACRONYMS

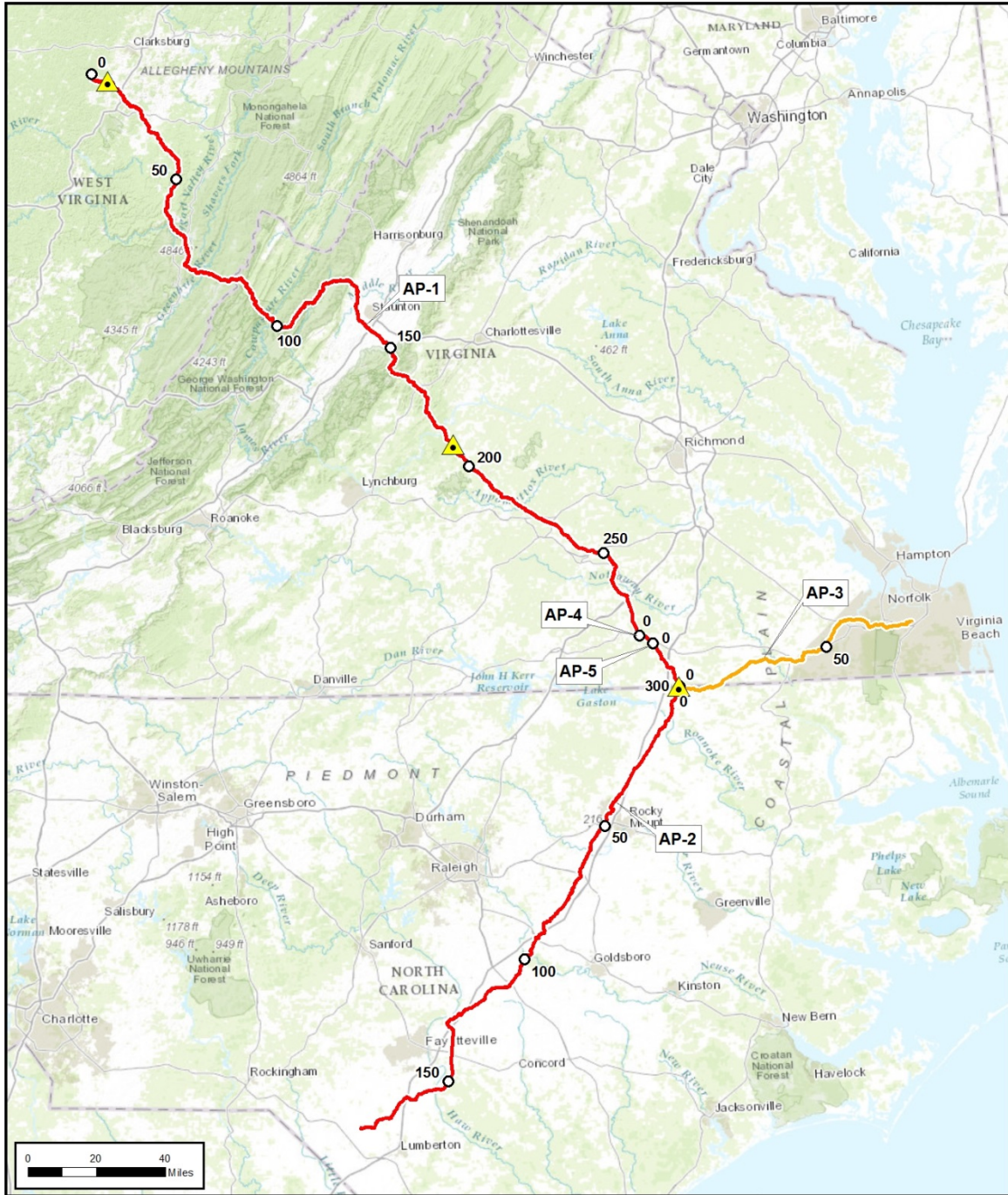
ACP	Atlantic Coast Pipeline
CFR	Code of Federal Regulations
D&D	Duncan & Duncan West, LLC
DTI	Dominion Transmission, Inc.
EPA	Environmental Protection Agency
ERM	Environmental Resources Management
ESI	Environmental Services Inc.
FAC	Facultative Plants
FACU	Facultative Upland Plants
FACW	Facultative Wetland Plants
GPS	Global Positioning System
NHD	National Hydrography Dataset
NRCS	Natural Resource Conservation Service
ERMNWI	National Wetlands Inventory
NWPL	National Wetland Plant List
OBL	Obligate Plants
OHWM	Ordinary High Water Mark
PEM	Palustrine System Emergent Wetland Class
PFO	Palustrine System Forested Wetland Class
PSS	Palustrine System Scrub-Shrub Wetland Class
TOB	top of bank
UPL	Upland Plants
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
W&C	Woodard & Curran





1.0 INTRODUCTION

Environmental Resources Management (ERM), on behalf of Atlantic Coast Pipeline, LLC (Atlantic), conducted wetland and waterbody surveys for the proposed Atlantic Coast Pipeline (ACP). Surveys were completed by staff from ERM, and contracted staff from Duncan & Duncan WEST, LLC (D&D), Environmental Services Inc. (ESI), and Woodard & Curran (W&C). This report presents results of the wetland and waterbody field surveys that were completed in West Virginia, Virginia, and North Carolina for the ACP. The survey area consists of a 300-foot-wide corridor approximately 604.4 miles long, including 98.7 miles in West Virginia, 307.1 miles in Virginia, and 198.7 miles in North Carolina (Figure 1.0-1). The survey corridor includes areas within the U.S. Army Corps of Engineers (USACE) Pittsburgh, Huntington, Norfolk, and Wilmington Districts.

Wetland and waterbody surveys were conducted along the proposed mainlines AP-1 and AP-2, and proposed lateral pipelines AP-3, AP-4, and AP-5. The following counties were surveyed along AP-1: Harrison, Lewis, Upshur, Randolph, and Pocahontas Counties in West Virginia; Bath, Highland, Augusta, Nelson, Buckingham, Cumberland, Prince Edward, Nottoway, Dinwiddie, Brunswick, and Greenville Counties in Virginia. The following counties were surveyed along AP-2: Northampton, Halifax, Nash, Wilson, Johnston, Sampson, Cumberland, and Robeson Counties in North Carolina. The following counties were surveyed along AP-3: Southampton County, the City of Suffolk, the city of Chesapeake in Virginia, and a portion of Northampton County in North Carolina. Another surveyed portion of Brunswick County, Virginia was part of the proposed AP-4. Greenville County, Virginia was also surveyed as the proposed AP-5. The second series of field surveys were conducted from June 2015 to October 2016, and will continue until the wetland and waterbody surveys are complete on available land parcels along the proposed pipeline route. This report serves as the second wetland and waterbody report to be submitted to the Federal Energy Regulatory Commission and the U.S. Army Corps of Engineers.

This report provides an assessment of wetlands, rivers, streams, open waterbodies (e.g., ponds), and seep points documented within the survey corridor based on qualified wetland biologists' best professional judgment and interpretation of the *U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual* (USACE, 1987), *the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0)* (USACE, 2010a), *USACE Regulatory Guidance Letter regarding Ordinary High Water Mark Identification* (USACE, 2005), and other applicable USACE guidance documents and regulations. The report also documents observations made at "non-water points" where desktop data indicated a wetland or waterbody may be present but upon field inspection requisite wetland parameters or discernable evidence of waterbody morphological characteristics were not present. The wetland and waterbody delineation report included with the 404/401 permit applications includes data specific to the jurisdiction of the permit under review. Appendix E includes U.S. Geological Survey (USGS) 7.5-Minute Topographic maps and aerial photography maps of each wetland and waterbody delineated during field surveys.



 	<ul style="list-style-type: none"> — ACP Mainline — ACP Lateral ACP Compressor Station 	 Atlantic Coast Pipeline Project Figure 1.0-1 Project Overview Map 
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2.0 METHODS

Field surveys for the proposed pipeline were conducted within a 300-foot-wide survey corridor and within a 50-foot survey corridor for proposed access roads. The survey area was evaluated to determine the presence of water features including wetlands, waterbodies (streams and open waterbodies), non-tidal ditches, and seep points. Data were also collected to document a lack of water features where desktop data indicated water features may be present; these are referred to as non-water points.

Accessible tracts within the survey corridor were evaluated to determine the presence or absence of water features, including wetlands, waterbodies (streams and open waterbodies), seep points, and non-water points. Specific naming conventions were followed during field surveys in order to catalog each feature type collected. Tables 2-1 and 2-2 describe the unique naming conventions for these features.

