

MEMORANDUM

TO: Theresa Perron, Town Administrator, Glover, VT

FROM: Deanna Lambert; Jess Manning, EIT; Sydney Wickman, EIT; and Andrew Walker, PH, CFM (Weston & Sampson)

DATE: April 17, 2026

SUBJECT: Hydrologic and Hydraulic Assessment for Shadow Lake Dam Alternatives

This memorandum documents the hydrologic and hydraulic (H&H) modeling completed to support a study of dam rehabilitation alternatives for Shadow Lake Dam (Vermont Department of Environmental Conservation ID No. 81.02) in Glover, VT (the Town).

Shadow Lake Dam is an approximately 130-foot long, 12-foot-tall earthen embankment, and is classified as a significant hazard potential dam. The existing conditions of the dam include a primary and auxiliary spillway. The primary spillway is a concrete weir with timber stoplog provisions discharging through an approximately 36-inch reinforced concrete pipe. The auxiliary spillway is a concrete weir with a timber pedestrian bridge spanning the top.

DuBois & King, Inc. (D&K) performed a hydrologic and hydraulic assessment of Shadow Lake Dam, its impoundment, and upgradient watershed in 2023, using the US Army Corps of Engineers (USACE) HEC-HMS (v.4.9) modeling software. D&K used the model to evaluate the hydraulic capacity of the dam under existing conditions and to evaluate discharge hydrographs associated with existing and proposed rehabilitation alternatives. D&K then developed a hydraulic model, using the USACE's HEC-RAS 2D (v6.1) flood modeling software, of the downstream floodway to produce inundation maps and evaluate differences in downstream risk associated with those rehabilitation alternatives. However, as documented in January 2023 Hydrologic and Hydraulic Assessment of Shadow Lake Dam report, each of those alternatives increased downstream hazards. While the Vermont Department of Environmental Conservation (VTDEC) approved the use of both the HEC-HMS and HEC-RAS models for evaluation of rehabilitation alternatives, VTDEC feedback indicated that none of the alternatives would be permissible.

Weston & Sampson was contracted by the Town in 2024 to identify additional rehabilitation design alternatives that may be permissible and evaluate their associated downstream hazards in comparison to existing conditions. Weston & Sampson reviewed and revised both the HEC-HMS and HEC-RAS models in support of the current project; conceptualized several alternatives; and through collaboration

with the Town, VTDEC, and stakeholders, identified three alternatives for downstream hazard evaluations and to assess whether they would be permissible with respect to downstream hazards. This technical memorandum summarizes those model updates and subsequent evaluations.

Shadow Lake Dam Alternatives

Weston & Sampson presented the updated HEC-HMS model with the new potential dam alternatives to the Town in a public meeting on June 26, 2025. As a result, three dam alternatives, “Alternative 3B,” “Alternative 3,” and “Alternative 2A” were selected as potential options to be evaluated further. Alternative 3B includes upsizing the primary spillway to a 45-foot-wide by 5-foot-tall box culvert. Alternative 3 includes lowering the primary spillway invert by 2.0 feet and upsizing the primary spillway to a 4-foot-wide by 5-foot-tall box culvert. Alternative 2A, recommended for inclusion by VTDEC, includes lowering the primary spillway invert by 1.0 foot and no spillway sizing modifications. The HEC-HMS model was used to produce discharge hydrographs for existing conditions and each of the three potential dam alternatives under three storm events: 100-year storm, 500-year storm, and the spillway design flood (SDF) which is the 1,000-year storm. The downstream hazards posed by these three alternatives were compared against existing hazards using the HEC-RAS hydraulic model of the downstream floodway.

Shadow Lake Dam HEC-RAS Model Updates

Weston & Sampson obtained the previous HEC-RAS model created by D&K from the Town. Key updates to the model included:

- Removing the Shadow Lake Dam and its impoundment from the upstream end of the model as they were already incorporated into the HEC-HMS model.
- Adding a HEC-HMS-generated discharge hydrograph from Shadow Lake Dam into the upstream end of the HEC-RAS model as a boundary condition for each alternative for each of three different design storms: the 100-, 500- and the 1000-year events.
- Adding a road crossing not previously incorporated, specifically the Farm Bridge between Elm Street and Barton Orleans Road. This bridge was modeled using the same approach as the seven structures without a bridge deck as the bridge is not hydraulically restrictive. Field measurements and photos for that bridge were provided by the Town.

The rest of the model's geometry as well as the downstream and lateral flow boundary conditions, previously computed by D&K, were retained for this study.

We do want to note that the representation of bridges incorporated into the model was carefully reviewed by Weston & Sampson. D&K previously conducted a site visit to document the geometry and elevations of 19 structures located downstream of Shadow Lake Dam. In their provided HEC-RAS model, 12 of those structures were explicitly modeled, while the remaining seven structures (Structures 8, 11, 13, 14, 16, 17, and 18) were modeled without a bridge deck due to stability issues. This modeling approach was previously accepted by the VTDEC Dam Safety Program. To maintain consistency with the hydraulic assumptions of the existing model, all 19 structures were left unchanged in this study. After reviewing

model results, described below, we determined that changing the 2D connection features to model the seven structures explicitly would not significantly affect flooding results or this study's findings.

Results

Downstream impacts of each dam alternative were compared to existing conditions for the 100-year, 500-year, and 1,000-year storm events. Results were evaluated at habitable and regularly occupied buildings, including residential, commercial, and industrial buildings, and at roadway crossings. Accessory structures not typically occupied, such as sheds, detached garages, and storage buildings, were not included in this assessment. The maximum inundation extent, which occurred under the Alternative 3B 1,000-year storm event was used to define the set of 121 downstream habitable and regularly occupied buildings and 30 mobile homes evaluated across all alternatives and storm events.

For each evaluated location and storm, the maximum flood depth and velocity were used to determine the corresponding flood danger classification for occupants or passenger vehicles based on the 1988 U.S. Bureau of Reclamation (USBR) Assistant Commissioner – Engineering and Research (ACER) Technical Memorandum No. 11, "Downstream Hazard Classification Guidelines." Buildings classified as mobile homes by the Vermont Center for Geographic Information were evaluated using the mobile home-specific flood danger criteria defined in the USBR ACER guidance. For roadway crossings, flood depth was defined as the vertical distance between the modeled water surface elevation and the roadway elevation, with negative or zero depths indicating non-overtopping conditions.

Changes in flood danger levels for occupants of habitable and regularly occupied buildings, excluding mobile homes, relative to existing conditions are summarized for each alternative in Table 1 for the 100-year, 500-year, and 1,000-year storm event. Corresponding results for mobile homes and roadway crossings are presented in Tables 2 and 3, respectively. Complete supporting data tables are provided in Appendices A, B, and C for habitable and regularly occupied buildings, mobile homes, and roadway crossings, respectively, including model-derived maximum flood depths and velocities, and their associated flood danger classifications, for each evaluated location, storm event, and dam alternative.

