

Aquatic Resources Impact Table  
Wetland Resources  
Carbon County

Identification			Location					Wetland Temporary Impacts		Wetland Permanent Impacts			Crossing Information		
Wetland ID and Crossing Number <sup>1</sup>	State Wetland Classification <sup>2</sup>	Cowardin Classification <sup>3</sup>	Milepost <sup>4</sup>	Latitude	Longitude	Municipality <sup>5</sup>	Quadrangle	Temporary Crossing Length (feet) <sup>6</sup>	Temporary Impact Area (acres) <sup>7</sup>	Permanent Crossing Length (feet) <sup>8</sup>	Permanent Impact Area (acres) <sup>9</sup>	Conversion Area in 30-ft Maintained ROW (acres) <sup>10</sup>	Primary Pipeline Crossing Method <sup>11</sup>	Secondary Pipeline Crossing Method <sup>11</sup>	Temporary Equipment Crossing <sup>11</sup>
PennEast Mainline Pipeline															
110614_JC_004_PFO - 1	Other	PFO1	24.2	41.115643	-75.678725	Kidder Twp	Hickory Run	182	0.07	122	0.01	-	N/A - Workspace	-	Matted
110614_JC_004_PFO - 2	Other	PFO1	24.3	41.114476	-75.677936	Kidder Twp	Hickory Run	9	0.02	122	-	-	N/A - Workspace	-	Matted
110614_JC_002B_PFO	Other	PFO1	24.5	41.111399	-75.675920	Kidder Twp	Hickory Run	26	0.01	-	-	-	N/A - Workspace	-	Matted
102114_JC_001B_PFO	Exceptional (i, iii)	PFO1	26.4	41.086119	-75.662258	Kidder Twp	Hickory Run	15	0.01	26	0.03	0.02	CL - Open Cut	-	Matted
102114_JC_001_PEM - 1	Exceptional (i, iii)	PEM1	26.4	41.086005	-75.662304	Kidder Twp	Hickory Run	266	0.01	581	0.01	-	N/A - Workspace	-	Matted
102114_JC_001_PEM - 2	Exceptional (i, iii)	PEM1	26.5	41.085284	-75.661901	Kidder Twp	Hickory Run	336	0.10	107	0.21	0.09	CL - Open Cut	-	Matted
102114_JC_001_PEM - 3	Exceptional (i, iii)	PEM1	26.7	41.081699	-75.659664	Kidder Twp	Hickory Run	53	0.03	23	0.13	0.02	N/A - Workspace	-	Matted
102114_JC_001A_PSS - 1	Exceptional (i, iii)	PSS1	26.7	41.081862	-75.659884	Kidder Twp	Hickory Run	-	0.01	43	0.00	-	CL - Open Cut	-	Matted
102114_JC_001A_PSS - 3	Exceptional (i, iii)	PSS1	26.9R2	41.081509	-75.659634	Kidder Twp	Hickory Run	-	0.01	43	0.00	-	CL - Open Cut	-	Matted
102314_JC_004_PEM	Exceptional (ii, iii)	PEM1	27R2	41.080732	-75.658596	Kidder Twp	Hickory Run	-	-	187	0.01	-	CL - HDD	-	N/A
102314_JC_002_PFO - 1	Exceptional (i, iii)	PFO1	27.1R2	41.079456	-75.657718	Kidder Twp	Hickory Run	-	-	8	0.00	-	CL - HDD	-	N/A
102314_JC_002_PFO - 2	Exceptional (i, iii)	PFO1	27.1R2	41.079359	-75.657651	Kidder Twp	Hickory Run	-	-	66	0.00	-	CL - HDD	-	N/A
102314_JC_002_PSS	Exceptional (i, iii)	PSS3	27.1R2	41.078919	-75.657349	Kidder Twp	Hickory Run	-	-	1431	0.10	-	CL - HDD	-	N/A
042415_JC_1005_PEM	Other	PEM1	29.6R2	41.051670	-75.629090	Kidder Twp	Hickory Run	1073	0.11	820	0.00	0.09	N/A	-	Matted
050115_JC_1001_PFO	Other	PFO4	29.6R2	41.053412	-75.629399	Kidder Twp	Hickory Run	891	0.80	840	0.52	0.52	CL - Open Cut	-	Matted
042415_JC_1003_PSS	Other	PSS3	30.4R2	41.042392	-75.627013	Kidder Twp	Hickory Run	111	0.01	92	0.05	0.05	CL - Open Cut	-	Matted
