

Aquatic Resources Impact Table
Riverine Resources
Northampton County

Identification					Location					Stream Temporary Impacts			Stream Permanent Impacts			Floodway Temporary Impacts			Floodway Permanent Impacts			Crossing Information			
Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Primary Pipeline Crossing Method ¹³	Secondary Pipeline Crossing Method ¹³	Tertiary Pipeline Crossing Method ¹³	Temporary Equipment Crossing
PennEast Mainline Pipeline																									
080917_WA_1002_P_MI - 1	UNT to Indian Creek	CWF, MF	III	-	52.7R3	40.8003584	-75.47432874	Moore	Kunkletown	11	5	0.001	-	-	-	178	179	0.449	136	279	0.169	N/A	N/A	N/A	Mat Bridge or equivalent
080917_WA_1002_P_MI - 2	UNT to Indian Creek	CWF, MF	III	-	52.7R3	40.8001523	-75.47432999	Moore	Kunkletown	42	5	0.008	30	5	0.003	-	-	-	-	-	-	DPX	FX	CD	Mat Bridge or equivalent
080917_WA_1002_P_MI - 3	UNT to Indian Creek	CWF, MF	III	-	52.8R3	40.799784	-75.474398	Moore	Kunkletown	13	2	0.001	-	-	-	-	-	-	-	-	-	N/A	N/A	N/A	N/A - Workspace
110217_WA_1003_P_MI	UNT to Indian Creek	CWF, MF	III	TS	52.9R3	40.79754313	-75.47520158	Moore	Kunkletown	27	5	0.006	25	5	0.003	27	109	0.141	31	102	0.063	DPX	FX	CD	Mat Bridge or equivalent
110217_WA_1002_I_MI	UNT to Indian Creek	CWF, MF	III	TS	52.9R3	40.79776919	-75.47530626	Moore	Kunkletown	-	-	-	-	-	-	16	14	0.005	43	20	0.018	N/A	N/A	N/A	N/A - Workspace
080917_WA_1001_I_MI	UNT to Indian Creek	CWF, MF	III	-	53.2R3	40.79385521	-75.47619063	Moore	Kunkletown	51	2	0.003	53	2	0.002	121	129	0.115	90	136	0.088	DPX	FX	DX-NF	Mat Bridge or equivalent
050217_MB_1002_I_MI	UNT to Indian Creek	CWF, MF	III	-	53.3R3	40.79210748	-75.47610302	Moore	Kunkletown	28	5	0.003	30	5	0.003	88	123	0.091	71	99	0.068	DPX	FX	DX-NF	Mat Bridge or equivalent
050217_MB_1001_P_IN	UNT to Indian Creek	CWF, MF	III	TS	53.4R3	40.79099226	-75.47586095	Moore	Kunkletown	52	18	0.015	45	12	0.007	102	126	0.079	76	94	0.065	DPX	FX	CD	Mat Bridge or equivalent
102815_WA_1001_E_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	55.7	40.7837318	-75.45906484	Moore	Kunkletown	58	15	0.014	40	15	0.009	59	138	0.137	37	127	0.088	DPX	FX	DX-NF	Mat Bridge or equivalent