Based on the results summarized in Tables 1 through 3, Alternative 3B is not considered a permissible option because there are increased flood danger levels relative to existing conditions at habitable and regularly occupied buildings, mobile homes, and roadway crossings downstream of the dam. During the 100-year storm, Alternative 3B increases flood danger levels to occupants at 9 habitable and regularly occupied buildings and 2 mobile homes, and to passenger vehicles at 2 roadway crossings. During the 500-year storm, Alternative 3B increases flood danger levels to occupants at 13 habitable and regularly occupied buildings and 2 mobile homes, and to passenger vehicles at 2 roadway crossings. During the 1,000-year storm, Alternative 3B increases flood danger levels to occupants at 16 habitable and regularly occupied buildings and 2 mobile homes, and to passenger vehicles at 4 roadway crossings.

**Table 1: Danger Classification Results for Habitable and Regularly Occupied Buildings
(excluding mobile homes)**

Storm Event	Alternative	Number of Buildings with Increased Flood Danger	Number of Buildings with Decreased Flood Danger	Number of Buildings with No Change
100-Year	Alternative 3B	9	0	112
	Alternative 3	0	0	121
	Alternative 2A	0	0	121
500-Year	Alternative 3B	13	0	108
	Alternative 3	0	0	121
	Alternative 2A	0	0	121
1,000-Year	Alternative 3B	16	0	105
	Alternative 3	0	2	119
	Alternative 2A	0	2	119

Table 2: Danger Classification Results for Mobile Homes

Storm Event	Alternative	Number of Buildings with Increased Flood Danger	Number of Buildings with Decreased Flood Danger	Number of Buildings with No Change
100-Year	Alternative 3B	2	0	28
	Alternative 3	0	0	30
	Alternative 2A	0	0	30
500-Year	Alternative 3B	2	0	28
	Alternative 3	0	1	29
	Alternative 2A	0	1	29
1,000-Year	Alternative 3B	2	0	28
	Alternative 3	0	0	30
	Alternative 2A	0	0	30

Table 3: Danger Classification Results for Roadway Crossings

Storm Event	Alternative	Number of Crossings with Increased Flood Danger	Number of Crossings with Decreased Flood Danger	Number of Crossings with No Change
100-Year	Alternative 3B	2	0	18
	Alternative 3	0	0	20
	Alternative 2A	0	0	20
500-Year	Alternative 3B	2	0	18
	Alternative 3	0	0	20
	Alternative 2A	0	0	20
1,000-Year	Alternative 3B	4	0	16
	Alternative 3	0	1	19
	Alternative 2A	0	1	19

Alternative 3 and Alternative 2A both appear to be permissible options with respect to downstream hazards because neither result in increased flood danger levels at any habitable and regularly occupied buildings, mobile homes, and roadway crossings downstream of the dam for any of the evaluated storm events. For both alternatives, the majority of evaluated locations experienced no change in flood danger levels, and a few locations experienced improved flood danger levels relative to existing conditions. During the 500-year storm, Alternative 3 and Alternative 2A each decrease flood danger levels to occupants at 1 mobile home. During the 1,000-year storm, Alternative 3 and Alternative 2A each decrease flood danger levels to occupants at 2 habitable and regularly occupied buildings and to passenger vehicles at 1 roadway crossing.

Overall, Alternatives 3 and 2A maintain or improve downstream flood danger levels, whereas Alternative 3B increases flood danger levels at multiple locations and therefore is not considered a viable alternative.

The dam currently overtops by 0.1-foot during the design storm event. Alternatives 3 and 2A improve conditions by providing 1.6 feet and 0.6 feet of freeboard during the design storm event, respectively. Current VTDEC Dam Safety Program (DSP) regulations indicate that a minimum of 1.5 feet of freeboard must be provided during the design storm event to be considered hydraulically adequate. The VTDEC DSP will need to consider if Alternative 2A is permissible with respect to freeboard requirements.

APPENDIX A

Maximum flood depths, velocities, and associated danger levels at habitable and regularly occupied buildings

Building Address	Town	Maximum Depth (feet)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
3122 GLOVER ST	GLOVER	0.81	1.21	0.76	0.76	0.65	1.02	0.63	0.63	0.29	0.61	0.00	0.20
357 MAIN ST	BARTON	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00
2421 GLOVER ST	GLOVER	0.63	1.51	0.57	0.56	0.02	0.91	0.00	0.00	0.00	0.00	0.00	0.00
2349 GLOVER ST	GLOVER	0.39	0.51	0.38	0.38	0.28	0.43	0.27	0.26	0.00	0.07	0.00	0.00
3103 GLOVER ST	GLOVER	0.54	1.03	0.49	0.49	0.29	0.81	0.24	0.23	0.00	0.18	0.00	0.00
13 ROLAND LN	BARTON	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3086 GLOVER ST	GLOVER	0.02	0.45	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
46 CONGRESS CT	BARTON	0.45	0.52	0.45	0.44	0.24	0.29	0.23	0.23	0.00	0.00	0.00	0.00
29 ELM ST	BARTON	7.12	7.86	7.06	7.04	5.87	6.38	5.82	5.82	4.21	4.55	4.16	4.16
167 PARK ST	BARTON	0.19	0.92	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 CONGRESS CT	BARTON	0.35	0.35	0.35	0.35	0.15	0.15	0.15	0.15	0.05	0.05	0.05	0.05
78 WATER ST	BARTON	1.10	1.10	1.10	1.10	0.99	0.99	0.99	0.99	0.00	0.00	0.00	0.00
295 MAIN ST	BARTON	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.00	0.00	0.00	0.00
110 GLOVER RD	BARTON	5.98	6.71	5.91	5.90	4.75	5.25	4.70	4.70	3.12	3.46	3.07	3.08
2864 GLOVER ST	GLOVER	3.17	4.36	3.04	3.02	2.58	3.84	2.53	2.52	1.45	2.47	0.00	0.00
123 PERRON HL	GLOVER	0.62	2.27	0.45	0.42	0.00	1.86	0.00	0.00	0.00	0.23	0.00	0.00
38 CHURCH ST	BARTON	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.00	0.00	0.00	0.00
130 GLOVER RD	BARTON	2.71	3.44	2.65	2.63	1.48	1.99	1.44	1.43	0.00	0.20	0.00	0.00
164 GLOVER RD	BARTON	8.61	9.33	8.54	8.53	7.39	7.90	7.35	7.34	5.76	6.11	5.71	5.71
100 GLOVER RD	BARTON	5.76	6.49	5.69	5.68	4.53	5.03	4.48	4.48	2.90	3.24	2.85	2.86
46 SCHOOL ST	GLOVER	0.06	0.64	0.01	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
16 CHURCH ST	BARTON	0.61	0.61	0.61	0.61	0.34	0.34	0.34	0.34	0.00	0.00	0.00	0.00
171 GLOVER RD	BARTON	0.09	0.87	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267 MAIN ST	BARTON	0.33	0.33	0.33	0.33	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00
290 GLOVER RD	BARTON	2.67	3.38	2.61	2.59	1.50	2.01	1.45	1.45	0.00	0.22	0.00	0.00
12 ELM ST	BARTON	8.20	8.98	8.13	8.12	6.77	7.37	6.71	6.71	4.11	4.50	4.05	4.06
62 PARK ST	BARTON	0.51	1.24	0.44	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 WATER ST	BARTON	5.50	5.54	5.52	5.52	5.16	5.14	5.16	5.13	3.86	3.87	3.88	3.84
144 ELM ST	BARTON	6.12	6.93	6.05	6.04	4.61	5.25	4.55	4.54	1.13	1.56	1.07	1.08
66 GLOVER RD	BARTON	12.10	12.81	12.03	12.02	10.89	11.37	10.85	10.85	9.34	9.63	9.31	9.31
233 PARK ST	BARTON	1.38	2.10	1.32	1.31	0.18	0.69	0.13	0.13	0.00	0.00	0.00	0.00
23 WATER ST	BARTON	6.57	6.61	6.57	6.59	6.08	6.05	6.02	6.02	4.64	4.63	4.62	4.62
381 MAIN ST	BARTON	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195 GLOVER RD	BARTON	0.49	1.21	0.43	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2972 GLOVER ST	GLOVER	1.18	1.64	1.13	1.12	0.92	1.45	0.86	0.85	0.00	0.77	0.00	0.00
545 BARTON ORLEANS RD	BARTON	7.50	8.39	7.42	7.40	5.85	6.53	5.78	5.77	0.90	1.66	0.80	0.81
23 DEXTER MOUNTAIN RD	GLOVER	0.00	0.59	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
28 LINCOLN AVE	BARTON	1.35	1.35	1.35	1.35	1.13	1.13	1.13	1.13	0.84	0.84	0.84	0.84
66 GLOVER RD	BARTON	9.12	9.85	9.06	9.05	7.89	8.39	7.84	7.83	6.25	6.59	6.21	6.21
141 PARK ST	BARTON	4.50	5.23	4.44	4.43	3.27	3.78	3.23	3.22	1.63	1.98	1.59	1.59
2575 GLOVER ST	GLOVER	1.05	2.11	0.94	0.92	0.48	1.49	0.39	0.38	0.00	0.07	0.00	0.00

