

APPENDIX 2

TDI New England - New England Clean Power Link
 Alburgh, VT to Ludlow, VT
 Table of Proposed Stream Crossings
 Prepared by VHB
 DRAFT 4/24/2015

Mile Post	Stream ID	Stream / River Name	Right of Way	Town	Proposed Crossing Method ¹	Average OHW Width (ft)	Existing Structure Width ² (ft)	Drainage Area ³ (sq. miles)	FEMA Floodplain / Floodway	Proposed Crossing Location Relative to ROW	Approximate Elevation of Stream at Crossing (ft)	Approximate Elevation of Cable at Crossing (ft)	Width of Refined River Corridor - Down Station (ft)	Width of Refined River Corridor - Up Station (ft)
99.0	V-BE-AS-3	Unnamed Tributary to Lake Champlain	North Lake Road	Benson	At Culvert	3	2	0.12	-	Downstream	318	313	20	20
100.7	V-BE-S-8	Unnamed Tributary to Hubbardton River	Old North Lake Road	Benson	Replace Culvert	7	2	0.11	Zone A	Middle	472	467	10	10
101.2	V-BE-AS-10	Unnamed Tributary to Hubbardton River	Old North Lake Road	Benson	At Culvert	5	3	0.17	-	Middle	502	497	20	20
102.2	V-BE-S-100	Unnamed Tributary to Hubbardton River	VT Route 22A	Benson	OTE	3	2	0.15	-	Downstream	350	345	20	20
103.1	V-BE-S-102	Unnamed Tributary to Hubbardton River	VT Route 22A	Benson	Over Culvert	3	6	1.27	Zone A	Middle	238	233	20	20
104.7	V-BE-S-106	Hubbardton River	VT Route 22A	Benson	HDD	25	2 x 16.25	33.4	Zone A	Upstream	191	171	-	-
105.1	V-BE-S-109	Unnamed Tributary to Hubbardton River	VT Route 22A	Benson	OTE	4	2.5	0.05	Zone A	Downstream	240	235	20	20
106.2	V-WH-S-4	Unnamed Tributary to Poultney River	VT Route 22A	West Haven	OTE	5	2.5	0.23	-	Downstream	225	220	20	20
108.1	V-WH-S-2	Unnamed Tributary to Poultney River	VT Route 22A	West Haven	At Culvert	4.5	2	0.67	-	Downstream	352	347	20	20
108.4	V-FH-S-25	Unnamed Tributary to Poultney River	VT Route 22A	Fair Haven	HDD	5	4	0.004	-	Upstream	360	340	-	-
109.6	V-FH-S-17	Unnamed Tributary to Mud Brook	VT Route 22A	Fair Haven	At Culvert	3	4	0.41	-	Upstream	335	330	20	5
110.2	V-FH-S-13	Mud Brook	US Route 4	Fair Haven	HDD	18	7	7.63	Zone A	Upstream	332	322	-	-
111.0	V-FH-S-5	Unnamed Tributary to Mud Brook	US Route 4	Fair Haven	At Culvert	4	4	0.13	-	Downstream	379	374	20	20
111.8	V-FH-S-10	Unnamed Tributary to Castleton River	US Route 4	Fair Haven	At Culvert	2	4	0.34	-	Downstream	400	395	20	20
113.2	V-CN-S-101	Unnamed Tributary to Castleton River	US Route 4	Castleton	OTE	3.5	5	0.52	-	Upstream	420	415	20	20
115.4	V-CN-S-12	Unnamed Tributary to Castleton River	US Route 4	Castleton	HDD	16	4	0.73	Zone A	Upstream	462	437	20	20
116.5	V-CN-S-8	North Breton Brook	US Route 4	Castleton	HDD	26	-	13.6	Zone AE, Floodway	Upstream	435	420	-	-
117.7	V-CN-S-4	Unnamed Tributary to Castleton River	US Route 4	Castleton	At Culvert	5	4	0.33	-	Upstream	454	449	20	20
119.6	T-IR-S4	Unnamed Tributary to Castleton River	US Route 4	Ira	At Culvert	5	4	0.63	-	Upstream	503	498	20	20
121.1	T-WR-S34	Unnamed Tributary to Castleton River	US Route 4	West Rutland	At Culvert	3	3	0.04	-	Upstream	524	519	20	20

