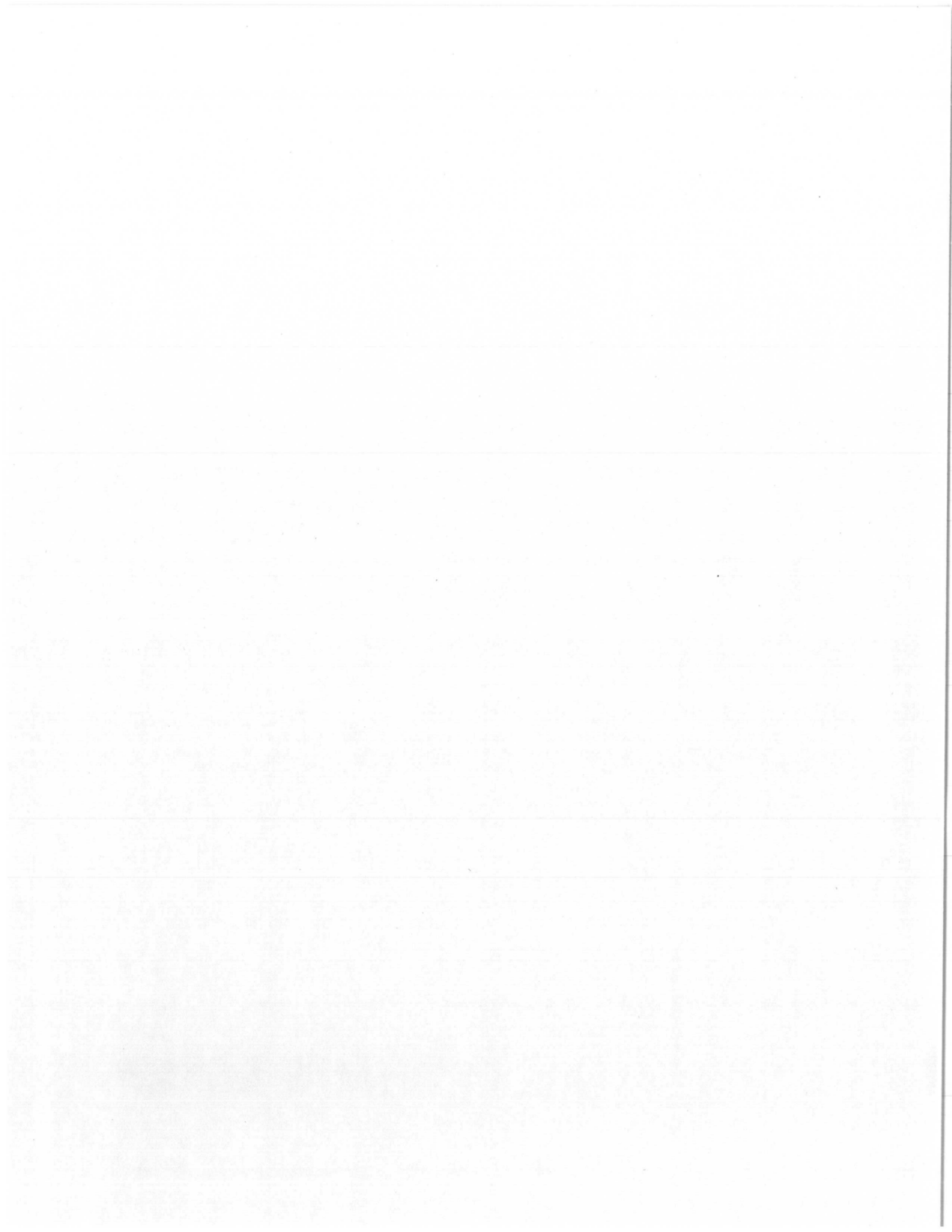




Appendix B: Wetland Impact Database Summary



Appendix Table 1. Summary of Wetland Impacts by Cover Type - Preferred Alternative