051215_JC_1002_P_IN	Hokendauqua Creek	CWF, MF	III	TS	55.9	40.78130372	-75.45767728	Moore	Kunkletown	69	72	0.058	51	56	0.038	67	130	0.100	43	100	0.069	DPX	FX	CD	Mat Bridge or equivalent
051215_JC_1001_E_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	55.9	40.78060639	-75.4572788	Moore	Kunkletown	46	5	0.005	31	5	0.004	72	100	0.066	33	56	0.037	DPX	FX	DX-NF	Mat Bridge or equivalent
051215_JC_1003_I_MI	UNT to Hokendauqua Creek	CWF, MF	III	TS	56	40.77994035	-75.45702906	Moore	Kunkletown	45	2	0.002	30	2	0.001	66	17	0.004	81	4	0.003	BX	BX	BX	Mat Bridge or equivalent
062218_WA_1000_P_MI	UNT to Hokendauqua Creek	CWF, MF	III	TS	56	40.77935637	-75.45681419	Moore	Kunkletown	36	2	0.002	42	2	0.002	-	-	-	-	-	-	DPX	FX	CD	Mat Bridge or equivalent
050417_GM_1001_I_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	56.6	40.77248316	-75.44920523	Moore	Kunkletown	-	-	-	-	-	-	48	32	0.030	-	-	-	N/A	N/A	N/A	N/A - Workspace
050417_GM_1002_P_MI	UNT to Hokendauqua Creek	CWF, MF	III	-	56.7	40.77208403	-75.4486004	Moore	Kunkletown	89	10	0.008	53	10	0.005	101	181	0.186	81	159	0.111	DPX	FX	CD	Mat Bridge or equivalent
050417_GM_1003_P_IN	UNT to Hokendauqua Creek	CWF, MF	III	-	56.7	40.77167673	-75.44828989	Moore	Kunkletown	97	13	0.019	52	17	0.013	89	110	0.060	73	66	0.041	DPX	FX	CD	Mat Bridge or equivalent
071917_MB_1001_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58R2	40.76024699	-75.429116	Moore	Kunkletown	52	2	0.002	35	2	0.002	52	115	0.119	35	115	0.080	DPX	FX	DX-NF	Mat Bridge or equivalent
052218_WA_1001_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58.1R2	40.75996825	-75.42790168	Moore	Kunkletown	45	4	0.004	30	4	0.003	45	100	0.104	30	100	0.070	DPX	FX	DX-NF	Mat Bridge or equivalent
052218_WA_1002_P_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58.5	40.75522663	-75.42305364	Moore	Kunkletown	47	6	0.007	31	6	0.004	94	104	0.096	66	63	0.044	DPX	FX	CD	Mat Bridge or equivalent
052218_WA_1003_P_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	58.5	40.75511772	-75.4229323	Moore	Kunkletown	46	4	0.004	31	4	0.003	79	46	0.050	46	46	0.032	DPX	FX	CD	Mat Bridge or equivalent
090314_DB_1011_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	59	40.74964583	-75.41644757	Moore	Catasauqua	48	5	0.005	32	5	0.004	48	108	0.110	32	108	0.073	DPX	FX	DX-NF	Mat Bridge or equivalent

