

USACE IMPACT SUMMARY TABLES



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I-495 & I-270 Managed Lanes Study

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USACE IMPACT TABLES

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IMPACT ID DESIGNATION KEY

FEATURE NAMING CONVENTION ¹	DESCRIPTION
IMPACT ID_ 1 ²	Used to designate separate segments of a waterway feature to characterize differences such as channel type, classification, watershed, or geography.
IMPACT ID_ C	Used to designate a culvert channel type, usually flowing between two segments of a waterway feature that have different channel types. Some features may have a “culvert” channel type without the “_C” designation if they do not have multiple segments.
IMPACT ID_ D	Used to designate a ditch channel type. Some features may have a “ditch” channel type without the “_D” designation if they do not have multiple segments.
IMPACT ID_ B	Used to designate features that are bridged. All features that are underneath bridges are given this designation.
IMPACT ID_ C1	Used to designate more than one culverted, bridged, or ditched section of a feature.

¹ Impact IDs are not limited to one naming convention. An impacted feature may have multiple designations (e.g. 11M, 11M_1, 11M_B).

² Impact IDs with “_1” are not limited to one number. An impacted feature may have multiple segments (e.g. 21C_1, 21C_2).

USACE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS BY HUC 8 WATERSHED

WATERSHED	WATERWAYS (SF)				WATERWAYS (LF)			
	Ephemeral	Intermittent	Perennial	Total	Ephemeral	Intermittent	Perennial	Total
02070008	6,290	101,909	848,410	956,609	1,345	12,573	28,029	41,947
Permanent	6,225	93,523	533,725	633,473	1,334	11,347	26,913	39,594
Temporary	65	8,386	314,685	323,136	11	1,226	1,116	2,353
02070010	0	635	3,246	3,881	0	204	203	407
Permanent	0	635	3,246	3,881	0	204	203	407
Total	6,290	102,544	851,656	960,490	1,345	12,777	28,232	42,354

SUMMARY OF IMPACTS TO WETLANDS BY HUC 8 WATERSHED

IMPACT TYPE	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Permanent	110,771	37,346	481	148,598	2.54	0.86	0.01	3.41
Temporary	15,553	11,832	0	27,385	0.36	0.27	0.00	0.63
Total	126,324	49,178	481	175,983	2.90	1.13	0.01	4.04

Note: All wetlands and their buffers are located in the Middle Potomac-Catoctin (HUC8 02070008) watershed.

USACE IMPACT TABLES

PLATE 2 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22MM	Perennial	Open Channel	14,142	167	Permanent
22MM	Perennial	Open Channel	243,446	855	Temporary
22MM_B	Perennial	Bridge	11,563	0	Permanent
22MM_B	Perennial	Bridge	67,060	140	Temporary
22NN	Intermittent	Open Channel	3,474	276	Temporary
22NN_B	Intermittent	Bridge	10	8	Permanent
22NN_B	Intermittent	Bridge	1,589	159	Temporary
22QQ	Intermittent	Open Channel	469	106	Temporary
22UU	Intermittent	Open Channel	10,481	543	Permanent
22VV	Ephemeral	Open Channel	358	26	Permanent
22VV	Ephemeral	Open Channel	31	5	Temporary
22WW	Intermittent	Open Channel	2,188	56	Permanent
22WW	Intermittent	Open Channel	424	42	Temporary
22WW_C	Intermittent	Culvert	1,360	272	Permanent

PLATE 2 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
22OO	PFO	2,471	Permanent
22OO	PFO	9,666	Temporary
22TT	PFO	2,166	Temporary

USACE IMPACT TABLES

PLATE 3 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22HH	Intermittent	Ditch	1,157	230	Permanent
22HH_1	Intermittent	Ditch	925	154	Permanent
22HH_2	Intermittent	Open Channel	608	117	Permanent
22HH_C	Intermittent	Culvert	422	47	Permanent
22HH_C	Intermittent	Culvert	590	67	Temporary
22M_C	Perennial	Culvert	1,094	39	Temporary
22P	Intermittent	Open Channel	26	10	Permanent
22Q	Perennial	Open Channel	1,112	136	Permanent
22Q_C	Perennial	Culvert	1,263	223	Permanent
22T	Intermittent	Open Channel	127	9	Permanent
22T_1	Intermittent	Open Channel	261	35	Permanent
22T_2	Intermittent	Open Channel	497	92	Permanent
22T_B	Intermittent	Bridge	1,803	153	Permanent
22T_B1	Intermittent	Bridge	194	28	Permanent
22V	Intermittent	Ditch	190	76	Temporary
22V_1	Intermittent	Ditch	2	1	Permanent
22V_1	Intermittent	Ditch	91	40	Temporary
22V_2	Intermittent	Ditch	1,083	255	Temporary
22V_B	Intermittent	Bridge	331	168	Temporary
22V_B1	Intermittent	Bridge	2	2	Permanent
22V_B1	Intermittent	Bridge	67	27	Temporary

