

Resource Report 7 -Soils

Table 7.3-1

Summary of Soils and Potential Major Limitations

AES Sparrows Point Project

Facilities & Location County, State & MP	Soil Association Name	Map ID	Mileposts	Potential Shallow Bedrock ⁽¹⁾	Potential for Poor Revegetation ⁽²⁾	Potential for Wet Soils & Compaction Susceptibility ⁽³⁾	Highly Erodible Soils ⁽⁴⁾
Sparrows Point LNG Terminal Baltimore, MD MP 0.0	OTHELLO-ELKTON-MATTAPEX	MD005	MP 0.0 - MP 8.6	NO	NO	YES	NO
Mid-Atlantic Express Pipeline Baltimore, MD MP 0.0 - 22.2	WATER (Back River)	MDW	MP 8.6 - MP 8.9	NA	NA	NA	NA
	OTHELLO-ELKTON-MATTAPEX	MD005	MP 8.9 - MP 10.8	NO	NO	YES	NO
	SUNNYSIDE-CHRISTIANA-MUIRKIRK	MD007	MP 10.8 - MP 12.0	NO	NO	NO	NO
	OTHELLO-ELKTON-MATTAPEX	MD005	MP 12.0 - MP 12.1	NO	NO	YES	NO
	SUNNYSIDE-CHRISTIANA-MUIRKIRK	MD007	MP 12.1 - MP 17.2	NO	NO	NO	NO
	BELTSVILLE-CROOM-LEONARDTOWN	MD002	MP 17.2 - MP 18.1	NO	NO	NO	YES
	NESHAMINY-LEHIGH-GLENELG	MD029	MP 18.1 - MP 18.4	NO ⁽⁵⁾	NO	YES	YES
	BELTSVILLE-CROOM-LEONARDTOWN	MD002	MP 18.4 - MP 20.5	NO	NO	NO	YES
	NESHAMINY-LEHIGH-GLENELG	MD029	MP 20.5 - MP 26.8	YES	NO	YES	YES
Mid-Atlantic Express Pipeline Harford, MD MP 22.2-44.2	MANOR-GLENELG-CHESTER	MD011	MP 26.8 - MP 32.3	NO	NO	NO	YES
	NESHAMINY-LEHIGH-GLENELG	MD029	MP 32.3 - MP 33.0	YES	NO	YES	YES
	MANOR-GLENELG-CHESTER	MD011	MP 33.0 - MP 34.3	NO	NO	NO	YES
	NESHAMINY-LEHIGH-GLENELG	MD029	MP 34.3 - MP 35.6	YES	NO	YES	YES
	MANOR-GLENELG-CHESTER	MD011	MP 35.6 - MP 36.0	NO	NO	NO	YES
	NESHAMINY-LEHIGH-GLENELG	MD029	MP 36.0 - MP 37.3	YES	NO	YES	YES
	CHROME-CONOWINGO-NESHAMINY	MD030	MP 37.3 - MP 40.3	YES	NO	NO	YES
	NESHAMINY-LEHIGH-GLENELG	MD029	MP 40.3 - MP 43.9	YES	NO	YES	YES
Cecil, MD MP 44.2-48.3	WATER (Susquehanna River)	MDW	MP 43.9 - MP 44.4	NA	NA	NA	NA
	NESHAMINY-LEHIGH-GLENELG	MD029	MP 44.4 - MP 47.0	YES	NO	YES	YES
Lancaster, PA MP 48.3-56.3	CHROME-CONOWINGO-NESHAMINY	MD030	MP 47.0 - MP 48.1	YES	NO	NO	NO
	CHROME-CONOWINGO-NESHAMINY	PA086	MP 48.1 - MP 49.2	YES	NO	NO	YES
	CHESTER-GLENELG-MANOR	PA061	MP 49.2 - MP 70.4	NO	NO	NO	YES
Chester, PA MP 56.3-87.9	HAGERSTOWN-DUFFIELD-CLARKSBURG	PA058	MP 70.4 - MP 72.1	YES	NO	NO	NO
	CHESTER-GLENELG-MANOR	PA061	MP 72.1 - MP 79.5	NO ⁽⁵⁾	NO	NO	YES
	HAGERSTOWN-DUFFIELD-CLARKSBURG	PA058	MP 79.5 - MP 80.9	YES	NO	NO	NO
	EDGEMONT-HIGHFIELD-BUCHANAN	PA066	MP 80.9 - MP 81.5	YES	NO	NO	YES
	CHESTER-GLENELG-MANOR	PA061	MP 81.5 - MP 82.5	NO	NO	NO	NO
	EDGEMONT-HIGHFIELD-BUCHANAN	PA066	MP 82.5 - MP 83.1	YES	NO	NO	YES
	CHESTER-GLENELG-MANOR	PA061	MP 83.1 - MP 87.6	NO	NO	NO	NO