Building Address	Town	Maximum Depth (feet)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
45 SCHOOL ST	BARTON	0.28	0.28	0.28	0.28	0.26	0.26	0.26	0.26	0.00	0.00	0.00	0.00
87 PARK ST	BARTON	6.09	6.82	6.02	6.01	4.86	5.36	4.81	4.81	3.24	3.58	3.19	3.19
9 BEAN HILL RD	GLOVER	3.62	5.39	3.42	3.38	2.62	4.73	2.47	2.45	0.99	2.29	0.84	0.85
165 WATER ST	BARTON	5.61	6.33	5.54	5.53	4.41	4.88	4.36	4.36	2.89	3.17	2.85	2.85
184 GLOVER RD	BARTON	7.56	8.28	7.49	7.48	6.35	6.86	6.30	6.30	4.71	5.07	4.66	4.67
33 PARK ST	BARTON	5.21	5.94	5.14	5.13	3.98	4.48	3.94	3.93	2.40	2.74	2.35	2.36
1318 GLOVER RD	BARTON	2.81	4.58	2.69	2.67	1.78	3.10	1.68	1.67	0.00	0.83	0.00	0.00
3050 GLOVER ST	GLOVER	2.40	3.20	2.33	2.32	1.98	2.84	1.89	1.87	0.45	1.77	0.24	0.26
25 SCHOOL ST	BARTON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2581 GLOVER ST	GLOVER	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LINCOLN AVE	BARTON	0.26	0.26	0.26	0.26	0.21	0.21	0.21	0.21	0.04	0.04	0.04	0.04
2944 GLOVER ST	GLOVER	1.74	3.46	1.54	1.51	0.86	2.81	0.75	0.74	0.23	0.64	0.20	0.20
98 WATER ST	BARTON	0.75	0.75	0.75	0.75	0.72	0.72	0.72	0.72	0.00	0.00	0.00	0.00
189 ELM ST	BARTON	0.19	0.93	0.13	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1532 GLOVER RD	BARTON	0.67	1.24	0.63	0.63	0.35	0.81	0.32	0.31	0.00	0.00	0.00	0.00
42 PINE PL	GLOVER	0.37	0.37	0.37	0.37	0.35	0.35	0.35	0.35	0.00	0.00	0.00	0.00
2510 GLOVER ST	GLOVER	3.16	3.16	3.16	3.16	2.96	2.96	2.96	2.96	2.42	2.42	2.42	2.42
203 MAIN ST	BARTON	1.84	1.84	1.84	1.84	2.01	2.01	2.01	2.01	0.00	0.00	0.00	0.00
158 CHURCH ST	BARTON	7.40	8.19	7.32	7.31	5.94	6.55	5.88	5.87	2.71	3.15	2.66	2.66
196 GLOVER RD	BARTON	3.26	3.98	3.20	3.18	2.05	2.56	2.01	2.00	0.41	0.77	0.36	0.37
3127 GLOVER ST	GLOVER	0.00	0.51	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00
52 CHURCH ST	BARTON	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00
21 STILL HL	GLOVER	1.41	2.34	1.33	1.32	1.01	1.93	0.94	0.93	0.12	0.86	0.00	0.00
72 BAILEY LN	GLOVER	0.56	0.56	0.56	0.56	0.52	0.52	0.52	0.52	0.32	0.32	0.32	0.32
2513 GLOVER ST	GLOVER	4.70	5.84	4.61	4.59	4.05	5.14	3.95	3.94	2.59	3.51	2.46	2.47
57 MILL PL	GLOVER	0.15	0.15	0.15	0.15	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00
23 WATER ST	BARTON	8.28	8.31	8.27	8.29	7.76	7.74	7.70	7.70	6.28	6.26	6.26	6.25
2615 GLOVER ST	GLOVER	1.12	2.46	0.99	0.97	0.16	1.89	0.00	0.00	0.00	0.00	0.00	0.00
3032 GLOVER ST	GLOVER	3.96	4.75	3.89	3.88	3.54	4.39	3.44	3.43	1.94	3.33	1.71	1.73
3008 GLOVER ST	GLOVER	5.07	5.85	5.00	4.98	4.65	5.50	4.55	4.54	2.96	4.43	2.69	2.71
327 MAIN ST	BARTON	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	0.00	0.00	0.00	0.00
2633 GLOVER ST	GLOVER	2.76	4.08	2.64	2.61	1.88	3.37	1.73	1.72	0.42	1.30	0.06	0.07
64 PINE PL	GLOVER	0.16	0.16	0.16	0.16	0.14	0.14	0.14	0.14	0.03	0.03	0.03	0.03
82 GLOVER RD	BARTON	3.44	4.17	3.37	3.36	2.20	2.70	2.15	2.15	0.57	0.91	0.52	0.52
6 PARK ST	BARTON	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 PARK ST	BARTON	1.32	2.06	1.25	1.24	0.01	0.57	0.00	0.00	0.00	0.00	0.00	0.00
31 CONGRESS CT	BARTON	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.23	0.23	0.23	0.23
46 HIGH ST	BARTON	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.00	0.00	0.00	0.00
257 MAIN ST	BARTON	0.09	0.09	0.09	0.09	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00
25 PARK ST	BARTON	1.93	2.68	1.87	1.85	0.69	1.18	0.64	0.64	0.00	0.00	0.00	0.00
110 WATER ST	BARTON	0.46	0.46	0.46	0.46	0.64	0.64	0.64	0.64	0.00	0.00	0.00	0.00

