

Table 2 - Stream Impacts
Individual Permit Application
MVP Southgate Amendment Project

Stream ID	NHD Stream Name a/	County	USACE District	Latitude b/	Longitude b/	Flow Regime	Water Type c/	Stream Designation d/	HUC 8	Impact Type e/	Temporary Impact (linear feet)	Permanent Impact (linear feet)	Temporary Impact Area (acres) f/	Permanent Impact Area (acres) f/	Temporary Fill (cubic yards) g/	Permanent Fill (cubic yards) h/	Figure
S-A001	UNT To White Oak Creek	Pittsylvania	Norfolk	36.734897	-79.440223	Intermittent	RPW	Warmwater Fishery	03010105	Pipeline ROW	73	-	0.0156	-	251	-	CL-021; AR-023
S-A004	Little Cherrystone Creek	Pittsylvania	Norfolk	36.822913	-79.347519	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	99	-	0.0375	-	604	-	CL-002
S-A005	UNT to Little Cherrystone Creek	Pittsylvania	Norfolk	36.828977	-79.344565	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	91	-	0.0180	-	290	-	CL-001, AR-003
S-A007	UNT to Cherrystone Creek	Pittsylvania	Norfolk	36.801823	-79.367316	Intermittent	RPW	Warmwater Fishery	03010105	Culvert Installation/Replacement	-	26	-	0.0036	-	20	AR-012
S-A009	UNT to Cherrystone Creek	Pittsylvania	Norfolk	36.811606	-79.359388	Intermittent	RPW	Warmwater Fishery	03010105	Pipeline ROW	99	-	0.0087	-	141	-	CL-004; AR-008, 009
S-A010	UNT to Cherrystone Creek	Pittsylvania	Norfolk	36.812251	-79.358300	Ephemeral	NRPW	Warmwater Fishery	03010105	Timber Mat Crossing	22	-	0.0020	-	9	-	CL-004
S-A012	UNT to Cherrystone Creek	Pittsylvania	Norfolk	36.814949	-79.355538	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	90	-	0.0092	-	148	-	CL-003, 004; AR-007
S-A013	UNT to Cherrystone Creek	Pittsylvania	Norfolk	36.816112	-79.353454	Ephemeral	NRPW	Warmwater Fishery	03010105	Timber Mat Crossing	24	-	0.0010	-	5	-	CL-003; AR-007
S-A017	UNT to Banister River	Pittsylvania	Norfolk	36.782808	-79.390591	Intermittent	RPW	Warmwater Fishery	03010105	Pipeline ROW	79	-	0.0105	-	169	-	CL-010, 011
S-A018	UNT to Banister River	Pittsylvania	Norfolk	36.792090	-79.381212	Intermittent	RPW	Warmwater Fishery	03010105	Pipeline ROW	79	-	0.0057	-	92	-	CL-008, 009; AR-013
S-A019	UNT to Banister River	Pittsylvania	Norfolk	36.787971	-79.384411	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	87	-	0.0156	-	251	-	CL-009
S-A021	White Oak Creek	Pittsylvania	Norfolk	36.773111	-79.399660	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	91	-	0.0511	-	825	-	CL-012, 013
S-A022	White Oak Creek	Pittsylvania	Norfolk	36.771795	-79.400506	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	77	-	0.0336	-	542	-	CL-013; AR-018
S-A024	UNT To White Oak Creek	Pittsylvania	Norfolk	36.741561	-79.434055	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	126	-	0.0130	-	210	-	CL-019
S-A025	UNT To White Oak Creek	Pittsylvania	Norfolk	36.746074	-79.429921	Intermittent	RPW	Warmwater Fishery	03010105	Pipeline ROW	125	-	0.0098	-	157	-	CL-018, 019
S-A026	UNT To White Oak Creek	Pittsylvania	Norfolk	36.753111	-79.423458	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	109	-	0.0167	-	270	-	CL-017
S-A027	UNT To White Oak Creek	Pittsylvania	Norfolk	36.753276	-79.423227	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	106	-	0.0059	-	95	-	CL-017; AR-022
S-A028	UNT To White Oak Creek	Pittsylvania	Norfolk	36.756964	-79.419623	Ephemeral	NRPW	Warmwater Fishery	03010105	Pipeline ROW	76	-	0.0105	-	169	-	CL-016