Footnotes:

(1) A "YES" indicates potential shallow bedrock based on soil data indication that >25% of the soils mapped in the association have rock depth of <60 inches (excluding reported soft bedrock). Topsoil segregation, limiting rock backfill top of bedrock profile in the trench and rock removal mitigation measures will be completed in accordance with the Sparrows Point Project Environmental Construction Plan (Appendix 2A of Resource Report 2).

(2) A "YES" indicates poor revegetation potential on the basis that soils have poor or very poor designations for ability to support various habitat type vegetative growth.

(3) A "YES" indicates potential for compaction susceptibility on the basis that in the upper-most two feet, >25% of the soils in the association have more than 30% clay and are poorly/very poorly drained soil. Decomposition of soils

(4) A "YES" indicates potential for erosion on the basis of mapped highly erodible soils in excess of 25% of the association. Temporary and permanent erosion control measures, revegetation and maintenance will be completed in accordance with the Sparrows Point Project Environmental Construction Plan (Appendix 2A of Resource Report 2).

(5) Shallow bedrock areas (depths less than five feet) identified using SSURGO soil data (Table 7.3-1) - but adjusted based on geologic reference materials and field observations (MP 18.1-18.4 is excluded and MP 74.2-74.3 is included as potential shallow bedrock). Mitigation measures for blasting activities, if necessary, in shallow bedrock areas are included in Resource Report 9 and Appendix 6A - Project Blasting Plan.

NA indicates not applicable

Soils data source - United States Department of Agriculture State Soil Geographic (STATSGO) databases for Maryland and Pennsylvania.

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Table 7.3-2

Aboveground Facilities - Summary of Soil Series and Potential Limitations
AES Sparrows Point Project