Impact Number	Wetland Area System Number	Wetland System Name	Palustrine Forested (PFO) ¹ (ft ²)	Palustrine Emergent (PEM) ² (ft ²)	Palustrine Scrub Shrub (PSS) ³ (ft ²)	Open Water (POW) ⁴ (ft ²)	Total Wetland Impact Area (ft ²)	Total Wetland Impact Area (acres)	Perennial Bank (linear feet)	Channel (Intermittent Bank) Impact (linear feet)
1	2	Harris Brook Tributary	67,662				67,662	1.55		2,000
2	1	Policy Brook /Spicket River	6,783				6,783	0.16		
3	2	Harris Brook Tributary	38,107				38,107	0.87		800
4	1	Policy Brook /Spicket River	14,792				14,792	0.34		
5	2	Harris Brook Tributary		25,510			25,510	0.59		
6	1	Policy Brook /Spicket River	3,900				3,900	0.09	345	
7	1	Policy Brook /Spicket River	3,263				3,263	0.07	404	
8	1	Policy Brook /Spicket River		2,600			2,600	0.06		
9	1	Policy Brook /Spicket River	1,460				1,460	0.03		
10	1	Policy Brook /Spicket River				1,949	1,949	0.04		
11	2	Harris Brook Tributary		3,073			3,073	0.07		
12	3	Porcupine Brook Tributary	64,576	10,310		2,261	77,147	1.77	235	
14	3	Porcupine Brook Tributary	3,661	9,718			13,379	0.31		
15	3	Porcupine Brook Tributary	1,137	12,204		6,031	19,372	0.44	67	
16	3	Porcupine Brook Tributary		958			958	0.02		
17	3	Porcupine Brook Tributary	7,790	150,720		69,298	227,808	5.23	610	306
18	3	Porcupine Brook Tributary	592				592	0.01		
19	3	Porcupine Brook Tributary	1,821				1,821	0.04		
20	3	Porcupine Brook Tributary		96			96	0.00		
21	3	Porcupine Brook Tributary	1,150				1,150	0.03		
22	3	Porcupine Brook Tributary	3,090	2,085			5,175	0.12	210	
23	3	Porcupine Brook Tributary		3,592			3,592	0.08		
24	3	Porcupine Brook Tributary				1,420	1,420	0.03		
25	3	Porcupine Brook Tributary	716				716	0.02		
26	3	Porcupine Brook Tributary	35,213				35,213	0.81		
27	3	Porcupine Brook Tributary	327				327	0.01		
28	3	Porcupine Brook Tributary	5,763				5,763	0.13		
29	4	Porcupine Brook	152				152	0.00		
30	4	Porcupine Brook	4,024				4,024	0.09	220	
31	4	Porcupine Brook	1,344				1,344	0.03		
32	4	Porcupine Brook	4,849		750		5,599	0.13		
33	4	Porcupine Brook	1,643				1,643	0.04		
34	4	Porcupine Brook	51,222	161			51,383	1.18		
35	4	Porcupine Brook	4,264				4,264	0.10		
36	4	Porcupine Brook	30,660				30,660	0.70		
37	4	Porcupine Brook	1,064				1,064	0.02		45
38	4	Porcupine Brook	2,098				2,098	0.05		
39	5	Exit 2	16,893				16,893	0.39		
40	5	Exit 2	2,159			922	3,081	0.07		
41	5	Exit 2	7,826			4,397	12,223	0.28		
42	5	Exit 2	49,854	17,563	7,291		74,708	1.72		270
43	6	Policy Brook	6,791	750			7,541	0.17		
44	6	Policy Brook	3,983				3,983	0.09		
45	6	Policy Brook		298			298	0.01		
46	6	Policy Brook		6,150			6,150	0.14		
47	6	Policy Brook	4,836				4,836	0.11		
48	5	Exit 2	12,022	13,158			25,180	0.58		115
49	5	Exit 2	2,622	114			2,736	0.06		
51	6	Policy Brook	56,450				56,450	1.30		
52	6	Policy Brook	13,576				13,576	0.31		
54	6	Policy Brook	7,140	868			8,008	0.18		60
55	6	Policy Brook	6,618	1,574			8,192	0.19		
57	6	Policy Brook	37,571	151			37,722	0.87		60
58	7	Porcupine Brook Tributary	5,159				5,159	0.12		
59	7	Porcupine Brook Tributary	3,668				3,668	0.08		
60	7	Porcupine Brook Tributary		7,105			7,105	0.16		
61	7	Porcupine Brook Tributary	13,682	1,091			14,773	0.34		
62	8	Canobie Lake South Tributary	19,482				19,482	0.45		
63	8	Canobie Lake South Tributary	12,295				12,295	0.28		
64	8	Canobie Lake South Tributary	13,998				13,998	0.32		
65	8	Canobie Lake South Tributary	11,723	4,958	5,646		22,327	0.51		
66	9	North Tributary to Policy Brook	3,800				3,800	0.09		
67	9	North Tributary to Policy Brook	6,898				6,898	0.16		
68	9	North Tributary to Policy Brook	0				0	0.00		
69	10	Canobie Lake West Tributary		86,800	18,403		105,203	2.42		
71	11	NH 111A	20,793				20,793	0.48		
71a	11	NH 111A	2,632				2,632	0.06		
72	11	NH 111A	10,535				10,535	0.24		
73	11	NH 111A	5,082				5,082	0.12		
74	11	NH 111A	23,389				23,389	0.54		
74a	11	NH111A	19,969				19,969	0.46		
75	11	NH 111A	0			0	0	0.00		
76	11	NH 111A	0				0	0.00		
77	11	NH 111A	5,950				5,950	0.14		
79	12	Exit 3	361				361	0.01		
81	12	Exit 3	2,953				2,953	0.07		
82	12	Exit 3	1,826				1,826	0.04		
83	12	Exit 3				0	0	0.00		