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Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Primary Pipeline Crossing Method ¹³	Secondary Pipeline Crossing Method ¹³	Tertiary Pipeline Crossing Method ¹³	Temporary Equipment Crossing
090414_DB_1012_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	59.2	40.74740749	-75.41355764	Moore	Catasauqua	30	5	0.002	41	5	0.004	109	62	0.033	113	43	0.028	DPX	FX	DX-NF	Mat Bridge or equivalent
090414_DB_1013_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	59.2	40.74723526	-75.41333528	Moore	Catasauqua	55	8	0.010	55	8	0.010	67	165	0.139	32	144	0.094	DPX	FX	DX-NF	Mat Bridge or equivalent
051215_JC_1005_P_IN	Monocacy Creek	HQ-CWF, MF	I, III	TS	60.3	40.7370176	-75.39948764	Moore	Catasauqua	75	25	0.022	66	23	0.015	49	93	0.082	30	88	0.059	BX	DPX	FX	Mat Bridge or equivalent
090314_DB_1005_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	60.6	40.73600442	-75.39363132	East Allen	Catasauqua	41	10	0.009	31	10	0.006	50	104	0.085	31	104	0.072	BX	BX	BX	Mat Bridge or equivalent
090314_DB_1007_E_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	60.7	40.73581452	-75.39250243	East Allen	Catasauqua	54	4	0.005	34	4	0.003	83	47	0.016	68	8	0.004	DPX	FX	DX-NF	Mat Bridge or equivalent
090314_DB_1006_I_MI	UNT to Monocacy Creek	HQ-CWF, MF	III	-	60.7	40.73577287	-75.39225485	East Allen	Catasauqua	46	6	0.007	32	6	0.004	65	107	0.100	42	106	0.071	DPX	FX	DX-NF	Mat Bridge or equivalent
111214_JC_1004_P_IM	East Branch Monocacy Creek	HQ-CWF, MF	III	-	61.5R3	40.73449373	-75.37731573	Upper Nazareth	Catasauqua	47	25	0.025	31	25	0.016	46	95	0.097	31	95	0.065	DPX	FX	CD	Mat Bridge or equivalent
102715_WA_1002_P_MI	UNT to East Monocacy Creek	HQ-CWF, MF	III	-	62.4R3	40.73034057	-75.36459628	Upper Nazareth	Nazareth	52	3	0.004	31	3	0.002	49	117	0.117	32	103	0.072	DPX	FX	CD	Mat Bridge or equivalent
051415_JC_1001_I_MI	UNT to East Branch Monocacy Creek	HQ-CWF, MF	III	-	62.8R3	40.72615267	-75.35688277	Upper Nazareth	Nazareth	47	3	0.002	31	3	0.002	192	202	0.306	36	151	0.090	BX	BX	BX	Mat Bridge or equivalent
051415_JC_1002_P_IN	UNT to East Branch Monocacy Creek	HQ-CWF, MF	III	-	63.5	40.72487113	-75.34287827	Upper Nazareth	Nazareth	48	23	0.020	31	20	0.013	50	84	0.082	35	82	0.057	DPX	FX	CD	Mat Bridge or equivalent
010615_JC_1000_E_MI	UNT to Lehigh River	CWF, MF	-	-	70.6R3	40.64986876	-75.28324025	Bethlehem	Nazareth	50	9	0.009	33	9	0.006	48	41	0.034	34	41	0.026	DPX	FX	DX-NF	Mat Bridge or equivalent
010615_JC_1001_E_MI	UNT to Lehigh River	CWF, MF	-	-	70.7R3	40.64899979	-75.28319824	Bethlehem	Nazareth	30	3	0.003	3	3	0.001	30	100	0.068	56	103	0.012	N/A	N/A	N/A	Mat Bridge or equivalent
061416_GM_1001_P_IN	Lehigh Coal and Navigation Canal	WWF, MF	-	-	70.9	40.64306243	-75.28028858	Easton	Nazareth	-	-	-	3	83	0.006	-	-	-	3	72	0.005	HDD	HDD	HDD	N/A
031918_WA_1004_P_MA	Lehigh River	WWF, MF	-	-	71	40.64151918	-75.28010652	Easton And Lower Saucon	Nazareth	-	-	-	3	338	0.023	-	-	-	3	364	0.025	HDD	HDD	HDD	N/A
012116_GM_1001_E_IN	UNT to Lehigh River	CWF, MF	-	-	71.4	40.63612828	-75.27947059	Lower Saucon	Nazareth	-	-	-	3	10	0.001	-	-	-	3	110	0.008	HDD	HDD	HDD	N/A
010615_JC_1002_E_MI	UNT to Bull Run	CWF, MF	III	-	71.7	40.63197509	-75.27751965	Lower Saucon	Nazareth	-	-	-	3	2	0.001	-	-	-	3	106	0.007	HDD	HDD	HDD	N/A
040318_WA_1000_P_MI	UNT to Bull Run	CWF, MF	III	-	72.1	40.62850198	-75.27237895	Lower Saucon	Nazareth	61	6	0.008	36	6	0.005	55	77	0.077	32	70	0.048	DPX	FX	CD	Mat Bridge or equivalent
092614_GO_1001_P_MI	UNT to Bull Run	CWF, MF	III	-	72.1	40.62837319	-75.27213434	Lower Saucon	Nazareth	47	7	0.006	34	7	0.005	97	58	0.044	52	57	0.039	DPX	FX	CD	Mat Bridge or equivalent
040318_WA_1001_I_MI	UNT to Bull Run	CWF, MF	III	-	72.4	40.62578829	-75.2679752	Lower Saucon	Nazareth	15	2	0.001	8	2	0.003	-	-	-	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
031918_WA_1003_I_MI	UNT to Bull Run	CWF, MF	III	-	72.4	40.62575407	-75.26779789	Williams	Nazareth	46	1	0.001	30	1	0.001	45	100	0.101	31	97	0.067	DPX	FX	DX-NF	Mat Bridge or equivalent