TABLE 2-1					
Atlantic Coast Pipeline Project					
Wetland, Waterbody, Seep, and Non-Water Point Feature Naming Protocol					
Water Feature Type	Polygon/Line	County	Field Crew Letter	Feature Number	Special Designation
Wetland	w (wetland)	county code	crew letter (e.g., a, b, c)	001, 002, 003, ...	f, e, s (PFO, PEM, PSS wetlands)
Waterbody	s (stream) o (open waterbody)	county code	crew letter (e.g., a, b, c)	001, 002, 003, ...	p, i, e (change in stream morphology to perennial, intermittent, or ephemeral)
Seep	p (seep)	county code	crew letter (e.g., a, b, c)	001, 002, 003, ...	Not Applicable
Non-Water Point	no (non-water)	county code	crew letter (e.g., a, b, c)	001, 002, 003, ...	Not Applicable

2.1 DESKTOP REVIEW

Several sources of information were used to complete a “desktop” review of survey areas for potential wetlands and waterbodies prior to conducting field surveys. Biologists utilized high resolution aerial photography, U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) data, U.S. Department of Agriculture Soil Survey Geographical Database, the USGS National Hydrography Dataset (NHD), and USGS Topographic Maps. The evaluation prior to field survey allowed crews to identify areas of high probability for wetlands or waterbodies in planning and preparation for field survey.

Table 2-2 Atlantic Coast Pipeline Survey Corridor County Codes			
Facility Type/State	County	County Code	
Mainline Pipelines			
AP-1			
West Virginia	Harrison	ha	
	Lewis	le	
	Upshur	up	
	Randolph	ra	
	Pocahontas	po	
	Virginia	Bath	ba
		Highland	hi
		Augusta	au
		Nelson	ne
		Buckingham	bu
		Cumberland	cu
		Prince Edward	pe
		Nottoway	no
		Dinwiddie	di
Brunswick		br	
Greensville	gr		
AP-2			
North Carolina	Northampton	nr	
	Halifax	hl	
	Nash	na	
	Wilson	wi	
	Johnston	jo	
	Sampson	sa	
	Cumberland	cm	
	Robeson	ro	
Lateral Pipelines			
AP-3			
Virginia	Southampton	so	
	City of Suffolk	su	
	City of Chesapeake	ch	
North Carolina	Northampton	nr	
AP-4			
Virginia	Brunswick	br	
AP-5			
Virginia	Greensville	gr	

2.2 FIELD SURVEY

Field surveys were completed between June 2014 and June 2015. A wetland and waterbody report was previously provided to the USACE in September 2015. This report includes the data previously identified along with data recently collected between June 2016 and October 2016. ERM worked along with D&D, ESI, and W&C on several occasions to support the progress of wetland and waterbody surveys along accessible tracts. For instance, ERM surveyed in West Virginia, in addition to Greensville, Brunswick, Southampton Counties, and the Cities of Suffolk and Chesapeake in Virginia. D&D and ESI surveyed in North Carolina, while W&C and ESI surveyed in Brunswick County, Virginia. Wetland boundaries, waterbody thalweg or banks, data collection points, open waterbody boundaries, seep points, and non-water points were surveyed using a Trimble® 6000 series GeoXH model global positioning system (GPS) unit. The field data collection settings within the GPS units used available satellites to capture location data. Note that while the GPS data collected during survey provides reasonably accurate spatial information regarding the wetlands, open waterbodies, seep points, and non-water points delineated, typically one-meter accuracy with sufficient satellite reception, it does not constitute the same accuracy as a professional land survey.

2.2.1 Wetlands

The delineation of wetlands was conducted using the method described in the USACE 1987 Wetland Manual, along with either of the Regional Supplements. The wetland boundaries were delineated using the routine onsite determination method described in the Regional Supplements and utilizing *the National Wetland Plant List: 2014 (NWPL)* (Lichvar et al., 2012; Federal Register, 2012) for determination of plant indicator status, and the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin, 1979) to classify wetlands. According to the USACE 1987 Wetland Manual, three criteria or parameters are considered during a wetland delineation, and for a plant community to be considered a wetland it must have: a predominance of hydrophytic vegetation; indications of wetland hydrology; and the presence of hydric soils under normal circumstances (i.e., where naturally problematic conditions or disturbances are absent). Wetland data sheets were completed at sample points within each wetland community type (i.e., Cowardin classification) making up the wetland or wetland complex, along with a minimum of one corresponding upland community sample point.

2.2.1.1 Hydrophytic Vegetation

The 1987 Manual and NWPL define the wetland indicator status of plants as follows:

- **Obligate Wetland Plants (OBL)**: almost always occur in wetlands (estimated probability >99 percent) in wetlands under natural conditions. With few exceptions, these plants (herbaceous or woody) are found in standing water or seasonally saturated soils (14 or more consecutive days) near the surface. These plants are of four types: submerged, floating, floating-leaved, and emergent.
- **Facultative Wetland Plants (FACW)**: usually occur in wetlands (estimated probability >67 percent to 99 percent), but may occur in non-wetlands. These

plants predominantly occur with hydric soils, often in geomorphic settings where water saturates the soils or floods the soil surface at least seasonally.

- Facultative Plants (FAC): occur in wetlands and uplands (estimated probability 33 percent to 99 percent within wetlands). These plants can grow in hydric, mesic, or xeric habitats. The occurrence of these plants in different habitats represents responses to a variety of environmental variables other than just hydrology, such as shade tolerance, soil pH and elevation. They have a wide tolerance of soil moisture conditions.
- Facultative Upland Plants (FACU): usually occur in uplands, but many occur in wetlands (estimated probability 1 percent to <33 percent in wetlands). These plants predominantly occur on drier or more mesic sites in geomorphic settings where water rarely saturates the soils or floods the soil surface seasonally.
- Upland Plants (UPL): almost never occur in wetlands (estimated probability <1 percent). These plants occupy mesic to xeric upland habitats. They almost never occur in standing water or saturated soils. Typical growth forms include herbaceous, shrubs, woody vines, and trees.

Dominant vegetation was assessed for each stratum present (tree, sapling/shrub, woody vine, and herbaceous) at sample point locations. In most cases, plant dominance was determined using the USACE “50/20 Rule” in which species from each stratum that individually or collectively make up more than 50 percent of the total cover in each stratum, in addition to other species that account for at least 20 percent of the total cover in the stratum are determined to be dominant species. The hydrophytic vegetation criterion is met when greater than 50 percent of the dominant plant species are classified as OBL, FACW, or FAC. Vegetation information was recorded on the appropriate USACE data forms.

2.2.1.2 Wetland Hydrology

Hydrology is influenced by many variables, including: seasonal and long-term rainfall patterns, local geology, topography, soil type, local water table conditions, and drainage. According to the 1987 Manual and Regional Supplements, wetland hydrology is present if 14 or more consecutive days of inundation or water saturation within 12 inches of the soil surface occur during the growing season at a minimum frequency of 5 years in 10.

Indicators of wetland hydrology provide evidence that a site has a persistent wetland hydrologic regime. The Regional Supplements both provide a list of hydrology indicators that include primary and secondary indicators, which are grouped as:

- Observation of Surface Water or Saturated Soils
- Evidence of Recent Inundation
- Evidence of Current and Recent Soil Saturation
- Evidence of Other Site Conditions or Data

One primary indicator or two secondary indicators are required to confirm that wetland hydrology is present or occurs at some time during the growing season. Field observations of

hydrology were made at each vegetation community sample point. Examples of key indicators observed include presence of water above the ground surface, high water table within the hole dug for soil observations, saturated soil in the upper portion of the soil profile, water-stained leaves, drainage patterns as evidence of water presence, and the geomorphic position of the vegetation community and sample point location. Hydrology information was recorded on the appropriate USACE data sheets.

2.2.1.3 Hydric Soils

The 1987 Manual defines hydric soils as soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part.

Hydric soils are characterized by specific morphological characteristics developed in the soil profile over time due to reduction of iron, manganese, and sulfur under saturated and anaerobic conditions (U.S. Department of Agriculture [USDA] Natural Resource Conservation Service [NRCS], 2010). The hydric soil indicators described in the Regional Supplements are a subset of hydric soil indicators described in *Field Indicators of Hydric Soils in the United States, Version 7.0 (2010)*. The *Munsell Book of Soil Color Charts (2014)* was utilized to determine soil matrix and mottle colors (redoximorphic features) as part of documenting profile descriptions. The soils were observed and documented at representative sample point locations in both wetland communities and adjacent upland communities to help establish the wetland boundary. Soil profile descriptions were recorded on the appropriate USACE data sheets.

2.2.1.4 Cowardin Classification

The Cowardin Classification was developed in 1979 to classify a variety of wetland habitats. The Cowardin Classification divides wetlands into five systems, including: Marine, Estuarine, Riverine, Lacustrine, and Palustrine. These represent the five major landscape settings. The classification system further divides wetland communities into systems and classes. The 2014, 2015, and 2016 field surveys were conducted in inland wetlands, and descriptions of the common Cowardin Classification community types are described in the bullets below.