USACE IMPACT TABLES

PLATE 3 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
22PP	PFO	643	Permanent
22U	PFO	1,007	Permanent
22W*	PEM	4,099	Temporary
22W	PEM	11,023	Temporary
22X	PFO	1,120	Permanent
22Y	PEM	1,791	Permanent

*Shown as permanent on impact plates.

PLATE 4 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22FF	Ephemeral	Open Channel	364	126	Permanent

USACE IMPACT TABLES

PLATE 5 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22AA_1	Perennial	Open Channel	1,439	24	Permanent
22AA_1	Perennial	Open Channel	2,912	53	Temporary
22AA_2	Perennial	Open Channel	5,477	99	Permanent
22AA_3	Perennial	Open Channel	10,295	332	Permanent
22AA_B	Perennial	Bridge	3,245	42	Permanent
22AA_B1	Perennial	Bridge	8,112	201	Permanent
22BB	Ephemeral	Open Channel	44	24	Permanent
22CC	Ephemeral	Open Channel	2,135	451	Permanent
22CC	Ephemeral	Open Channel	34	6	Temporary
22CC_1	Ephemeral	Open Channel	682	184	Permanent
22CC_C	Ephemeral	Culvert	442	139	Permanent
22DD	Intermittent	Open Channel	945	167	Permanent
22EE	Ephemeral	Open Channel	647	126	Permanent
22H	Intermittent	Ditch	170	78	Permanent
22H_1	Intermittent	Open Channel	51	10	Permanent
22H_C	Intermittent	Culvert	760	95	Permanent
22KK	Perennial	Open Channel	556	58	Permanent
22Z	Perennial	Open Channel	3,177	75	Permanent
22Z_1	Perennial	Open Channel	2,210	81	Permanent
22Z_C	Perennial	Culvert	3,601	99	Permanent

PLATE 5 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
22F	PEM	928	Permanent
22G	PFO	850	Permanent
22GG	PEM	804	Permanent

USACE IMPACT TABLES

PLATE 6 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C_1	Perennial	Open Channel	15,733	645	Permanent
21C_2	Perennial	Open Channel	30,835	1,233	Permanent
21C_C1	Perennial	Culvert	4,836	321	Permanent
21C_C2	Perennial	Culvert	3,824	328	Permanent
21D	Intermittent	Ditch	105	106	Permanent
21D_1	Intermittent	Ditch	1,952	291	Permanent
21D_C	Intermittent	Culvert	1,035	316	Permanent
21D_C1	Intermittent	Culvert	798	119	Permanent
21F	Intermittent	Open Channel	1,054	228	Permanent
21F_C	Intermittent	Culvert	1,837	258	Permanent
21G	Intermittent	Ditch	128	54	Permanent
22A	Intermittent	Ditch	724	269	Permanent
22A_C	Intermittent	Culvert	439	152	Permanent
22AA	Perennial	Open Channel	3,545	181	Permanent
22AA	Perennial	Open Channel	1	1	Temporary
22B	Intermittent	Ditch	99	36	Permanent
22C	Intermittent	Ditch	146	51	Permanent
22C_C	Intermittent	Culvert	203	91	Permanent
22D	Intermittent	Ditch	305	144	Permanent

USACE IMPACT TABLES

PLATE 7 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C	Perennial	Open Channel	39,681	1,702	Permanent
21C_1	Perennial	Open Channel	38,400	1,487	Permanent
21C_C	Perennial	Culvert	3,633	252	Permanent
21H	Ephemeral	Open Channel	366	61	Permanent
21L_C	Perennial	Culvert	1,743	270	Permanent
21L_D	Perennial	Ditch	298	40	Permanent
21L_D1	Perennial	Ditch	83	20	Permanent
21M	Intermittent	Ditch	57	25	Permanent