Notes
 1 - PFO includes areas of PFO1A, PFO1E, and PFO4.
 2 - PEM includes areas of PEM1C, PEM1E, PEM1F, PEM1G, and PEM1H.
 3 - PSS includes areas of PSS1E, and PSS1C.
 4 - POW includes areas of Palustrine and Riverine

Impact Number	Wetland Area System Number	Wetland System Name	Palustrine Forested (PFO) ¹ (ft ²)	Palustrine Emergent (PEM) ² (ft ²)	Palustrine Scrub Shrub (PSS) ³ (ft ²)	Open Water (POW) ⁴ (ft ²)	Total Wetland Impact Area (ft ²)	Total Wetland Impact Area (acres)	Perennial Bank Impact (linear feet)	Channel (Intermittent Bank) Impact (linear feet)
84	12	Exit 3	831				831	0.02		20
85	12	Exit 3	2,918				2,918	0.07		160
86	12	Exit 3		22,936			22,936	0.53	510	
87	12	Exit 3	9,709	27,801	18,411		55,921	1.28		
88	12	Exit 3	25,680	14,647	20,633		60,960	1.40		
89	12	Exit 3	8,252		11,209		19,461	0.45		
90	12	Exit 3	0		0		0	0.00		
91	12	Exit 3		408			408	0.01		
92	12	Exit 3	4,084				4,084	0.09		165
93	13	NH 111	13,679				13,679	0.31		309
94	13	NH 111	11,111				11,111	0.26		300
94a	13	NH 111	1,274				1,274	0.03		57
94b	13	NH 111	1,203				1,203	0.03		83
95	13	NH 111	3,994				3,994	0.09		
95a	13	NH 111	222				222	0.01		
96	13	NH 111	14,410				14,410	0.33		285
97	13	NH 111	5,350				5,350	0.12		
98	13	NH 111	10,034				10,034	0.23		
99	13	NH 111	11,147				11,147	0.26		
100	13	NH 111	498				498	0.01		
101	13	NH 111	7,869				7,869	0.18		
102	13	NH 111	7,123				7,123	0.16		
103	13	NH 111		13,534			13,534	0.31		
104	13	NH 111	6,272				6,272	0.14		
105	13	NH 111	5,910				5,910	0.14		
106	13	NH 111	972				972	0.02		
107	14	Weigh Stations South	18,824				18,824	0.43		
108	14	Weigh Stations South	1,208				1,208	0.03		
109	14	Weigh Stations South	15,492				15,492	0.36		
111	14	Weigh Stations South	24,216				24,216	0.56		
112	14	Weigh Stations South	0			0	0	0.00		
113	15	Weigh Stations North		1,869			1,869	0.04		
114	15	Weigh Stations North	21,227	2,685			23,912	0.55		
114a	15	Weigh Stations North	1,264				1,264	0.03		
115	15	Weigh Stations North	0				0	0.00		
116	15	Weigh Stations North	0	0			0	0.00		
117	15	Weigh Stations North	0				0	0.00		
118	15	Weigh Stations North	4,476				4,476	0.10		
119	15	Weigh Stations North	38,743				38,743	0.89		
119a	15	Weigh Stations North	5,305				5,305	0.12		
121	15	Weigh Stations North	0				0	0.00		
122	15	Weigh Stations North		3,478			3,478	0.08		
123	15	Weigh Stations North		1,395			1,395	0.03		
124	16	Bridge Street Pond			339		339	0.01		
125	16	Bridge Street Pond	0				0	0.00		
126	16	Bridge Street Pond	0	0			0	0.00		
127	16	Bridge Street Pond	0				0	0.00		
128	16	Bridge Street Pond	0				0	0.00		325
129	17	Windham North	232				232	0.01		
130	17	Windham North	2,820				2,820	0.06		
131	17	Windham North	602				602	0.01		
132	17	Windham North	12,090				12,090	0.28		
133	17	Windham North		0			0	0.00		
134	17	Windham North				0	0	0.00		
135	17	Windham North	0				0	0.00		
136	17	Windham North	3,426				3,426	0.08		
137	17	Windham North	935				935	0.02		
138	18	Derry South	14,560	5,789			20,349	0.47		
139	18	Derry South	6,771	15,145			21,916	0.50		
140	18	Derry South	7,499	3,036			10,535	0.24		
141	18	Derry South	719				719	0.02		
142	18	Derry South	779				779	0.02		
143	18	Derry South	10,811				10,811	0.25		
144	18	Derry South		6,870			6,870	0.16		
145	18	Derry South	2,389				2,389	0.05		
146	18	Derry South	6,819		5,415		12,234	0.28		
147	18	Derry South	1,778				1,778	0.04		
148	19	Derry Central/North	5,384	25,729			31,113	0.71		
149	19	Derry Central/North	25,253	19,547			44,800	1.03		
150	19	Derry Central/North	334				334	0.01		
151	19	Derry Central/North		850			850	0.02		
152	19	Derry Central/North	21,578				21,578	0.50		500
153	19	Derry Central/North	4,225				4,225	0.10		
154	19	Derry Central/North				1,145	1,145	0.03		
155	19	Derry Central/North	9,240	5,501			14,741	0.34		
156a	20	Beaver Brook			1,842		1,842	0.04	43	
157	20	Beaver Brook	10,313	12,373			22,686	0.52		
157a	20	Beaver Brook		76			76	0.00	19	
158	20	Beaver Brook	32,232	6,200			38,432	0.88		
159	20	Beaver Brook	11,222	18,199			29,421	0.68		
160	20	Beaver Brook	1,383				1,383	0.03		

Notes

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- 3 - PSS includes areas of PSS1E, and PSS1C.
- 4 - POW includes areas of Palustrine and Riverine

