I-495 & I-270 MANAGED LANES STUDY

USACE Wetland and Waterway Impact Tables

April 15, 2020

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[3].
IMPACT ID_C**1**	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).

[3] Wetland features that have a bridged portion are not separated into multiple polygons but are designated by an "EB" or "NB" impact code.

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IMPACT TYPE KEY

IMPACT TYPE CODE	DESCRIPTION
CA	Construction Access
CE	Culvert Extension
EB	Existing Bridge
EC	Existing Culvert
HL	Hydrology Loss
NB	New/Expanded Bridge
NC	New Culvert
RC	Relocated Channel
RW	Roadway
SO	Stormwater Outfall

Notes:

- See Avoidance and Minimization Report for detailed explanations of impact types.
- Some impacted features are regulated only by USACE and not by MDE. Impact Plate 21 is not reported in the USACE Impact Tables because this plate only contains MDE-regulated impacted features.
- Some Impact Plates contain impacted waterways, but do not contain impacted wetlands. The following USACE Impact Plates will only have Waterway Impacts tables:

1	26
5	35
7A, 7B, 7C	60A, 60B, 60C, 60D
8A, 8B, 8C	61A, 61B, 61C, 61D, 61E
16A, 16B	66A, 66B, 66C, 66D
18A, 18B	71A, 71B
19A, 19B	14B
20A, 20B	

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SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVES 8 AND 9)

WATERSHED	WATERWAYS (SF)				WATERWAYS (LF)			
	Ephemeral	Intermittent	Perennial	Total	Ephemeral	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	26,345	181,012	548,301	755,658	7,273	29,688	43,377	80,338
Middle Potomac-Catoctin	12,861	58,661	772,554	844,076	1,321	5,811	25,470	32,602
Patuxent	8,087	39,806	103,857	151,750	2,573	9,125	10,554	22,252
Total	**47,293**	**279,479**	**1,424,712**	**1,751,484**	**11,167**	**44,624**	**79,401**	**135,192**

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVES 8 AND 9)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	80,167	332,516	17,757	430,440	1.85	7.64	0.41	9.90
Middle Potomac-Catoctin	38,917	31,558	2	70,477	0.90	0.73	0.01	1.64
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	**158,838**	**496,838**	**46,802**	**702,478**	**3.67**	**11.42**	**1.09**	**16.18**

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 9 MODIFIED)

WATERSHED	WATERWAYS (SF)				WATERWAYS (LF)			
	Ephemeral	Intermittent	Perennial	Total	Ephemeral	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	26,220	179,648	542,431	748,299	7,241	29,392	43,133	79,766
Middle Potomac-Catoctin	12,861	58,275	771,859	842,995	1,321	5,761	25,427	32,509
Patuxent	8,087	39,806	103,857	151,750	2,573	9,125	10,554	22,252
Total	**47,168**	**277,729**	**1,418,147**	**1,743,044**	**11,135**	**44,278**	**79,114**	**134,527**

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 9 MODIFIED)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	80,167	321,323	17,503	418,993	1.85	7.38	0.41	9.64
Middle Potomac-Catoctin	38,917	31,558	2	70,477	0.90	0.73	0.01	1.64
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	**158,838**	**485,645**	**46,548**	**691,031**	**3.67**	**11.16**	**1.09**	**15.92**

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SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 10)

WATERSHED	WATERWAYS (SF)				WATERWAYS (LF)			
	Ephemeral	Intermittent	Perennial	Total	Ephemeral	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	26,345	181,103	552,650	760,098	7,273	29,698	43,648	80,619
Middle Potomac-Catoctin	13,124	60,904	776,229	850,257	1,353	6,018	26,003	33,374
Patuxent	8,087	39,806	103,857	151,750	2,573	9,125	10,554	22,252
Total	**47,556**	**281,813**	**1,432,736**	**1,762,105**	**11,199**	**44,841**	**80,205**	**136,245**

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 10)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	80,167	332,516	17,757	430,440	1.85	7.64	0.41	9.90
Middle Potomac-Catoctin	44,782	33,427	2	78,211	1.03	0.77	0.01	1.81
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	**164,703**	**498,707**	**46,802**	**710,212**	**3.80**	**11.46**	**1.09**	**16.35**

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 13B)

WATERSHED	WATERWAYS (SF)				WATERWAYS (LF)			
	Ephemeral	Intermittent	Perennial	Total	Ephemeral	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	26,345	181,012	548,112	755,469	7,273	29,688	43,364	80,325
Middle Potomac-Catoctin	12,861	58,092	772,366	843,319	1,321	5,756	25,450	32,527
Patuxent	8,087	39,806	103,857	151,750	2,573	9,125	10,554	22,252
Total	**47,293**	**278,910**	**1,424,335**	**1,750,538**	**11,167**	**44,569**	**79,368**	**135,104**

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SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 13B)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	80,167	332,516	17,757	430,440	1.85	7.64	0.41	9.90
Middle Potomac-Catoctin	38,756	30,531	2	69,289	0.89	0.71	0.01	1.61
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	**158,677**	**495,811**	**46,802**	**701,290**	**3.66**	**11.40**	**1.09**	**16.15**

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 13C)

WATERSHED	WATERWAYS (SF)				WATERWAYS (LF)			
	Ephemeral	Intermittent	Perennial	Total	Ephemeral	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	26,345	181,012	549,441	756,798	7,273	29,688	43,453	80,414
Middle Potomac-Catoctin	13,107	59,537	775,948	848,592	1,350	5,902	25,984	33,236
Patuxent	8,087	39,806	103,857	151,750	2,573	9,125	10,554	22,252
Total	**47,539**	**280,355**	**1,429,246**	**1,757,140**	**11,196**	**44,715**	**79,991**	**135,902**

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 13C)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	80,167	332,516	17,757	430,440	1.85	7.64	0.41	9.90
Middle Potomac-Catoctin	44,150	32,409	2	76,561	1.02	0.75	0.01	1.78
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	**164,071**	**497,689**	**46,802**	**708,562**	**3.79**	**11.44**	**1.09**	**16.32**

USACE IMPACT TABLES

PLATE 1A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22AAA	Perennial	Open Channel	10,664	339	CA
22AAA_C	Perennial	Culvert	981	491	EC
22SS	Perennial	Open Channel	2,060	97	CA
22ZZ	Perennial	Open Channel	2,015	97	CA
22ZZ_C	Perennial	Culvert	6,513	1,075	EC

USACE IMPACT TABLES

PLATE 2A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22M_1	Perennial	Open Channel	1,121	30	CA
22M_C	Perennial	Culvert	1,848	65	EC
22MM	Perennial	Open Channel	273,926	1,025	NB, CA
22MM_B	Perennial	Bridge	78,622	138	EB
22NN	Intermittent	Open Channel	3,474	276	CA, NB
22NN_B	Intermittent	Bridge	1,599	166	EB
22QQ	Intermittent	Open Channel	469	106	CA
22UU	Intermittent	Open Channel	10,481	543	RW, CA, NB
22V	Intermittent	Ditch	190	76	CA, NB
22V_1	Intermittent	Ditch	92	40	NB
22V_2	Intermittent	Ditch	66	26	CA, NB
22V_B	Intermittent	Bridge	331	168	EB
22V_B1	Intermittent	Bridge	69	28	EB
22VV	Ephemeral	Open Channel	7,102	371	RW, CA
22WW	Intermittent	Open Channel	2,703	64	RW, CA
22WW_C	Intermittent	Culvert	1,360	272	EC

PLATE 2A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
22K	PEM	1,289	SO
22L	PEM	1,053	CA
22LL	PFO	1,988	CA
22OO	PFO	12,137	CA, NB
22PP	PFO	643	RW, NB
22TT	PFO	2,021	CA
22W	PEM	13,302	CA, NB, EB

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PLATE 3A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22HH_2	Intermittent	Open Channel	608	117	RW, CA
22P	Intermittent	Open Channel	26	10	CA
22Q	Perennial	Open Channel	1,112	136	RW
22Q_1	Perennial	Open Channel	251	62	CA
22Q_C	Perennial	Culvert	1,572	277	EC
22T	Intermittent	Open Channel	127	9	NB
22T_1	Intermittent	Open Channel	261	35	NB
22T_2	Intermittent	Open Channel	497	92	CA, NB
22T_B	Intermittent	Bridge	1,803	153	EB
22T_B1	Intermittent	Bridge	194	28	EB

PLATE 3A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
22E	PEM	237	RW
22R	PFO	646	CA
22U	PFO	1,007	NB, CA
22W	PEM	1,884	CA, NB, EB
22X	PFO	1,120	CA
22Y	PEM	1,791	RW, CA

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PLATE 4A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22AA_1	Perennial	Open Channel	1,101	16	CA
22AA_2	Perennial	Open Channel	5,477	99	CA, NB
22AA_3	Perennial	Open Channel	7,690	189	CA, NB
22AA_B	Perennial	Bridge	3,245	42	EB
22AA_B1	Perennial	Bridge	8,112	201	EB
22CC	Ephemeral	Open Channel	507	113	RW, CA
22CC_C	Ephemeral	Culvert	113	34	EC
22EE	Ephemeral	Open Channel	499	95	RW, CE
22FF	Ephemeral	Open Channel	307	107	CA
22H_1	Intermittent	Open Channel	51	10	NC, CE
22H_C	Intermittent	Culvert	760	95	EC
22KK	Perennial	Open Channel	257	26	CA
22Z	Perennial	Open Channel	3,219	75	RW, CA
22Z_1	Perennial	Open Channel	2,065	75	RW, CA
22Z_C	Perennial	Culvert	3,601	99	EC

PLATE 4A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

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

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PLATE 5A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C_1	Perennial	Open Channel	20,976	890	RW, CE, NC
21C_2	Perennial	Open Channel	21,059	896	RW, CA, CE, NC
21C_C1	Perennial	Culvert	4,836	321	EC
21C_C2	Perennial	Culvert	3,824	328	EC
21F	Intermittent	Open Channel	542	92	RW, CE
21F_C	Intermittent	Culvert	1,837	258	EC
21H	Ephemeral	Open Channel	244	44	RW, RC
22AA	Perennial	Open Channel	2,489	83	CA

PLATE 6A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C	Perennial	Open Channel	42,041	1,818	CE, RW, NC
21C_1	Perennial	Open Channel	33,157	1,243	RW, CA, CE, NC
21C_C	Perennial	Culvert	3,633	252	EC
21L_C	Perennial	Culvert	1,743	270	EC
21L_D	Perennial	Ditch	607	85	RW, CE
21L_D1	Perennial	Ditch	83	20	RW