- Palustrine System Emergent Wetland Class (PEM): A PEM wetland is defined as a non-tidal wetland characterized by erect, rooted, hydrophytic herbaceous species. These wetland habitats are often dominated by perennial plants, where the vegetation is present for the majority of the growing season (Cowardin, 1979).
- Palustrine Forested Wetland Class (PFO): A PFO wetland is defined as a non-tidal wetland characterized by dominant woody vegetation that is greater than 20 feet tall, with an understory of small trees and shrubs, as well as an herbaceous layer (Cowardin, 1979).
- Palustrine System Scrub-Shrub Wetland Class (PSS): A PSS wetland is defined as a non-tidal wetland consisting of woody vegetation that is less than 20 feet tall, including shrubs, young trees, and stunted trees or shrubs (Cowardin, 1979).

Each wetland delineated was assigned a Cowardin class. For wetland complexes, or wetlands that are comprised of more than one wetland plant community (i.e., Cowardin class) a sample point was established and observations recorded to document each community. Unique wetland IDs and separate polygons were established based on the wetland community present within the complex. The field crews in 2014, 2015, and 2016 collected wetland information for PEM, PFO, and PSS wetlands.

2.2.2 Waterbodies

Waterbodies documented during field survey were categorized as 1) linear or flowing waterbodies such as streams and rivers, and assigned a unique ID starting with an “s” or 2) non-flowing open waterbodies such as ponds and lakes which were assigned a unique ID starting with an “o”. Linear or flowing waterbodies were identified as landscape features with a channel that include a bed and a bank in a concave landscape position where water flow has resulted in a feature that possesses an ordinary high water mark (OHWM). Based on evidence of flow regime at the time of survey linear waterbodies were attributed a flow regime, according to the definitions provided by the USACE for the Nationwide Permit Program in Code of Federal Regulations (CFR) 33 Part 330 (Federal Register, 1993). Similarly, non-flowing open waterbody features were assigned a Cowardin hydrology regime based on observations recorded at the time of survey. Definitions of these flow regimes and hydrology regimes are included below.

2.2.2.1 Regime Classification

Water regime classification is defined by its flow duration. The following regime classifications are described below as defined by the CFR 33 Part 330 ruling:

- Perennial Stream: A perennial stream has flowing water year round during a typical year. The water table is located above the stream bed for most of the year, and groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.
- Intermittent Stream: An intermittent stream has flowing water during most times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water, and runoff from rainfall is a supplemental source of water for stream flow.
- Ephemeral Stream: An ephemeral stream has flowing water during a short duration after precipitation events. Ephemeral stream beds are located above the water table year round; therefore, groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.

Non-flowing or open waterbodies were documented based on the evidence of inundation/saturation at the time of surveys, utilizing one of four categories based on the USFWS’s *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin, 1979) including the following:

- Non-flowing: Water covers the land surface throughout the year in all years.

- Semi-Non-flowing: Surface water persists throughout the growing season in most years. When surface water is absent, the water table is usually at or very near the land surface
- Seasonally flooded: Surface water is present for extended periods especially early in the growing season, but is absent by the end of the season in most years. When surface water is absent, the water table is often near the land surface.
- Temporarily flooded: Surface water is present for brief periods during the growing season, but the water table usually lies well below the soil surface for most of the season.

2.2.3 Seep Points

Seep points are defined as small areas where groundwater saturates the soil surface on steep slopes or along sidehill cuts or banks. Seeps do not meet the definition of either a waterbody, due to lack of OHWM, top of bank (TOB), or a wetland due to the absence of the three wetland parameters (hydrology, vegetation, soils). One example of where a seep point would likely be located would be a road cut. Seep points were reviewed and documented on a case-by-case basis by wetland biologists. Where seep points were observed, a GPS data point was taken along with corresponding photos of the area.

2.2.4 Non-Water Points

Non-water points were collected to document areas mapped as NWI polygons or NHD lines that did not meet the required criteria of wetlands or waterbodies (i.e., upland habitat). Observations were recorded, photographs were taken, and a GPS point was recorded at each non-water point to document that wetland biologists visited the point and determined that a wetland or waterbody was not present. USACE wetland delineation forms were used to record information for non-water points located within NWI wetlands polygons. Documentation of non-water points provides a record to demonstrate that areas mapped as NWI and NHD, or areas with an aerial photography signature indicative of wetland conditions, which from a desktop may be assumed to be aquatic, were visited by wetland biologists and determined to lack the requisite indicators of a wetland or waterbody.

3.0 RESULTS AND FINDINGS

The following sections present data previously identified along with data recently collected between June 2016 and October 2016. The data includes wetlands, waterbodies, seep points, and non-water points that were documented on accessible tracts within the ACP survey corridor. Appendix E identifies the tracts where surveys have been completed.

3.1 WETLANDS

A total of 174 wetlands have been documented within the survey corridor along the proposed pipeline route in the USACE Pittsburgh District in West Virginia during the field season. Table 3.1-1 identifies the state, county, approximate milepost, unique project wetland ID, Cowardin classification, latitude, and longitude of the wetlands delineated to date.

Datasheets and photo pages for each wetland and upland sample point are provided in Appendix A.

3.2 WATERBODIES

A total of 228 waterbodies have been documented within the survey corridor along the proposed pipeline route in the USACE Pittsburgh District in West Virginia during the field season. Table 3.2-1 identifies the state, county, approximate milepost, unique project waterbody ID, USGS waterbody name, hydrologic regime, field estimated OHWM width (ft.), and field estimated bank-to-bank width (feet), latitude, and longitude of the waterbodies surveyed to date. Occasionally, waterbodies serve as county borders. The naming convention assigned to the waterbody correlates with the datasheet, and the field crew's location when the data points were taken. In addition to waterbodies crosses county borders, waterbodies occasionally cross USACE jurisdictions. Datasheets and photo pages for each waterbody sample point are provided in Appendix B.

3.3 SEEP POINTS

A total of 93 seep points were documented within the survey corridor along the proposed pipeline route in the USACE Pittsburgh District in West Virginia during the field season. Table 3.3-1 includes the state, county, approximate milepost, unique project seep point ID, latitude, and longitude. Datasheets and photo pages for each seep sampling point are provided in Appendix C.

3.4 NON-WATER POINTS

A total of 18 non-water points were documented within the survey corridor along the proposed pipeline route in the USACE Pittsburgh District in West Virginia during the field season. These areas were documented as upland habitat, although present on NWI maps, or as NHD waterbodies, or aerial photography signatures indicative of a wetland or waterbody. Photographs for the mapped NWI, NHD features, and aerial signatures that were documented as non-water points are provided in Appendix D. In addition, for NWI wetland areas determined to be upland, an appropriate USACE wetland data sheet was recorded and is also included in Appendix D. Table 3.4-1 includes the state, county, approximate milepost, unique project non-water point ID, non-water point type (e.g., NWI, NHD, and aerial photography signature), latitude, and longitude. Datasheets and photo pages for each non-water sample point associated with NWI polygons, as well as photo pages for non-water sample points from NHD and aerial photography are provided in Appendix D.

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.1-1				
Atlantic Coast Pipeline Surveyed Wetlands				
Facility/State/County/ Approximate Milepost	Unique ID	Cowardin Classification	Latitude	Longitude
MAINLINE PIPELINES				
AP-1				
WEST VIRGINIA				
Harrison				
0.0	whab001s	PSS	39.171129	-80.560004
0.0	whab001e	PEM	39.171250	-80.560228
0.5	whab002e	PEM	39.165501	-80.560059
Lewis				
2.4	wleb110e	PEM	39.147653	-80.545485
2.4	wleb109e	PEM	39.148128	-80.545133
3.0	wleb111e	PEM	39.141576	-80.535823
4.0	wleb002e	PEM	39.139653	-80.520565
5.7	wlea003e	PEM	39.143577	-80.493341
5.7	wlea002e	PEM	39.143262	-80.493337
5.7	wlea001s	PSS	39.142932	-80.493485
5.8	wlea004e	PEM	39.142860	-80.491451
6.8	wleb105e	PEM	39.138622	-80.473114
7.2	wlea005e	PEM	39.141879	-80.470644
8.2	wleb003e	PEM	39.135241	-80.455944
9.2	wlea006e	PEM	39.130777	-80.443812
9.2	wleb004e	PEM	39.130447	-80.444034
9.6	wleb201e	PEM	39.124347	-80.443384
9.8	wleb005e	PEM	39.121423	-80.442995
10.3	wleb006s	PSS	39.116945	-80.441320
11.8	wlea007e	PEM	39.107763	-80.419584
12.5	wleb008e	PEM	39.099900	-80.413746
12.7	wleb007e	PEM	39.098435	-80.410794
12.7	wlea088e	PEM	39.101469	-80.409881
13.6	wlec001e	PEM	39.084863	-80.409748
13.8	wleh003e	PEM	39.085762	-80.402606
13.9	wleh002e	PEM	39.084994	-80.401317
14.5	wlea079e	PEM	39.084948	-80.388090
14.5	wleh006e	PEM	39.080203	-80.393211
14.5	wlea080e	PEM	39.083376	-80.388564
14.7	wlea083e	PEM	39.080570	-80.385490
14.7	wlea082e	PEM	39.080645	-80.385776
14.7	wlea081e	PEM	39.081248	-80.386625
14.8	wlea084e	PEM	39.077609	-80.383505
14.8	wlea085e	PEM	39.076249	-80.385222
14.9	wlea087e	PEM	39.075046	-80.383776
15.0	wleb106e	PEM	39.074274	-80.390319
15.3	wlea086e	PEM	39.073541	-80.382529
15.3	wleb107e	PEM	39.070819	-80.388185
15.5	wlea076e	PEM	39.066869	-80.386708
16.4	wleb108e	PEM	39.059574	-80.379533
16.5	wlea077e	PEM	39.055267	-80.383639
17.0	wlec001e	PEM	39.052804	-80.371916