042415_JC_1002_PEM	Exceptional (iii)	PEM1	31.1R2	41.031110	-75.624712	Kidder Twp	Hickory Run	1050	0.15	710	0.15	0.15	CL - Open Cut	-	Matted
042415_JC_1001_PFO	Exceptional (iii)	PFO4	31R2	41.033405	-75.625141	Kidder Twp	Hickory Run	1078	1.50	1677	0.99	0.99	CL - Open Cut	-	Matted
110316_GM_1001_PFO	Exceptional (iii)	PFO4	32.6R3	41.011968	-75.616020	Kidder Twp	Blakeslee	87	0.01	7	0.03	0.01	CL - Open Cut	-	Matted
110316_GM_1001_PEM - 1	Exceptional (iii)	PEM1	32.5R2	41.011952	-75.616033	Kidder Twp	Blakeslee	50	0.02	56	0.06	0.04	CL - Open Cut	-	Matted
110316_GM_1001_PEM - 2	Exceptional (iii)	PEM1	32.7R3	41.009635	-75.615419	Kidder Twp	Blakeslee	48	-	154	0.00	-	N/A - Workspace	-	Matted
110316_GM_1001_PEM - 3	Exceptional (iii)	PEM1	32.8R3	41.008848	-75.615244	Kidder Twp	Blakeslee	111	0.00	8	0.06	0.03	CL - Open Cut	-	Matted
042115_JC_1003_PFO	Exceptional (iii)	PFO1	33.6R3	40.996553	-75.611518	Penn Forest Twp	Pohopoco Mountain	335	0.26	159	0.01	0.01	N/A - Workspace	-	Matted
042315_JC_1002_PEM	Exceptional (i, iii)	PEM1	34.7R2	40.983453	-75.619842	Penn Forest Twp	Pohopoco Mountain	353	0.07	223	0.06	0.01	N/A - Workspace	-	Matted
042315_JC_1001_PFO - 1	Exceptional (i, iii)	PFO4	34.7R2	40.984455	-75.619152	Penn Forest Twp	Pohopoco Mountain	915	0.44	967	1.03	0.65	CL - Open Cut	-	Matted
042315_JC_1001_PFO - 2	Exceptional (i, iii)	PFO4	34.8R3	40.981068	-75.621210	Penn Forest Twp	Pohopoco Mountain	145	0.05	24	0.04	0.02	CL - Open Cut	-	Matted
042315_JC_1004_PFO	Other	PFO4	35.4	40.972313	-75.626340	Penn Forest Twp	Christmans	92	0.01	85	0.03	0.01	CL - Open Cut	-	Matted
010716_GM_1001_VP	Other	PEM2	35.5	40.970058	-75.627400	Penn Forest Twp	Christmans	-	-	48	0.01	0.00	N/A - Workspace	-	Matted

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060117_MB_1001_PFO - 1	Exceptional (ii, iii)	PFO1	35.9	40.964352	-75.629117	Penn Forest Twp	Christmans	423	0.04	308	0.02	0.00	CL - Open Cut	-	Matted
060117_MB_1001_PFO - 2	Exceptional (ii, iii)	PFO1	36	40.964075	-75.629276	Penn Forest Twp	Christmans	240	0.16	267	0.30	0.18	CL - Open Cut	-	Matted
060117_MB_1001_PEM	Exceptional (ii, iii)	PEM1	36	40.963439	-75.629484	Penn Forest Twp	Christmans	177	0.01	46	0.00	-	N/A - Workspace	-	Matted
060217_MB_1001_PEM	Exceptional (ii, iii)	PEM1	36.1	40.961855	-75.629758	Penn Forest Twp	Christmans	75	0.01	15	0.00	-	N/A - Workspace	-	Matted
060217_MB_1001_PFO	Exceptional (ii, iii)	PFO1	36.1	40.962413	-75.629560	Penn Forest Twp	Christmans	242	0.13	228	0.26	0.16	CL - Open Cut	-	Matted
050615_JC_1001_PFO - 1	Exceptional (i, ii, iii)	PFO1	36.5R3	40.955991	-75.630704	Penn Forest Twp	Christmans	75	0.06	36	0.02	0.02	CL - Open Cut	-	Matted
050615_JC_1001_PFO - 2	Exceptional (i, ii, iii)	PFO1	36.6R3	40.955700	-75.630753	Penn Forest Twp	Christmans	1003	1.08	1087	0.75	0.75	CL - Open Cut	-	Matted
061615_DB_1002_PFO	Exceptional (iii)	PFO1	37.1R3	40.947776	-75.632411	Penn Forest Twp	Christmans	339	0.19	341	0.39	0.23	CL - Open Cut	-	Matted