Facility	Milepost	Soil Series Affected	Prime, Unique or Farmland of Statewide Importance	Temporary Acreage Affected	Permanent Acreage Affected	Percent of Total Permanent Area Affected	Soil Survey ID	Potential Soil Limitations
Sparrows Point LNG Terminal	0.0	Made Land	No	32	32	69.3%	Ma	Wet or seasonally wet soils. See Preliminary Geotechnical Report on Sparrows Point included as Appendix J in Resource Report 13, <i>Engineering Design Material</i> for detailed soil conditions and engineering considerations.
		Mattapex-Urban Complex 0-5% slopes	No	13	13	28.1%	MmB	
Mid-Atlantic Express Pipeline Mainline Valves (9 locations)	MP 9.8	Woodstown Sandy Loam 0-3% slopes	Yes- Prime Farmland	0.1	0.05	0.1%	WdA	Highly erodible soils.
		Sassafras Sandy Loam 2-5% slopes					ShB	
	MP 19.8	Joppa Gravelly Sand Loam 5-10% slpes	Yes- Statewide Importance	0.1	0.05	0.1%	JpC2	Highly erodible soils.
	MP 29.4	Glenelg Loam 8-15% slopes	Yes- Statewide Importance	0.1	0.05	0.1%	GcC2	Highly erodible soils.
	MP 39.4	Aldino Silt Loam 3-8% slopes	Yes- Statewide Importance	0.1	0.05	0.1%	AdB	Highly erodible and seasonally wet soils.
	MP 49.4	Chester Silt Loam 3-8% slopes	No	0.1	0.05	0.1%	CbB	Highly erodible soils.
	MP 59.1	Glenelg Silt Loam 3-8% slopes	Yes- Prime Farmland	0.1	0.05	0.1%	GgB	Highly erodible soils.
	MP 69.2	Codorus Silt Loam (0-5% slopes)	Yes- Prime Farmland	0.1	0.05	0.1%	Co	Highly erodible soils.
	MP 78.4	Manor Loam 8-15% slopes	Yes- Statewide Importance	0.1	0.05	0.1%	MaC	Highly erodible soils.
	MP 83.21	Gladstone Gravelly Silt 25-55% slopes	No	0.1	0.05	0.1%	GfF	Highly erodible soils.
Mid-Atlantic Express Pipeline Interconnect Locations	Transco - MP 81.5	Edgemont channery loam (8-15% slopes)	No	0.5	0.24	0.5%	EdC	Highly erodible soils.
		Cokesbury silt loam (0-3% slopes)	No	0.5	0.01	<0.10%	CpA	Wet or seasonally wet soils.
	Columbia - MP 87.6	Califon loam (8-15% slopes)	No	0.5	0.25	0.5%	CaC	Wet or seasonally wet soils.
	TETCO - MP 87.6	Califon loam (8-15% slopes)	No	0.5	0.25	0.5%	CaC	Wet or seasonally wet soils.
TOTAL				47.9	46.2	100.0%		

Notes:

1. Mid-Atlantic Express Pipeline interconnect locations include Columbia Gas Transmission Corporation (Columbia), Transcontinental Gas Pipe Line Corporation (Transco) and Texas Eastern Transmission Corporation (TETCO)
2. Soils data source - United States Department of Agriculture Soil Survey Geographic (SSURGO) database for Baltimore, Cecil and Harford Counties, Maryland and Lancaster and Chester Counties, Pennsylvania
3. Temporarily disturbed soils (beyond permanent acreage provided above) at these locations will be restored to pre-construction condition or better in accordance with the Project Environmental Construction Plan mitigation and restoration measures.
4. For purposes of the above ground facilities, no shallow bedrock (less than 3.5 feet) was identified for any of the mapped soil series.

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Table 7.4-1

Summary of Soil Sampling Results - Sparrows Point LNG Terminal
AES Sparrows Point Project