PLATE 6A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
21P	PFO	709	RC
21T	PFO	863	RC

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PLATE 7A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	11,177	1,156	RW
21B_C	Perennial	Culvert	2,746	261	EC
21C	Perennial	Open Channel	64,848	3,182	RW, CA
21J	Perennial	Ditch	243	13	RW
21K	Intermittent	Open Channel	28	5	RW
21U	Perennial	Open Channel	2,082	143	RW, NC
21V	Ephemeral	Open Channel	904	124	RW, RC

PLATE 7B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	11,177	1,156	RW
21B_C	Perennial	Culvert	2,746	261	EC
21C	Perennial	Open Channel	64,848	3,182	RW, CA
21J	Perennial	Ditch	243	13	RW
21K	Intermittent	Open Channel	28	5	RW
21U	Perennial	Open Channel	2,082	143	RW, NC
21V	Ephemeral	Open Channel	904	124	RW, RC

PLATE 7C – WATERWAY IMPACTS (ALTERNATIVE 10 AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	11,177	1,156	RW
21B_C	Perennial	Culvert	2,746	261	EC
21C	Perennial	Open Channel	64,848	3,182	RW, CA
21J	Perennial	Ditch	243	13	RW
21K	Intermittent	Open Channel	28	5	RW
21U	Perennial	Open Channel	2,082	143	RW, NC
21V	Ephemeral	Open Channel	904	124	RW, RC

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PLATE 8A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	351	83	RW, CA
20C	Perennial	Ditch	112	37	RW, CE, NC
20D	Perennial	Open Channel	3,672	475	RW, CE
20D_C	Perennial	Culvert	1,895	180	EC
20E	Intermittent	Open Channel	140	47	RW, CA
21B	Perennial	Open Channel	10,220	1,007	RW, CA, SO
21C	Perennial	Open Channel	10,305	539	RW, CA, NC
21I	Perennial	Open Channel	22	6	NC

PLATE 8B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	309	72	RW, CE
20C	Perennial	Ditch	112	37	RW, CE, NC
20D	Perennial	Open Channel	3,672	475	RW, CE
20D_C	Perennial	Culvert	1,895	180	EC
20E	Intermittent	Open Channel	140	47	RW, CA
21B	Perennial	Open Channel	9,525	964	RW, CA, SO
21C	Perennial	Open Channel	10,305	539	RW, CA, NC
21I	Perennial	Open Channel	22	6	NC

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PLATE 8C – WATERWAY IMPACTS (ALTERNATIVES 10 AND 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	351	83	RW, CA
20C	Perennial	Ditch	112	37	RW, CE, NC
20D	Perennial	Open Channel	3,672	475	RW, CE
20D_C	Perennial	Culvert	1,895	180	EC
20E	Intermittent	Open Channel	140	47	RW, CA
21B	Perennial	Open Channel	10,220	1,007	RW, CA, SO
21C	Perennial	Open Channel	10,427	547	RW, CA, NC
21I	Perennial	Open Channel	22	6	NC

PLATE 9A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19B	Intermittent	Open Channel	166	56	RW, CE, NC
19B_C	Intermittent	Culvert	335	114	EC
19C	Perennial	Open Channel	635	70	RW, CE, NC
19C_C	Perennial	Culvert	1,368	130	EC
19F	Perennial	Open Channel	8,552	690	RW, CE, NC
19F_1	Perennial	Open Channel	1,633	140	RW, NC
19F_2	Perennial	Open Channel	1,073	93	SO
19F_C	Perennial	Culvert	1,351	162	EC
19F_C1	Perennial	Culvert	789	49	EC
19G	Intermittent	Open Channel	104	37	RW, CE
19J_1	Perennial	Open Channel	1,427	129	RW, CE
19J_2	Perennial	Open Channel	1,516	143	RW, CE, NC
19J_C	Perennial	Culvert	169	22	EC
19J_C1	Perennial	Culvert	1,794	274	EC

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PLATE 9A - WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
19D	PFO	169	CE, NC

PLATE 9B – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19B	Intermittent	Open Channel	166	56	RW, CE, NC
19B_C	Intermittent	Culvert	335	114	EC
19C	Perennial	Open Channel	635	70	RW, CE, NC
19C_C	Perennial	Culvert	1,368	130	EC
19F	Perennial	Open Channel	8,552	690	RW, CE, NC
19F_1	Perennial	Open Channel	1,633	140	RW, NC
19F_2	Perennial	Open Channel	1,073	93	SO
19F_C	Perennial	Culvert	1,351	162	EC
19F_C1	Perennial	Culvert	789	49	EC
19G	Intermittent	Open Channel	104	37	RW, CE
19J_1	Perennial	Open Channel	1,427	129	RW, CE
19J_2	Perennial	Open Channel	1,516	143	RW, CE, NC
19J_C	Perennial	Culvert	169	22	EC
19J_C1	Perennial	Culvert	1,794	274	EC

PLATE 9B - WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
19D	PFO	169	CE, NC

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PLATE 10A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19F_3	Perennial	Open Channel	951	65	NC
19F_4	Perennial	Open Channel	551	34	NC
19F_C2	Perennial	Culvert	16,756	1,308	EC
19K_1	Perennial	Open Channel	426	8	CE, NC
19R	Intermittent	Open Channel	137	3	CA
19R_1	Intermittent	Open Channel	15	1	CA
19T	Perennial	Open Channel	1,013	77	RW, CE
19T_1	Perennial	Open Channel	3,137	171	RW, CA, CE, NC
19T_C	Perennial	Culvert	3,638	227	EC

PLATE 10A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
19S	PFO	887	CA
19Y	PEM	2,335	CA

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PLATE 10B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19F_3	Perennial	Open Channel	951	65	NC
19F_4	Perennial	Open Channel	551	34	NC
19F_C2	Perennial	Culvert	16,756	1,308	EC
19K_1	Perennial	Open Channel	426	8	CE, NC
19R	Intermittent	Open Channel	137	3	CA
19R_1	Intermittent	Open Channel	15	1	CA
19T	Perennial	Open Channel	1,013	77	RW, CE
19T_1	Perennial	Open Channel	3,137	171	RW, CA, CE, NC
19T_C	Perennial	Culvert	3,638	227	EC

PLATE 10B - WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
19S	PFO	887	CA
19Y	PEM	2,335	CA

PLATE 11A - WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
18I	Perennial	Open Channel	846	58	RW, CE, NC
19K_2	Perennial	Open Channel	4,623	135	CA, NC, CE
19V	Perennial	Open Channel	922	53	NC
19V_C	Perennial	Culvert	6,014	331	EC

PLATE 11A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
18M	PFO	3,747	RW, CA

USACE IMPACT TABLES

PLATE 11B - WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
18I	Perennial	Open Channel	846	58	RW, CE, NC
19K_2	Perennial	Open Channel	4,623	135	CA, NC, CE
19V	Perennial	Open Channel	694	40	NC
19V_C	Perennial	Culvert	6,014	331	EC

PLATE 11B - WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
18M	PFO	2,179	RW, CA

PLATE 12A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
17B	Ephemeral	Open Channel	246	75	CA
18A	Intermittent	Open Channel	318	59	CE
18B	Ephemeral	Open Channel	210	39	CA
18B_C	Ephemeral	Culvert	1,553	386	EC
18C_1	Perennial	Open Channel	1,104	50	RW, CE, NC
18C_C	Perennial	Culvert	2,525	253	EC
18G	Intermittent	Open Channel	65	6	CA
18G_C	Intermittent	Culvert	14,072	1,274	EC
18G_D	Intermittent	Ditch	54	8	CA
19K_6	Perennial	Open Channel	796	42	CA

PLATE 12A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
17A	PEM	840	CA
18F	PFO	95	CA

USACE IMPACT TABLES

PLATE 12B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
17B	Ephemeral	Open Channel	246	75	CA
18A	Intermittent	Open Channel	318	59	CE
18B	Ephemeral	Open Channel	210	39	CA
18B_C	Ephemeral	Culvert	1,553	386	EC
18C_1	Perennial	Open Channel	1,104	50	RW, CE, NC
18C_C	Perennial	Culvert	2,412	241	EC
18G	Intermittent	Open Channel	65	6	CA
18G_C	Intermittent	Culvert	14,072	1,274	EC
18G_D	Intermittent	Ditch	54	8	CA
19K_6	Perennial	Open Channel	796	42	CA

PLATE 12B - WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
17A	PEM	840	CA
18F	PFO	95	CA

USACE IMPACT TABLES

PLATE 13A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A_1	Perennial	Open Channel	1,599	132	CA
16A_2	Perennial	Open Channel	2,452	109	CA
16A_C2	Perennial	Culvert	1,587	110	EC
17BB	Intermittent	Open Channel	384	47	NC
17BB_C	Intermittent	Culvert	1,955	295	EC
17DD	Intermittent	Open Channel	76	26	CA
17DD_C	Intermittent	Culvert	898	401	EC
17F	Perennial	Open Channel	9	3	CA
17R	Ephemeral	Open Channel	46	24	RW, CA
17Y	Intermittent	Open Channel	492	57	CA
17Z	Ephemeral	Open Channel	651	210	RW
19K_7	Perennial	Open Channel	2,772	70	CA, NB
19K_8	Perennial	Open Channel	3,269	71	CA, NB
19K_B2	Perennial	Bridge	6,924	156	EB

PLATE 13A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
17AA	PFO	297	RW, NC
17CC	PFO	3,685	RW, CA
17S	PFO	4,161	CA
17V	PFO	8,437	RW
17X	PFO	90	CA

USACE IMPACT TABLES

PLATE 13B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A_1	Perennial	Open Channel	1,582	132	CA
16A_2	Perennial	Open Channel	2,265	109	CA
16A_C2	Perennial	Culvert	1,587	110	EC
17BB	Intermittent	Open Channel	384	47	NC
17BB_C	Intermittent	Culvert	1,955	295	EC
17DD	Intermittent	Open Channel	8	3	CA
17DD_C	Intermittent	Culvert	898	401	EC
17R	Ephemeral	Open Channel	23	12	RW, CA
17Y	Intermittent	Open Channel	492	57	CA
17Z	Ephemeral	Open Channel	651	210	RW
19K_7	Perennial	Open Channel	2,279	58	CA, NB
19K_8	Perennial	Open Channel	2,657	59	CA, NB
19K_B2	Perennial	Bridge	6,924	156	EB