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Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Primary Pipeline Crossing Method ¹³	Secondary Pipeline Crossing Method ¹³	Tertiary Pipeline Crossing Method ¹³	Temporary Equipment Crossing
031918_WA_1000_P_MI	UNT to Bull Run	CWF, MF	III	-	72.5	40.62534931	-75.26695414	Williams	Nazareth	45	3	0.003	30	3	0.002	45	50	0.052	30	50	0.034	DPX	FX	CD	Mat Bridge or equivalent
051415_JC_1006_E_MI	UNT to Bull Run	CWF, MF	III	-	72.5	40.62508728	-75.2663207	Williams	Nazareth	122	1	0.003	80	1	0.002	78	301	0.261	62	265	0.181	DPX	FX	DX-NF	Mat Bridge or equivalent
051415_JC_1005_P_IN	UNT to Bull Run	CWF, MF	III	-	72.5	40.62434174	-75.26489368	Williams	Hellertown	-	-	-	-	-	-	126	15	0.084	107	18	0.043	N/A	N/A	N/A	N/A - Workspace
012016_GM_1001_I_MI	UNT to Bull Run	CWF, MF	III	-	72.6	40.62390749	-75.26411811	Williams	Hellertown	32	4	0.003	16	4	0.001	43	30	0.015	3	3	0.001	DPX	FX	DX-NF	Mat Bridge or equivalent
102715_WA_1001_P_MI - 1	UNT to Bull Run	CWF, MF	III	-	72.6	40.6238529	-75.26415167	Williams	Hellertown	66	20	0.012	85	23	0.016	374	418	0.265	166	359	0.239	DPX	FX	CD	Mat Bridge or equivalent
102715_WA_1001_P_MI - 2	UNT to Bull Run	CWF, MF	III	-	72.7	40.62264682	-75.26263278	Williams	Hellertown	94	5	0.017	33	8	0.006	-	-	-	-	-	-	DPX	FX	CD	Mat Bridge or equivalent
012016_GM_1003_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.62383143	-75.26393753	Williams	Hellertown	23	4	0.002	-	-	-	13	10	0.001	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
012016_GM_1002_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.62371289	-75.26390729	Williams	Hellertown	27	6	0.003	37	6	0.005	31	42	0.026	26	5	0.007	N/A	N/A	N/A	Mat Bridge or equivalent
102715_WA_1001_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.62316985	-75.26329145	Williams	Hellertown	31	3	0.001	38	3	0.002	97	125	0.092	34	122	0.083	DPX	FX	DX-NF	Mat Bridge or equivalent
102715_WA_1002_I_MI	UNT to Bull Run	CWF, MF	III	-	72.7	40.62307221	-75.26316849	Williams	Hellertown	51	2	0.003	30	2	0.002	57	75	0.062	35	44	0.034	DPX	FX	DX-NF	Mat Bridge or equivalent
042815_JC_1005_I_MI	UNT to Bull Run	CWF, MF	III	-	72.8	40.62195379	-75.26176003	Williams	Hellertown	51	6	0.007	31	6	0.004	96	52	0.026	64	42	0.029	DPX	FX	DX-NF	Mat Bridge or equivalent
042815_JC_1001_E_MI	UNT to Bull Run	CWF, MF	III	-	73	40.62030966	-75.25990848	Williams	Hellertown	62	8	0.007	52	8	0.005	154	189	0.203	48	155	0.108	DPX	FX	DX-NF	Mat Bridge or equivalent
042117_GM_1003_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	73.6R2	40.61997944	-75.2490331	Williams	Riegelsville	32	3	0.002	30	3	0.002	140	67	0.056	91	38	0.026	DPX	FX	CD	Mat Bridge or equivalent
042117_GM_1001_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	73.6R2	40.61997875	-75.24830374	Williams	Riegelsville	69	7	0.010	31	7	0.004	47	126	0.119	33	105	0.075	DPX	FX	CD	Mat Bridge or equivalent
042418_WA_1005_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	73.6R2	40.6199787	-75.24824836	Williams	Riegelsville	62	7	0.008	41	7	0.004	60	77	0.047	37	36	0.024	DPX	FX	CD	Mat Bridge or equivalent
042418_WA_1004_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	73.7R2	40.61997726	-75.24672792	Williams	Riegelsville	50	5	0.006	33	5	0.004	62	120	0.127	35	113	0.078	DPX	FX	CD	Mat Bridge or equivalent
042418_WA_1003_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	73.7R2	40.62009495	-75.24666757	Williams	Riegelsville	7	3	0.001	-	-	-	21	19	0.004	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
042418_WA_1002_I_MI - 2	UNT to Frya Run	HQ-CWF, MF	III	-	73.7R2	40.61997695	-75.24641185	Williams	Riegelsville	41	2	0.002	24	2	0.001	61	82	0.065	76	69	0.050	DPX	FX	DX-NF	Mat Bridge or equivalent
042418_WA_1002_I_MI - 1	UNT to Frya Run	HQ-CWF, MF	III	-	73.7R2	40.61989684	-75.24677369	Williams	Riegelsville	2	2	0.001	-	-	-	-	-	-	-	-	-	N/A	N/A	N/A	Mat Bridge or equivalent
091814_MK_1009_P_IM	Frya Run	HQ-CWF, MF	III	-	74.6	40.60867373	-75.23352114	Williams	Riegelsville	46	15	0.015	32	15	0.010	48	88	0.082	31	79	0.054	DPX	FX	CD	Mat Bridge or equivalent
062415_BT_1001_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	74.9	40.60689422	-75.22917131	Williams	Riegelsville	105	13	0.030	68	28	0.020	344	171	0.168	206	142	0.100	DPX	FX	CD	Mat Bridge or equivalent

