

ATTACHMENT A
Figures

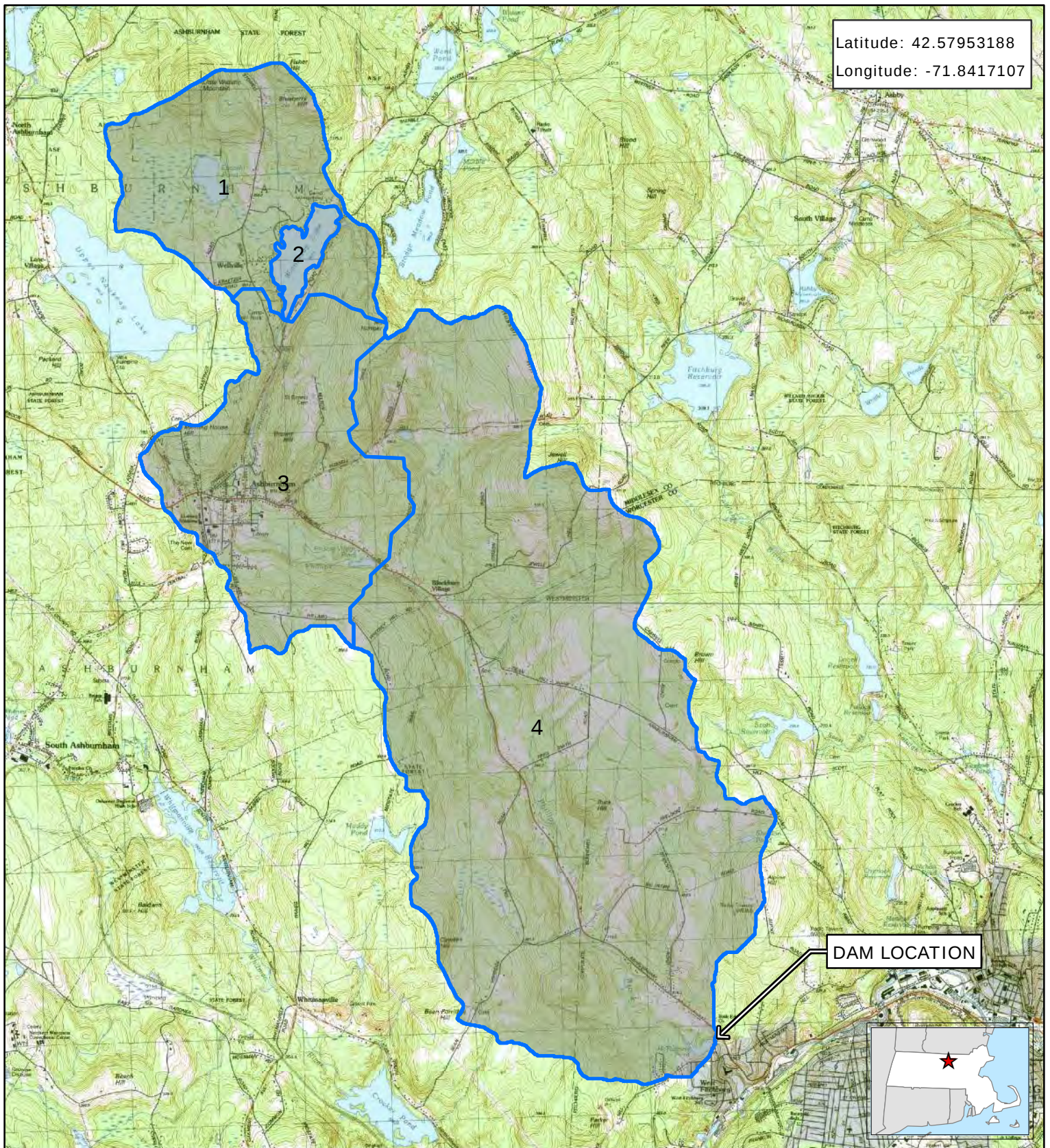


FIGURE 1
SITE AERIAL OVERVIEW

McTaggart's Pond Dam
Fitchburg, Massachusetts

June 2019

Latitude: 42.57953188
Longitude: -71.8417107



Legend

 HEC-HMS Sub-Drainage Areas (number indicated sub-basin ID)

Tighe&Bond
Engineers | Environmental Specialists

Based on USGS Topographic Map for
Ashburnham, MA Revised 1988.
Ashby, MA Revised 1988.
Gardner, MA Revised 1988.
Fitchburg, MA 1988.