PLATE 13B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
17AA	PFO	297	CA, NC, RW
17CC	PFO	1,280	CA, NC, RW
17S	PFO	188	CA
17V	PFO	6,738	CA, RW
17X	PFO	90	CA

USACE IMPACT TABLES

PLATE 14A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A	Perennial	Open Channel	1,968	51	CA
16A_1	Perennial	Open Channel	12,804	1,011	RW, CA
16A_C	Perennial	Culvert	2,419	131	EC
16A_C1	Perennial	Culvert	5,664	265	EC
16F	Ephemeral	Open Channel	923	159	RW, CA
16G	Perennial	Open Channel	3,001	172	RW, CA, NB
16G_1	Perennial	Open Channel	1,849	165	RW, CA, CE
16G_B	Perennial	Bridge	604	39	EB
16G_C	Perennial	Culvert	835	191	EC
16G_C1	Perennial	Culvert	6,757	592	EC
16G_D	Perennial	Ditch	402	84	RW, NC
16G_D1	Perennial	Ditch	1,176	167	CA, CE
16J	Ephemeral	Open Channel	197	42	CA, NB
16J_1	Ephemeral	Open Channel	9	4	CA
16J_B	Ephemeral	Bridge	153	46	EB

PLATE 14A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
16L	PFO	148	RW, CA

USACE IMPACT TABLES

PLATE 14B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A	Perennial	Open Channel	1,602	38	CA
16A_1	Perennial	Open Channel	12,804	1,011	RW, CA, NC
16A_C	Perennial	Culvert	2,419	131	EC
16A_C1	Perennial	Culvert	5,664	265	EC
16F	Ephemeral	Open Channel	923	159	RW, CA
16G	Perennial	Open Channel	3,001	172	RW, CA, NB
16G_1	Perennial	Open Channel	1,585	148	RW, CA, CE
16G_B	Perennial	Bridge	604	39	EB
16G_C	Perennial	Culvert	835	191	EC
16G_C1	Perennial	Culvert	6,757	592	EC
16G_D	Perennial	Ditch	402	84	RW, NC
16G_D1	Perennial	Ditch	1,176	167	CA, CE
16J	Ephemeral	Open Channel	197	42	CA, NB
16J_1	Ephemeral	Open Channel	9	4	CA
16J_B	Ephemeral	Bridge	153	46	EB

USACE IMPACT TABLES

PLATE 15A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
15A	Intermittent	Ditch	4,830	657	RW
15A_C	Intermittent	Culvert	1,369	551	EC
15B	Intermittent	Open Channel	701	132	RW, CA, RC
16E	Intermittent	Ditch	882	165	RW, RC
16E_C	Intermittent	Culvert	255	55	EC

PLATE 15A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
16H	PEM	1,143	RW

PLATE 15B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
15A	Intermittent	Ditch	4,830	657	RW
15A_C	Intermittent	Culvert	1,038	429	EC
15B	Intermittent	Open Channel	701	132	RW, CA, RC
16E	Intermittent	Ditch	813	153	RW, RC
16E_C	Intermittent	Culvert	7	5	EC

PLATE 15B - WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
16H	PEM	1,143	RW

USACE IMPACT TABLES

PLATE 16A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14G	Intermittent	Open Channel	808	63	RW, CE
14G_1	Intermittent	Open Channel	93	17	RW, NC
14G_C	Intermittent	Culvert	949	185	EC
15D	Perennial	Open Channel	598	24	RW, CA
15D_1	Perennial	Open Channel	466	16	CA
15D_C	Perennial	Culvert	3,307	267	EC
15E	Ephemeral	Open Channel	30	8	CA

PLATE 16B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14G	Intermittent	Open Channel	808	63	RW, CE
14G_1	Intermittent	Open Channel	93	17	RW, NC
14G_C	Intermittent	Culvert	949	185	EC
15D	Perennial	Open Channel	150	8	RW, CA
15D_1	Perennial	Open Channel	109	3	CA
15D_C	Perennial	Culvert	3,299	267	EC

USACE IMPACT TABLES

PLATE 17A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14A	Intermittent	Open Channel	242	54	RW, CE
14A_1	Intermittent	Open Channel	2,503	206	RW, CA
14A_C	Intermittent	Culvert	2,227	172	EC
14E	Perennial	Open Channel	813	101	RW, CE
14E_C	Perennial	Culvert	252	57	EC
14E_C1	Perennial	Culvert	1,337	201	EC
14E_D	Perennial	Ditch	27	8	RW, CE

PLATE 17A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
14C	PEM	188	RW
14D	PSS	611	RW
14F	PEM	345	RW, CA
14I	PFO	2,500	RW, CE
14K	PFO	470	RW

USACE IMPACT TABLES

PLATE 17B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14A	Intermittent	Open Channel	216	48	RW, CE
14A_1	Intermittent	Open Channel	2,503	206	RW, CA
14A_C	Intermittent	Culvert	2,227	172	EC
14E	Perennial	Open Channel	813	101	RW, CE
14E_C	Perennial	Culvert	176	42	EC
14E_C1	Perennial	Culvert	1,337	201	EC
14E_D	Perennial	Ditch	27	8	RW, CE

PLATE 17B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
14C	PEM	188	RW
14D	PSS	357	RW
14F	PEM	345	RW, CA
14I	PFO	1,100	RW, CE
14K	PFO	470	RW

USACE IMPACT TABLES

PLATE 18A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13F	Perennial	Open Channel	140	58	CA
13G	Intermittent	Open Channel	311	36	CA
13H	Perennial	Open Channel	2,532	299	RW, CA, NC

PLATE 18B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13F	Perennial	Open Channel	140	58	CA
13G	Intermittent	Open Channel	311	36	CA
13H	Perennial	Open Channel	2,532	299	RW, CA, NC

PLATE 19A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13A	Intermittent	Open Channel	1,018	189	RW, CE, NC
13E	Ephemeral	Open Channel	483	87	RW, CA
13I	Ephemeral	Open Channel	1,574	179	CA
13I_1	Intermittent	Open Channel	1,499	171	CA
13K	Intermittent	Open Channel	765	159	CA, NB
13L	Ephemeral	Open Channel	1,166	198	CA
13O	Intermittent	Open Channel	414	35	RW, CA
13P	Perennial	Open Channel	3,516	101	CA, NB
13P_1	Perennial	Open Channel	11,071	256	CA, NB
13P_B	Perennial	Bridge	4,402	126	EB

USACE IMPACT TABLES

PLATE 19B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13A	Intermittent	Open Channel	895	172	RW, CE, NC
13E	Ephemeral	Open Channel	411	75	RW, CA
13I	Ephemeral	Open Channel	1,574	179	CA
13I_1	Intermittent	Open Channel	1,499	171	CA
13K	Intermittent	Open Channel	536	118	CA, NB
13L	Ephemeral	Open Channel	1,166	198	CA
13O	Intermittent	Open Channel	274	23	RW, CA
13P	Perennial	Open Channel	3,086	87	CA, NB
13P_1	Perennial	Open Channel	11,071	256	CA, NB
13P_B	Perennial	Bridge	4,402	126	EB

PLATE 20A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13M	Perennial	Open Channel	13,632	1,518	RW, CA, NC
13M_1	Perennial	Open Channel	1,876	142	RW, CE, RC
13M_C	Perennial	Culvert	2,475	260	EC
13N	Ephemeral	Open Channel	900	102	RW
13S	Intermittent	Open Channel	1,259	252	RW, CA
13S_1	Intermittent	Open Channel	153	22	CA
13S_C	Intermittent	Culvert	403	148	EC
13X_1	Perennial	Ditch	203	29	CE
13Y	Perennial	Open Channel	588	87	RW, CE, NC

USACE IMPACT TABLES

PLATE 20B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13M	Perennial	Open Channel	12,716	1,518	RW, CA, NC
13M_1	Perennial	Open Channel	1,708	130	RW, CE, RC
13M_C	Perennial	Culvert	2,475	260	EC
13N	Ephemeral	Open Channel	900	102	RW
13S	Intermittent	Open Channel	1,259	252	RW, CA
13S_1	Intermittent	Open Channel	153	22	CA
13S_C	Intermittent	Culvert	403	148	EC
13X_1	Perennial	Ditch	104	15	CE
13Y	Perennial	Open Channel	505	73	RW, CE, NC

USACE IMPACT TABLES

PLATE 22A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12C	Perennial	Ditch	1,664	277	CA
12C_C	Perennial	Culvert	222	69	EC
12CCC	Perennial	Ditch	1,085	214	NC, CA
12E_C	Perennial	Culvert	822	91	EC
12E_C1	Perennial	Culvert	434	51	EC
12EE	Intermittent	Open Channel	1,633	239	RW, NC
12EE_C	Intermittent	Culvert	749	247	EC
12F	Perennial	Open Channel	449	51	NC
12F_C	Perennial	Culvert	1,081	317	EC
12GGG	Ephemeral	Open Channel	341	79	CA
12H	Perennial	Open Channel	916	59	CA
12H_C	Perennial	Culvert	112	17	EC
12H_C1	Perennial	Culvert	1,834	122	EC
12HHHH	Intermittent	Open Channel	420	43	CA
12III	Intermittent	Open Channel	65	22	CE, NC
12JJJ	Perennial	Open Channel	289	29	CA
12JJJ_C	Perennial	Culvert	1,588	172	EC
12K	Perennial	Open Channel	3,750	437	RW, NC
12K_1	Perennial	Open Channel	178	28	CA
12K_C	Perennial	Culvert	1,536	196	EC
12KKK	Intermittent	Open Channel	228	115	CA
12KKK	Intermittent	Open Channel	412	151	CA
12KKK_C	Intermittent	Culvert	1,313	221	EC
12MMM	Ephemeral	Open Channel	55	35	CA
12NNN	Intermittent	Ditch	451	175	CA
12O_1	Intermittent	Open Channel	482	66	CA
12P	Intermittent	Open Channel	226	46	CA

USACE IMPACT TABLES

PLATE 22A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
12A	PEM	1,202	CA
12AA	PFO	4,843	RW
12B	PEM	1,187	CA
12BB	PFO	29,428	RW, CA
12CC	PFO	4,227	RW
12LLL	PFO	2,303	CA
12Q	PFO	4,480	RW, CA, RC