061615_DB_1001_PEM	Exceptional (iii)	PEM1	37.5	40.943342	-75.634640	Penn Forest Twp	Christmans	29	0.01	29	0.00	-	N/A - Workspace	-	Matted
020117_GM_1006_PFO	Exceptional (iii)	PFO1	41.2	40.903032	-75.599681	Penn Forest Twp	Pohopoco Mountain	135	0.03	70	0.09	0.05	CL - Open Cut	-	Matted
020117_GM_1001_PUB	Other	PEM2	41.5	40.901988	-75.594120	Towamensing Twp	Pohopoco Mountain	62	0.03	41	0.05	0.03	CL - Open Cut	-	Matted
041018_WA_002_PSS	Exceptional (iii)	PSS1	44.8R2	40.874330	-75.544486	Towamensing Twp	Palmerton	16	0.00	7	0.01	0.01	CL - Open Cut	-	Matted
052915_JC_1001_PEM	Exceptional (iii)	PEM1	45R2	40.872167	-75.541762	Towamensing Twp	Palmerton	42	0.02	30	0.04	0.02	CL - Open Cut	-	Matted
051115_JC_1001_PEM	Exceptional (iii)	PEM1	45.6	40.865673	-75.538076	Towamensing Twp	Palmerton	38	0.01	53	0.06	0.04	CL - Open Cut	-	Matted
090914_WA_001_PSS	Exceptional (iii)	PSS1	48.1	40.837834	-75.509004	Lower Towamensing Twp	Palmerton	64	0.01	53	0.05	0.04	CL - Open Cut	-	Matted
090914_WA_002_PSS	Exceptional (iii)	PSS1	48.1	40.837151	-75.508766	Lower Towamensing Twp	Palmerton	19	0.00	21	0.02	0.01	CL - Open Cut	-	Matted

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041117_GM_1001_PFO	Exceptional (i, iii)	PFO4	49.3R3	40.824437	-75.499273	Lower Towamensing Twp	Kunkletown	-	-	153	0.01	-	CL - Bore	-	-
041117_GM_1001_PSS	Exceptional (i, iii)	PSS1	49.3R3	40.824278	-75.499222	Lower Towamensing Twp	Kunkletown	-	-	116	0.01	-	CL - Bore	-	-
072618_WA_001_PEM	Exceptional (iii)	PEM1	50.6R3	40.821738	-75.479226	Lower Towamensing Twp	Kunkletown	85	0.05	61	0.08	0.05	CL - Open Cut	-	Matted
072618_WA_002_PEM	Exceptional (iii)	PEM2	50.6R4	40.821624	-75.479458	Lower Towamensing Twp	Kunkletown	12	0.00	4	0.00	-	N/A - Workspace	-	Matted
Kidder Compressor Station															
102114_JC_001A_PSS - 2	Exceptional (i, iii)	PSS1	26.8R2	41.081632	-75.659831	Kidder Twp	Hickory Run	-	-	43	0.07	0.00	CL - Open Cut	-	Matted
102114_JC_001_PEM - 4	Exceptional (i, iii)	PEM1	26.8R2	41.081670	-75.659739	Kidder Twp	Hickory Run	-	-	2	0.01	0.00	CL - Open Cut	-	Matted
102114_JC_001_PFO	Exceptional (i, iii)	PFO1	26.8R2	41.081424	-75.660624	Kidder Twp	Hickory Run	-	-	110	0.08	0.08	CL - Open Cut	-	Matted
082515_BT_003_PEM	Other	PEM1	26.7	41.081894	-75.663131	Kidder Twp	Hickory Run	-	-	39	0.01	-	N/A	-	N/A
112414_JC_004_PFO - 1	Other	PFO1	26.6	41.081747	-75.664910	Kidder Twp	Hickory Run	-	-	46	0.01	0.01	N/A	-	N/A
112414_JC_004_PFO - 2	Other	PFO1	26.7	41.081012	-75.663856	Kidder Twp	Hickory Run	-	-	135	0.98	0.01	N/A	-	N/A
082515_BT_004_PEM	Other	PEM1	26.6	41.081964	-75.665921	Kidder Twp	Hickory Run	-	-	39	0.00	-	N/A	-	N/A
Access Roads															
None															

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Notes:

- In instances where a wetland is crossed by the proposed pipeline or workspace multiple times, crossing numbers (e.g. "-1", "-2") have been added to the Wetland ID.