PLATE 7 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
21P	PFO	709	Permanent
21T	PFO	1,054	Permanent

USACE IMPACT TABLES

PLATE 8 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	15,123	1,547	Permanent
21B_C	Perennial	Culvert	2,746	261	Permanent
21C	Perennial	Open Channel	67,012	3,286	Permanent
21J	Perennial	Ditch	243	13	Permanent
21K	Intermittent	Open Channel	28	5	Permanent
21U	Perennial	Open Channel	2,082	143	Permanent
21V	Intermittent	Open Channel	827	115	Permanent
21V	Intermittent	Open Channel	78	10	Temporary

USACE IMPACT TABLES

PLATE 9 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C	Perennial	Open Channel	10,501	551	Permanent
21I	Perennial	Open Channel	22	6	Permanent
23A_2	Perennial	Open Channel	2,301	200	Permanent
23A_3	Perennial	Open Channel	21,607	1,460	Permanent
23A_C1	Perennial	Culvert	1,619	147	Permanent
23A_C2	Perennial	Culvert	2,977	236	Permanent
23AA	Perennial	Open Channel	551	104	Permanent
23AA_1	Perennial	Open Channel	1,332	257	Permanent
23AA_C	Perennial	Culvert	453	101	Permanent
23AA_C1	Perennial	Culvert	675	220	Permanent
23D	Intermittent	Ditch	7,793	775	Permanent
23D_C	Intermittent	Culvert	2,456	255	Permanent

PLATE 9 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	Permanent
23L	PEM	253	Permanent
23MM	PFO	2,932	Permanent

USACE IMPACT TABLES

PLATE 10 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	Permanent
23A_1	Perennial	Open Channel	7,762	454	Permanent
23A_C	Perennial	Culvert	4,185	216	Permanent
23A_C1	Perennial	Culvert	4,001	260	Permanent
23V	Intermittent	Ditch	117	51	Permanent
23V_C	Intermittent	Culvert	2,245	777	Permanent

PLATE 10 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,985	Permanent
23W	PEM	3,981	Permanent
23W	PEM	357	Temporary

USACE IMPACT TABLES

PLATE 11 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	Permanent
23K	Perennial	Open Channel	766	89	Permanent
23K_1	Perennial	Open Channel	598	102	Permanent
23K_C	Perennial	Culvert	1,711	178	Permanent
23K_C1	Perennial	Culvert	505	64	Permanent
23K_C1	Perennial	Culvert	122	20	Temporary
23K_D	Perennial	Ditch	5,035	691	Permanent
23K_D	Perennial	Ditch	50	8	Temporary
23M	Ephemeral	Open Channel	50	8	Permanent
24A	Perennial	Open Channel	4,008	138	Permanent
24A_1	Perennial	Open Channel	6,789	224	Permanent
24A_C	Perennial	Culvert	6,427	320	Permanent

PLATE 11 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23F	PEM	365	Permanent
23GG	PFO	1,389	Permanent
23X	PEM	1,039	Permanent
24X	PEM	91	Permanent

USACE IMPACT TABLES

PLATE 12 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24C	Intermittent	Open Channel	600	44	Permanent

PLATE 13 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	8,048	697	Permanent
24F_2	Perennial	Open Channel	3,902	135	Permanent
24F_3	Perennial	Open Channel	2,276	134	Permanent
24F_C2	Perennial	Culvert	7,102	390	Permanent
24K	Intermittent	Open Channel	449	67	Permanent
24V	Intermittent	Open Channel	292	52	Permanent
24V_C	Intermittent	Culvert	2,544	425	Permanent

PLATE 13 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24N	PFO	917	Permanent
24Q	PFO	1,744	Permanent

PLATE 14 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_C1	Perennial	Culvert	3,688	191	Permanent

USACE IMPACT TABLES

PLATE 15 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25F	Ephemeral	Open Channel	897	141	Permanent

PLATE 16 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	27,438	360	Permanent
25H	Perennial	Open Channel	1,589	220	Permanent
25H_1	Perennial	Open Channel	10,254	336	Permanent
25H_C	Perennial	Culvert	2,682	420	Permanent
25N	Intermittent	Open Channel	350	72	Permanent