USACE IMPACT TABLES

PLATE 23A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12CCC	Perennial	Ditch	96	20	CA
12FFF	Ephemeral	Open Channel	949	423	CA
12H_2	Perennial	Open Channel	81	9	CA
12H_3	Perennial	Open Channel	2,733	286	CA, NC
12H_4	Perennial	Open Channel	4,622	504	CA, NC
12H_5	Perennial	Open Channel	230	22	CA
12H_B	Perennial	Bridge	1,041	90	EB
12H_B1	Perennial	Bridge	453	37	EB
12H_C2	Perennial	Culvert	350	52	EC
12II_4	Perennial	Open Channel	19,665	464	CA, NB
12II_5	Perennial	Open Channel	15,934	286	CA, NB
12II_6	Perennial	Open Channel	233	6	CA
12II_B3	Perennial	Bridge	1,745	46	EB
12II_C	Perennial	Culvert	7,373	174	EC
12II_C1	Perennial	Culvert	4,667	79	EC
12II_C2	Perennial	Culvert	4,157	90	EC
12KK	Perennial	Open Channel	8,113	1,126	RW
12LL	Ephemeral	Open Channel	523	124	RW
12PPP	Intermittent	Open Channel	417	75	CA
12QQQ	Intermittent	Open Channel	759	168	CA
12QQQ_C	Intermittent	Culvert	431	83	EC
12RRR	Perennial	Open Channel	246	30	CA
12RRR_C	Perennial	Culvert	2,149	216	EC
12S	Intermittent	Open Channel	4,763	547	RW, CA, NC, CE
12S_C	Intermittent	Culvert	440	151	EC
12T	Intermittent	Open Channel	364	41	CA
12Y	Intermittent	Open Channel	631	85	RW
12Y_C	Intermittent	Culvert	308	89	EC

USACE IMPACT TABLES

PLATE 23A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
12DDD	PEM	2,831	CA
12EEE	PFO	7,415	CA
12FF	PEM	1,433	RW, CA
12FF	PEM	906	CA
12GG	PFO	527	RW
12JJ	PEM	2,223	RW
12OOO	PEM	1,050	CA
12U	PFO	3,508	CA
12W	PFO	8,335	RW
12YY	PFO	715	RW, CA

USACE IMPACT TABLES

PLATE 24A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12II	Perennial	Open Channel	8,712	131	CA, NB
12II_C3	Perennial	Culvert	9,930	159	EC
12WW	Perennial	Open Channel	403	97	RW, CA
12WW_1	Perennial	Open Channel	289	49	RW, CA
12WW_2	Perennial	Open Channel	742	83	CA, NB
12WW_C	Perennial	Culvert	637	128	EC
12WW_C1	Perennial	Culvert	1,562	186	EC
12WWW_1	Intermittent	Open Channel	1,422	254	RW, NC, CA
12XX	Perennial	Open Channel	2,424	157	CA, NB
12XX_1	Perennial	Open Channel	107	15	CA
12XX_C	Perennial	Culvert	1,718	252	EC
12YYY	Perennial	Ditch	2,776	843	RW, CA, NC
12YYY_1	Perennial	Ditch	932	186	CA, SO
12YYY_C	Perennial	Culvert	1,084	175	EC
12YYY_C1	Perennial	Culvert	463	107	EC

PLATE 24A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
12XXX	PEM	3,179	RW
12ZZZ	PFO	8,429	CA, NB

USACE IMPACT TABLES

PLATE 25A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12OO	Perennial	Open Channel	4,140	103	RW, CE, NC
12OO_1	Perennial	Open Channel	3,474	101	RW, CE, NC
12OO_C	Perennial	Culvert	7,487	221	EC
12PP	Intermittent	Open Channel	2	5	RW, SO
12UUU	Perennial	Open Channel	48	29	RW, CE

PLATE 25A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
12NN	PFO	2,896	RW, RC
12QQ	PFO	11	RW, SO
12SS	PFO	14,105	RW, HL, CA, CE

PLATE 26A - WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
11GG	Ephemeral	Open Channel	250	156	CA, SO
11R	Perennial	Ditch	506	105	RW
11R_1	Perennial	Open Channel	471	97	RW, CA
11R_C	Perennial	Culvert	61	21	EC
11T	Perennial	Ditch	216	46	NC
11T_C	Perennial	Culvert	1,511	288	EC

USACE IMPACT TABLES

PLATE 27A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
11AA	Intermittent	Open Channel	1,774	337	RW
11CC	Intermittent	Open Channel	218	90	RW, RC
11L	Perennial	Open Channel	5,813	106	RW, CE
11L_1	Perennial	Open Channel	2,572	37	RW
11L_2	Perennial	Open Channel	6,654	179	RW, CE
11L_B	Perennial	Bridge	4,960	70	EB
11L_B1	Perennial	Bridge	4,717	72	EB
11M	Intermittent	Open Channel	343	49	RW
11M_1	Intermittent	Open Channel	1,767	208	RW
11M_B	Intermittent	Bridge	204	32	EB
11V	Perennial	Ditch	5,924	554	RW
11Y	Intermittent	Open Channel	2,035	360	RW

USACE IMPACT TABLES

PLATE 27A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
11DD	PEM	299	RW
11EE	PFO	2,575	RW
11F	PEM	2,990	RW, RC
11FF	PFO	20	RW
11I	PFO	2,188	RW
11II	PFO	890	RW
11K	PFO	1,805	RW, RC, CE
11N	PFO	753	RW
11O	PEM	11,773	RW
11P	PFO	6,703	RW
11U	PFO	20,752	RW, RC
11W	PEM	571	RW
11X	PEM	1,196	RW
11Z	PFO	33,799	RW, RC, NB, HL

USACE IMPACT TABLES

PLATE 28A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10AA	Perennial	Open Channel	1,690	290	RW, CA
10AA_C	Perennial	Culvert	2,046	241	EC
10BB	Perennial	Ditch	3,869	633	RW, CA, CE
10BB_C	Perennial	Culvert	706	116	EC
10Q	Ephemeral	Open Channel	407	124	CA
10Q_C	Ephemeral	Culvert	171	91	EC
10S	Perennial	Ditch	2,469	516	RW, CA, CE
10S_C	Perennial	Culvert	389	132	EC
10U	Intermittent	Open Channel	1,508	178	RW
10Y_C	Perennial	Culvert	826	340	EC
11A_1	Perennial	Ditch	129	43	RW, NC, CE
11C	Intermittent	Open Channel	580	261	RW, CA
11C_C	Intermittent	Culvert	482	120	EC
11E	Perennial	Open Channel	22	14	CA
11E_C	Perennial	Culvert	341	12	EC
11E_C1	Perennial	Culvert	2,795	223	EC
11E_C2	Perennial	Culvert	1,023	57	EC
11E_D	Perennial	Ditch	11,315	1,201	RW, CA, CE, NC
11E_D1	Perennial	Ditch	1,572	84	RW
11E_D2	Perennial	Ditch	1,194	71	CE, NC

PLATE 28A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
10R	PFO	2,451	CA
10T	PFO	3,337	RW
10V	PEM	2,283	RW
10W	PEM	1,232	CA
11B	PFO	400	RW, CE, NC, RC

USACE IMPACT TABLES

PLATE 29A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10B	Intermittent	Open Channel	103	13	RW, CA
10B_1	Intermittent	Open Channel	420	80	RW, CA
10B_C	Intermittent	Culvert	868	95	EC
10C	Perennial	Open Channel	1,092	102	CA
10C_1	Perennial	Open Channel	1,021	82	CA
10C_C	Perennial	Culvert	2,831	226	EC
10E	Perennial	Open Channel	1,195	92	RW
10F	Intermittent	Open Channel	237	45	CA, NB
10F_1	Intermittent	Open Channel	604	105	CA
10F_2	Intermittent	Open Channel	621	79	CA
10F_C	Intermittent	Culvert	670	117	EC
10F_C1	Intermittent	Culvert	1,075	122	EC
10K	Intermittent	Open Channel	1,320	123	RW
10K_C	Intermittent	Culvert	1,144	213	EC
10L	Intermittent	Open Channel	4,730	735	RW, CA
10N	Intermittent	Open Channel	845	133	RW
10N_1	Intermittent	Open Channel	2,645	325	RW, CA, NC
10N_C	Intermittent	Culvert	2,928	397	EC
10O	Ephemeral	Open Channel	334	97	NB
10X	Ephemeral	Open Channel	996	196	RW, CA

PLATE 29A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
10D	PSS	9,707	RW, RC, CE
10I	PFO	322	CA
10M	PFO	2,698	RW, RC, CA, HL
10P	PFO	378	NB

USACE IMPACT TABLES

PLATE 30A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10A	Ephemeral	Open Channel	204	21	CA
10AAA	Intermittent	Open Channel	18	5	CA
10TT_C1	Perennial	Culvert	1,473	67	EC

PLATE 30A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
10EE	PFO	4,189	RW

PLATE 31A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10FF	Intermittent	Open Channel	1,569	137	SO
10MM	Intermittent	Open Channel	203	25	SO
10MM_1	Intermittent	Open Channel	3,411	368	RW, CA
10MM_C	Intermittent	Culvert	2,419	210	EC
10PP	Intermittent	Open Channel	235	29	CA
10PP_1	Intermittent	Open Channel	830	105	CA
10PP_C	Intermittent	Culvert	2,477	272	EC
10JJ	Intermittent	Open Channel	67	11	RW

PLATE 31A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
10GG	PFO	3,076	CA

USACE IMPACT TABLES

PLATE 32A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
9G	Perennial	Open Channel	2,136	133	NC
9G_1	Perennial	Open Channel	712	73	RW, NC
9G_C	Perennial	Culvert	4,749	278	EC
9J	Perennial	Open Channel	877	74	RW, CE, NC
9J_C	Perennial	Culvert	1,291	274	EC
9M	Intermittent	Open Channel	1,283	315	RW, CE, NC
9O	Ephemeral	Open Channel	22	23	NC
9P	Ephemeral	Open Channel	380	190	RW
9QQ	Intermittent	Open Channel	442	160	RW, NC
9QQ_1	Ephemeral	Open Channel	254	94	RW
9RR	Intermittent	Open Channel	1,068	403	RW
9RR_1	Ephemeral	Open Channel	194	156	RW
9UU	Ephemeral	Open Channel	11	26	RC

PLATE 32A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
9K	PSS	106	CE
9N	PSS	1,020	RW, RC, CE, NC
9PP	PFO	5,321	RW, NC, HL
9SS	PFO	1,488	RW
9TT	PFO	862	RW, RC