1:60,000
0 2,500 5,000
Feet



FIGURE 2
DRAINAGE AREA MAP

McTaggart's Pond Dam
Fitchburg, Massachusetts

June 2019

ATTACHMENT B
HEC-HMS Model Input/Output

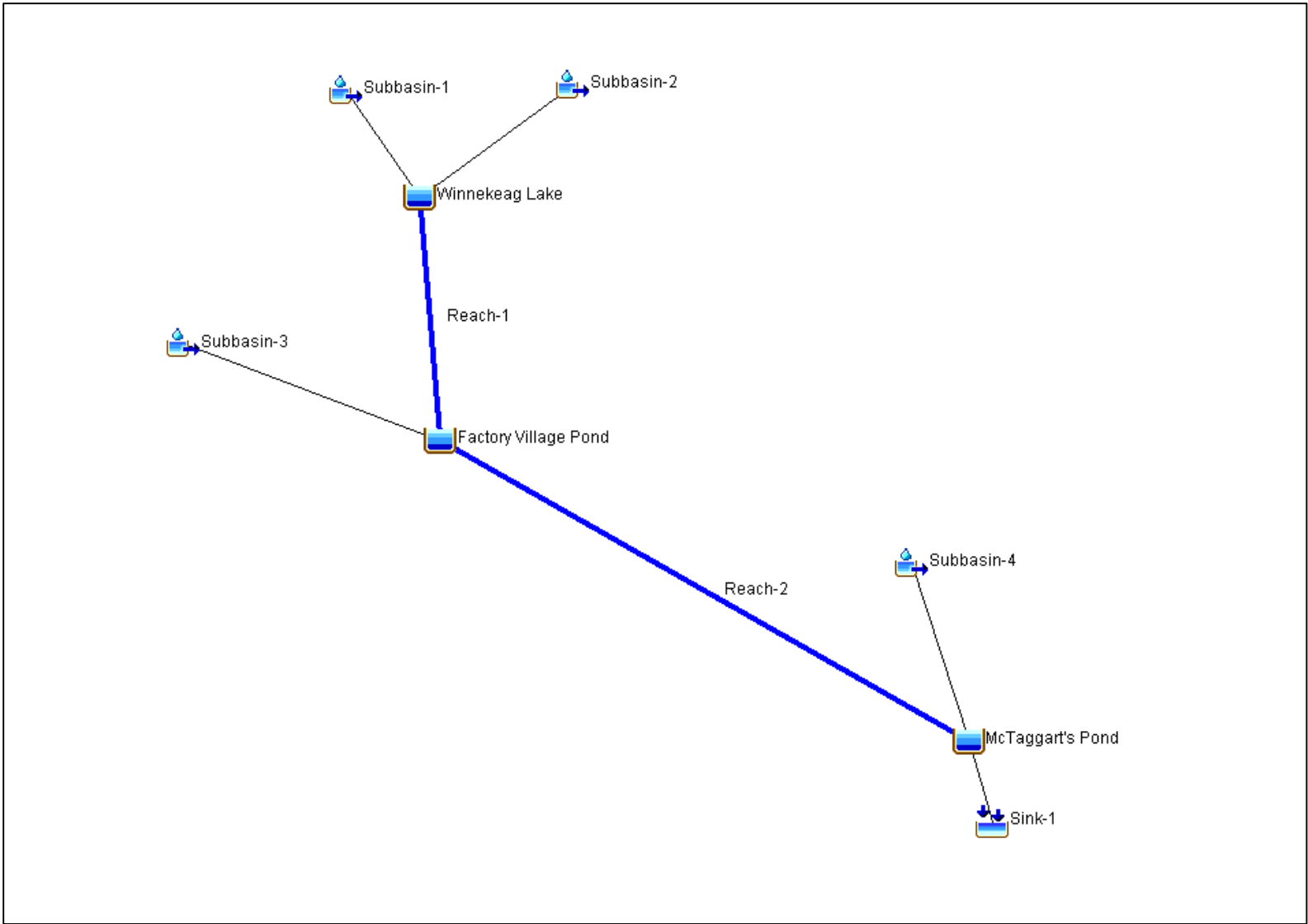


FIGURE B-1
HEC-HMS Model Schematic

1 Basin: Original w. ACT
2 Description: Original Condition with Adjusted CN & Tc (10% & 5%)
3 Last Modified Date: 8 February 2019
4 Last Modified Time: 15:29:16
5 Version: 4.2.1
6 Filepath Separator: \
7 Unit System: English
8 Missing Flow To Zero: No
9 Enable Flow Ratio: No
10 Compute Local Flow At Junctions: No
11
12 Enable Sediment Routing: No
13
14 Enable Quality Routing: No
15 End:
16
17 Subbasin: Subbasin-4
18 Description: McTaggarts
19 Last Modified Date: 7 February 2019
20 Last Modified Time: 22:05:01
21 Canvas X: 1590.5631659056307
22 Canvas Y: -1027.3972602739732
23 Area: 10.25
24 Downstream: McTaggart's Pond
25
26 Canopy: None
27 Allow Simultaneous Precip Et: No
28 Plant Uptake Method: None
29
30 Surface: None
31
32 LossRate: SCS
33 Percent Impervious Area: 0.0
34 Curve Number: 65.17
35
36 Transform: SCS
37 Lag: 141.48
38 Unitgraph Type: STANDARD
39
40 Baseflow: None
41 End:
42
43 Subbasin: Subbasin-3
44 Description: FactoryVillage
45 Last Modified Date: 7 February 2019
46 Last Modified Time: 22:05:01
47 Canvas X: -6050.505050505051
48 Canvas Y: 1282.8282828282831
49 Label X: 0.0
50 Label Y: -1.0
51 Area: 2.87
52 Downstream: Factory Village Pond
53
54 Canopy: None