Impact Number	Wetland Area System Number	Wetland System Name	Palustrine	Palustrine	Palustrine	Open Water	Total	Total	Perennial Bank Impact (linear feet)	Channel (Intermittent Bank) Impact (linear feet)
			Forested (PFO) ¹ (ft ²)	Emergent (PEM) ² (ft ²)	Scrub Shrub (PSS) ³ (ft ²)	(POW) ⁴ (ft ²)	Wetland Impact Area (ft ²)	Wetland Impact Area (acres)		
161	20	Beaver Brook	11,098	4,082			15,180	0.35		
161a	20	Beaver Brook	3,205	33			3,238	0.07		
162	20	Beaver Brook	3,658	1,866			5,524	0.13		
162a	20	Beaver Brook	6,297	579			6,876	0.16		
163	20	Beaver Brook	40,264	23,278			63,542	1.46		
163a	20	Beaver Brook	8,907				8,907	0.20		
164	21	Wheeler Pond and Tributary		839			839	0.02		
165	21	Wheeler Pond and Tributary		9,619	1,718		11,337	0.26		
166	21	Wheeler Pond and Tributary	22,754				22,754	0.52		
167	21	Wheeler Pond and Tributary	10,018	5,628		7,158	22,804	0.52		
168	21	Wheeler Pond and Tributary	34,993	14,393	9,828		59,214	1.36		1150
169	21	Wheeler Pond and Tributary	4,251				4,251	0.10		
170	22	Pillsbury Road to PSNH Easement	8,426				8,426	0.19		
171	22	Pillsbury Road to PSNH Easement	5,091				5,091	0.12		
172	22	Pillsbury Road to PSNH Easement		3,649			3,649	0.08		
173	22	Pillsbury Road to PSNH Easement			14,066		14,066	0.32		
174	22	Pillsbury Road to PSNH Easement	21,294	74,663			95,957	2.20	2400	
175	22	Pillsbury Road to PSNH Easement	7,036		1,328		8,364	0.19		
176	22	Pillsbury Road to PSNH Easement	9,641			5,859	15,500	0.36		
177	22	Pillsbury Road to PSNH Easement			6,769		6,769	0.16		
178	22	Pillsbury Road to PSNH Easement		8,739		7,433	16,172	0.37		
179	22	Pillsbury Road to PSNH Easement	5,556	2,021			7,577	0.17		
180	22	Pillsbury Road to PSNH Easement	11,994			3,365	15,359	0.35		
181	22	Pillsbury Road to PSNH Easement	2,517				2,517	0.06		
182	22	Pillsbury Road to PSNH Easement	2,801				2,801	0.06		
183	22	Pillsbury Road to PSNH Easement		3,481			3,481	0.08		
184	22	Pillsbury Road to PSNH Easement		4,609			4,609	0.11		35
185	22	Pillsbury Road to PSNH Easement		1,934			1,934	0.04		
186	22	Pillsbury Road to PSNH Easement		5,784			5,784	0.13		
187	22	Pillsbury Road to PSNH Easement	2,956	6,249			9,205	0.21		
188	22	Pillsbury Road to PSNH Easement	10,720				10,720	0.25		