USACE IMPACT TABLES

PLATE 33A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
9CC	Perennial	Open Channel	982	330	RW, CA
9CC_C	Perennial	Culvert	948	326	EC
9FF	Ephemeral	Open Channel	123	87	RW
9GG	Intermittent	Open Channel	79	27	RW, RC
9JJ	Perennial	Open Channel	4,206	426	RW, CA, RC, NC
9LL	Ephemeral	Open Channel	63	46	RW, CA, RC
9MM	Intermittent	Open Channel	782	142	RW
9VV	Intermittent	Open Channel	344	120	RW, CA
9Y	Perennial	Open Channel	1,614	94	RW, RC, CE, NC
9Y_1	Perennial	Open Channel	919	88	CE
9Y_C	Perennial	Culvert	3,901	194	EC

PLATE 33A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
9BB	PFO	78	SO
9KK	PFO	752	RW, SO, CA
9NN	PFO	383	RW
9WW	PFO	804	RW

USACE IMPACT TABLES

PLATE 34A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
8R	Perennial	Open Channel	298	18	NC, SO
8R_C1	Perennial	Culvert	5,171	355	EC
8R_D1	Intermittent	Ditch	2,945	241	RW, CA, NC
8R_D1	Intermittent	Ditch	673	110	CA
8S	Ephemeral	Open Channel	269	139	CA
8S_1	Ephemeral	Open Channel	74	32	RW, CE
8S_C	Ephemeral	Culvert	167	77	EC
8S_C	Ephemeral	Culvert	491	176	EC
8T	Ephemeral	Open Channel	235	118	CA
9A	Intermittent	Open Channel	1,647	193	CA
9C	Intermittent	Open Channel	2,726	248	RW, CA, CE, NC
9C_1	Intermittent	Open Channel	220	26	NC
9C_C	Intermittent	Culvert	2,004	278	EC
9C_C1	Intermittent	Culvert	1,452	174	EC
9R	Intermittent	Ditch	3,365	590	CA, NC
9T	Intermittent	Open Channel	99	20	RW
9T_1	Perennial	Open Channel	1,006	143	RW, CE
9T_C	Intermittent	Culvert	1,211	231	EC

PLATE 34A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
8U	PEM	355	CA
9B	PEM	2,242	CA, NC
9D	PFO	1,249	RW, CA, CE
9E	PEM	1,029	RW, CE

USACE IMPACT TABLES

PLATE 35A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
8V	Intermittent	Open Channel	375	126	RW, CE

PLATE 36A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7Q_2	Perennial	Ditch	27	18	RW
7Q_3	Perennial	Ditch	88	32	CA
7Q_C1	Perennial	Culvert	362	168	EC
7Q_C2	Perennial	Culvert	1,249	341	EC
8A	Intermittent	Open Channel	376	190	RW
8E	Intermittent	Open Channel	209	106	RW
8E_C	Intermittent	Culvert	1,042	295	EC
8E_D	Intermittent	Ditch	671	142	CA
8F	Intermittent	Open Channel	2,399	129	RW, NC
8F_C	Intermittent	Culvert	2,329	221	EC
8G	Ephemeral	Open Channel	73	30	CA, RC
8G_1	Intermittent	Open Channel	61	19	RW
8I	Ephemeral	Open Channel	132	46	CA
8J	Intermittent	Open Channel	359	161	RW
8J_1	Perennial	Open Channel	295	75	RW
8J_2	Perennial	Open Channel	436	55	NC
8J_C	Intermittent	Culvert	1,821	505	EC
8J_C1	Perennial	Culvert	964	80	EC
8MM	Intermittent	Open Channel	134	42	NC
8N	Intermittent	Open Channel	449	170	RW
8N_1	Perennial	Open Channel	869	320	RW

USACE IMPACT TABLES

PLATE 36A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
7P	PEM	3,379	RW, CA, HL
7R	PEM	304	RW
8H	PFO	1,794	RW, CA
8K	PEM	1,160	RW
8L	PFO	1,149	RW
8M	PEM	887	RW
8O	PEM	1,563	RW
8P	PSS	1,076	RW, RC, NB
8Q	PEM	328	RW

PLATE 37A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7AA	Intermittent	Open Channel	209	121	RW
7PP	Intermittent	Open Channel	462	36	CA
7PP_C	Intermittent	Culvert	2,926	429	EC
7S	Perennial	Open Channel	1,516	146	RW, RC, CE, NC
7S_C	Perennial	Culvert	1,361	228	EC
8W	Intermittent	Open Channel	3,959	238	NC, CA
8W_1	Intermittent	Open Channel	4,008	549	RW, CE, NC
8W_C	Intermittent	Culvert	415	67	EC
8Z	Perennial	Open Channel	1,123	60	CA
8Z_C2	Perennial	Culvert	3,585	199	EC

PLATE 37A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
7KK	PFO	1,717	RW

USACE IMPACT TABLES

PLATE 38A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7MM	Intermittent	Open Channel	974	175	CA
7NN	Ephemeral	Open Channel	481	135	CA
8HH	Intermittent	Open Channel	1,283	133	SO
8HH_C	Intermittent	Culvert	1,082	80	EC

PLATE 38A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
7LL	PEM	914	CA
7RR	PEM	608	CA
8JJ	PFO	892	CA
8KK	PSS	15	CA

USACE IMPACT TABLES

PLATE 39A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7BB	Intermittent	Open Channel	279	56	RW
7BB_1	Intermittent	Open Channel	123	45	RW
7BB_C	Intermittent	Culvert	149	38	EC
7GG	Intermittent	Open Channel	771	238	RW
7I	Intermittent	Open Channel	122	50	RW
7JJ	Perennial	Open Channel	54	11	NC, CE
7JJ_1	Perennial	Open Channel	258	55	RW, CE
7JJ_C	Perennial	Culvert	270	50	EC
7JJ_C1	Perennial	Culvert	750	256	EC
7N	Perennial	Ditch	1,891	240	RW
7N_1	Perennial	Ditch	274	81	RW, CE
7N_C	Perennial	Culvert	186	28	EC
7O	Perennial	Open Channel	979	85	RW, CA, CE, NC
7O_1	Perennial	Open Channel	974	87	RW, CE
7O_C	Perennial	Culvert	2,724	203	EC

PLATE 39A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
7CC	PEM	462	RW
7HH	PFO	578	RW
7J	PFO	3,447	RW
7K	PEM	328	RW

USACE IMPACT TABLES

PLATE 40A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7A	Intermittent	Open Channel	58	14	RW
7A_C	Intermittent	Culvert	4,577	1,485	EC
7B	Ephemeral	Open Channel	919	433	RW, CA
7B	Ephemeral	Open Channel	212	75	RW
7D	Intermittent	Open Channel	125	47	RW, RC
7E	Perennial	Ditch	2,767	354	RW
7F	Intermittent	Ditch	121	32	RW
7F_C	Intermittent	Culvert	84	30	EC
7G	Perennial	Open Channel	197	21	CA
7G_1	Perennial	Open Channel	2,757	513	RW
7G_2	Perennial	Open Channel	124	18	RW
7G_C	Perennial	Culvert	231	53	EC
7G_C1	Perennial	Culvert	1,464	241	EC
7H	Intermittent	Ditch	3,528	389	RW
7T	Perennial	Open Channel	62	18	CA
7T_1	Perennial	Open Channel	779	254	RW
7T_C	Perennial	Culvert	248	73	EC
7V	Ephemeral	Open Channel	59	47	RC

USACE IMPACT TABLES

PLATE 40A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
7C	PEM	10	RC
7K	PEM	886	RW
7L	PFO	2,467	RW
7M	PFO	2,611	RW, CA
7U	PSS	749	RW
7W	PFO	2,508	RW
7Y	PFO	189	RW, RC, CE
7Z	PFO	1,544	RW, CA

USACE IMPACT TABLES

PLATE 41A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
6AA	Intermittent	Open Channel	116	32	CE, NC
6AAAA	Ephemeral	Open Channel	39	19	RW
6BBBB	Intermittent	Open Channel	47	17	RW
6BBBB_C	Intermittent	Culvert	400	257	EC
6DDD_C	Intermittent	Culvert	649	129	EC
6EEE	Intermittent	Open Channel	58	31	CA
6G	Perennial	Open Channel	15	2	CA
6G_1	Perennial	Open Channel	7,018	1,094	RW, CA, CE, NC
6G_C	Perennial	Culvert	4,508	526	EC
6RRR	Intermittent	Open Channel	425	70	RW
6RRR_C	Intermittent	Culvert	2,742	370	EC
6TT	Perennial	Open Channel	75	13	CA
6TTT	Intermittent	Open Channel	904	233	RW
6TTT_C	Intermittent	Culvert	1,210	314	EC
6UU	Intermittent	Open Channel	139	55	RW
6UU_1	Intermittent	Open Channel	41	15	RW
6UU_C	Intermittent	Culvert	749	252	EC
6UUU	Intermittent	Open Channel	179	71	CA, RW, RC
6WW	Intermittent	Open Channel	293	62	CA
6WW_C	Intermittent	Culvert	358	95	EC
6WWW	Ephemeral	Open Channel	31	15	RW, RC
6XX	Ephemeral	Open Channel	214	78	CA
6YY	Ephemeral	Open Channel	171	63	CA

USACE IMPACT TABLES

PLATE 41A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
6CCCC	PFO	695	RW
6OO	PEM	3,508	RW, CA
6OO	PEM	161	CA
6OO	PEM	1,165	RW, CA
6OO	PEM	777	RW, CE, RC, NC
6OO	PEM	179	RW, CE, NC
6OO	PEM	50	RW, CE, NC
6OO	PEM	1,061	RW, CE
6OO	PEM	775	RW, RC
6OO	PEM	802	RW, RC
6OO	PEM	282	RW, RC
6S	PEM	277	RW
6VV	PFO	3,216	CA
6VVV	PFO	1,569	RW, CA, RC
6XXX	PFO	2,245	RW, CE, NC
6Y	PFO	1,586	RW
6Y	PFO	4,775	RW, CA
6YYY	PEM	489	RW, CA, CE
6ZZ	PFO	387	CA
6ZZZ	PFO	4,641	RW, CA, RC