PLATE 16 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
25D	PFO	637	Permanent
25K	PEM	34,215	Permanent
25P	PFO	85	Permanent
26H	PEM	10	Permanent

USACE IMPACT TABLES

PLATE 17 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	5,791	432	Permanent
26B_1	Intermittent	Open Channel	315	22	Permanent
26B_C	Intermittent	Culvert	6,809	306	Permanent
26B_C1	Intermittent	Culvert	489	47	Permanent
26C	Intermittent	Open Channel	2,814	373	Permanent
26C_1	Intermittent	Open Channel	388	30	Permanent
26C_C	Intermittent	Culvert	4,317	360	Permanent
26C_C1	Intermittent	Culvert	376	22	Permanent
26J	Intermittent	Open Channel	191	31	Permanent
26K	Intermittent	Open Channel	3,920	328	Permanent
26L	Intermittent	Open Channel	69	11	Permanent

PLATE 17 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
26A	PFO	12,406	Permanent
26D	PEM	817	Permanent
26E	PEM	356	Permanent
26E	PEM	74	Temporary
26F	PEM	63,439	Permanent

USACE IMPACT TABLES

PLATE 18 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	4,702	141	Permanent
27A_1	Perennial	Open Channel	15,652	648	Permanent
27A_2	Perennial	Open Channel	2,914	89	Permanent
27A_3	Perennial	Open Channel	3,463	131	Permanent
27A_C	Perennial	Culvert	10,081	325	Permanent
27A_C1	Perennial	Culvert	4,089	152	Permanent
27A_C2	Perennial	Culvert	2,472	85	Permanent
27B	Intermittent	Open Channel	352	46	Permanent
27C	Ephemeral	Open Channel	30	6	Permanent
27D	Intermittent	Open Channel	1,468	162	Permanent
27H	Intermittent	Open Channel	207	35	Permanent
27K	Ephemeral	Open Channel	210	42	Permanent
27N	Intermittent	Open Channel	98	19	Permanent
27P	Perennial	Open Channel	529	39	Permanent

PLATE 18 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
27F	PFO	535	Permanent
27G	PSS	481	Permanent
27Q	PEM	706	Permanent

USACE IMPACT TABLES

PLATE 19 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27L	Intermittent	Open Channel	101	19	Permanent
27L_C	Intermittent	Culvert	1,632	405	Permanent

PLATE 19 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
27M	PFO	5,862	Permanent

PLATE 20 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
28B	Intermittent	Ditch	3,222	354	Permanent
29A	Perennial	Open Channel	2,956	169	Permanent
29A_1	Perennial	Open Channel	280	26	Permanent
29A_C	Perennial	Culvert	1,065	48	Permanent
29A_C1	Perennial	Culvert	3,346	224	Permanent
29A_C2	Perennial	Culvert	10,314	461	Permanent
29K	Intermittent	Open Channel	896	129	Permanent

USACE IMPACT TABLES

PLATE 21 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
29A_2	Perennial	Open Channel	5,233	280	Permanent
29A_C2	Perennial	Culvert	101	4	Permanent
29B_C	Perennial	Culvert	6,703	366	Permanent
29D_D	Intermittent	Ditch	1,363	119	Permanent

PLATE 22 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23N	Intermittent	Open Channel	2,095	199	Permanent
23N_1	Perennial	Open Channel	2,225	184	Permanent
23N_C	Intermittent	Culvert	6,176	583	Permanent
23N_D	Intermittent	Ditch	275	33	Permanent
23U	Perennial	Ditch	184	31	Permanent
23U_1	Perennial	Open Channel	77	18	Permanent
23U_C	Perennial	Culvert	1,225	317	Permanent
23U_C1	Perennial	Culvert	274	68	Permanent

PLATE 22 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23LL	PEM	570	Permanent

USACE IMPACT TABLES

PLATE 23 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23R_C	Intermittent	Culvert	635	204	Permanent

PLATE 24 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q_C	Perennial	Culvert	3,246	203	Permanent

PLATE 25 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	351	83	Permanent
20C	Perennial	Ditch	112	37	Permanent
20C_C	Intermittent	Culvert	455	169	Permanent
20D	Perennial	Open Channel	3,027	390	Permanent
20D_C	Perennial	Culvert	1,895	180	Permanent
20E	Intermittent	Open Channel	140	47	Permanent
21B	Perennial	Open Channel	3,261	289	Permanent