189	22	Pillsbury Road to PSNH Easement	54,860	40,507	12,141		107,508	2.47		
190	22	Pillsbury Road to PSNH Easement	2,962	2,632			5,594	0.13		
191	22	Pillsbury Road to PSNH Easement	14,325				14,325	0.33		
192	23	Stonehenge Road	5,535				5,535	0.13		
193	23	Stonehenge Road			1,168		1,168	0.03		
194	23	Stonehenge Road	6,067				6,067	0.14		
195	23	Stonehenge Road	28,792				28,792	0.66		
196	23	Stonehenge Road	3,582				3,582	0.08		
197	23	Stonehenge Road	1,963				1,963	0.05		
198	23	Stonehenge Road	1,530				1,530	0.04		350
199	23	Stonehenge Road		2,302			2,302	0.05		
200	23	Stonehenge Road	1,171				1,171	0.03		
201	23	Stonehenge Road	7,089	10,073			17,162	0.39		
202	23	Stonehenge Road			3,411		3,411	0.08		
203	23	Stonehenge Road	5,577				5,577	0.13		
204	24	Londonderry Central	13,115				13,115	0.30		
205	24	Londonderry Central			6,050		6,050	0.14		
206	24	Londonderry Central	21,746	7,326			29,072	0.67		
207	24	Londonderry Central		2,706			2,706	0.06		
208	24	Londonderry Central		2,208			2,208	0.05		
209	24	Londonderry Central	11,341				11,341	0.26		
210	25	Exit 5		8,301			8,301	0.19		
211	25	Exit 5		3,267			3,267	0.07		
212	25	Exit 5			9,968		9,968	0.23		
213	25	Exit 5	40,300	3,395	5,411		49,106	1.13		
214	25	Exit 5	40,639	6,894			47,533	1.09		
215	25	Exit 5	11,928	3,588			15,516	0.36	335	
216	25	Exit 5		21,123	15,332		36,455	0.84	925	
217	25	Exit 5	50,066	36,254			86,320	1.98		
218	25	Exit 5	4,432				4,432	0.10		130
219	25	Exit 5	5,915	28,306			34,221	0.79		
220	25	Exit 5	11,059	3,128	3,041		17,228	0.40		
221	25	Exit 5		16,133			16,133	0.37		
223	25	Exit 5	921	7,758			8,679	0.20		
224	25	Exit 5	3,979				3,979	0.09		
227	26	Cohas Brook	8,237				8,237	0.19		
232	26	Cohas Brook		22,296			22,296	0.51		
233	26	Cohas Brook	5,453	1,041			6,494	0.15		
234	26	Cohas Brook	1,544		2,592		4,136	0.09		
235	26	Cohas Brook	29,483				29,483	0.68		
236	26	Cohas Brook	22,960				22,960	0.53		
237	26	Cohas Brook	427				427	0.01		
238	26	Cohas Brook		2,163			2,163	0.05		
239	26	Cohas Brook		3,824			3,824	0.09		
240	26	Cohas Brook		1,477			1,477	0.03		
241	26	Cohas Brook		7,735			7,735	0.18		
242	26	Cohas Brook	5,631				5,631	0.13		
243	26	Cohas Brook	2,629				2,629	0.06		
244	26	Cohas Brook	2,457				2,457	0.06		
245	26	Cohas Brook	733				733	0.02		