Chemical	Sample ID (Depth in feet)										Sample ID												Maryland Soil Cleanup Standards ⁽¹⁾					
	AES (Haley & Aldrich) Samples Collected 2006										GZA Samples Collected 2005												Non-Residential Clean-up Standard	Protection of Groundwater ⁽²⁾				
	HA-204 (0.5-2.0)	HA-207 (2.0-3.5)	HA-208 (0.0-2.0)	HA-212 (0.0-2.0)	HA-213 (2.0-3.5)	HA-215 (0.5-2.0)	HA-216 (0.0-1.5)	HA-216 (12.5-14.0)	HA-217 (1.0-3.0)	HA-217 (7.0-9.0)	B-03 (0.0-0.5)	B-10 (0.0-0.5)	B-13 (0.0-0.5)	B-23 (0.0-2.0)	B-24 (0.0-2.0)	B-26 (0.0-2.0)	B-27 (0.0-2.0)	GZ-04S (0.0-0.5)	GZ-12 (0.0-0.5)	GZ-13 (0.0-0.5)	GZ-14 (0.0-0.5)	GZ-15S (0.0-0.5)			GZ-35 (0.0-2.0)	T-7 *	T-9 *	
Volatiles Organics (ug/kg)																												
Naphthalene	<5	<4	<4	<4	14	<4	<4	<5	<4	<6	<60	<60	-	<0.085	<90	<65	0	-	-	-	-	<70	<100	-	-	4100000	330	
Semivolatile Organics (ug/kg)																												
2-Methylnaphthalene	<110	-	-	<950	-	<92	<940	<76	<91	140	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	4100000	22000	
3,3-Dichlorobenzidine	<110	-	-	<950	-	<92	<940	<76	<91	180	-	-	-	-	-	-	-	-	-	-	-	<660	-	-	-	13000	330	
Acenaphthene	<110	-	-	<950	-	<92	<940	<76	<91	120	-	-	-	-	-	-	-	-	-	-	-	<330	-	-	-	12000000	100000	
Acenaphthylene	<110	-	-	<950	-	<92	<940	<76	<91	510	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	12000000	100000	
Anthracene	<110	-	-	<950	-	<92	<940	<76	<91	1500	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	61000000	470000	
Benzo[a]anthracene	660	-	-	<950	-	160	<940	<76	200	4300	-	-	-	-	-	-	-	-	-	-	-	2000	-	-	-	7800	1500	
Benzo[a]pyrene	680	-	-	<950	-	130	<940	<76	210	3100	-	-	-	-	-	-	-	-	-	-	-	1000	-	-	-	780	370	
Benzo[b]fluoranthene	1600	-	-	<950	-	440	1100	<76	430	6700	-	-	-	-	-	-	-	-	-	-	-	2000	-	-	-	7800	4500	
Benzo[g,h,i]perylene	<110	-	-	<950	-	<92	<940	<76	190	910	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	61000000	680000	
Benzo[k]fluoranthene	960	-	-	<950	-	240	<940	<76	260	3500	-	-	-	-	-	-	-	-	-	-	-	1000	-	-	-	78000	45000	
Bis (2-ethylhexyl) phthalate	<110	-	-	<950	-	<92	2800	<76	1300	<99	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	410000	2900000	
Butyl benzyl phthalate	<110	-	-	<950	-	<92	<940	<76	300	<99	-	-	-	-	-	-	-	-	-	-	-	<330	-	-	-	N/A	N/A	
Carbazole	<110	-	-	<950	-	<92	<940	<76	<91	290	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	290000	470	
Chrysene	640	-	-	<950	-	190	<940	<76	210	3600	-	-	-	-	-	-	-	-	-	-	-	3000	-	-	-	780000	150000	
Dibenz[a,h]anthracene	<110	-	-	<950	-	<92	<940	<76	<91	340	-	-	-	-	-	-	-	-	-	-	-	<330	-	-	-	780	1400	