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.1-1 (cont'd)				
Atlantic Coast Pipeline Surveyed Wetlands				
Facility/State/County/ Approximate Milepost	Unique ID	Cowardin Classification	Latitude	Longitude
19.0	wlec005e	PEM	39.032544	-80.348771
19.9	wleb012e	PEM	39.035769	-80.335722
19.9	wlea011e	PEM	39.034662	-80.335592
20.2	wlec006e	PEM	39.035296	-80.332394
20.7	wlea012f	PFO	39.034002	-80.322971
Upshur				
24.0	wupb101e	PEM	39.003970	-80.288068
24.0	wupa001e	PEM	39.002285	-80.291053
24.3	wupa002e	PEM	38.998114	-80.288304
24.7	wupa003e	PEM	38.993228	-80.287808
25.4	wupb001e	PEM	38.984396	-80.284595
25.7	wupb002e	PEM	38.981957	-80.279673
25.9	wupe009e	PEM	38.994018	-80.261332
25.9	wupb003e	PEM	38.980692	-80.275951
26.0	wupb004e	PEM	38.979527	-80.274293
26.3	wupb005e	PEM	38.977083	-80.272336
26.3	wupa005e	PEM	38.976143	-80.271441
26.6	wupa004e	PEM	38.973009	-80.269206
26.8	wupc001e	PEM	38.970106	-80.268852
26.8	wupa006e	PEM	38.970462	-80.267622
29.1	wupb006e	PEM	38.945443	-80.251413
29.3	wupb007e	PEM	38.943431	-80.253070
29.7	wupe001e	PEM	38.937956	-80.254955
30.5	wupa007e	PEM	38.929201	-80.249162
30.9	wupa008e	PEM	38.926694	-80.244207
31.1	wupa009e	PEM	38.926502	-80.240697
31.2	wupe002e	PEM	38.929401	-80.237897
31.3	wupe003e	PEM	38.926611	-80.237615
36.1	wupb009f	PFO	38.887002	-80.189238
36.1	wupa010f	PFO	38.886925	-80.189369
36.1	wupa010e	PEM	38.886716	-80.189205
36.8	wupb010e	PEM	38.880335	-80.184230
37.0	wupa050e	PEM	38.875923	-80.182592
37.8	wupb050e	PEM	38.871644	-80.174723
37.9	wupb011e	PEM	38.868992	-80.175339
39.4	wupa012e	PEM	38.854493	-80.162803
39.5	wupa013e	PEM	38.853269	-80.161573
39.5	wupa014e	PEM	38.853716	-80.160412
39.6	wupa015e	PEM	38.853668	-80.159525
39.6	wupa015f	PFO	38.853522	-80.159144
40.5	wupb012f	PFO	38.848076	-80.144379
41.3	wupa011e	PEM	38.840325	-80.134968
41.9	wupb103e	PEM	38.836337	-80.123642
Randolph				
44.8	wrac103e	PEM	38.863277	-79.883022
44.8	wrac102e	PEM	38.865265	-79.880914
44.8	wrac105e	PEM	38.865643	-79.883191

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.1-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Wetlands**

Facility/State/County/ Approximate Milepost	Unique ID	Cowardin Classification	Latitude	Longitude
46.6	wrab101e	PEM	38.781672	-80.095152
47.3	wraa104e	PEM	38.772122	-80.092270
47.3	wrab102e	PEM	38.772001	-80.093514
47.4	wrab103e	PEM	38.769785	-80.091971
48.2	wraf001e	PEM	38.757291	-80.097427
48.4	wraf002e	PEM	38.753382	-80.099700
48.8	wrac099e	PEM	38.745700	-80.101718
50.2	wrac100e	PEM	38.722201	-80.109598
50.3	wrac101e	PEM	38.720453	-80.110046
50.3	wraa450f	PFO	38.719401	-80.108952
50.5	wraa449e	PEM	38.715598	-80.107280
50.6	wraa401f	PFO	38.714320	-80.114218
50.7	wraa400f	PFO	38.713953	-80.113381
50.7	wraa402f	PFO	38.712685	-80.114279
50.8	wraa403e	PEM	38.711260	-80.113484
50.8	wrae001e	PEM	38.710533	-80.113533
50.8	wraa404f	PFO	38.710417	-80.112745
50.9	wrae250e	PEM	38.709330	-80.116407
50.9	wraa404e	PEM	38.709562	-80.113309
51.0	wrae002e	PEM	38.707974	-80.111924
51.0	wrae003e	PEM	38.707230	-80.111774
51.0	wraa405f	PFO	38.707060	-80.112470
51.1	wrae262e	PEM	38.692888	-79.992422
51.1	wrae263e	PEM	38.693419	-79.993612
51.1	wrae264e	PEM	38.693422	-79.994650
51.2	wraa406e	PEM	38.704216	-80.113238
51.2	wraa407e	PEM	38.704312	-80.113943
51.4	wraa408f	PFO	38.701257	-80.115701
51.4	wraa409e	PEM	38.700642	-80.115970
51.4	wraa431s	PSS	38.699683	-80.113935
51.4	wraa410f	PFO	38.699947	-80.116012
51.5	wrae251e	PEM	38.701156	-80.118311
51.5	wraa411f	PFO	38.698571	-80.118031
51.6	wraa412f	PFO	38.698210	-80.118289
51.6	wraa413f	PFO	38.696967	-80.117927
51.7	wraa414e	PEM	38.695244	-80.119378
51.7	wraa419e	PEM	38.694984	-80.119640
51.8	wraa418e	PEM	38.694810	-80.120430
51.8	wraa432s	PSS	38.690199	-80.117605
51.9	wraa417e	PEM	38.693877	-80.122444
51.9	wrae284e	PEM	38.701243	-80.137772
52.0	wraa416e	PEM	38.692156	-80.124484
52.0	wraa415f	PFO	38.691333	-80.125428
52.1	wraa420f	PFO	38.690067	-80.126924
52.2	wraa434s	PSS	38.690639	-80.130242
52.2	wraa423e	PEM	38.689611	-80.128838
52.2	wraa423s	PSS	38.689781	-80.129259

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.1-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Wetlands**

Facility/State/County/ Approximate Milepost	Unique ID	Cowardin Classification	Latitude	Longitude
52.3	wraa439e	PEM	38.690575	-80.132941
52.3	wraa435e	PEM	38.685334	-80.128371
52.3	wraa422e	PEM	38.686672	-80.130026
52.5	wraa440e	PEM	38.686740	-80.137546
52.6	wraa441e	PEM	38.683753	-80.138459
52.7	wraa442e	PEM	38.681963	-80.138830
52.7	wraa443e	PEM	38.680120	-80.139136
52.8	wraa444e	PEM	38.679356	-80.139559
52.9	wraa445e	PEM	38.676642	-80.140968
52.9	wraa446e	PEM	38.676178	-80.141714
52.9	wraa447e	PEM	38.675641	-80.143331
53.0	wraa448e	PEM	38.674163	-80.146411
53.0	wrae285e	PEM	38.674327	-80.134092
53.1	wrae286e	PEM	38.671785	-80.132688
53.2	wraa436e	PEM	38.669957	-80.132061
53.3	wraa421e	PEM	38.669372	-80.134270
53.7	wrae288e	PEM	38.659907	-80.131866
53.7	wraa424e	PEM	38.660488	-80.136738
53.8	wraa425f	PFO	38.659828	-80.137587
54.0	wraa427e	PEM	38.659720	-80.144249
54.0	wraa426e	PEM	38.659804	-80.144438
54.0	wrac109e	PEM	38.669482	-80.146160
54.1	wraa428e	PEM	38.659442	-80.145785
54.2	wrac113e	PEM	38.661016	-80.151757
54.3	wrac110e	PEM	38.658795	-80.151097
54.3	wrac112e	PEM	38.657875	-80.150752
54.3	wraa429e	PEM	38.656515	-80.149246
54.4	wraa430s	PSS	38.655300	-80.149978
54.4	wraa430e	PEM	38.655209	-80.149919
55.1	wrap001e	PFO	38.642610	-80.155329
55.1	wrac114e	PEM	38.642683	-80.162823
55.3	wrap002e	PEM	38.638001	-80.157247
55.3	wrap003e	PEM	38.637846	-80.157268
55.4	wrap004e	PEM	38.637240	-80.157333
55.8	wrap005e	PEM	38.628195	-80.156381
55.9	wrap006e	PEM	38.627425	-80.155447
55.9	wrap007e	PEM	38.626107	-80.155790
55.9	wrap008e	PEM	38.626147	-80.155419
64.0	wrae242e	PEM	38.497749	-80.092321
64.2	wrae243e	PEM	38.497974	-80.088654