Notes

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- 2 - PEM includes areas of PEM1C, PEM1E, PEM1F, PEM1G, and PEM1H.
- 3 - PSS includes areas of PSS1E, and PSS1C.
- 4 - POW includes areas of Palustrine and Riverine

Impact Number	Wetland Area System Number	Wetland System Name	Palustrine Forested (PFO) ¹ (ft ²)	Palustrine Emergent (PEM) ² (ft ²)	Palustrine Scrub Shrub (PSS) ³ (ft ²)	Open Water (POW) ⁴ (ft ²)	Total Wetland Impact Area (ft ²)	Total Wetland Impact Area (acres)	Perennial Bank Impact (linear feet)	Channel (Intermittent Bank) Impact (linear feet)
246	26	Cohas Brook	7,941				7,941	0.18		
247	26	Cohas Brook	1,443	282			1,725	0.04		
251	26	Cohas Brook	5,640				5,640	0.13		
252	26	Cohas Brook	3,241				3,241	0.07		
254	26	Cohas Brook	1,623				1,623	0.04		
255	26	Cohas Brook		772			772	0.02		
256	26	Cohas Brook	2,157				2,157	0.05		
257	26	Cohas Brook		3,323	1,260		4,583	0.11		
258	26	Cohas Brook	1,894				1,894	0.04		
259	26	Cohas Brook	861				861	0.02		
260	26	Cohas Brook	409				409	0.01		135
261	26	Cohas Brook	1,004				1,004	0.02		
262	26	Cohas Brook		2,081			2,081	0.05		
263	26	Cohas Brook	9,576	25,647	34,006		69,229	1.59	1120	
264	27	I-93/I-293 Interchange		2,311			2,311	0.05	104	
265	27	I-93/I-293 Interchange			11,036		11,036	0.25	190	
266	27	I-93/I-293 Interchange		20,203	7,864		28,067	0.64		
267	27	I-93/I-293 Interchange		16,280			16,280	0.37		1035
268	26	Cohas Brook		4,559			4,559	0.10		
269	26	Cohas Brook		4,700	1,796		6,496	0.15		
300	6	Policy Brook		11,405			11,405	0.26		
301	6	Policy Brook		400			400	0.01		
302	6	Policy Brook		140			140	0.00		
303	6	Policy Brook		39			39	0.00		
304	6	Policy Brook		420			420	0.01		
305	6	Policy Brook		737			737	0.02		
306	6	Policy Brook		7,595			7,595	0.17		
307	11	NH 111A		0			0	0.00		
308	11	NH 111A	0				0	0.00		
309	12	Exit 3	0				0	0.00		
310	25	Exit 5	0				0	0.00		
310a	25	Exit 5	0				0	0.00		
311	25	Exit 5	0				0	0.00		
313	12	Exit 3				3,079	3,079	0.07	250	
500	11	Exit 3	286				286	0.01		
501	12	Exit 3	220				220	0.01		
502	12	Exit 3	2,107				2,107	0.05		
503	12	Exit 3	1,883				1,883	0.04		
504	12	Exit 3	5,397				5,397	0.12		