Dibenzofuran	<110	-	-	<950	-	<92	<940	<76	<91	640	-	-	-	-	-	-	-	-	-	-	-	<330	-	-	-	820000	7700	
Fluoranthene	910	-	-	<950	-	350	1000	<76	500	12000	-	-	-	-	-	-	-	-	-	-	-	5000	-	-	-	8200000	6300000	
Fluorene	<110	-	-	<950	-	<92	<940	<76	<91	550	-	-	-	-	-	-	-	-	-	-	-	<330	-	-	-	8200000	140000	
Indeno[1,2,3-cd]pyrene	<110	-	-	<950	-	<92	<940	<76	190	910	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	7800	13000	
Phenanthrene	170	-	-	<950	-	130	<940	<76	450	7700	-	-	-	-	-	-	-	-	-	-	-	2000	-	-	-	61000000	470000	
Pyrene	680	-	-	<950	-	240	1500	<76	330	11000	-	-	-	-	-	-	-	-	-	-	-	4000	-	-	-	6100000	680000	
PCBs (mg/kg)																												
Aroclor 1260	<0.061	-	-	<0.54	-	<0.055	30	<0.57	<0.051	<0.073	<0.025	<0.025	0	-	-	-	-	<0.025	0	0	<0.025	<0.025	-	49 5	2.9	N/A		
Metals (mg/kg)																												
Antimony	<2.1	<2.7	<2	<2.3	<2.2	<2.3	11	<2.2	<2.4	2.5	<6.54	6.91	22.1	<5.42	<7.42	<6.65	<2.95	<8.05	16.8	<6.55	<5.4	<5.63	<5.67	-	-	82	N/A	
Arsenic	5.1	9.9	1.1	2.2	14	1.5	7.2	170	15	28	8.41	<2.08	5.44	20.8	19.7	11.8	15	<2.15	7.66	11.5	16.3	3.56	17.7	-	-	3.8	N/A	
Beryllium	<2.1	<2.7	<2	3.9	<2.2	<2.3	3	<2.2	<2.4	<2	<0.872	3.1	2.15	<1.08	<1.06	<1.11	<0.591	4.94	1.55	1.68	<1.08	1.69	<1.13	-	-	410	N/A	
Cadmium	<2.1	<2.7	<2	<2.3	6.9	<2.3	8.4	<2.2	17	5.9	2.63	<1.04	5.1	<1.08	<1.06	<1.11	<0.591	<1.07	5.83	2.84	1.35	<1.13	2.42	-	-	100	N/A	
Chromium ⁽³⁾	31	230	1600	19	61	830	170	11	540	18	<3.6	<0.87	<1.7	<3.8	<1.8	<1.9	<1.7	<0.9	<0.89	<1.9	<1.9	<1.8	<3.9	-	-	610	N/A	
Copper	10	73	17	22	160	24	85	230	73	160	288	107	204	190	257	108	64.1	78.9	167	358	412	323	177	-	-	8200	N/A	
Lead	630	100	19	110	360	240	820	13	500	1600	532	297	1000	1150	1480	196	683	491	516	3210	1120	613	405	-	-	400	N/A	
Mercury	0.2	0.73	0.21	<0.093	0.19	0.15	0.24	0.1	0.39	0.098	0.117	0.146	<0.0271	0.935	0.913	0.113	0.798	<0.0305	0.0841	0.285	0.692	0.272	0.0835	-	-	0.12	N/A	
Nickel	10	23	8.3	5.6	31	9.8	20	9.2	80	14	70.5	25.7	38.8	29.7	78.9	201	10.4	8.57	67.6	32.7	29.4	13.6	25.4	-	-	4100	N/A	
Selenium	3.3	<2.7	<2	2.5	<2.2	<2.3	<2.6	3.3	<2.4	<2	15	<5.2	<7.65	<5.42	<7.42	<6.65	<2.95	<8.05	8.78	<6.55	8.21	<5.63	7.6	-	-	1000	N/A	
Silver	<2.1	<2.7	<2	<2.3	<2.2	<2.3	<2.6	<2.2	<2.4	2.2	2.96	<1.04	<1.02	<1.08	<1.06	<1.11	<0.591	<1.07	<0.878	<1.31	<1.08	<1.13	<1.13	-	-	1000	N/A	
Zinc	28	190	43	150	1000	36	1100	8.1	430	1400	2250	654	26300	415	555	441	637	470	15500	1460	759	970	988	-	-	61000	N/A	
Miscellaneous Parameters																												
Cyanide (mg/kg)	3.5	0.49	<0.25	1.1	0.25	0.3	1.1	0.85	0.6	0.55	<11	<10	<10	<11	<11	<10	<10	<10	<11	<10	<10	<11	<10	-	-	4100	N/A	