Notes: PEM = Palustrine System Emergent Wetland Class; PFO = Palustrine System Forested Wetland Class; PSS = Palustrine System Scrub-Shrub Wetland Class

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.2-1

**Atlantic Coast Pipeline
Surveyed Waterbodies**

Facility/State/Count/ Approximate Milepost	Unique ID	U.S. Geological Survey Name	Hydrologic Regime	OHWM Width (feet)	Bank to Bank Width (feet)	Latitude	Longitude
MAINLINE PIPELINES							
AP-1							
WEST VIRGINIA							
Harrison							
0.0	shaa001	UNT to Tanner Fork	Perennial	3.0	5.0	39.171574	-80.561194
0.0	shaa002	Tanner Fork	Perennial	6.0	9.0	39.170944	-80.559819
0.4	shab101	Tanner Fork	Perennial	4.0	6.0	39.166429	-80.557110
0.5	shaa003	UNT to Tanner Fork	Intermittent	4.0	10.0	39.165564	-80.559835
Lewis							
1.1	slea001	Kincheloe Creek	Perennial	12.0	15.0	39.159149	-80.553625
1.5	slea002	Sand Fork	Perennial	14.0	19.0	39.154272	-80.554080
2.4	slea003	UNT to Kincheloe Creek	Intermittent	5.0	9.0	39.146963	-80.545860
2.4	sleb117	Kincheloe Creek	Perennial	20.0	25.0	39.149589	-80.541755
3.0	sleb118	UNT to Hog Camp Run	Perennial	4.0	5.0	39.141958	-80.536732
3.8	slea084	Hog Camp Run	Perennial	7.0	12.0	39.143220	-80.519916
4.0	sleb001	UNT to Hog Camp Run	Intermittent	5.0	8.0	39.140670	-80.521099
4.0	sleb002	Hog Camp Run	Perennial	15.0	20.0	39.140574	-80.520422
4.0	sleb003	UNT to Hog Camp Run	Intermittent	4.0	6.0	39.140253	-80.520101
4.1	oleb001	UNP to Hog Camp Run	Non-flowing	NA	NA	39.140171	-80.519610
5.0	sleb004	Elk Lick	Intermittent	4.0	6	39.141246	-80.505007
5.0	sleb119	UNT to Elk Lick	Intermittent	2.0	5.0	39.142404	-80.505099
5.7	sleb005	Turkeypen Creek	Perennial	8.0	15.0	39.143135	-80.492552
5.7	sleb006	UNT to Turkeypen Creek	Intermittent	3.0	10.0	39.142918	-80.492595
7.2	sleb105e	UNT to Hollick Run	Ephemeral	1.0	6.0	39.141511	-80.471098
7.5	oleb100	UNT to Kincheloe Creek	Non-flowing	NA	NA	39.141099	-80.463465
7.6	sleb008	UNT to Hollick Run	Intermittent	4.0	8.0	39.137341	-80.464219
7.7	sleb104i	UNT to Hollick Run	Intermittent	4.0	5.0	39.139521	-80.462383
7.7	sleb104	UNT to Hollick Run	Intermittent	2.0	3.0	39.138783	-80.461581
7.7	slea004	Hollick Run	Perennial	9.0	15.0	39.137371	-80.462842
7.9	slea005	UNT to Hollick Run	Intermittent	3.0	7.0	39.135507	-80.460591
8.2	sleb009	West Fork River	Perennial	65.0	75.0	39.135369	-80.456284
8.6	slea006	UNT to West Fork River	Ephemeral	2.0	5.0	39.136957	-80.449460
9.2	oleb002	UNP to West Fork River	Non-flowing	NA	NA	39.130471	-80.444155
9.2	olea001	Unnamed Pond	Non-flowing	NA	NA	39.130178	-80.443098
9.3	slea007	UNT to Broad Run	Intermittent	2.0	3.0	39.129536	-80.443164
9.4	slea008	Broad Run	Perennial	9.0	14.0	39.127499	-80.443728

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.2-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Waterbodies**

Facility/State/Count/ Approximate Milepost	Unique ID	U.S. Geological Survey Name	Hydrologic Regime	OHWM Width (feet)	Bank to Bank Width (feet)	Latitude	Longitude
9.9	sleb121	UNT to Broad Run	Intermittent	2.0	4.0	39.120343	-80.436692
10.2	sleb120	Broad Run	Perennial	4.0	6.0	39.119894	-80.437027
10.2	slea009	UNT to Broad Run	Intermittent	3.0	8.0	39.117193	-80.441574
10.7	slea010	UNT to Sycamore Lick	Ephemeral	2.0	5.0	39.112289	-80.436530
10.7	olea002	Unnamed Pond	Non-flowing	NA	NA	39.112877	-80.436020
10.8	slea011	UNT to Sycamore Lick	Ephemeral	2.0	7.0	39.111749	-80.434556
10.9	sleb120i	Broad Run	Intermittent	3.0	5.0	39.115637	-80.432566
11.8	slea012	UNT to Hackers Creek	Intermittent	3.0	15.0	39.107627	-80.419331
11.8	slea013	UNT to Hackers Creek	Intermittent	3.0	10.0	39.107305	-80.419583
12.3	slea014	UNT to West Run	Intermittent	3.0	10.0	39.101992	-80.415925
12.4	sleb013	UNT to West Run	Intermittent	1.0	4.0	39.100279	-80.413964
12.5	sleb012	UNT to West Run	Perennial	2.0	3.0	39.099465	-80.413106
12.6	sleb011	West Run	Perennial	8.0	12.0	39.099497	-80.411551
13.1	sleb010	UNT to Hackers Creek	Intermittent	4.0	8.0	39.095251	-80.406378
13.6	slec001	UNT to Lifes Run	Ephemeral	2.0	5.0	39.084656	-80.410079
13.7	slec002	UNT to Lifes Run	Intermittent	3.0	5.0	39.087060	-80.404124
13.8	sleh001	UNT to Lifes Run	Intermittent	4.0	5.0	39.085925	-80.402922
14.2	olec002	Unnamed Pond	Non-flowing	NA	NA	39.083852	-80.396227
14.3	slec005	Lifes Run	Perennial	22.0	25.0	39.085132	-80.391932
14.3	sleh002	Lifes Run	Perennial	15.0	20.0	39.081892	-80.394995
14.4	slec003	UNT to Lifes Run	Intermittent	4.0	8.0	39.082456	-80.392865
14.5	sleh009	UNT to Lifes Run	Perennial	4.0	8.0	39.080597	-80.393101
14.8	slea081	UNT to Hackers Creek	Intermittent	4.0	8.0	39.077586	-80.383511
14.8	sleh008	UNT to Hackers Creek	Intermittent	6.0	8.0	39.076943	-80.389592
14.8	slea082	UNT to Hackers Creek	Intermittent	5.0	10.0	39.075960	-80.385305
15.0	sleb110	UNT to Hackers Creek	Ephemeral	2.0	4.0	39.074621	-80.390051
15.0	sleb109	UNT to Hackers Creek	Intermittent	5.0	10.0	39.074352	-80.389949
15.3	slea079	UNT to Hackers Creek	Intermittent	3.0	8.0	39.066372	-80.391989
15.4	olea075	Unnamed Pond	Non-flowing	NA	NA	39.065893	-80.388807
15.5	slea075	UNT to Hackers Creek	Intermittent	4.0	9.0	39.066673	-80.386122
15.5	slea076	UNT to Hackers Creek	Intermittent	2.0	5.0	39.067124	-80.385960
15.5	sleb111	UNT to Hackers Creek	Perennial	10.0	12.0	39.068506	-80.384858
15.6	slea080	Hackers Creek	Perennial	30.0	40.0	39.072766	-80.381035

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.2-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Waterbodies**