USACE IMPACT TABLES

PLATE 42A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
6B	Perennial	Open Channel	183	40	RW, CE
6BB_C	Intermittent	Culvert	573	118	EC
6D	Intermittent	Open Channel	132	33	RW
6G_2	Perennial	Open Channel	9,867	697	RW, CA, RC, NC
6G_3	Perennial	Open Channel	7,472	595	RW, CA
6G_B	Perennial	Bridge	2,653	114	EB
6G_C1	Perennial	Culvert	5,197	328	EC
6III	Intermittent	Ditch	2,212	427	RW, CE
6III_C	Intermittent	Culvert	238	267	EC
6J	Ephemeral	Open Channel	187	25	RW
6JJJ	Perennial	Ditch	141	36	RW
6JJJ_C	Perennial	Culvert	1,093	251	EC
6LLL	Perennial	Ditch	2,850	753	RW, CE
6MMM	Perennial	Open Channel	932	53	RW, CE
6MMM_1	Perennial	Open Channel	59	17	NC
6MMM_C	Perennial	Culvert	1,899	239	EC
6NNN_1	Intermittent	Open Channel	80	31	CE, NC
6NNN_C	Intermittent	Culvert	59	26	EC
6SS_C	Intermittent	Culvert	198	66	EC
6T	Intermittent	Open Channel	331	88	RW
6V	Ephemeral	Open Channel	440	270	RW

USACE IMPACT TABLES

PLATE 42A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
6A	PFO	3,756	RW
6C	PFO	4,791	RW, CE, NC, SO
6E	PFO	879	RW, HL
6F	PFO	6,539	RW
6H	PEM	1,836	RW
6I	PFO	2,777	RW, HL
6K	PFO	1,789	RW, HL
6KKK	PEM	1,022	RW
6PPP	PFO	4,008	RW
6SSS	PEM	177	RW
6U	PFO	17,232	RW, CA

USACE IMPACT TABLES

PLATE 43A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
5BB	Intermittent	Open Channel	384	133	CA
5Q	Perennial	Ditch	54	28	CA
5Y	Ephemeral	Open Channel	405	194	CA, SO
6AAA_1	Intermittent	Ditch	167	52	RW
6AAA_C1	Intermittent	Culvert	1,025	236	EC
6FFFF_1	Intermittent	Open Channel	31	8	RW
6FFFF_2	Intermittent	Open Channel	133	19	RW, RC, CE
6FFFF_C1	Intermittent	Culvert	116	24	EC
6G_3	Perennial	Open Channel	9,733	687	RW, SO
6G_6	Perennial	Open Channel	33	11	CA
6GGG	Intermittent	Open Channel	440	112	RW, CA
6GGG_1	Intermittent	Open Channel	602	226	CA
6GGG_C	Intermittent	Culvert	511	134	EC
6GGG_C1	Intermittent	Culvert	139	70	EC
6L	Intermittent	Ditch	108	41	RW, CE
6MM	Ephemeral	Open Channel	382	216	CA

PLATE 43A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
5AA	PSS	8,183	CA
5R	PEM	323	CA
5Z	PFO	13,062	CA
6CCC	PEM	5,311	RW, CA, HL
6HHH	PFO	1,832	RW, CA
6P	PFO	812	RW
6P	PFO	2,022	RW, RC
6Q	PFO	97	CA
6QQQ	PEM	100	CA

USACE IMPACT TABLES

PLATE 44A – WATERWAY IMPACTS *(ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)*

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
5JJ	Ephemeral	Open Channel	330	36	RW, CA
5KK	Intermittent	Open Channel	166	31	CA
5MM	Intermittent	Open Channel	243	20	CA
5Q	Perennial	Ditch	1,966	918	RW, CA
5QQ	Intermittent	Open Channel	36	11	CA
5QQ_2	Intermittent	Open Channel	60	21	CA
5QQ_C	Intermittent	Culvert	237	80	EC
5S	Perennial	Open Channel	3,972	108	CE
5S_1	Perennial	Open Channel	2,209	82	CE
5S_B	Perennial	Bridge	7,674	200	EB
5SS	Ephemeral	Open Channel	112	25	CA
5T	Perennial	Ditch	184	11	CE
5Y	Ephemeral	Open Channel	54	30	CA
6G_6	Perennial	Open Channel	4,994	271	RW, CA

PLATE 44A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
5II	PFO	114	CA
5LL	PEM	23	CE
5R	PEM	12,273	RW, CA
5RR	PFO	1,203	CA
5TT	PEM	220	CA
5UU	PSS	2,255	CA

USACE IMPACT TABLES

PLATE 45A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
5FF	Intermittent	Open Channel	73	25	RW, CE
5FF_C	Intermittent	Culvert	723	244	EC
5O	Ephemeral	Open Channel	2,515	251	RW
5P	Intermittent	Open Channel	1,518	157	RW

PLATE 45A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
5CC	PFO	48	RW
5DD	PEM	158	RW
5GG	PFO	1,923	RW

USACE IMPACT TABLES

PLATE 46A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4NNN_1	Intermittent	Open Channel	277	43	CE, NC
4TTTT_3	Perennial	Open Channel	424	86	RW
4TTTT_C2	Perennial	Culvert	127	33	EC
4Y	Ephemeral	Open Channel	5	2	CA
4Y_D	Ephemeral	Open Channel	7	3	CA
4Z_1	Perennial	Open Channel	737	50	RW, CE
4Z_2	Perennial	Open Channel	914	68	NC
4Z_3	Perennial	Open Channel	1,093	123	CA
4Z_C	Perennial	Culvert	67	21	EC
4Z_C1	Perennial	Culvert	1,436	103	EC
4Z_C2	Perennial	Culvert	770	80	EC
5F	Perennial	Open Channel	392	61	RW, CE
5F_1	Perennial	Open Channel	1,919	185	RW, CA, CE
5F_C1	Perennial	Culvert	3,718	496	EC
5J	Intermittent	Open Channel	15	5	CA, CE
5N	Intermittent	Open Channel	203	58	RW

PLATE 46A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
5E	PSS	18,526	RW, CA
5G	PSS	64	CE, NC
5K	PFO	3,339	RW, CA, CE
5L	PFO	984	RW, CE, NC
5L	PFO	1,011	CE, NC
5M	PEM	1,528	CE, NC

USACE IMPACT TABLES

PLATE 47A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4BBB	Perennial	Open Channel	1,219	380	RW, NC, CE
4BBB_1	Perennial	Open Channel	187	40	RW
4BBB_C	Perennial	Culvert	119	24	EC
4EE	Perennial	Open Channel	131	66	RW
4GGG	Ephemeral	Open Channel	274	139	RW
4HHH	Intermittent	Open Channel	80	28	RW
4HHH_1	Intermittent	Open Channel	53	18	RW
4HHH_C	Intermittent	Culvert	62	23	EC
4T	Intermittent	Open Channel	619	50	RW, CE, NC
4T_C	Intermittent	Culvert	1,701	290	EC
4U	Intermittent	Open Channel	509	87	RW, CE
4W	Perennial	Open Channel	339	51	RW, CE
4W_1	Perennial	Open Channel	96	13	RW
4W_2	Perennial	Open Channel	347	52	CE
4W_C	Perennial	Culvert	1,933	271	EC
4W_C1	Perennial	Culvert	138	27	EC

USACE IMPACT TABLES

PLATE 47A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
4CCC	PEM	2,225	RW
4DD	PEM	462	RW
4DDD	PFO	425	RW
4EEE	PEM	181	RW
4FFF	PFO	2,078	RW
4III	PEM	1,929	RW
4JJJ	PFO	335	RW
4QQQ	PEM	583	RW
4V	PFO	547	RW
4XX	PFO	953	RW, NC

USACE IMPACT TABLES

PLATE 48A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4B	Intermittent	Open Channel	337	31	RW, CE
4B_C	Intermittent	Culvert	1,247	257	EC
4C	Ephemeral	Open Channel	140	50	RW
4E	Intermittent	Open Channel	147	45	RW, CE
4E_C	Intermittent	Culvert	1,064	245	EC
4JJJJ	Perennial	Open Channel	795	92	RW, CE
4LLLL	Ephemeral	Open Channel	51	26	RW
4M	Perennial	Open Channel	268	83	RW, CE
4M_C	Perennial	Culvert	1,763	270	EC
4MMMM	Ephemeral	Open Channel	113	38	RW
4NN	Intermittent	Open Channel	83	42	CE
4O	Intermittent	Open Channel	974	362	RW, CA
4OO	Intermittent	Open Channel	227	62	RW
4OOOO	Intermittent	Open Channel	273	75	RW
4P	Ephemeral	Open Channel	164	58	RW
4PPPP	Perennial	Open Channel	3,296	254	CA, NC
4Q	Perennial	Open Channel	2,439	164	RW, CE
4Q_1	Perennial	Open Channel	841	73	NC, RC
4Q_C	Perennial	Culvert	2,742	231	EC
4QQ	Intermittent	Open Channel	43	18	RW, CA
4QQQQ	Intermittent	Open Channel	716	95	RW, NC
4RRR	Intermittent	Open Channel	233	85	RW
4S	Ephemeral	Open Channel	257	106	RW
4TTT	Perennial	Open Channel	497	47	RW, CE
4UUU	Intermittent	Open Channel	251	105	RW

USACE IMPACT TABLES

PLATE 48A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
4D	PFO	283	RW, CE
4F	PFO	431	RW, CE
4KKKK	PFO	1,695	RW, RC, HL
4N	PFO	5,396	RW, CA, RC
4NNNN	PFO	2,471	RW
4R	PFO	5,050	RW, CA, RC, CE, NC
4RR	PFO	891	RW, CA, RC
4SSS	PFO	1,798	RW
4VV	PFO	318	RW, HL
4VVV	PFO	1,996	RW

USACE IMPACT TABLES

PLATE 49A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4BBBB	Ephemeral	Open Channel	152	74	RW
4DDDD	Intermittent	Open Channel	260	19	RW, CE, NC
4GG_C	Intermittent	Culvert	2,574	326	EC
4GGGG	Perennial	Open Channel	21	11	CA
4J	Ephemeral	Open Channel	197	94	RW
4K	Intermittent	Open Channel	46	15	RW
4L	Intermittent	Open Channel	320	41	RW, CA
4M	Perennial	Open Channel	308	25	RW, CA

PLATE 49A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
4AAAA	PFO	205	RC
4CCCC	PFO	1,478	RW, CE, NC, HL
4HH	PFO	4,659	RW, HL
4MM	PFO	1,603	RW, HL
4ZZZ	PFO	3,353	RW, CA, HL