505	12	Exit 3	12,311				12,311	0.28		
506	12	Exit 3		4,413			4,413	0.10		
601	25	Exit 5	11,166	6,898			18,064	0.41		
602	25	Exit 5	259	2,754			3,013	0.07		
603	25	Exit 5	4,470	33,597			38,067	0.87	130	
604	25	Exit 5	48				48	0.00		
605	25	Exit 5	368				368	0.01		
606	25	Exit 5	530				530	0.01		
607	25	Exit 5	19,780	2,754	33,597		56,131	1.29		
608	25	Exit 5					0	0.00	1,650	
Total Project Wetland Impacts			1,822,785	1,112,738	268,503	91,630	3,295,656	75.66	9,637	8,825

Breakdown of Impacts by Type (Highway & Park and Ride) Within Each Community

Community	Impact #s	Palustrine Forested (PFO)	Palustrine Emergent (PEM)	Palustrine Scrub Shrub (PSS)	Open Water (POW)	Total Wetland Impact Area (ft ²)	Total Wetland Impact Area (acres)	Perennial Bank Impact (linear feet)	Channel (Intermittent Bank) Impact (linear feet)
Salem - Highway	1 to 65	608,341	271,934	19,099	77,590	976,964	22.43	2,091	3,656
Salem - Park and Ride	300 to 306	0	20,736	0	0	20,736	0.48	0	0
Windham - Highway	66 to 137, 313, 500 to 506	429,794	179,966	68,995	3,079	681,834	15.65	760	1,704
Windham - Park and Ride	307 to 309	0	0	0	0	0	0.00	0	0
Derry - Highway	138 to 155, 156a, 157a, 161a, 162a, 163a	136,548	83,155	7,257	1,145	228,105	5.24	62	500
Londonderry - Highway	157 to 237, 601 to 605	580,553	458,836	83,593	9,816	1,132,798	26.01	3,660	1,795
Londonderry - Park and Ride	310 to 311, 606, 607	530	0	0	0	530	0.01	1,650	0
Manchester - Highway	238 to 269	47,239	95,357	55,962	0	198,558	4.56	1,414	1,170
Total Impacts Due to Highway Widening		1,802,475	1,089,248	234,906	91,630	3,218,259	73.88	7,987	8,825
Total Impacts Due to New Park and Ride Facilities		530	20,736	0	0	21,266	0.49	1,650	0
Total Project Wetland Impacts		1,803,005	1,109,984	234,906	91,630	3,239,525	74.37	9,637	8,825

Note: Wetland impacts shown here are based on preliminary design and are subject to change as final design progresses.

Notes

- 1 - PFO includes areas of PFO1A, PFO1E, and PFO4.
- 2 - PEM includes areas of PEM1C, PEM1E, PEM1F, PEM1G, and PEM1H.
- 3 - PSS includes areas of PSS1E, and PSS1C.
- 4 - POW includes areas of Palustrine and Riverine