Facility/State/Count/ Approximate Milepost	Unique ID	U.S. Geological Survey Name	Hydrologic Regime	OHW Width (feet)	Bank to Bank Width (feet)	Latitude	Longitude
15.8	slea077	UNT to Hackers Creek	Ephemeral	2.0	5.0	39.065600	-80.387297
15.9	slea078	UNT to Hackers Creek	Ephemeral	2.0	5.0	39.064495	-80.387639
16.3	sleb113	UNT to Hackers Creek	Intermittent	2.0	5.0	39.059997	-80.380419
16.4	sleb112	UNT to Hackers Creek	Perennial	4.0	5.0	39.059244	-80.379650
17.2	sleb114	UNT to Hackers Creek	Perennial	5.0	10.0	39.052468	-80.368447
18.1	sleb116	UNT to Laurel Lick	Intermittent	12.0	3.0	39.045751	-80.357649
18.1	sleb115	Laurel Lick	Intermittent	15.0	20.0	39.045750	-80.357457
19.9	slea023	UNT to Buckhannon Run	Intermittent	4.0	6.0	39.035723	-80.336301
20.3	sleb018	Buckhannon Run	Perennial	6.0	12.0	39.034555	-80.329366
20.6	sleb019	UNT to Buckhannon Run	Intermittent	3.0	6.0	39.034036	-80.324081
20.7	olea003	Unnamed Pond	Non-flowing	NA	NA	39.033988	-80.322733
Upshur							
23.3	supa001	Fink Run	Perennial	10.0	16.0	39.010850	-80.292600
24.0	supa002	UNT to Fink Run	Intermittent	3.0	4.0	39.001972	-80.291252
24.3	supa004	UNT to Brushy Fork	Intermittent	3.0	4.0	38.997896	-80.288967
24.6	supa003	UNT to Brushy Fork	Intermittent	2.0	6.0	38.993895	-80.287703
24.7	supa005	UNT to Brushy Fork	Intermittent	2.0	3.0	38.993172	-80.287748
25.4	supb001	UNT to Brushy Fork	Intermittent	1.0	1.0	38.984336	-80.284419
25.7	supb102	Brushy Fork	Intermittent	3.0	5.0	38.984012	-80.279616
25.8	supb003	UNT to Brushy Fork	Intermittent	2.0	5.0	38.982147	-80.278225
25.8	supb002	Brushy Fork	Perennial	3.0	10.0	38.982300	-80.277724
25.8	supc102	UNT to Brushy Fork	Intermittent	3.0	10.0	38.993701	-80.270480
25.9	supc012	UNT to Left Fork Brushy Fork	Perennial	10.0	14.0	38.993515	-80.260968
26.0	supb004	Brushy Fork	Perennial	15.0	20.0	38.980309	-80.275388
28.4	supb005	UNT to Lick Run	Intermittent	2.0	4.0	38.953846	-80.253267
28.5	oupa001	UNP to Lick Run	Non-flowing	NA	NA	38.953509	-80.253127
29.1	oupb001	UNP to Cutright Run	Non-flowing	NA	NA	38.946053	-80.252167
29.2	supb006	Cutright Run	Perennial	12.0	16.0	38.944940	-80.252124
29.3	supa050	UNT to Cutright Run	Intermittent	3.0	5.0	38.943638	-80.253687
29.8	oupe001	Unnamed Pond	Non-flowing	NA	NA	38.937319	-80.254775
29.9	supb007	UNT to French Creek	Perennial	5.0	7.0	38.935142	-80.254956
30.5	supa006	UNT to French Creek	Perennial	3.0	5.0	38.929120	-80.249229
30.6	supb052	UNT to French Creek	Intermittent	5.0	15.0	38.930899	-80.246623
30.7	supb053	UNT to French Creek	Intermittent	3.0	5.0	38.931048	-80.242675
30.9	supa007	UNT to French Creek	Intermittent	3.0	5.0	38.926431	-80.244332
31.1	supa008	French Creek	Perennial	40.0	55.0	38.926178	-80.240168
31.7	supa009	Buckhannon River	Perennial	75.0	95.0	38.925014	-80.230745

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.2-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Waterbodies**

Facility/State/Count/ Approximate Milepost	Unique ID	U.S. Geological Survey Name	Hydrologic Regime	OHWM Width (feet)	Bank to Bank Width (feet)	Latitude	Longitude
31.8	supa010	UNT to Buckhannon River	Intermittent	1.0	3.0	38.924756	-80.228665
32.1	supa011	UNT to Trubie Run	Intermittent	4.0	6.0	38.923989	-80.223769
33.0	supb009	UNT to Trubie Run	Perennial	5.0	6.0	38.921044	-80.210851
33.0	supb103	Trubie Run	Perennial	20.0	20.0	38.922633	-80.211594
34.1	supa012	UNT to Buckhannon Run	Ephemeral	3.0	3.0	38.908089	-80.203511
34.4	supa013	Grassy Run	Perennial	17.0	35.0	38.902897	-80.202785
35.9	supa011	Gravel Run	Perennial	12.0	25.0	38.889289	-80.193592
36.1	supb010	Gravel Run	Perennial	15.0	15.0	38.886985	-80.189764
36.1	supa014	UNT to Gravel Run	Intermittent	5.0	8.0	38.886846	-80.189331
36.4	supa010	Laurel Run	Perennial	15.0	25.0	38.881234	-80.191964
36.7	supa051	UNT to Laurel Run	Intermittent	3.0	5.0	38.882649	-80.182419
36.8	supb011	Laurel Run	Perennial	15.0	20.0	38.880195	-80.184951
37.1	supa053	UNT to Tenmile Creek	Intermittent	3.0	3.0	38.876699	-80.181526
37.5	supa052	UNT to Tenmile Creek	Intermittent	3.0	5.0	38.873346	-80.182240
37.7	supa016	Tenmile Creek	Perennial	14.0	18.0	38.872474	-80.174965
37.8	oupa002	UNP to Tenmile Creek	Non-flowing	NA	NA	38.871407	-80.175325
37.8	supb050	UNT to Tenmile Creek	Perennial	3.0	4.0	38.871500	-80.174421
37.8	supb051	UNT to Tenmile Creek	Perennial	5.0	10.0	38.870581	-80.171519
37.9	supa017	UNT to Tenmile Creek	Intermittent	8.0	10.0	38.869697	-80.175606
37.9	oupa003	Unnamed Pond	Non-flowing	NA	NA	38.869168	-80.175932
39.3	supa018	UNT to Tenmile Creek	Intermittent	4.0	5.0	38.854911	-80.163425
39.6	supa019	Tenmile Creek	Intermittent	8.0	10.0	38.853209	-80.159017
40.5	supb013	UNT to Leonard Run	Intermittent	2.0	3.0	38.847805	-80.144788
40.7	supb012	UNT to Leonard Run	Intermittent	5.0	6.0	38.846959	-80.141954
40.9	oupb003	Unnamed Pond	Non-flowing	NA	NA	38.845389	-80.139655
41.3	supa015	Right Fork Middle Fork River	Perennial	32.0	45.0	38.840627	-80.134720
41.4	supb106	UNT to Middle Fork	Intermittent	2.0	3.0	38.838813	-80.134789
41.9	supb105	UNT to Jackson Fork	Ephemeral	1.0	2.0	38.836445	-80.123497
41.9	supb104	Jackson Fork	Perennial	15.0	25.0	38.835793	-80.124225
Randolph							
45.4	srab101	UNT to Jenks Fork	Intermittent	4.0	5.0	38.797079	-80.095471
45.4	srac001	UNT to Jenks Fork	Intermittent	4.0	8.0	38.796365	-80.094609
46.6	srab102	Headwaters of Jenks Fork	Intermittent	4.0	9.0	38.781771	-80.095188
47.0	srab103	UNT to Long Run	Intermittent	4.0	7.0	38.775312	-80.094873
47.1	sraa066	UNT to Long Run	Intermittent	3.0	12.0	38.774017	-80.093073

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.2-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Waterbodies**