Building Address	Town	Maximum Depth (feet)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
175 PARK ST	BARTON	1.82	2.55	1.76	1.75	0.59	1.10	0.55	0.54	0.00	0.00	0.00	0.00
2984 GLOVER ST	GLOVER	6.19	6.96	6.12	6.10	5.77	6.61	5.66	5.65	4.00	5.54	3.73	3.75
187 WATER ST	BARTON	6.32	7.05	6.26	6.25	5.12	5.60	5.08	5.08	3.61	3.89	3.57	3.57
149 WATER ST	BARTON	6.37	7.09	6.31	6.29	5.16	5.63	5.11	5.11	3.65	3.93	3.61	3.61
3153 GLOVER ST	GLOVER	0.00	0.41	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
9 SARGENT LN	GLOVER	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89 MAIN ST	BARTON	6.07	6.07	6.07	6.07	5.73	5.73	5.73	5.73	4.84	4.84	4.84	4.84
2894 GLOVER ST	GLOVER	3.45	4.64	3.33	3.30	2.86	4.12	2.81	2.81	1.73	2.75	0.00	0.00
109 WATER ST	BARTON	0.48	0.48	0.48	0.48	0.36	0.36	0.36	0.36	0.00	0.00	0.00	0.00
267 MAIN ST	BARTON	0.61	0.61	0.61	0.61	0.48	0.48	0.48	0.48	0.00	0.00	0.00	0.00
3130 GLOVER ST	GLOVER	1.06	1.65	1.01	1.00	0.77	1.39	0.72	0.71	0.09	0.65	0.00	0.00
90 GLOVER RD	BARTON	6.00	6.73	5.94	5.93	4.77	5.28	4.73	4.72	3.14	3.49	3.10	3.10
2653 GLOVER ST	GLOVER	4.00	5.29	3.89	3.87	3.26	4.58	3.13	3.12	1.66	2.73	1.55	1.56
2956 GLOVER ST	GLOVER	1.34	2.16	1.28	1.27	1.07	1.74	1.04	1.04	0.51	1.01	0.47	0.48
101 BALLFIELD ALY	BARTON	5.48	6.29	5.40	5.39	3.97	4.60	3.91	3.90	0.44	0.89	0.39	0.39
515 MAIN ST	BARTON	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02
542 MAIN ST	BARTON	1.33	1.33	1.33	1.33	1.15	1.15	1.15	1.15	0.93	0.93	0.93	0.93
15 GLOVER RD	BARTON	7.61	8.33	7.54	7.53	6.40	6.88	6.36	6.35	4.87	5.16	4.83	4.83
117 MAIN ST	BARTON	8.74	8.74	8.74	8.74	7.94	7.94	7.94	7.94	5.88	5.88	5.88	5.88
188 ELM ST	BARTON	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137 CHURCH ST	BARTON	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	0.00	0.00	0.00	0.00
493 MAIN ST	BARTON	0.92	0.92	0.92	0.92	0.89	0.89	0.89	0.89	0.35	0.35	0.35	0.35
14 GLOVER RD	BARTON	5.26	6.00	5.20	5.18	4.00	4.52	3.96	3.95	2.34	2.67	2.29	2.29
17 VILLAGE SQ	BARTON	3.27	3.27	3.27	3.27	3.24	3.24	3.24	3.24	0.00	0.00	0.00	0.00
97 WATER ST	BARTON	0.05	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
133 WATER ST	BARTON	1.13	1.40	1.11	1.10	0.52	0.59	0.52	0.51	0.00	0.00	0.00	0.00
3074 GLOVER ST	GLOVER	2.08	2.89	2.01	1.99	1.67	2.52	1.57	1.56	0.56	1.46	0.48	0.49
1588 GLOVER RD	BARTON	0.03	0.62	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
43 FULTON LN	BARTON	0.74	0.92	0.72	0.70	0.53	0.80	0.50	0.49	0.00	0.00	0.00	0.00
290 GLOVER RD	BARTON	3.66	4.36	3.60	3.59	2.51	3.02	2.46	2.46	0.88	1.26	0.83	0.84
1318 GLOVER RD	BARTON	1.17	2.97	1.05	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
776 GLOVER RD	BARTON	4.43	4.97	4.39	4.38	3.69	4.11	3.65	3.65	2.43	2.78	2.38	2.39
256 GLOVER RD	BARTON	3.88	4.59	3.81	3.80	2.70	3.21	2.66	2.65	1.08	1.44	1.03	1.03
234 GLOVER RD	BARTON	3.90	4.62	3.84	3.83	2.71	3.22	2.67	2.66	1.07	1.43	1.02	1.02
188 ELM ST	BARTON	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 GLOVER RD	BARTON	6.39	7.13	6.33	6.32	5.15	5.66	5.11	5.10	3.52	3.86	3.48	3.48
334 BARTON ORLEANS RD	BARTON	7.15	8.03	7.07	7.06	5.50	6.19	5.44	5.43	0.66	1.40	0.56	0.57
2985 GLOVER ST	GLOVER	0.73	1.48	0.67	0.66	0.46	1.13	0.41	0.41	0.10	0.37	0.02	0.03
3018 GLOVER ST	GLOVER	4.78	5.57	4.71	4.69	4.36	5.21	4.26	4.25	2.68	4.14	2.41	2.43