S-A029	UNT To White Oak Creek	Pittsylvania	Norfolk	36.734731	-79.440384	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	77	-	0.0211	-	340	-	CL-021
S-A031	UNT To White Oak Creek	Pittsylvania	Norfolk	36.729126	-79.445772	Perennial	RPW	Warmwater Fishery	03010105	Timber Mat Crossing	37	-	0.0056	-	27	-	CL-022
S-A032	UNT To White Oak Creek	Pittsylvania	Norfolk	36.720680	-79.454690	Intermittent	RPW	Warmwater Fishery	03010105	Pipeline ROW	70	-	0.0049	-	79	-	CL-024
S-A033a	UNT To White Oak Creek	Pittsylvania	Norfolk	36.720526	-79.454921	Perennial	RPW	Warmwater Fishery	03010105	Pipeline ROW	182	-	0.0315	-	508	-	CL-024
S-A034	UNT To White Oak Creek	Pittsylvania	Norfolk	36.719144	-79.457085	Ephemeral	NRPW	Warmwater Fishery	03010105	Pipeline ROW	106	-	0.0042	-	67	-	CL-024
S-A036	UNT to Sandy Creek	Pittsylvania	Norfolk	36.707787	-79.466956	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	306	-	0.0271	-	437	-	CL-026, 027; AR-028
S-A037	UNT to Sandy Creek	Pittsylvania	Norfolk	36.707919	-79.466839	Intermittent	RPW	Warmwater Fishery	03010103	Timber Mat Crossing	25	-	0.0021	-	10	-	CL-026; AR-028
S-A038	UNT to Sandy Creek	Pittsylvania	Norfolk	36.707051	-79.466859	Ephemeral	NRPW	Warmwater Fishery	03010103	Pipeline ROW/ATWS	245	-	0.0130	-	210	-	CL-026, 027; AR-028
S-A040	UNT to Sandy Creek	Pittsylvania	Norfolk	36.704018	-79.470164	Ephemeral	NRPW	Warmwater Fishery	03010103	Timber Mat Crossing	147	-	0.0061	-	29	-	CL-027
S-A041	UNT to Sandy Creek	Pittsylvania	Norfolk	36.704062	-79.470350	Intermittent	RPW	Warmwater Fishery	03010103	Timber Mat Crossing	84	-	0.0050	-	24	-	CL-027
S-A042	UNT to Sandy Creek	Pittsylvania	Norfolk	36.703928	-79.470519	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	153	-	0.0244	-	394	-	CL-027
S-A043	UNT to Sandy Creek	Pittsylvania	Norfolk	36.701629	-79.473438	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	93	-	0.0052	-	84	-	CL-028
S-A044	UNT to Sandy Creek	Pittsylvania	Norfolk	36.698524	-79.476499	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	77	-	0.0163	-	262	-	CL-028
S-A045	Sandy Creek	Pittsylvania	Norfolk	36.688829	-79.486181	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	82	-	0.0355	-	573	-	CL-030
S-A046	UNT to Sandy Creek	Pittsylvania	Norfolk	36.680562	-79.490125	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	109	-	0.0180	-	291	-	CL-032
S-A047	UNT to Sandy Creek	Pittsylvania	Norfolk	36.671924	-79.498955	Perennial	RPW	Warmwater Fishery	03010103	Temporary Access Road	25	-	0.0046	-	22	-	AR-031
S-A048	UNT to Sandy Creek	Pittsylvania	Norfolk	36.668159	-79.506549	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	77	-	0.0064	-	103	-	CL-035
S-A049	UNT to Sandy Creek	Pittsylvania	Norfolk	36.673416	-79.501654	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	82	-	0.0146	-	236	-	CL-034; AR-032
S-A050	UNT to Silver Creek	Pittsylvania	Norfolk	36.655379	-79.519215	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	82	-	0.0039	-	63	-	CL-037, 038
S-A052	UNT to Silver Creek	Pittsylvania	Norfolk	36.653753	-79.520409	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	169	-	0.0152	-	246	-	CL-038
S-A053	UNT to Sandy River	Pittsylvania	Norfolk	36.636725	-79.528878	Intermittent	RPW	Warmwater Fishery	03010103	Temporary Access Road	53	-	0.0028	-	13	-	AR-033