Facility/State/Count/ Approximate Milepost	Unique ID	U.S. Geological Survey Name	Hydrologic Regime	OHWM Width (feet)	Bank to Bank Width (feet)	Latitude	Longitude
47.4	srab104	UNT to Sugar Run	Intermittent	5.0	7.0	38.769871	-80.092201
49.3	srae202	UNT to Light Run	Intermittent	2.0	6.0	38.739473	-80.095733
49.3	srae203	UNT to Light Run	Intermittent	3.0	20.0	38.738758	-80.094665
49.3	srae204	UNT to Light Run	Intermittent	2.0	5.0	38.739309	-80.075440
50.2	srac100	UNT to Dry Run	Intermittent	3.0	8.0	38.722106	-80.109843
50.4	srac101	UNT to Dry Run	Intermittent	4.0	12.0	38.719334	-80.110439
50.4	srac102	UNT to Dry Run	Ephemeral	3.0	10.0	38.719203	-80.110370
50.4	sraa429	UNT to Dry Run	Intermittent	3.0	6.0	38.717135	-80.106147
50.4	sraa428	UNT to Dry Run	Intermittent	3.0	6.0	38.716733	-80.105904
50.5	sraa427	Dry Run	Intermittent	9.0	18.0	38.715623	-80.107418
50.5	sraa426	UNT to Dry Run	Intermittent	3.0	7.0	38.715406	-80.107111
50.5	srac103	Dry Run	Perennial	16.0	20.0	38.716343	-80.112275
50.6	sraa400	UNT to Dry Run	Intermittent	5.0	10.0	38.715820	-80.113213
50.7	sraa401	UNT to Dry Run	Intermittent	4.0	12.0	38.712669	-80.113915
50.7	srae201	UNT to Left Fork Buckhannon River	Perennial	10.0	14.0	38.712739	-80.130702
50.8	sraa403	UNT to Dry Run	Intermittent	4.0	8.0	38.711629	-80.114241
50.8	sraa402	Dry Run	Intermittent	7.0	30.0	38.711512	-80.113890
50.9	sraa404	UNT to Dry Run	Intermittent	3.0	10.0	38.710221	-80.112781
50.9	srae001	UNT to Dry Run	Intermittent	3.0	10.0	38.709560	-80.112540
50.9	srae002	UNT to Dry Run	Intermittent	4.0	20.0	38.708674	-80.112501
51.0	srae003	UNT to Dry Run	Ephemeral	1.0	2.0	38.708220	-80.112949
51.2	srae179	UNT to Lick Run	Ephemeral	2.0	5.0	38.702501	-80.112283
51.3	srae180	UNT to Lick Run	Ephemeral	2.0	5.0	38.702772	-80.115685
51.4	sraa405	UNT to Lick Run	Intermittent	3.0	12.0	38.700856	-80.115910
51.4	sraa412	UNT to Lick Run	Intermittent	4.0	8.0	38.699552	-80.112633
51.4	sraa413	UNT to Lick Run	Intermittent	4.0	10.0	38.698279	-80.112396
51.6	sraa406	UNT to Lick Run	Intermittent	4.0	10.0	38.698199	-80.118051
51.6	sraa407	UNT to Lick Run	Intermittent	4.0	10.0	38.697077	-80.118043
51.7	sraa414	UNT to Lick Run	Intermittent	3.0	9.0	38.694419	-80.115149
51.7	sraa415	UNT to Lick Run	Intermittent	3.0	8.0	38.693176	-80.115424
51.8	sraa416	UNT to Lick Run	Perennial	7.0	12.0	38.690445	-80.116914
51.8	sraa417	UNT to Lick Run	Intermittent	3.0	4.0	38.690229	-80.117349
52.0	sraa418	UNT to Lick Run	Intermittent	4.0	10.0	38.689512	-80.119528
52.1	sraa419	UNT to Beech Run	Perennial	14.0	28.0	38.694045	-80.131479
52.1	sraa420	Beech Run	Perennial	25.0	35.0	38.693417	-80.132140
52.1	sraa408	Beech Run	Perennial	25.0	40.0	38.689894	-80.127199
52.4	sraa421	UNT to Beech Run	Intermittent	3.0	15.0	38.684441	-80.128899
52.8	sraa422	UNT to Beech Run	Intermittent	3.0	12.0	38.679164	-80.131097
52.8	sraa423	UNT to Beech Run	Intermittent	3.0	12.0	38.678324	-80.131462
52.9	sraa424	UNT to Beech Run	Intermittent	2.0	10.0	38.676299	-80.131968
53.1	srac113	Left Fork Buckhannon River	Perennial	45.0	60.0	38.672670	-80.146582

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.2-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Waterbodies**

Facility/State/Count/ Approximate Milepost	Unique ID	U.S. Geological Survey Name	Hydrologic Regime	OHW Width (feet)	Bank to Bank Width (feet)	Latitude	Longitude
53.1	srac114	UNT to Left Fork Buckhannon River	Ephemeral	3.0	6.0	38.672380	-80.146457
54.0	srac116	UNT to Left Fork Buckhannon River	Perennial	10.0	15.0	38.669054	-80.146278
54.0	srac117	UNT to Left Fork Buckhannon River	Intermittent	3.0	5.0	38.668993	-80.146210
54.0	srac118	Left Fork Buckhannon River	Perennial	35.0	50.0	38.667119	-80.147941
54.1	srac125	Left Fork Buckhannon River	Perennial	25.0	35.0	38.662130	-80.151393
54.1	srac119	Left Fork Buckhannon River	Perennial	18.0	25.0	38.661929	-80.151091
54.1	srac120	UNT to Left Fork Buckhannon River	Intermittent	12.0	18.0	38.661232	-80.150749
54.1	srac121	Left Fork Buckhannon River	Perennial	50.0	60.0	38.660905	-80.150811
54.2	srac122	UNT to Left Fork Buckhannon River	Intermittent	10.0	15.0	38.660287	-80.150885
54.2	srac123	UNT to Left Fork Buckhannon River	Perennial	5.0	10.0	38.659173	-80.151100
54.3	sraa410	UNT to Phillips Camp Run	Intermittent	7.0	15.0	38.655506	-80.149551
54.3	srac124	UNT to Left Fork Buckhannon River	Perennial	22.0	28.0	38.656919	-80.151686
54.3	sraa409	Phillips Camp Run	Perennial	25.0	35.0	38.655606	-80.149864
55.0	sraa411	Short Run	Perennial	13.0	30.0	38.644690	-80.155361
55.1	srac128	UNT to Left Fork Buckhannon River	Perennial	10.0	15.0	38.642736	-80.164877
55.1	srac129	Long Run	Intermittent	20.0	25.0	38.640809	-80.160952
55.3	srap001	UNT to Long Run	Intermittent	3.0	5.0	38.637780	-80.156773
55.3	srap002	Long Run	Perennial	10.0	15.0	38.637702	-80.157136
55.3	srac130	UNT to Long Run	Intermittent	8.0	18.0	38.639385	-80.160564
55.3	srac131	UNT to Long Run	Intermittent	3.0	5.0	38.639230	-80.160509
63.9	srac139	UNT to Falling Spring Run	Intermittent	10.0	15.0	38.487148	-80.099121
63.9	srac155 ^a	UNT to Falling Spring Run	Ephemeral	3.0	6.0	38.495599	-80.095435
64.1	srac154	UNT to Falling Spring Run	Ephemeral	5.0	8.0	38.495122	-80.091982
64.2	orae111	Unnamed Pond	Open Water	NA	NA	38.499134	-80.087856
64.2	srae176	UNT to Falling Spring Run	Ephemeral	2.0	4.0	38.496954	-80.089023
64.2	orae110	Unnamed Pond	Open Water	NA	NA	38.499081	-80.087748
64.3	srac153	UNT to Falling Spring Run	Intermittent	6.0	12.0	38.495619	-80.089293
64.4	srac152	UNT to Falling Spring Run	Ephemeral	2.0	6.0	38.494908	-80.088490
64.5	srac149	UNT to Falling Spring Run	Ephemeral	2.0	10.0	38.491194	-80.089760

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.2-1 (cont'd)

**Atlantic Coast Pipeline
Surveyed Waterbodies**

Facility/State/Count/ Approximate Milepost	Unique ID	U.S. Geological Survey Name	Hydrologic Regime	OHWM Width (feet)	Bank to Bank Width (feet)	Latitude	Longitude
64.5	orac004	Unnamed Pond	Open Water	NA	NA	38.494690	-80.084253
64.5	srac151	UNT to Falling Spring Run	Ephemeral	2.0	6.0	38.492305	-80.087241
64.5	srac150	UNT to Falling Spring Run	Intermittent	4.0	12.0	38.491909	-80.087369
64.5	srac140	UNT to Falling Spring Run	Ephemeral	6.0	15.0	38.486770	-80.094499
64.5	srac141	UNT to Falling Spring Run	Intermittent	6.0	15.0	38.486133	-80.091551
64.5	srac142	UNT to Falling Spring Run	Intermittent	8.0	15.0	38.485735	-80.089735
64.5	srac143	UNT to Falling Spring Run	Intermittent	4.0	10.0	38.485718	-80.089707
64.6	srac148	UNT to Falling Spring Run	Intermittent	4.0	8.0	38.487586	-80.087070
64.6	srae113	UNT to Falling Spring Run	Ephemeral	1.0	6.0	38.491163	-80.083470
64.6	srac146	UNT to Falling Spring Run	Intermittent	5.0	12.0	38.484461	-80.086866
64.6	srac147	UNT to Falling Spring Run	Ephemeral	3.0	8.0	38.485329	-80.086782
64.7	srae115	UNT to Falling Spring Run	Ephemeral	2.0	6.0	38.494051	-80.078348
64.7	srae116	UNT to Falling Spring Run	Ephemeral	1.0	4.0	38.494194	-80.078291
64.8	srae117	UNT to Falling Spring Run	Intermittent	3.0	15.0	38.495320	-80.076931
64.9	srae137	UNT to Falling Spring Run	Intermittent	8.0	15.0	38.494546	-80.074272
64.9	srae138	UNT to Falling Spring Run	Intermittent	3.0	5.0	38.495020	-80.073474
64.9	srae139	UNT to Falling Spring Run	Ephemeral	3.0	5.0	38.495188	-80.073160
64.9	srae140	UNT to Falling Spring Run	Ephemeral	2.0	4.0	38.495508	-80.072324
64.9	srae141	UNT to Falling Spring Run	Intermittent	10.0	20.0	38.495153	-80.071774
65.0	srae142	UNT to Falling Spring Run	Ephemeral	3.0	5.0	38.495095	-80.070727
65.3	srac112	UNT to Mingo Run	Intermittent	12.0	20.0	38.486240	-80.069435
65.4	srae208	Mingo Run	Perennial	8.0	12.0	38.487337	-80.065977
65.4	srae207	UNT to Mingo Run	Intermittent	5.0	12.0	38.485661	-80.066266
65.5	srae124	UNT to Mingo Run	Intermittent	8.0	12.0	38.483691	-80.066431

^a SRAC155 crosses both USACE Pittsburgh and Huntington Districts.