Building Address	Town	Maximum Velocity (feet per second)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
3122 GLOVER ST	GLOVER	1.03	1.75	0.94	0.92	0.76	1.40	0.73	0.72	0.20	0.70	0.00	0.01
357 MAIN ST	BARTON	0.16	0.16	0.16	0.16	0.14	0.14	0.14	0.14	0.00	0.00	0.00	0.00
2421 GLOVER ST	GLOVER	1.49	2.44	1.42	1.40	1.11	1.82	0.00	0.00	0.00	0.00	0.00	0.00
2349 GLOVER ST	GLOVER	0.41	0.50	0.41	0.40	0.34	0.45	0.32	0.32	0.00	0.14	0.00	0.00
3103 GLOVER ST	GLOVER	0.81	1.16	0.79	0.79	0.73	1.00	0.65	0.65	0.00	0.64	0.00	0.00
13 ROLAND LN	BARTON	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3086 GLOVER ST	GLOVER	0.39	0.78	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00
46 CONGRESS CT	BARTON	2.55	2.55	2.55	2.55	1.85	1.85	1.85	1.85	0.00	0.00	0.00	0.00
29 ELM ST	BARTON	2.66	2.66	2.66	2.66	2.39	2.38	2.38	2.38	2.10	2.20	2.09	2.09
167 PARK ST	BARTON	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 CONGRESS CT	BARTON	0.32	0.32	0.32	0.32	0.12	0.12	0.12	0.12	0.05	0.05	0.05	0.05
78 WATER ST	BARTON	1.19	1.19	1.19	1.19	0.91	0.91	0.91	0.91	0.00	0.00	0.00	0.00
295 MAIN ST	BARTON	0.23	0.23	0.23	0.23	0.18	0.18	0.18	0.18	0.00	0.00	0.00	0.00
110 GLOVER RD	BARTON	0.20	0.25	0.19	0.19	0.14	0.17	0.13	0.13	0.11	0.12	0.11	0.11
2864 GLOVER ST	GLOVER	0.18	1.53	0.18	0.18	0.23	0.82	0.23	0.23	0.05	0.16	0.00	0.00
123 PERRON HL	GLOVER	0.37	1.20	0.23	0.21	0.00	0.92	0.00	0.00	0.00	0.05	0.00	0.00
38 CHURCH ST	BARTON	0.18	0.18	0.18	0.18	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00
130 GLOVER RD	BARTON	0.68	0.76	0.68	0.67	0.54	0.65	0.53	0.53	0.00	0.22	0.00	0.00
164 GLOVER RD	BARTON	0.75	0.75	0.75	0.75	0.69	0.70	0.69	0.69	0.53	0.57	0.52	0.52
100 GLOVER RD	BARTON	0.40	0.45	0.40	0.40	0.37	0.41	0.36	0.36	0.29	0.34	0.29	0.29
46 SCHOOL ST	GLOVER	0.22	0.68	0.12	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
16 CHURCH ST	BARTON	0.28	0.28	0.28	0.28	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00
171 GLOVER RD	BARTON	0.07	0.22	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267 MAIN ST	BARTON	0.60	0.60	0.60	0.60	0.43	0.43	0.43	0.43	0.00	0.00	0.00	0.00
290 GLOVER RD	BARTON	0.83	0.92	0.83	0.83	0.67	0.78	0.66	0.66	0.00	0.28	0.00	0.00
12 ELM ST	BARTON	3.49	3.49	3.49	3.49	3.33	3.32	3.38	3.38	2.32	2.78	2.28	2.28
62 PARK ST	BARTON	0.11	0.36	0.09	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 WATER ST	BARTON	20.59	20.61	20.66	20.65	19.37	19.30	19.29	19.10	15.67	15.57	15.66	15.68
144 ELM ST	BARTON	1.42	1.42	1.42	1.42	1.22	1.40	1.21	1.21	0.58	0.75	0.55	0.55
66 GLOVER RD	BARTON	3.17	3.17	3.17	3.17	3.06	3.07	3.07	3.06	2.69	2.69	2.69	2.69
233 PARK ST	BARTON	0.43	0.47	0.42	0.42	0.24	0.35	0.23	0.23	0.00	0.00	0.00	0.00
23 WATER ST	BARTON	20.58	20.68	20.68	20.77	12.55	12.35	12.20	12.11	9.81	10.09	9.72	9.76
381 MAIN ST	BARTON	0.17	0.17	0.17	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195 GLOVER RD	BARTON	0.31	0.37	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2972 GLOVER ST	GLOVER	3.67	4.76	3.57	3.55	3.05	4.30	2.94	2.92	0.00	2.76	0.00	0.00
545 BARTON ORLEANS RD	BARTON	1.91	1.91	1.90	1.90	1.84	1.86	1.83	1.83	1.35	1.47	1.33	1.33
23 DEXTER MOUNTAIN RD	GLOVER	0.00	0.78	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00
28 LINCOLN AVE	BARTON	7.54	7.54	7.54	7.54	6.76	6.76	6.76	6.76	5.96	5.96	5.96	5.96
66 GLOVER RD	BARTON	3.55	3.55	3.55	3.55	3.26	3.26	3.26	3.26	2.76	2.76	2.76	2.76
141 PARK ST	BARTON	0.35	0.41	0.34	0.34	0.22	0.29	0.21	0.21	0.06	0.13	0.06	0.06
2575 GLOVER ST	GLOVER	1.50	2.01	1.47	1.46	1.21	1.79	1.17	1.16	0.00	0.89	0.00	0.00

Building Address	Town	Maximum Velocity (feet per second)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
45 SCHOOL ST	BARTON	0.17	0.17	0.17	0.17	0.13	0.13	0.13	0.13	0.00	0.00	0.00	0.00
87 PARK ST	BARTON	1.60	1.71	1.59	1.59	1.40	1.58	1.38	1.38	0.76	0.97	0.75	0.75
9 BEAN HILL RD	GLOVER	1.53	2.50	1.28	1.23	0.99	2.16	0.97	0.97	0.56	0.96	0.43	0.44
165 WATER ST	BARTON	1.10	1.10	1.10	1.10	0.74	0.74	0.74	0.74	0.43	0.42	0.42	0.42
184 GLOVER RD	BARTON	0.63	0.68	0.63	0.63	0.58	0.63	0.57	0.57	0.44	0.48	0.43	0.43
33 PARK ST	BARTON	0.46	0.53	0.45	0.45	0.20	0.35	0.18	0.18	0.03	0.04	0.03	0.03
1318 GLOVER RD	BARTON	1.49	1.76	1.43	1.42	1.10	1.63	1.09	1.08	0.00	0.26	0.00	0.00
3050 GLOVER ST	GLOVER	0.56	0.68	0.56	0.56	0.51	0.60	0.51	0.51	0.54	0.63	0.53	0.53
25 SCHOOL ST	BARTON	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2581 GLOVER ST	GLOVER	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LINCOLN AVE	BARTON	0.88	0.88	0.88	0.88	0.50	0.50	0.50	0.50	0.15	0.15	0.15	0.15
2944 GLOVER ST	GLOVER	2.35	2.69	2.19	2.19	2.11	2.52	2.05	2.04	1.12	1.95	0.91	0.93
98 WATER ST	BARTON	1.15	1.15	1.15	1.15	0.90	0.90	0.90	0.90	0.00	0.00	0.00	0.00
189 ELM ST	BARTON	0.02	0.11	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1532 GLOVER RD	BARTON	1.16	1.66	1.10	1.10	0.57	1.32	0.52	0.52	0.00	0.00	0.00	0.00
42 PINE PL	GLOVER	0.33	0.33	0.33	0.33	0.28	0.28	0.28	0.28	0.00	0.00	0.00	0.00
2510 GLOVER ST	GLOVER	5.91	5.91	5.91	5.91	5.55	5.55	5.55	5.55	4.53	4.53	4.53	4.53
203 MAIN ST	BARTON	1.31	1.31	1.31	1.31	1.10	1.10	1.10	1.10	0.00	0.00	0.00	0.00
158 CHURCH ST	BARTON	1.40	1.41	1.40	1.40	1.27	1.27	1.26	1.26	0.84	0.99	0.82	0.82
196 GLOVER RD	BARTON	0.73	0.80	0.73	0.73	0.61	0.71	0.60	0.60	0.26	0.35	0.20	0.20
3127 GLOVER ST	GLOVER	0.00	1.30	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00
52 CHURCH ST	BARTON	0.29	0.29	0.29	0.29	0.27	0.27	0.27	0.27	0.00	0.00	0.00	0.00
21 STILL HL	GLOVER	1.22	2.20	1.14	1.13	0.82	1.71	0.75	0.74	0.15	0.68	0.00	0.00
72 BAILEY LN	GLOVER	1.58	1.58	1.58	1.58	1.51	1.51	1.51	1.51	0.67	0.67	0.67	0.67
2513 GLOVER ST	GLOVER	2.85	3.07	2.84	2.84	2.59	2.78	2.57	2.57	1.79	2.28	1.72	1.73
57 MILL PL	GLOVER	6.43	6.43	6.43	6.43	6.11	6.11	6.11	6.11	0.00	0.00	0.00	0.00
23 WATER ST	BARTON	12.93	12.94	12.93	12.92	12.40	12.34	12.31	12.32	11.06	11.07	11.05	11.04
2615 GLOVER ST	GLOVER	0.44	0.87	0.41	0.40	0.20	0.59	0.00	0.00	0.00	0.00	0.00	0.00
3032 GLOVER ST	GLOVER	1.24	1.52	1.23	1.23	1.19	1.35	1.18	1.18	1.02	1.16	0.96	0.96
3008 GLOVER ST	GLOVER	1.04	1.66	1.01	1.01	0.89	1.32	0.86	0.86	0.54	0.83	0.48	0.48
327 MAIN ST	BARTON	0.35	0.35	0.35	0.35	0.30	0.30	0.30	0.30	0.00	0.00	0.00	0.00
2633 GLOVER ST	GLOVER	2.28	3.07	2.22	2.21	1.93	2.62	1.87	1.86	0.79	1.65	0.77	0.78
64 PINE PL	GLOVER	0.48	0.48	0.48	0.48	0.38	0.38	0.38	0.38	0.02	0.02	0.02	0.02
82 GLOVER RD	BARTON	0.36	0.40	0.36	0.36	0.32	0.37	0.32	0.32	0.19	0.26	0.18	0.18
6 PARK ST	BARTON	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 PARK ST	BARTON	0.16	0.48	0.12	0.12	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00
31 CONGRESS CT	BARTON	0.61	0.61	0.61	0.61	0.24	0.24	0.24	0.24	0.10	0.10	0.10	0.10
46 HIGH ST	BARTON	0.15	0.15	0.15	0.15	0.13	0.13	0.13	0.13	0.00	0.00	0.00	0.00
257 MAIN ST	BARTON	0.90	0.90	0.90	0.90	0.70	0.70	0.70	0.70	0.00	0.00	0.00	0.00
25 PARK ST	BARTON	0.82	0.89	0.81	0.81	0.46	0.66	0.44	0.44	0.00	0.00	0.00	0.00
110 WATER ST	BARTON	1.34	1.34	1.34	1.34	1.13	1.13	1.13	1.13	0.00	0.00	0.00	0.00