Notes:

Nondetected results show the sample reporting limit preceded by a "<" symbol.

-- indicates not analyzed for parameter.

Sample Identification provided with sample depths below ground surface (where data was available).

* indicates surficial soil sample, specific depth not available

Footnotes:

(1) Values are from the State of Maryland Department of the Environment Cleanup Standards for Soil and Groundwater, August 2001.

(2) Standard based on US Environmental Protection Agency Region III Soil Screening Levels for groundwater migration using a dilution attenuation factor (DAF) of 20.

(3) Cleanup standards based on Hexavalent Chromium.

Acronyms:

PCB = Polychlorinated Biphenyl

N/A = Not Available/Not Applicable

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Table 7.4-2

Summary of Agricultural and Residential Land Use
AES Sparrows Point Project

Crossing Type	Approximate Enter Milepost (MP)	Approximate Exit Milepost (MP)	Area Length	Mitigation Methods
Residential	11.11	11.16	0.06	Residential property construction will include FERC mitigation measures as described in Resource Report 8.
Residential	12.13	12.30	0.17	
Residential	15.92	15.92	<0.01	
Residential	16.72	16.83	0.10	Topsoil segregation and restoration will be completed in accordance with the Sparrows Point Project Environmental Construction Procedure (ECP) plan.
Residential	16.89	16.89	<0.01	
Residential	17.58	18.12	0.55	
Residential	19.61	19.67	0.06	
Residential	19.71	19.88	0.17	
Residential	20.40	20.40	<0.01	Site specific residential measures for properties with residential structures within 25 or 50 feet of the construction right-of-way will also have site specific residential plans developed in accordance with the FERC requirements.
Residential	20.71	21.09	0.38	
Residential	21.10	21.10	<0.01	
Residential	21.25	21.52	0.27	
Residential	21.72	21.82	0.10	
Residential	23.02	23.17	0.15	
Residential	23.35	23.42	0.08	
Residential	26.04	26.06	0.01	
Residential	26.67	26.92	0.25	
Residential	27.34	27.42	0.08	
Residential	34.01	34.19	0.18	
Residential	34.88	35.25	0.37	
Residential	36.22	36.25	0.03	
Residential	38.51	38.65	0.14	
Residential	38.69	38.83	0.14	
Residential	39.16	39.27	0.11	
Residential	39.50	39.50	<0.01	
Residential	40.13	40.54	0.41	
Residential	40.78	40.85	0.08	
Residential	41.29	41.43	0.14	
Residential	42.34	42.40	0.06	
Residential	42.40	42.40	<0.01	
Residential	42.60	42.60	<0.01	
Residential	43.43	43.49	0.05	
Residential	46.54	46.55	0.01	
Residential	47.39	47.54	0.15	
Residential	49.89	50.07	0.18	
Residential	50.10	50.17	0.07	
Residential	52.76	53.28	0.53	
Residential	53.28	53.75	0.46	
Residential	54.60	54.60	<0.01	
Residential	55.65	55.78	0.13	
Residential	56.90	56.90	<0.01	
Residential	58.68	58.77	0.09	
Residential	61.80	61.80	<0.01	
Residential	62.80	62.80	<0.01	
Residential	63.39	63.51	0.12	
Residential	64.09	64.15	0.06	
Residential	65.38	65.56	0.18	
Residential	66.50	66.66	0.16	
Residential	67.12	67.41	0.29	
Residential	67.40	67.40	<0.01	
Residential	75.30	75.53	0.23	