S-A054	UNT to Silver Creek	Pittsylvania	Norfolk	36.651978	-79.522157	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	90	-	0.0070	-	114	-	CL-038
S-A055	UNT to Silver Creek	Pittsylvania	Norfolk	36.651865	-79.522220	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	106	-	0.0042	-	68	-	CL-038
S-A057	UNT to Sandy River	Pittsylvania	Norfolk	36.643891	-79.527377	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	93	-	0.0088	-	143	-	CL-040
S-A065	UNT to Sandy River	Pittsylvania	Norfolk	36.638495	-79.531549	Ephemeral	NRPW	Warmwater Fishery	03010103	Culvert Installation/Replacement	-	36	-	0.0020	-	6	AR-033, 034
S-A066	UNT To White Oak Creek	Pittsylvania	Norfolk	36.76369	-79.412675	Ephemeral	NRPW	Warmwater Fishery	03010105	Timber Matt Crossing	11	-	0.0006	-	3	-	CL-015; AR-020
S-A069	UNT To White Oak Creek	Pittsylvania	Norfolk	36.755111	-79.424018	Intermittent	RPW	Warmwater Fishery	03010105	Temporary Access Road	13	-	0.0008	-	4	-	CL-017; AR-022
S-A070	UNT to Silver Creek	Pittsylvania	Norfolk	36.662088	-79.511259	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	80	-	0.0060	-	97	-	CL-036
S-A071	UNT to Sandy River	Pittsylvania	Norfolk	36.639740	-79.534245	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	88	-	0.0239	-	386	-	CL-041; AR-034
S-B023	UNT to Dan River	Pittsylvania	Norfolk	36.568006	-79.611830	Ephemeral	NRPW	Warmwater Fishery	03010103	Timber Mat Crossing	11	-	0.0005	-	2	-	CL-056
S-B026	UNT to Trotters Creek	Pittsylvania	Norfolk	36.584710	-79.598879	Intermittent	RPW	Warmwater Fishery	03010103	Temporary Access Road	26	-	0.0017	-	8	-	AR-044
S-B027	UNT to Trotters Creek	Pittsylvania	Norfolk	36.583901	-79.599466	Intermittent	RPW	Warmwater Fishery	03010103	Temporary Access Road	13	-	0.0013	-	6	-	AR-044
S-B028	UNT to Trotters Creek	Pittsylvania	Norfolk	36.583129	-79.600290	Ephemeral	NRPW	Warmwater Fishery	03010103	Temporary Access Road	25	-	0.0032	-	15	-	AR-044, 045
S-B029	Trotters Creek	Pittsylvania	Norfolk	36.574685	-79.600110	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	76	-	0.0264	-	426	-	CL-054
S-B032	UNT to Trotters Creek	Pittsylvania	Norfolk	36.586822	-79.586916	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	77	-	0.0034	-	55	-	CL-052
S-B033	UNT to Trotters Creek	Pittsylvania	Norfolk	36.585572	-79.588112	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	39	-	0.0034	-	55	-	CL-052
S-B038	UNT to Trotters Creek	Pittsylvania	Norfolk	36.582728	-79.592044	Intermittent	RPW	Warmwater Fishery	03010103	Timber Mat Crossing	2	-	0.0001	-	1	-	CL-053
S-B039	UNT to Trotters Creek	Pittsylvania	Norfolk	36.580246	-79.594500	Ephemeral	NRPW	Warmwater Fishery	03010103	Pipeline ROW	84	-	0.0099	-	159	-	CL-053
S-B040	UNT to Trotters Creek	Pittsylvania	Norfolk	36.587479	-79.586301	Intermittent	RPW	Warmwater Fishery	03010103	Timber Mat Crossing	81	-	0.0049	-	24	-	CL-052
S-B041	UNT to Trayner Branch	Pittsylvania	Norfolk	36.595875	-79.576954	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	53	-	0.0017	-	28	-	CL-050
S-B042	UNT to Trayner Branch	Pittsylvania	Norfolk	36.595831	-79.577069	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	84	-	0.0049	-	80	-	CL-050
S-B044a	UNT to Trayner Branch	Pittsylvania	Norfolk	36.603259	-79.570412	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	61	-	0.0055	-	89	-	CL-048; AR-042