Building Address	Town	Maximum Velocity (feet per second)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
175 PARK ST	BARTON	0.15	0.19	0.14	0.14	0.07	0.11	0.07	0.07	0.00	0.00	0.00	0.00
2984 GLOVER ST	GLOVER	5.32	5.64	5.29	5.32	5.20	5.32	5.19	5.19	4.66	4.99	4.53	4.54
187 WATER ST	BARTON	0.82	0.82	0.82	0.82	0.74	0.74	0.74	0.74	0.42	0.42	0.42	0.42
149 WATER ST	BARTON	1.69	1.69	1.69	1.69	1.52	1.52	1.52	1.53	1.10	1.10	1.10	1.10
3153 GLOVER ST	GLOVER	0.00	0.15	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
9 SARGENT LN	GLOVER	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89 MAIN ST	BARTON	7.46	7.46	7.46	7.46	7.03	7.03	7.03	7.03	5.99	5.99	5.99	5.99
2894 GLOVER ST	GLOVER	1.35	1.89	1.28	1.27	0.79	1.77	0.61	0.60	0.03	0.51	0.00	0.00
109 WATER ST	BARTON	0.96	0.96	0.96	0.96	0.75	0.75	0.75	0.75	0.00	0.00	0.00	0.00
267 MAIN ST	BARTON	1.29	1.29	1.29	1.29	0.84	0.84	0.84	0.84	0.00	0.00	0.00	0.00
3130 GLOVER ST	GLOVER	1.74	2.63	1.68	1.68	1.44	2.17	1.38	1.37	0.68	1.31	0.00	0.00
90 GLOVER RD	BARTON	0.51	0.55	0.51	0.51	0.48	0.54	0.48	0.48	0.37	0.44	0.37	0.37
2653 GLOVER ST	GLOVER	2.38	3.37	2.31	2.30	1.90	2.83	1.80	1.79	0.45	1.46	0.36	0.37
2956 GLOVER ST	GLOVER	2.16	2.97	2.08	2.07	1.68	2.56	1.54	1.53	0.19	1.08	0.15	0.16
101 BALLFIELD ALY	BARTON	2.01	2.02	2.01	2.01	1.83	1.85	1.83	1.83	0.23	0.49	0.21	0.22
515 MAIN ST	BARTON	0.82	0.82	0.82	0.82	0.00	0.00	0.00	0.00	0.06	0.06	0.06	0.06
542 MAIN ST	BARTON	1.93	1.93	1.93	1.93	1.53	1.53	1.53	1.53	0.87	0.87	0.87	0.87
15 GLOVER RD	BARTON	2.18	2.18	2.18	2.18	1.99	1.99	1.99	1.99	1.29	1.29	1.29	1.29
117 MAIN ST	BARTON	19.06	19.06	19.06	19.06	10.86	10.86	10.86	10.86	10.19	10.19	10.19	10.19
188 ELM ST	BARTON	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137 CHURCH ST	BARTON	0.16	0.16	0.16	0.16	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00
493 MAIN ST	BARTON	0.31	0.31	0.31	0.31	0.25	0.25	0.25	0.25	0.11	0.11	0.11	0.11
14 GLOVER RD	BARTON	2.10	2.12	2.11	2.11	1.79	1.81	1.77	1.78	1.29	1.33	1.29	1.29
17 VILLAGE SQ	BARTON	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.00	0.00	0.00	0.00
97 WATER ST	BARTON	0.44	0.44	0.44	0.44	0.44	0.41	0.42	0.45	0.00	0.00	0.00	0.00
133 WATER ST	BARTON	1.35	1.68	1.34	1.33	0.44	0.43	0.44	0.44	0.00	0.00	0.00	0.00
3074 GLOVER ST	GLOVER	1.22	1.61	1.21	1.21	1.21	1.66	1.20	0.87	0.55	0.89	0.50	0.50
1588 GLOVER RD	BARTON	0.03	1.28	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
43 FULTON LN	BARTON	2.58	3.56	2.48	2.47	1.33	2.95	1.12	1.09	0.00	0.00	0.00	0.00
290 GLOVER RD	BARTON	0.90	0.99	0.90	0.90	0.79	0.90	0.78	0.78	0.36	0.49	0.34	0.34
1318 GLOVER RD	BARTON	0.15	0.27	0.14	0.12	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
776 GLOVER RD	BARTON	1.34	1.36	1.34	1.34	1.27	1.35	1.26	1.26	0.92	1.05	0.90	0.91
256 GLOVER RD	BARTON	0.50	0.56	0.50	0.50	0.41	0.48	0.40	0.40	0.28	0.31	0.27	0.27
234 GLOVER RD	BARTON	0.65	0.69	0.64	0.64	0.59	0.65	0.58	0.58	0.36	0.45	0.35	0.35
188 ELM ST	BARTON	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 GLOVER RD	BARTON	3.40	3.41	3.40	3.40	3.00	3.01	3.00	3.00	2.24	2.26	2.24	2.24
334 BARTON ORLEANS RD	BARTON	0.46	0.47	0.46	0.46	0.40	0.40	0.40	0.40	0.13	0.34	0.12	0.12
2985 GLOVER ST	GLOVER	1.51	2.84	1.39	1.38	1.04	2.26	0.97	0.97	0.33	0.91	0.26	0.26
3018 GLOVER ST	GLOVER	1.76	2.27	1.73	1.72	1.59	2.01	1.56	1.56	1.29	1.52	1.23	1.23