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Table 7.4-2

Summary of Agricultural and Residential Land Use
AES Sparrows Point Project

Crossing Type	Approximate Enter Milepost (MP)	Approximate Exit Milepost (MP)	Area Length	Mitigation Methods
Residential	75.90	75.90	<0.01	
Residential	76.90	76.90	<0.01	
Residential	77.01	77.09	0.08	
Residential	77.15	77.75	0.59	
Residential	77.75	77.92	0.17	
Residential	78.40	78.40	<0.01	
Residential	78.43	78.55	0.12	
Residential	78.72	78.94	0.22	
Residential	79.70	79.84	0.14	
Residential	81.30	81.30	<0.01	
Residential	81.37	81.48	0.12	
Residential	81.52	81.67	0.15	
Residential	81.85	81.97	0.11	
Residential	82.20	82.20	<0.01	
Residential	83.01	83.66	0.65	
Residential	83.70	83.70	<0.01	
Residential	84.21	84.64	0.44	
Residential	84.90	84.90	<0.01	
Residential	85.20	85.20	<0.01	
Residential	85.34	85.38	0.04	
Residential	85.86	86.17	0.31	
Total Length = 25.2 miles				
Agricultural	9.80	9.99	0.19	Agricultural property construction will include FERC mitigation measures as detailed in the ECP. Topsoil segregation, decompaction, testing and revegetation will be completed in accordance with the ECP.
Agricultural	13.30	13.67	0.37	
Agricultural	17.30	17.30	<0.01	
Agricultural	17.50	17.59	0.09	
Agricultural	18.61	18.79	0.18	
Agricultural	18.84	19.16	0.32	
Agricultural	21.60	21.60	<0.01	
Agricultural	21.82	21.92	0.11	
Agricultural	21.93	22.02	0.09	
Agricultural	23.70	24.27	0.58	
Agricultural	24.83	24.86	0.03	
Agricultural	25.52	25.91	0.39	
Agricultural	27.47	27.57	0.10	
Agricultural	27.58	28.06	0.48	
Agricultural	29.11	29.22	0.11	
Agricultural	29.30	29.30	<0.01	
Agricultural	29.33	29.65	0.31	
Agricultural	29.81	29.88	0.07	
Agricultural	29.88	30.27	0.39	
Agricultural	30.28	30.47	0.19	
Agricultural	30.67	30.87	0.20	
Agricultural	31.07	31.23	0.16	
Agricultural	31.28	31.53	0.25	
Agricultural	31.60	31.60	<0.01	
Agricultural	31.67	31.85	0.18	
Agricultural	31.94	32.10	0.16	
Agricultural	32.45	33.15	0.70	
Agricultural	33.36	33.67	0.31	

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Table 7.4-2

Summary of Agricultural and Residential Land Use
AES Sparrows Point Project

Crossing Type	Approximate Enter Milepost (MP)	Approximate Exit Milepost (MP)	Area Length	Mitigation Methods
Agricultural	33.67	33.87	0.20	
Agricultural	34.19	34.45	0.26	
Agricultural	34.59	34.70	0.11	
Agricultural	34.73	34.88	0.15	
Agricultural	36.84	36.96	0.12	
Agricultural	37.13	37.41	0.28	
Agricultural	38.03	38.12	0.09	
Agricultural	38.79	38.97	0.18	
Agricultural	39.00	39.00	<0.01	
Agricultural	39.06	39.16	0.10	
Agricultural	39.30	39.30	<0.01	
Agricultural	39.34	39.44	0.11	
Agricultural	39.59	39.75	0.16	
Agricultural	39.90	40.13	0.23	
Agricultural	41.15	41.28	0.13	
Agricultural	41.43	41.54	0.11	
Agricultural	42.24	42.34	0.10	
Agricultural	42.40	42.59	0.19	
Agricultural	43.27	43.43	0.16	
Agricultural	45.62	45.81	0.18	
Agricultural	45.94	46.18	0.24	
Agricultural	46.71	47.15	0.43	
Agricultural	47.92	48.21	0.29	
Agricultural	48.20	48.58	0.37	
Agricultural	50.40	50.80	0.40	
Agricultural	51.00	51.35	0.35	
Agricultural	51.37	51.49	0.12	
Agricultural	51.67	51.85	0.18	
Agricultural	51.85	51.95	0.10	
Agricultural	52.09	52.35	0.26	
Agricultural	52.38	52.76	0.39	
Agricultural	53.74	53.92	0.19	
Agricultural	53.99	54.27	0.28	
Agricultural	54.26	54.60	0.34	
Agricultural	54.80	54.80	<0.01	
Agricultural	54.93	55.47	0.54	
Agricultural	56.51	56.81	0.30	
Agricultural	57.32	57.58	0.25	
Agricultural	57.66	57.75	0.10	
Agricultural	57.81	57.87	0.06	
Agricultural	58.37	58.68	0.30	
Agricultural	58.76	59.46	0.69	
Agricultural	59.45	59.82	0.37	
Agricultural	59.82	59.86	0.05	
Agricultural	59.86	60.34	0.47	
Agricultural	60.34	61.11	0.77	
Agricultural	61.19	61.56	0.37	
Agricultural	61.70	61.70	<0.01	
Agricultural	61.82	62.16	0.34	
Agricultural	62.46	62.67	0.21	
Agricultural	63.51	63.86	0.35	