USACE IMPACT TABLES

PLATE 50A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
3JJ	Intermittent	Open Channel	2,660	410	RW, CA
3JJ_C	Intermittent	Culvert	269	106	EC
3JJ_C1	Intermittent	Culvert	1,244	305	EC
3LL	Intermittent	Open Channel	1,030	125	RW
3LL_1	Intermittent	Open Channel	3,364	595	RW, CA, NC
3LL_C	Intermittent	Culvert	1,441	317	EC
3LL_C1	Intermittent	Culvert	853	195	EC
3PP	Ephemeral	Open Channel	385	86	CA
3PP_C	Ephemeral	Culvert	580	112	EC
3RR	Ephemeral	Open Channel	1,081	270	RW, CA, NC
3ZZ	Perennial	Open Channel	1,347	122	NC
4H	Ephemeral	Open Channel	81	43	RW
4H	Ephemeral	Open Channel	704	291	RW, CA
4H_C	Ephemeral	Culvert	482	128	EC
4H_C	Ephemeral	Culvert	544	205	EC
4YYY	Intermittent	Open Channel	60	35	CA

USACE IMPACT TABLES

PLATE 50A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
3GG	PEM	842	RW
3HH	PFO	2,991	RW, CA
3II	PEM	3,495	RW
3NN	PEM	618	RW
3OO	PFO	1,057	RW, CA
4A	PEM	5,212	RW
4I	PEM	927	CA
4WWW	PFO	5,609	RW, CA
4WWW	PFO	3,497	RW, CA
4XXX	PFO	2,276	CA

USACE IMPACT TABLES

PLATE 51A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
3AA	Perennial	Open Channel	299	26	RW, CE
3AA_1	Perennial	Open Channel	495	79	RW, CE
3AA_C	Perennial	Culvert	3,631	302	EC
3BB	Ephemeral	Open Channel	827	158	RW, RC
3BBB	Intermittent	Open Channel	211	62	RW, CE
3F	Ephemeral	Open Channel	563	244	RW, CA
3FFF	Intermittent	Open Channel	175	44	RW, NC
3L	Perennial	Open Channel	493	52	RW, CE
3L_1	Perennial	Open Channel	820	90	RW, CE, NC
3L_C	Perennial	Culvert	1,908	287	EC
3LLL	Ephemeral	Open Channel	26	17	CE, NC
3Q	Ephemeral	Open Channel	376	117	RW, CA
3S	Perennial	Open Channel	2,824	183	RW, CA
3SS	Intermittent	Open Channel	43	10	CA
3TT	Perennial	Open Channel	1	3	SO
3U	Intermittent	Open Channel	319	64	RW, CA

USACE IMPACT TABLES

PLATE 51A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
3E	PFO	963	RW
3GGG	PFO	244	NC
3HHH	PFO	1,508	RW, CA
3III	PEM	1,616	RC, CE, NC
3J	PEM	1,324	RW
3JJJ	PFO	880	CE, NC
3KKK	PSS	1,193	RW, NC
3M	PEM	68	CE
3O	PFO	328	RC, CE
3T	PFO	6,078	RW, CA, CE, HL
3V	PFO	746	RW, CE, NC
3X	PFO	2,562	CA, NB

USACE IMPACT TABLES

PLATE 52A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
3A	Perennial	Open Channel	652	95	RW, CE, NC
3A_1	Perennial	Open Channel	48	11	RW, NC
3A_C	Perennial	Culvert	1,746	232	EC
3D	Perennial	Open Channel	1,100	74	RW, CE
3D_1	Perennial	Open Channel	1,856	118	RW, RC, CE, NC
3D_C	Perennial	Culvert	2,833	204	EC
3DD	Perennial	Open Channel	484	46	CA, CE
3H	Intermittent	Open Channel	653	110	RW
3I	Intermittent	Open Channel	2,407	534	RW, NC
3UU	Intermittent	Open Channel	12	6	CA

PLATE 52A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
3AAA	PFO	528	RW, NC, RC, CE
3B	PFO	5,390	RW
3C	PEM	584	CE, NC
3FF	PFO	232	RW, NC
3G	PFO	3,848	RW, RC, CE, NC
3J	PEM	1,316	RW

USACE IMPACT TABLES

PLATE 53A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
2AA	Intermittent	Open Channel	29	19	RW
2H	Intermittent	Open Channel	95	50	RW, NC
2I_C	Intermittent	Culvert	1,524	238	EC
2J	Perennial	Open Channel	619	86	RW, CE, NC
2J_1	Perennial	Open Channel	614	57	NC
2J_C	Perennial	Culvert	2,675	249	EC
2L	Intermittent	Open Channel	693	295	RW
2R	Perennial	Open Channel	394	58	NC
2T	Intermittent	Open Channel	2,768	923	RW
2V	Perennial	Open Channel	170	45	RW

PLATE 53A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
2B	PFO	8,519	RW, CA, HL
2BB	PFO	209	RW, RC
2K	PEM	3,056	RW, RC, NC
2M	PFO	878	RW, RC
2O	PFO	3,311	RW
2P	PEM	7,065	RW, CA, NC
2Q	PSS	770	RW, NC
2RR	PSS	206	CE, NC
2S	PFO	10,236	RW, RC, HL
2SS	PFO	650	CA
2TT	PEM	1,143	CA
2U	PFO	3,359	RW

USACE IMPACT TABLES

PLATE 54A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
2D	Ephemeral	Open Channel	251	65	RW
2E	Intermittent	Open Channel	207	71	RW
2F	Intermittent	Open Channel	3,208	669	RW
2F_C	Intermittent	Culvert	411	82	EC
2JJ	Intermittent	Open Channel	181	65	RW
2MM	Perennial	Open Channel	187	30	CE
2OO	Ephemeral	Open Channel	60	24	RW
2X	Perennial	Open Channel	47	16	RW
2X_1	Perennial	Open Channel	2,589	241	RW, CA, CE, SO
2X_C	Perennial	Culvert	1,280	277	EC

PLATE 54A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
2G	PFO	1,507	RW
2II	PFO	826	RW, NC
2LL	PFO	387	SO
2NN	PFO	1,879	RW, CA
2XX	PFO	677	SO

USACE IMPACT TABLES

PLATE 55A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
1A	Intermittent	Open Channel	23	4	CA
1A_C	Intermittent	Culvert	6,882	954	EC
1O	Ephemeral	Open Channel	1,248	230	RW, CA
1P	Intermittent	Open Channel	564	175	RW, NC, CE
1Q	Perennial	Open Channel	1,383	89	RW, CE
1Q_1	Perennial	Open Channel	4,718	344	RW, CA, NC, NB
1Q_C	Perennial	Culvert	4,036	356	EC
1R	Perennial	Ditch	3,302	511	RW, CA
1R_1	Perennial	Ditch	4,236	916	RW, CA, CE
1R_C	Perennial	Culvert	894	121	EC
1U	Ephemeral	Open Channel	1,438	354	RW
1U_C	Ephemeral	Culvert	773	189	EC
2A	Ephemeral	Open Channel	545	144	RW
2Y	Perennial	Open Channel	1,029	293	RW, CA, CE, NC
2Y_1	Perennial	Open Channel	4,817	482	RW, CA, NB, CE, NC
2Y_C	Perennial	Culvert	2,250	394	EC
2YY	Intermittent	Open Channel	277	75	CA
2Z	Intermittent	Open Channel	39	13	RW

PLATE 55A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
1BB	PEM	83	CA
1QQ	PFO	2,136	CA, RC
1T	PSS	2,319	RW, CA
2C	PFO	17,665	RW, NC, NB, CE, CA

USACE IMPACT TABLES

PLATE 56A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
2UU	Intermittent	Open Channel	70	18	NC
2VV	Intermittent	Open Channel	216	42	CE
2ZZ	Ephemeral	Open Channel	341	56	CE, RW

PLATE 56A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
2WW	PFO	4,490	RW, NC

PLATE 57A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
1AAA	Intermittent	Open Channel	42	9	RW
1RR	Intermittent	Open Channel	582	51	RW, RC
1SS	Ephemeral	Open Channel	632	252	RW, CA
1SS_C	Ephemeral	Culvert	117	50	EC
1TT	Intermittent	Open Channel	588	78	RW, CA
1VV	Perennial	Open Channel	2,338	44	RW, CA
1VV_1	Perennial	Open Channel	2,212	44	RW, CA
1VV_C	Perennial	Culvert	13,585	297	EC
1XX	Ephemeral	Open Channel	333	119	RW, CA
1XX_1	Intermittent	Open Channel	460	123	RW
1YY	Intermittent	Open Channel	1,370	372	RW, CA

PLATE 57A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
1C	PFO	9,997	RW, CA
1DDD	PEM	12	CA
1UU	PFO	289	CA
1WW	PEM	1,022	CA

USACE IMPACT TABLES

PLATE 58A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
1D_1	Perennial	Open Channel	1,737	122	RW, CA, NC
1D_2	Perennial	Open Channel	1,847	102	RW, NC
1D_C1	Perennial	Culvert	2,691	253	EC
1G	Ephemeral	Open Channel	31	20	CA
1H	Intermittent	Open Channel	254	27	RW, CA, NC
1H_C	Intermittent	Culvert	1,247	221	EC
1H_D	Intermittent	Ditch	3,323	638	RW, NC

PLATE 58A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
1E	PFO	2,782	RW, NC, CA
1F	PFO	593	RW
1I	PFO	779	CA, HL

USACE IMPACT TABLES

PLATE 59A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,132	1,130	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC

PLATE 59A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	RW
23L	PEM	253	RW
23W	PEM	2,248	RW, CA

USACE IMPACT TABLES

PLATE 59B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,253	1,220	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC

PLATE 59B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	RW
23L	PEM	253	RW
23W	PEM	3,549	RW, CA

USACE IMPACT TABLES

PLATE 59C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,132	1,130	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC

PLATE 59C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	RW
23L	PEM	253	RW
23W	PEM	2,248	RW, CA

USACE IMPACT TABLES

PLATE 59D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,253	1,220	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC

PLATE 59D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	RW
23L	PEM	253	RW
23W	PEM	3,549	RW, CA

USACE IMPACT TABLES

PLATE 60A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1,190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	427	64	RW, RC
23T	Ephemeral	Open Channel	244	25	RW

PLATE 60B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1,190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	297	51	RW, RC
23T	Ephemeral	Open Channel	244	25	RW

PLATE 60C – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1,190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	518	74	RW, RC
23T	Ephemeral	Open Channel	244	25	RW

USACE IMPACT TABLES

PLATE 60D – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1,190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	427	64	RW, RC
23T	Ephemeral	Open Channel	244	25	RW

PLATE 61A - WATERWAY IMPACTS (ALTERNATIVES 8 AND 9)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	3,289	260	RW, CE, NC
23Q_1	Perennial	Open Channel	947	93	RW, SO, CE
23Q_2	Perennial	Open Channel	1,181	82	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	802	94	RW