Building Address	Town	Danger Level											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
175 PARK ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
2984 GLOVER ST	GLOVER	High	High	High	High	High	High	High	High	Judgement	High	Judgement	Judgement
187 WATER ST	BARTON	High	High	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement
149 WATER ST	BARTON	High	High	High	High	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement
3153 GLOVER ST	GLOVER	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
9 SARGENT LN	GLOVER	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
89 MAIN ST	BARTON	High	High	High	High	High	High	High	High	Judgement	Judgement	Judgement	Judgement
2894 GLOVER ST	GLOVER	Judgement	Judgement	Judgement	Judgement	Low	Judgement	Low	Low	Low	Low	Low	Low
109 WATER ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
267 MAIN ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
3130 GLOVER ST	GLOVER	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
90 GLOVER RD	BARTON	Judgement	High	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement
2653 GLOVER ST	GLOVER	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Low	Low	Low	Low
2956 GLOVER ST	GLOVER	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
101 BALLFIELD ALY	BARTON	Judgement	High	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Low	Low	Low	Low
515 MAIN ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
542 MAIN ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
15 GLOVER RD	BARTON	High	High	High	High	High	High	High	High	Judgement	Judgement	Judgement	Judgement
117 MAIN ST	BARTON	High	High	High	High	High	High	High	High	High	High	High	High
188 ELM ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
137 CHURCH ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
493 MAIN ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
14 GLOVER RD	BARTON	Judgement	High	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Low	Low	Low	Low
17 VILLAGE SQ	BARTON	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Low	Low	Low	Low
97 WATER ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
133 WATER ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
3074 GLOVER ST	GLOVER	Low	Judgement	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
1588 GLOVER RD	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
43 FULTON LN	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
290 GLOVER RD	BARTON	Judgement	Judgement	Judgement	Judgement	Low	Judgement	Low	Low	Low	Low	Low	Low
1318 GLOVER RD	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
776 GLOVER RD	BARTON	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Low	Low	Low	Low
256 GLOVER RD	BARTON	Judgement	Judgement	Judgement	Judgement	Low	Judgement	Low	Low	Low	Low	Low	Low
234 GLOVER RD	BARTON	Judgement	Judgement	Judgement	Judgement	Low	Judgement	Low	Low	Low	Low	Low	Low
188 ELM ST	BARTON	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
32 GLOVER RD	BARTON	High	High	High	High	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement
334 BARTON ORLEANS RD	BARTON	High	High	High	High	Judgement	Judgement	Judgement	Judgement	Low	Low	Low	Low
2985 GLOVER ST	GLOVER	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
3018 GLOVER ST	GLOVER	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Judgement	Low	Judgement	Low	Low

APPENDIX B

Maximum flood depths, velocities, and associated danger levels at mobile homes

Building Address	Town	Maximum Depth (feet)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
20 LAURETTE LN	BARTON	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160 LAURETTE LN	BARTON	0.79	1.52	0.72	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 ROLAND LN	BARTON	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184 LAURETTE LN	BARTON	1.04	1.77	0.97	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 ROLAND LN	BARTON	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172 LAURETTE LN	BARTON	0.60	1.33	0.53	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148 GLOVER RD	BARTON	3.12	3.85	3.06	3.05	1.90	2.41	1.86	1.85	0.27	0.63	0.22	0.22
2529 GLOVER ST	GLOVER	2.38	3.45	2.30	2.28	1.78	2.78	1.70	1.68	0.42	1.30	0.31	0.32
194 LAURETTE LN	BARTON	0.85	1.58	0.79	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 TALBOT LN	GLOVER	3.06	4.16	2.98	2.96	2.53	3.55	2.44	2.43	1.26	2.15	1.13	1.14
48 ROLAND LN	BARTON	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92 LAURETTE LN	BARTON	0.69	1.43	0.63	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 ROLAND LN	BARTON	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 TALBOT LN	GLOVER	3.62	4.72	3.54	3.52	3.08	4.11	2.98	2.97	1.50	2.67	1.27	1.29
36 LAURETTE LN	BARTON	0.72	1.46	0.66	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 LAURETTE LN	BARTON	0.57	1.30	0.50	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 ROLAND LN	BARTON	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150 LAURETTE LN	BARTON	0.91	1.65	0.85	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54 LAURETTE LN	BARTON	1.41	2.15	1.35	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LAURETTE LN	BARTON	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69 LAURETTE LN	BARTON	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 ROLAND LN	BARTON	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111 LAURETTE LN	BARTON	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70 ROLAND LN	BARTON	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127 ROLAND LN	BARTON	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69 ROLAND LN	BARTON	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 LAURETTE LN	BARTON	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90 ROLAND LN	BARTON	0.00	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89 LAURETTE LN	BARTON	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1770 GLOVER RD	BARTON	4.38	5.16	4.33	4.32	3.88	4.57	3.82	3.81	2.78	3.32	2.72	2.72

Building Address	Town	Max Velocity (feet per second)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
20 LAURETTE LN	BARTON	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160 LAURETTE LN	BARTON	0.12	0.15	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 ROLAND LN	BARTON	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184 LAURETTE LN	BARTON	0.10	0.14	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 ROLAND LN	BARTON	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172 LAURETTE LN	BARTON	0.05	0.15	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148 GLOVER RD	BARTON	0.71	0.77	0.70	0.70	0.60	0.69	0.59	0.59	0.20	0.33	0.17	0.17
2529 GLOVER ST	GLOVER	0.86	1.79	0.84	0.83	0.87	1.26	0.85	0.85	0.67	0.87	0.63	0.64
194 LAURETTE LN	BARTON	0.10	0.18	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 TALBOT LN	GLOVER	1.77	2.21	1.74	1.73	1.56	1.97	1.52	1.51	0.98	1.40	0.88	0.89
48 ROLAND LN	BARTON	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92 LAURETTE LN	BARTON	0.08	0.14	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 ROLAND LN	BARTON	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 TALBOT LN	GLOVER	1.83	2.21	1.81	1.80	1.61	1.88	1.60	1.60	1.31	1.45	1.29	1.29
36 LAURETTE LN	BARTON	0.04	0.08	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 LAURETTE LN	BARTON	0.09	0.13	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 ROLAND LN	BARTON	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150 LAURETTE LN	BARTON	0.18	0.23	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54 LAURETTE LN	BARTON	0.10	0.11	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LAURETTE LN	BARTON	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69 LAURETTE LN	BARTON	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 ROLAND LN	BARTON	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111 LAURETTE LN	BARTON	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70 ROLAND LN	BARTON	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127 ROLAND LN	BARTON	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69 ROLAND LN	BARTON	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 LAURETTE LN	BARTON	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90 ROLAND LN	BARTON	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89 LAURETTE LN	BARTON	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1770 GLOVER RD	BARTON	2.68	2.88	2.67	2.66	2.51	2.74	2.49	2.49	2.08	2.29	2.06	2.06