Notes: NA = Not applicable; OHWM = Ordinary High Water Mark; UNT = Unnamed Tributary

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.3-1

**Atlantic Coast Pipeline
Seep Points**

Facility/State/County/ Approximate Milepost	Unique ID	Latitude	Longitude
MAINLINE PIPELINES			
AP-1			
WEST VIRGINIA			
Lewis			
2.4	pleb103	39.149063	-80.542236
17.3	plea075	39.051136	-80.368370
Upshur			
34.9	pupb101	38.901554	-80.195946
36.4	pupe002	38.880409	-80.192604
36.9	pupa009	38.879326	-80.183800
38.6	pupb004	38.862549	-80.167809
40.4	pupb102	38.848595	-80.146301
Randolph			
44.2	prab001	38.811150	-80.102020
45.7	prab101	38.793304	-80.097748
46.0	prab103	38.790722	-80.093079
46.3	prab102	38.785625	-80.094650
48.8	prac100	38.745338	-80.101791
50.4	prac102	38.719368	-80.110046
50.4	praa485	38.716850	-80.105499
50.4	praa488	38.717194	-80.106842
50.4	praa483	38.716331	-80.106842
50.5	prac103	38.717712	-80.111313
50.5	praa482	38.714912	-80.107582
50.5	praa481	38.714542	-80.108185
50.5	prac104	38.716179	-80.112465
50.6	prac105	38.715668	-80.112564
50.6	praa400	38.714710	-80.113754
50.7	praa402	38.712917	-80.114426
50.8	prae001	38.710571	-80.113419
50.9	prae002	38.708931	-80.112511
50.9	prae005	38.708401	-80.112404
51.0	prae003	38.708305	-80.112511
51.0	prae004	38.708157	-80.112709
51.0	prae007	38.707840	-80.112061
51.0	prae006	38.707687	-80.112579
51.0	prae008	38.707493	-80.111931
51.0	praa403	38.707035	-80.112541
51.0	prae009	38.707092	-80.111794
51.0	praa405	38.706924	-80.112267
51.0	praa404	38.706856	-80.112381
51.3	praa406	38.701584	-80.115288
51.4	praa407	38.700035	-80.115967
51.4	praa408	38.699982	-80.116173
51.5	praa410	38.698639	-80.118111
51.5	praa412	38.698475	-80.118500
51.5	praa413	38.698296	-80.118416
51.6	praa411	38.698273	-80.117996
51.6	praa414	38.698219	-80.118462
51.6	praa415	38.697021	-80.118042

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.3-1 (cont'd)

**Atlantic Coast Pipeline
Seep Points**

Facility/State/County/ Approximate Milepost	Unique ID	Latitude	Longitude
51.7	praa416	38.695694	-80.119591
51.7	praa423	38.695164	-80.119545
51.8	praa422	38.695007	-80.120392
51.9	praa421	38.694176	-80.122551
52.0	praa420	38.692192	-80.124397
52.0	praa417	38.691708	-80.125610
52.0	praa419	38.691177	-80.125092
52.1	praa441	38.691807	-80.128616
52.1	praa439	38.689373	-80.125290
52.2	praa428	38.689346	-80.127441
52.2	praa443	38.690598	-80.130157
52.2	praa447	38.690178	-80.129677
52.2	praa444	38.689651	-80.129059
52.2	praa446	38.689880	-80.129509
52.2	praa427	38.688873	-80.128372
52.3	praa425	38.686623	-80.130211
52.6	praa453	38.682545	-80.129799
52.7	praa454	38.679413	-80.131088
52.8	praa455	38.678513	-80.131409
52.8	praa456	38.678436	-80.131424
52.9	praa459	38.677071	-80.131836
53.7	praa430	38.659897	-80.137512
53.8	praa429	38.659908	-80.137695
54.0	praa432	38.659744	-80.144218
54.0	praa431	38.659870	-80.144257
54.1	praa433	38.659492	-80.145790
54.3	praa434	38.656647	-80.149162
54.3	praa436	38.656456	-80.148949
54.3	praa435	38.656525	-80.149078
54.6	prac118	38.652069	-80.161667
55.0	prac121	38.644230	-80.156807
55.0	prap001	38.643242	-80.155525
55.1	prap002	38.642555	-80.155266
55.1	prac119	38.641193	-80.160782
55.3	prap003	38.637783	-80.156281
55.3	prap004	38.637501	-80.156898
55.4	prae404	38.637772	-80.158333
55.4	prap005	38.637115	-80.157486
55.4	prap006	38.636795	-80.157578
55.6	prap007	38.631790	-80.157928
55.8	prap008	38.628593	-80.156990
63.9	prac127	38.487045	-80.099190
64.3	prae146	38.497021	-80.086479
64.7	prae115	38.492474	-80.079033
64.7	prac114	38.492485	-80.078995
64.7	prae116	38.494282	-80.078308
64.9	prae135	38.495007	-80.073433
64.9	prac113	38.492577	-80.073906
64.9	prae136	38.495270	-80.071724

Atlantic Coast Pipeline
Wetland and Waterbody Survey Report

TABLE 3.4-1

**Atlantic Coast Pipeline
Non-Water Points**

Facility/State/ County/ Approximate Milepost	Unique ID	Non-Water Point Type	Latitude	Longitude
MAINLINE PIPELINES				
AP-1				
WEST VIRGINIA				
Lewis				
9.2	nolea001	NWI Poly	39.130091	-80.444085
19.0	nolec001	NHD Line	39.030782	-80.3491605
Upshur				
24.9	noupc001	Aerial Signature	38.990830	-80.2891056
24.9	noupc002	Aerial Signature	38.990395	-80.2890418
26.6	noupa001	NHD Line	38.972997	-80.2692139
28.4	noupa002	NHD Line	38.953664	-80.2532032
28.6	noupb101	NHD Line	38.951684	-80.2485668
29.3	noupb001	NHD Line	38.943543	-80.2530187
29.4	noupb002	NWI Poly	38.9425363	-80.2541408
37.7	noupa003	NHD Line	38.8716748	-80.1763337
38.7	noupb050	NHD Line	38.8697938	-80.1647921
39.6	noupb052	NHD Line	38.8544031	-80.1602180
39.8	noupb102	NHD Line	38.8569431	-80.1542757
Randolph				
48.6	norae071	NHD Line	38.741356	-80.073318
48.8	norae070	NHD Line	38.740674	-80.082772
52.2	noraa400	Other	38.688056	-80.128581
54.1	norae050	NHD Line	38.663754	-80.151030
54.1	norae051	NHD Line	38.662645	-80.151110
Notes: NHD = National Hydrography Dataset; NWI = National Wetlands Inventory				

4.0 REFERENCES

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ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody and Wetland Delineation Report

APPENDIX A

Wetland Datasheets and Photo Pages

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Wetland Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Harrison County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Wetland Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Lewis County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Wetland Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Upshur County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Wetland Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Randolph County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Wetland Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Pocahontas County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody and Wetland Delineation Report

APPENDIX B

Waterbody Datasheets and Photo Pages

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Harrison County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Lewis County

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Waterbody Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Upshur County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Randolph County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody Datasheets and Photo Pages

MAIN LINE PIPELINE

AP-1

Pocahontas County

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody and Wetland Delineation Report

APPENDIX C

Seep Point Photo Pages

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody and Wetland Delineation Report

APPENDIX D

Non-Water Point Datasheets and Photo Pages

ATLANTIC COAST PIPELINE ENVIRONMENTAL SURVEY

Waterbody and Wetland Delineation Report

APPENDIX E

**U.S. Geological Survey (USGS) 7.5-Minute
Topographic and Aerial Photography Maps**