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Watercourse ID and Crossing Number ¹	Watercourse Name	Ch 93 Designated/Existing Use ²	Wild Trout ³	Stocked Trout ⁴	Milepost ⁵	Latitude	Longitude	Municipality ⁶	Quadrangle	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Temporary Crossing Length (feet) ⁷	Temporary Crossing Width (feet) ⁸	Temporary Impact Area (acres) ⁹	Permanent Crossing Length (feet) ¹⁰	Permanent Crossing Width (feet) ¹¹	Permanent Impact Area (acres) ¹²	Primary Pipeline Crossing Method ¹³	Secondary Pipeline Crossing Method ¹³	Tertiary Pipeline Crossing Method ¹³	Temporary Equipment Crossing		
062415_BT_1002_I_MI	UNT to Frya Run	HQ-CWF, MF	III	-	74.9	40.60688857	-75.22939974	Williams	Riegelsville	40	6	0.003	38	6	0.004	46	58	0.016	5	2	0.001	DPX	FX	DX-NF	Mat Bridge or equivalent		
122016_LZ_1001_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	75.1	40.60524986	-75.22633316	Williams	Riegelsville	56	4	0.004	34	4	0.002	144	91	0.091	98	103	0.068	DPX	FX	CD	Mat Bridge or equivalent		
042418_WA_1000_P_MI	UNT to Frya Run	HQ-CWF, MF	III	-	75.2	40.6048655	-75.2262047	Williams	Riegelsville	-	-	-	-	-	-	52	100	0.026	8	13	0.001	N/A	N/A	N/A	N/A - Workspace		
111314_JC_1003_E_MI	UNT to Cooks Creek	EV, MF	III	-	75.7	40.60178736	-75.21905623	Williams	Riegelsville	15	3	0.001	19	3	0.001	17	11	0.002	3	2	0.001	DPX	FX	DX-NF	Mat Bridge or equivalent		
111314_JC_1002_I_MI	UNT to Cooks Creek	EV, MF	III	-	75.7	40.60178343	-75.21904959	Williams	Riegelsville	54	6	0.006	37	6	0.004	55	115	0.122	37	122	0.084	DPX	FX	DX-NF	Mat Bridge or equivalent		
111314_JC_1001_I_MI	UNT to Cooks Creek	EV, MF	III	-	75.7	40.60142576	-75.21844477	Williams	Riegelsville	26	9	0.005	39	12	0.007	58	117	0.078	36	91	0.063	DPX	FX	DX-NF	Mat Bridge or equivalent		
Hellertown Lateral																											
062218_WA_1002_P_IN	Bull Run	CWF, MF	III	-	0.3	40.62978861	-75.28132925	Lower Saucon	Nazareth	53	37	0.027	32	21	0.014	83	109	0.093	56	68	0.054	DPX	FX	CD	Mat Bridge or equivalent		
TOTAL IMPACTS										2,908	506	0.483	2,070	908	0.355	4,739	5,971	5.506	2,998	5,664	3.406						