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Individual Permit Application
MVP Southgate Amendment Project

Stream ID	NHD Stream Name ^{a/}	County	USACE District	Latitude ^{b/}	Longitude ^{b/}	Flow Regime	Water Type ^{c/}	Stream Designation ^{d/}	HUC 8	Impact Type ^{e/}	Temporary Impact (linear feet)	Permanent Impact (linear feet)	Temporary Impact Area (acres) ^{f/}	Permanent Impact Area (acres) ^{f/}	Temporary Fill (cubic yards) ^{g/}	Permanent Fill (cubic yards) ^{h/}	Figure
S-B045	UNT to Trayner Branch	Pittsylvania	Norfolk	36.605972	-79.568131	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	98	-	0.0086	-	138	-	CL-048; AR-040
S-B046	UNT to Pine Lake	Pittsylvania	Norfolk	36.613887	-79.562228	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	109	-	0.0120	-	194	-	CL-046
S-B051	UNT to Dan River	Pittsylvania	Norfolk	36.545968	-79.628350	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	88	-	0.0113	-	183	-	CL-060
S-B052	UNT to Dan River	Pittsylvania	Norfolk	36.552527	-79.621795	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	83	-	0.0127	-	205	-	CL-059; AR-048
S-B054	UNT to Dan River	Pittsylvania	Norfolk	36.556374	-79.617919	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	78	-	0.0094	-	151	-	CL-058
S-B055	UNT to Dan River	Pittsylvania	Norfolk	36.55673	-79.616551	Intermittent	RPW	Warmwater Fishery	03010103	Timber Mat Crossing	13	-	0.0004	-	2	-	CL-058
S-B056	UNT to Dan River	Pittsylvania	Norfolk	36.561424	-79.613324	Ephemeral	NRPW	Warmwater Fishery	03010103	Pipeline ROW	96	-	0.0040	-	64	-	CL-057
S-B059	UNT to Pine Lake	Pittsylvania	Norfolk	36.617481	-79.559870	Ephemeral	NRPW	Warmwater Fishery	03010103	Pipeline ROW	86	-	0.0058	-	94	-	CL-046
S-B060	UNT to Banister River	Pittsylvania	Norfolk	36.775387	-79.398532	Ephemeral	NRPW	Warmwater Fishery	03010105	Pipeline ROW	97	-	0.0068	-	109	-	CL-012
S-B061	UNT to Trotters Creek	Pittsylvania	Norfolk	36.575092	-79.599593	Ephemeral	NRPW	Warmwater Fishery	03010103	Pipeline ROW	72	-	0.0035	-	57	-	CL-054
S-B002	UNT to Dan River	Rockingham	Wilmington	36.493049	-79.678829	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW/Temporary Access Road	76	-	0.0102	-	164	-	CL-071; AR-063
S-B006	UNT to Dan River	Rockingham	Wilmington	36.495022	-79.676080	Intermittent	RPW	Warmwater Fishery	03010103	Culvert Installation/Replacement	-	21	-	0.0021	-	9	CL-071; AR-062
S-B007	UNT to Dan River	Rockingham	Wilmington	36.501472	-79.674974	Intermittent	RPW	Warmwater Fishery	03010103	Culvert Installation/Replacement	-	31	-	0.0017	-	10	AR-061
S-B008	UNT to Dan River	Rockingham	Wilmington	36.502862	-79.670507	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	90	-	0.0118	-	190	-	CL-069; AR-060