PLATE 61B - WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	2,797	239	RW, CE, NC
23Q_1	Perennial	Open Channel	815	88	RW, SO, CE
23Q_2	Perennial	Open Channel	992	69	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	619	69	CE, RW

USACE IMPACT TABLES

PLATE 61C - WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	6,398	436	CA, RW, CE, NC
23Q_1	Perennial	Open Channel	1,434	116	RW, SO, CE
23Q_2	Perennial	Open Channel	1,603	116	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	1,133	132	CA, RW

PLATE 61D - WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	3,289	260	RW, CE, NC
23Q_1	Perennial	Open Channel	947	93	RW, SO, CE
23Q_2	Perennial	Open Channel	992	69	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	802	94	RW

PLATE 61E - WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	3,996	286	CA, RW, CE, NC
23Q_1	Perennial	Open Channel	947	93	RW, SO, CE
23Q_2	Perennial	Open Channel	1,181	82	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	1,235	144	CA, RW

USACE IMPACT TABLES

PLATE 62A – WATERWAY IMPACTS (ALTERNATIVES 8 AND 9)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23M	Ephemeral	Open Channel	50	4	RW
23N	Intermittent	Open Channel	2,263	227	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA

PLATE 62A – WETLAND IMPACTS (ALTERNATIVES 8 AND 9)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,127	RW, CA

PLATE 62B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23M	Ephemeral	Open Channel	50	4	RW
23N	Intermittent	Open Channel	1,919	188	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA

PLATE 62B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,127	RW, CA

USACE IMPACT TABLES

PLATE 62C – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23M	Ephemeral	Open Channel	222	19	RW
23N	Intermittent	Open Channel	3,082	301	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA
23E	Intermittent	Open Channel	171	8	CA

PLATE 62C – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,985	RW, CA

PLATE 62D – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23M	Ephemeral	Open Channel	50	4	RW
23N	Intermittent	Open Channel	1,919	188	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA

PLATE 62D – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23CC	PFO	1,177	RW, CA

USACE IMPACT TABLES

PLATE 62E – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23M	Ephemeral	Open Channel	222	19	RW
23N	Intermittent	Open Channel	2,263	227	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA

PLATE 62E – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,127	RW, CA

PLATE 63A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	481	71	RW
23K_1	Perennial	Open Channel	79	18	CA
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	441	53	EC
23K_D	Perennial	Ditch	4,585	608	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23GG	PFO	1,211	CA
23X	PEM	1,039	RW

USACE IMPACT TABLES

PLATE 63B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	1,297	171	CA, RC, RW
23K_1	Perennial	Open Channel	1,445	246	CA, RW
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	627	83	EC
23K_D	Perennial	Ditch	5,085	699	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23GG	PFO	1,211	CA
23X	PEM	1,039	RW
23F	PEM	2,674	CA, RW

USACE IMPACT TABLES

PLATE 63C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	481	71	RW
23K_1	Perennial	Open Channel	7	3	CA
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	379	53	EC
23K_D	Perennial	Ditch	4,585	608	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23GG	PFO	1,211	CA
23X	PEM	1,039	RW

USACE IMPACT TABLES

PLATE 63D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	1,297	171	CA, RC, RW
23K_1	Perennial	Open Channel	1,445	246	CA, RW
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	627	83	EC
23K_D	Perennial	Ditch	4,585	608	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
23GG	PFO	1,211	CA
23X	PEM	1,039	RW
23F	PEM	2,674	CA, RW

USACE IMPACT TABLES

PLATE 64A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO

PLATE 64A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24N	PFO	70	SO

PLATE 64B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO
24C	Intermittent	Open Channel	47	3	RW

PLATE 64B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24N	PFO	70	SO

PLATE 64C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO

PLATE 64C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24N	PFO	70	SO

USACE IMPACT TABLES

PLATE 64D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO

PLATE 64D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24N	PFO	70	SO

PLATE 65A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
24S	Ephemeral	Open Channel	117	13	CA
25A_1	Perennial	Ditch	168	70	CA

PLATE 65A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24R	PFO	27	CA

USACE IMPACT TABLES

PLATE 65B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
24S	Ephemeral	Open Channel	117	13	CA
25A_1	Perennial	Ditch	168	70	CA

PLATE 65B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24R	PFO	27	CA

PLATE 65C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
24S	Ephemeral	Open Channel	117	13	CA
25A_1	Perennial	Ditch	168	70	CA

PLATE 65C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24R	PFO	27	CA

USACE IMPACT TABLES

PLATE 65D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
24S	Ephemeral	Open Channel	117	13	CA
25A_1	Perennial	Ditch	168	70	CA

PLATE 65D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
24R	PFO	27	CA

PLATE 66A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25F	Ephemeral	Open Channel	1,813	233	RW, CA
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

PLATE 66B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25F	Ephemeral	Open Channel	1,813	233	RW, CA
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

PLATE 66C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25F	Ephemeral	Open Channel	1,813	233	RW, CA
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

USACE IMPACT TABLES

PLATE 66D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25F	Ephemeral	Open Channel	1,813	233	RW, CA
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

PLATE 67A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	101	17	NC
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,680	420	EC

PLATE 67A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
25K	PEM	1,325	RW, SO, NC

PLATE 67B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	484	53	NC, RW
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,682	420	EC
25H_1	Perennial	Open Channel	82	20	NC

PLATE 67B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
25K	PEM	3,215	RW, SO, NC

USACE IMPACT TABLES

PLATE 67C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	58	14	NC
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,669	418	EC

PLATE 67C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
25K	PEM	1,164	RW, SO, NC

PLATE 67D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	321	40	NC, RW
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,682	420	EC
25H_1	Perennial	Open Channel	58	16	NC

PLATE 67D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
25K	PEM	2,583	RW, SO, NC

USACE IMPACT TABLES

PLATE 68A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	539	38	RW, NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G	Ephemeral	Open Channel	995	141	RW
26G_1	Intermittent	Open Channel	2,883	421	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	NC
26D	PEM	817	NC
26E	PEM	1,407	HL, NC
26F	PEM	7,213	NC
26H	PEM	9	CA

USACE IMPACT TABLES

PLATE 68B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	539	38	RW, NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G	Ephemeral	Open Channel	995	141	RW
26G_1	Intermittent	Open Channel	3,196	450	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	CA, NC
26D	PEM	817	NC
26E	PEM	1,407	HL, NC
26F	PEM	7,213	NC
26H	PEM	9	CA

USACE IMPACT TABLES

PLATE 68C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	489	38	NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G	Ephemeral	Open Channel	995	141	RW
26G_1	Intermittent	Open Channel	2,735	409	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	NC
26D	PEM	817	NC
26E	PEM	1,407	NC, HL
26F	PEM	7,213	NC
26H	PEM	9	CA

USACE IMPACT TABLES

PLATE 68D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	539	38	RW, NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G	Ephemeral	Open Channel	995	141	RW
26G_1	Intermittent	Open Channel	2,910	423	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	CA, NC
26D	PEM	817	NC
26E	PEM	1,407	HL, NC
26F	PEM	7,213	NC
26H	PEM	9	CA

USACE IMPACT TABLES

PLATE 69A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	1,699	42	RW, NC
27A_1	Perennial	Open Channel	2,308	110	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	116	16	NC
27D	Intermittent	Open Channel	96	15	RW
27K	Ephemeral	Open Channel	210	42	NC

PLATE 69A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
27F	PFO	277	RW
27G	PSS	2	CA

USACE IMPACT TABLES

PLATE 69B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	2,245	61	RW, NC
27A_1	Perennial	Open Channel	2,359	112	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	232	25	NC
27D	Intermittent	Open Channel	873	99	CA, RW
27K	Ephemeral	Open Channel	210	42	NC
27C	Ephemeral	Open Channel	91	17	RC, RW

PLATE 69B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
27F	PFO	1,288	RC, RW
27G	PSS	2	CA

PLATE 69C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	1,699	42	RW, NC
27A_1	Perennial	Open Channel	2,308	110	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	116	16	NC
27D	Intermittent	Open Channel	69	11	RW
27K	Ephemeral	Open Channel	210	42	NC

USACE IMPACT TABLES

PLATE 69C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
27F	PFO	200	RW
27G	PSS	2	CA

PLATE 69D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	2,151	59	RW, NC
27A_1	Perennial	Open Channel	2,359	112	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	214	23	NC
27D	Intermittent	Open Channel	847	97	CA, RW
27K	Ephemeral	Open Channel	210	42	NC
27C	Ephemeral	Open Channel	74	14	RC, RW

PLATE 69D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	IMPACT TYPE
27F	PFO	1,128	RC, RW
27G	PSS	2	CA

PLATE 70A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

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

PLATE 70A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

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

USACE IMPACT TABLES

PLATE 70B – WATERWAY IMPACTS (ALTERNATIVE 10)

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

PLATE 70B – WETLAND IMPACTS (ALTERNATIVE 10)

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

PLATE 70C – WATERWAY IMPACTS (ALTERNATIVE 13B)

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

PLATE 70C – WETLAND IMPACTS (ALTERNATIVE 13B)

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

PLATE 70D – WATERWAY IMPACTS (ALTERNATIVE 13C)

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

PLATE 70D – WETLAND IMPACTS (ALTERNATIVE 13C)

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

USACE IMPACT TABLES

PLATE 71A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, AND 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
29A_1	Perennial	Open Channel	198	19	NC
29A_2	Perennial	Open Channel	1,456	51	NC
29A_C2	Perennial	Culvert	10,415	464	EC
29B	Perennial	Open Channel	1,135	40	NC
29B_1	Perennial	Open Channel	1,716	70	NC
29B_C	Perennial	Culvert	8,118	443	EC
29K	Intermittent	Open Channel	99	19	NC

PLATE 71B – WATERWAY IMPACTS (ALTERNATIVES 10 AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
29A_1	Perennial	Open Channel	198	19	NC
29A_2	Perennial	Open Channel	1,456	51	NC
29A_C2	Perennial	Culvert	10,415	464	EC
29B	Perennial	Open Channel	1,135	40	NC
29B_1	Perennial	Open Channel	1,716	70	NC
29B_C	Perennial	Culvert	8,118	443	EC
29K	Intermittent	Open Channel	99	19	NC

USACE IMPACT TABLES

PROJECT-WIDE POW IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	IMPACT PLATE NUMBER	IMPACT (SF)	IMPACT TYPE CODE
12DD	22	12,396	RW, CA
12FFFF	23	3,185	RW, CA
6DDD	41	29,847	RW, CA
8D	36	18,706	RW, CA