Notes:

1. In instances where a watercourse is crossed by the proposed pipeline or workspace multiple times, crossing numbers (e.g. "-1", "-2") have been added to the Watercourse ID.

Watercourse ID Key: P = perennial, I = intermittent, E = ephemeral, MA = major, IN = intermediate, MI = minor, C = canal, D = ditch

2. Sources: PADEP Streams Chapter 93 Existing Use, dated 3/2019 and PADEP Streams Chapter 93 Designated Use, dated 3/2019. If a stream has an existing use, the designated use has been replaced with that value. Available at www.pasda.psu.edu.

3. Sources: PFBC Stream Sections that Support Wild Trout Production, dated 7/2019 and PFBC Class A Wild Trout Streams, dated 7/2019. Available at www.pasda.psu.edu. I = Class A Trout Water, II = Wilderness Trout Stream, III = Naturally Reproducing Trout Stream.

4. Sources: PASDA Stocked Trout Waters (Flowing Waters), dated 2019 and PASDA Trout Stocked Streams, dated 2019. Available at www.pasda.psu.edu.

5. 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.

6. Sources: PennDOT Pennsylvania municipality boundaries, dated 1/2017 and PennDOT Pennsylvania county boundaries, dated 7/2018. Available at www.pasda.psu.edu.

7. 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 watercourse or floodway, as applicable, within the temporary workspace.

8. Temporary crossing widths are measured within the temporary workspace perpendicular to the pipeline or the access road centerline. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the temporary workspace.

9. Temporary impact acres are measured within the temporary workspace and additional temporary workspace; the measurement does not include acreages impacted within the permanent ROW. A "-" denotes no impacts to the watercourse or floodway, as applicable.

10. Permanent crossing lengths are measured along the pipeline centerline, as applicable. In instance where the pipeline does not cross a watercourse or floodway, the permanent crossing length was measured along the edge of the permanent ROW or at the crossing location of a new or replacement culvert. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the permanent ROW.

11. Permanent crossing widths are measured within the permanent ROW perpendicular to the pipeline. A "-" denotes there are no impacts to the watercourse or floodway, as applicable, within the permanent ROW.

12. Permanent impact acres are measured within the permanent ROW, within an aboveground facility footprint, or represents a culvert installation or replacement. For HDDs and bores, the permanent impact is calculated as the length of the crossing times the pipe diameter. A "-" denotes no impacts to the watercourse or floodway, as applicable.

13. Crossing Type Key for Watercourse Channels:

- BX = Conventional Bore Crossing
- CD = Cofferdam Crossing
- DPX = Dam-and-Pump Crossing
- DX-NF = Dry Crossing If No Flow
- FX = Flume Crossing
- HDD = HDD Crossing
- N/A = Not Applicable