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121.6	T-WR-S29	Castleton River	US Route 4	West Rutland	HDD	30	-	16.6	Zone A	Upstream	482	454	-	-
123.3	T-WR-S18	Unnamed Tributary to Clarendon River	US Route 4	West Rutland	HDD	10	4	1.37	Zone AE	Upstream	534	496	-	-
123.8	T-WR-S36	Clarendon River	US Route 4	Rutland	HDD	30	-	43.9	Zone A	Upstream	494	474	-	-
126.6	T-RU-S2	Otter Creek	US Route 4	Rutland	HDD	100	-	235	Zone AE, Floodway	Upstream	510	485	-	-
128.1	T-CL-S6	Cold River	US Route 7	Clarendon	HDD	75	-	36.4	Zone A	Downstream	598	573	-	-
128.3	T-CL-S8	Unnamed Tributary to Otter Creek	US Route 7	Clarendon	HDD	3	4	0.11	-	Downstream	596	575	-	-
128.7	T-CL-S4	Unnamed Tributary to Otter Creek	US Route 7	Clarendon	OTE	15	4	0.2	-	Upstream	591	586	20	20
129.6	T-CL-S2	Unnamed Tributary to Otter Creek	US Route 7	Clarendon	HDD	10	12	4.44	Zone A	Upstream	610	600	-	-
132.7	V-SH-S-16	Unnamed Tributary to Mill River	VT Route 103	Shrewsbury	At Culvert	3	3	0.15	-	Upstream	913	908	20	20
133.4	V-SH-S-14	Unnamed Tributary to Mill River	VT Route 103	Shrewsbury	Over Culvert	25	8	1.26	-	Upstream	966	961	20	5
134.4	T-SH-S2	Unnamed Tributary to Mill River	Green Mountain Railroad	Shrewsbury	HDD	25	15	2.32	Zone AE	Upstream	961	945	-	-
135.5	T-SH-S3	Unnamed Tributary to Mill River	Green Mountain Railroad	Shrewsbury	OTE	20	14	2.45	Zone AE, Floodway	Upstream	1014	1009	50	50
136.1	T-SH-S7	Unnamed Tributary to Mill River	Green Mountain Railroad	Shrewsbury	OTE	3	3	0.08	-	Upstream	1064	1059	20	20
136.9	T-WA-S1	Freeman Brook	Green Mountain Railroad	Wallingford	HDD	30	-	11.9	Zone A	Upstream	1081	1060	-	-
137.8	V-WA-S-106	Unnamed Tributary to Mill River	VT Route 103	Wallingford	OTE	3.5	2	0.13	-	Downstream	1115	1110	20	20
137.9	V-WA-S-105	Unnamed Tributary to Mill River	VT Route 103	Wallingford	At Culvert	3	2.5	0.03	-	Upstream	1129	1124	20	20
139.3	T-MH-S37	Unnamed Tributary to Mill River	VT Route 103	Mount Holly	HDD	6	4	0.4	-	Upstream	1240	1218	-	-
140.4	T-MH-S28	Unnamed Tributary to Mill River	VT Route 103	Mount Holly	OTE	25	-	5.57	Zone A	Upstream	1360	1355	50	100
141.8	T-MH-AS-23	Unnamed Tributary to Mill River	VT Route 103	Mount Holly	At Culvert	4	5.5	0.16	-	Downstream	1433	1428	20	20
142.9	T-MH-AS-20	Unnamed Tributary to Mill River	VT Route 103	Mount Holly	At Culvert	4	5	0.64	-	Upstream	1468	1463	20	20

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143.2	T-MH-AS-45	Unnamed Tributary to Mill River	VT Route 103	Mount Holly	At Culvert	5	5	0.22	-	Upstream	1501	1496	10	10
144.8	T-MH-S14	Unnamed Tributary to Branch Brook	VT Route 103	Mount Holly	Over Culvert	12	15	2.1	-	Upstream	1394	1389	48	48
145.4	T-MH-S10	Branch Brook	VT Route 103	Mount Holly	HDD	30	-	10.8	Zone A	Middle	1338	1318	-	-
146.4	T-MH-S1	Unnamed Tributary to Branch Brook	VT Route 103	Mount Holly	At Culvert	7	6	0.12	-	Upstream	1312	1307	20	20
147.9	T-LU-S4	Coleman Brook	VT Route 103	Ludlow	HDD	15	4	1.28	Zone AE	Upstream	1045	1019	-	-
148.2	T-LU-S2	Branch Brook	VT Route 100	Ludlow	HDD	59	-	15.8	Zone AE, Floodway	Downstream	1018	998	-	-
148.5	T-LU-S5	Unnamed Tributary to Black River	VT Route 100	Ludlow	Duct Bank	3	3.5	0.5	Zone AE	Downstream	1027	1022	20	20
149.0	T-LU-S1	Black River	East Lake Road	Ludlow	Aerial	50	-	38.3	Zone AE, Floodway	Downstream	1032	1027	-	-
150.4	T-LU-S21	Unnamed Tributary to Black River	East Lake Road	Ludlow	At Culvert	2	2.7	0.07	-	Upstream	1067	1062	5	20
150.5	T-LU-S20	Unnamed Tributary to Black River	East Lake Road	Ludlow	Aerial	10	7.0	0.64	-	Upstream	1089	1084	40	40
151.5	T-LU-S15	Unnamed Tributary to Black River	Pettiner Hill Road	Ludlow	At Culvert	6	3.3	0.04	-	Downstream	1404	1399	24	24
151.6	T-LU-S12	Unnamed Tributary to Black River	Pettiner Hill Road	Ludlow	At Culvert	4	2	0.02	-	Downstream	1458	1453	20	20

1. Crossing Methods per EPSC plans 03/06/2015. Aerial - Hang from Existing Structure; At Culvert - Segment of existing culvert to be cut and replaced following installation of cable; HDD - Horizontal Directional Drill; OTE - Open Trench Excavation; Over Culvert - Existing culvert to remain undisturbed and cable installed in embankment above culvert; Replace Culvert - Existing culvert to be replaced with a new structure.

2. Existing Structure Width is taken from the VTrans Bridge and Culvert Inventory (when available), from field delineations, or other sources. Structures missing dimensions are represented as (-).

3. Watershed size was determined from Vermont ANR River Management Program mapping and US Geological Survey StreamStats website. Drainage Areas updated with delineations by VHB on 4/10/2015 for 21 watersheds previously identified as being <0.5 sq miles.