S-B009	UNT to Dan River	Rockingham	Wilmington	36.505393	-79.667501	Ephemeral	NRPW	Warmwater Fishery	03010103	Pipeline ROW	75	-	0.0057	-	92	-	CL-069
S-B010	UNT to Dan River	Rockingham	Wilmington	36.507750	-79.665780	Ephemeral	NRPW	Warmwater Fishery	03010103	Timber Mat Crossing	10	-	0.0006	-	3	-	CL-068; AR-057
S-B011	UNT to Dan River	Rockingham	Wilmington	36.511354	-79.662130	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	74	-	0.0068	-	110	-	CL-067, 068
S-B013	UNT to Dan River	Rockingham	Wilmington	36.517520	-79.657911	Intermittent	RPW	Warmwater Fishery	03010103	Temporary Access Road	5	-	0.0007	-	3	-	AR-055
S-B015	UNT to Dan River	Rockingham	Wilmington	36.516199	-79.656929	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	89	-	0.0091	-	147	-	CL-066, 067; AR-055
S-B015a	UNT to Dan River	Rockingham	Wilmington	36.516197	-79.656872	Intermittent	RPW	Warmwater Fishery	03010103	Timber Mat Crossing	15	-	0.0009	-	4	-	CL-066, 067; AR-055
S-B016	UNT to Dan River	Rockingham	Wilmington	36.515501	-79.657546	Ephemeral	NRPW	Warmwater Fishery	03010103	Timber Mat Crossing	126	-	0.0048	-	23	-	CL-067; AR-055
S-B017	UNT to Dan River	Rockingham	Wilmington	36.513214	-79.660053	Intermittent	RPW	Warmwater Fishery	03010103	Pipeline ROW	81	-	0.0044	-	71	-	CL-067; AR-055
S-F005	UNT to Cascade Creek	Rockingham	Wilmington	36.534513	-79.638991	Perennial	RPW	Warmwater Fishery	03010103	Pipeline ROW	79	-	0.0054	-	88	-	CL-063; AR-049

a/ For identified streams without an NHD (National Hydrography Dataset) name, the identified stream was given the name "Unidentified Tributary (UNT)" of the first named receiving waterbody.

b/ Shown in decimal degrees.

c/ RPW = Relatively Permanent Waters; NRPW = Non-Relatively Permanent Waters

d/ Streams designated as warmwater fisheries in Virginia have time of year restrictions from April 15 through July 15. See Section 1.8.4 and Section 4.2.9 for more information.

e/ Pipeline right-of-way (ROW) is based on streams that cross the pipeline within the 75-foot-wide permanent and temporary easements. Timber mat crossings are based on streams that do not cross the pipeline within the 75-foot-wide permanent and temporary easements.

f/ Temporary and permanent impacts include the area of streams that are within the limits of disturbance.

g/ Temporary fill discharge into Waters of the U.S. (WOTUS); cubic yards rounded to the nearest whole number. Temporary fill volume includes a 10-foot depth of fill for streams crossed by the pipeline and a 3-foot depth of fill for streams not crossed by the pipeline.

h/ Permanent fill discharge into WOTUS; cubic yards rounded to the nearest whole number. Permanent fill volume includes a depth of fill equal to the culvert diameter plus 0.5 foot.