APPENDIX C

Maximum flood depths, velocities, and associated danger levels at roadway crossings

Connection Name	Roadway Crossing	Maximum Depth (feet)											
		1000-Year				500-Year				100-Year			
		Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A	Existing	Alt 3B	Alt 3	Alt 2A
Culv 1	Stone Shore Road	-1394.97	0.63	-1394.97	-1394.97	-1394.97	-1394.97	-1394.97	-1394.97	-1394.97	-1394.97	-1394.97	-1394.97
Culv 10	Sargent Lane	0.07	1.46	-0.07	-0.09	-1.08	0.56	-1.24	-1.26	-3.27	-1.77	-3.47	-3.46
Culv 11	Glover Road	-2.79	-2.02	-2.84	-2.85	-3.29	-2.59	-3.35	-3.36	-4.58	-3.90	-4.67	-4.67
Culv 12	Fulton Lane	0.70	1.08	0.67	0.67	0.50	0.76	0.47	0.47	-0.31	0.18	-0.40	-0.39
Culv 13	Driveway	-1.55	-0.64	-1.53	-1.54	-2.06	-1.36	-2.13	-2.13	-3.58	-2.79	-3.68	-3.67
Culv 14	Ingersol Lane	-0.76	0.99	-0.88	-0.90	-1.69	-0.49	-1.77	-1.78	-3.20	-2.51	-3.28	-3.28
Culv 15	Interstate 91	-877.40	-877.40	-877.40	-877.40	-877.40	-877.40	-877.40	-877.40	-877.40	-877.40	-877.40	-877.40
Culv 16	Roaring Brook Road	3.96	4.61	3.90	3.89	2.96	3.44	2.92	2.91	1.50	1.86	1.46	1.46
Culv 17	Elm Street	3.92	4.69	3.85	3.84	2.54	3.11	2.49	2.48	0.59	0.90	0.55	0.55
Culv 18	Barton Orleans Road	3.82	4.86	3.72	3.71	2.01	2.71	1.96	1.95	-4.18	-3.37	-4.29	-4.28
Culv 19	Railway	-870.78	-870.78	-870.78	-870.78	-870.78	-870.78	-870.78	-870.78	-870.78	-870.78	-870.78	-870.78
Culv 2	Dwinell Drive	1.19	2.56	1.02	0.99	0.77	2.23	0.51	0.48	-1197.71	1.38	-1197.71	-1197.71
Culv 3	Perron Hill Road	-2.70	-0.78	-2.87	-2.90	-3.28	-1.23	-3.45	-3.47	-4.54	-3.07	-4.76	-4.74
Culv 4	Aldrich Lane	-3.93	-1.12	-4.15	-4.19	-4.71	-2.18	-4.94	-4.96	-6.36	-4.42	-6.65	-6.62
Culv 5	Still Hill Road	-1.21	-0.14	-1.30	-1.32	-1.69	-0.65	-1.78	-1.79	-2.84	-1.88	-2.99	-2.98
Culv 6	School Street	0.94	1.64	0.88	0.87	0.59	1.33	0.50	0.49	-1.45	0.38	-1.67	-1.65
Culv 7	Bean Hill Road	0.51	1.42	0.50	0.49	0.44	0.77	0.41	0.41	-3.30	0.38	-3.52	-3.50
Culv 8	Glover Road	-2.41	0.90	-2.56	-2.59	-3.22	0.64	-3.39	-3.41	-4.92	-3.54	-5.11	-5.10
Culv 9	Talbot Lane	-4.29	-3.17	-4.38	-4.39	-4.84	-3.80	-4.94	-4.95	-6.35	-5.25	-6.55	-6.53
Farm Bridge	Farm Bridge	11.06	11.95	10.98	10.96	9.41	10.09	9.34	9.33	4.49	5.25	4.39	4.40

Connection Name	Roadway Crossing	Maximum Velocity (feet per second)											
		1000-Year				500-Year				100-Year			
		Existing	Alt3B	Alt3	Alt2A	Existing	Alt3B	Alt3	Alt2A	Existing	Alt3B	Alt3	Alt2A
Culv 1	Stone Shore Road	0.00	7.188	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000
Culv 10	Sargent Lane	9.87	11.329	9.859	9.858	9.33	11.299	9.206	9.193	7.71	8.835	7.544	7.553
Culv 11	Glover Road	6.77	7.863	6.672	6.656	6.29	7.431	6.180	6.166	5.08	6.230	4.917	4.931
Culv 12	Fulton Lane	7.71	7.853	7.702	7.708	7.57	7.741	7.537	7.545	7.02	7.308	6.984	6.986
Culv 13	Driveway	10.20	10.495	10.167	10.163	9.81	10.395	9.756	9.749	8.19	9.139	8.046	8.058
Culv 14	Ingersol Lane	7.47	7.461	7.469	7.469	7.22	7.215	7.216	7.216	6.78	6.734	6.777	6.777
Culv 15	Interstate 91	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000
Culv 16	Roaring Brook Road	5.35	5.353	5.350	5.350	5.12	5.122	5.117	5.116	4.82	4.824	4.816	4.817
Culv 17	Elm Street	9.57	9.571	9.571	9.572	9.54	9.538	9.537	9.537	2.16	9.236	2.120	2.123
Culv 18	Barton Orleans Road	13.13	13.133	13.133	13.133	13.11	13.108	13.107	13.107	12.83	12.848	12.825	12.825
Culv 19	Railway	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000	0.00	0.000	0.000	0.000
Culv 2	Dwinell Drive	11.31	11.350	11.303	11.302	11.30	11.337	11.284	11.251	0.00	11.308	0.000	0.000
Culv 3	Perron Hill Road	6.75	9.816	6.604	6.578	6.21	9.556	6.035	6.014	4.84	6.417	4.644	4.655
Culv 4	Aldrich Lane	9.45	11.522	9.257	9.237	8.83	10.737	8.658	8.635	7.42	9.050	7.193	7.211
Culv 5	Still Hill Road	7.78	9.019	7.966	7.612	7.01	8.515	6.877	6.861	5.71	6.659	5.562	5.575
Culv 6	School Street	10.38	10.508	10.354	11.853	12.86	10.457	12.827	12.825	8.41	10.133	8.153	8.174
Culv 7	Bean Hill Road	14.44	12.650	7.348	7.340	6.93	12.613	6.833	6.819	6.06	6.668	5.982	5.987
Culv 8	Glover Road	7.37	7.531	7.310	7.298	7.11	7.523	7.032	7.023	6.02	6.923	5.885	5.896
Culv 9	Talbot Lane	8.27	8.335	8.278	8.278	8.06	8.315	8.045	8.042	7.25	7.949	7.069	7.085
Farm Bridge	Farm Bridge	5.27	5.268	5.268	5.268	5.09	5.087	5.087	5.087	4.63	4.633	4.633	4.633