Resource Report 7 -Soils

Table 7.4-2

Summary of Agricultural and Residential Land Use
AES Sparrows Point Project

Crossing Type	Approximate Enter Milepost (MP)	Approximate Exit Milepost (MP)	Area Length	Mitigation Methods
Agricultural	64.20	64.20	<0.01	
Agricultural	64.33	64.92	0.59	
Agricultural	64.88	65.11	0.23	
Agricultural	65.25	65.39	0.14	
Agricultural	65.55	66.00	0.45	
Agricultural	66.10	66.19	0.09	
Agricultural	66.65	66.78	0.13	
Agricultural	66.81	66.95	0.14	
Agricultural	67.75	68.60	0.84	
Agricultural	68.60	68.94	0.35	
Agricultural	68.94	69.32	0.38	
Agricultural	71.26	71.98	0.72	
Agricultural	72.27	72.50	0.23	
Agricultural	72.63	72.73	0.10	
Agricultural	72.74	72.87	0.13	
Agricultural	72.87	72.95	0.08	
Agricultural	73.04	73.06	0.02	
Agricultural	73.13	73.39	0.26	
Agricultural	74.60	74.60	<0.01	
Agricultural	75.60	75.60	<0.01	
Agricultural	75.99	76.09	0.09	
Agricultural	76.30	76.30	<0.01	
Agricultural	84.64	84.73	0.09	
Agricultural	85.08	85.18	0.10	
Agricultural	86.92	87.44	0.52	
Agricultural	87.50	87.50	<0.01	
Total Length = 10.6 miles				

Notes:

1. Areas less than 0.01 miles are shown with the same entry and exit milepost (MP) .
2. Table 8.3.2-1 of Resource Report 8 summarizes all the land use affected by Pipeline facilities.
3. Table 8.3.4-1 of Resource Report 8 identifies Residences Within 50 Feet of the construction right-of-way.

Resource Report 7 -Soils

Table 7.5-1

Soils & Agricultural Agency Contact Information

AES Sparrows Point Project

Contact Name-Title	Agency	Location
Brad Michael-District Conservationist	National Resources Conservation Service	Lancaster County, PA
Samuel High -District Conservationist	National Resources Conservation Service	Chester County, PA
Tim Clippinger -District Conservationist	National Resources Conservation Service	Baltimore County, MD
Lindsay G. Tulloch -District Conservationist	National Resources Conservation Service	Cecil County, MD
Cliff Bienko - District Conservationist	National Resources Conservation Service	Harford County, MD
Matt Knepper	Agricultural Preservation Board	Lancaster County, PA
Diana C. Hooper	Agricultural Preservation Board	Chester County, PA
Nevin Griner	Soil Conservation District	Lancaster County, PA
Don Greag	Soil Conservation District	Chester County, PA
Douglas M. Wolfgang - Chief	PA Department of Agriculture - Bureau of Farmland Preservation	Pennsylvania

Notes

Dates of contacts and correspondence log for above agencies provided in comprehensive summary in R