- Resource Value Definitions: Pennsylvania Exceptional Value Wetland as defined by PA Code §105.17 (relating to special criteria for projects affecting important wetlands). Criteria are:
  - Serves as habitat for fauna or flora listed as "threatened" or "endangered"
  - Is hydrologically connected to or located within a 1/2-mile from habitat for fauna or flora listed as "threatened" or "endangered" and wetland dependent;
  - Located in or along the floodplain of the reach or tributaries of a wild trout stream or waters listed as exceptional value;
  - Located along an existing public or private drinking water supply.
- Wetland Cover Type based on Cowardin, 1979  
Key: PEM1 = palustrine emergent, persistent; PEM2 = palustrine emergent, non-persistent; PFO1 = palustrine forested, broad-leaved deciduous; PFO4 = palustrine forested, needle-leaved evergreen; PSS1 = palustrine scrub-shrub, broad-leaved deciduous; PSS3 = palustrine scrub-shrub, broad-leaved evergreen.
- All route deviations implemented after the FERC Certificate Application are denoted with an "R" and indicate a MP equation. MPs with an "R1" indicate route deviations implemented and provided to FERC prior to the issuance of the DEIS. MPs with an "R2" indicate route deviations implemented as part of the September 2016 Route Update. MPs with an "R3" indicate route deviations implemented post-FERC Certificate issuance. All MPs without an "R" indicate that the route has not changed since the Certificate Application.
- Sources: PennDOT Pennsylvania municipality boundaries, dated 1/2017 and PennDOT Pennsylvania county boundaries, dated 7/2018. Available at [www.pasda.psu.edu](http://www.pasda.psu.edu).
- Temporary crossing lengths are measured within the temporary workspace parallel to the pipeline or along the access road centerline. A "-" denotes there are no impacts to the wetland within the temporary workspace.
- Temporary impact acres are measured within the temporary workspace and additional temporary workspace; the measurement does not include acreages impacted within the 50' permanent ROW. A value of 0.00 denotes impact acreages less than 0.005 acres. A "-" denotes no impacts to the wetland.
- Permanent crossing lengths are measured along the pipeline centerline, as applicable. In instance where the pipeline does not cross a wetland, the permanent crossing length was measured along the edge of the 50' permanent ROW or permanent aboveground facility. A "-" denotes there are no impacts to the wetland within the permanent ROW.
- Permanent impact acres are measured within the 50' permanent ROW or within an aboveground facility footprint. For HDDs and bores, the permanent impact is calculated as the length of the crossing times the pipe diameter. A value of 0.00 denotes impact acreages less than 0.005 acres. A "-" denotes no impacts to the watercourse or floodway, as applicable.
- A 30' wide ROW will be maintained through PFO and PSS wetlands, resulting in the conversion of PFO and PSS to PEM wetlands.
- Crossing Type Key for Wetlands:
  - CL-Bore = Pipeline centerline crosses under wetland. Construction method is bore.
  - CL-HDD = Pipeline centerline crosses under wetland. Construction method is HDD.
  - CL-Open Cut = Pipeline centerline impacts wetland. Construction method is open cut.
  - Matted = Wetland will be matted for temporary equipment crossing.
  - N/A = Not affected by pipeline construction.
  - N/A-Workspace = Pipeline trench does not impact wetland.
  - "-" = No alternative construction method is proposed.