55 Allow Simultaneous Precip Et: No
56 Plant Uptake Method: None
57
58 Surface: None
59
60 LossRate: SCS
61 Percent Impervious Area: 0.0
62 Curve Number: 66.40
63
64 Transform: SCS
65 Lag: 76.15
66 Unitgraph Type: STANDARD
67
68 Baseflow: None
69 End:

70
71 Subbasin: Subbasin-1
72 Description: Winnekeag
73 Last Modified Date: 7 February 2019
74 Last Modified Time: 22:05:01
75 Canvas X: -4353.535353535354
76 Canvas Y: 3929.2929292929293
77 Area: 2.14
78 Downstream: Winnekeag Lake
79
80 Canopy: None
81 Allow Simultaneous Precip Et: No
82 Plant Uptake Method: None
83
84 Surface: None
85
86 LossRate: SCS
87 Percent Impervious Area: 0.0
88 Curve Number: 68.02
89
90 Transform: SCS
91 Lag: 47.66
92 Unitgraph Type: STANDARD
93
94 Baseflow: None
95 End:
96
97 Subbasin: Subbasin-2
98 Description: WinnekeagLake
99 Last Modified Date: 7 February 2019
100 Last Modified Time: 22:05:01
101 Canvas X: -1969.69696969697
102 Canvas Y: 3989.89898989899
103 Area: 0.18
104 Downstream: Winnekeag Lake
105
106 Canopy: None
107 Allow Simultaneous Precip Et: No
108 Plant Uptake Method: None
109
110 Surface: None
111
112 LossRate: SCS
113 Percent Impervious Area: 0.0
114 Curve Number: 98.00
115
116 Transform: SCS
117 Lag: 1.00
118 Unitgraph Type: STANDARD
119
120 Baseflow: None
121 End:
122
123 Reservoir: Winnekeag Lake
124 Last Modified Date: 6 February 2019
125 Last Modified Time: 15:18:20
126 Canvas X: -3565.6565656565663
127 Canvas Y: 2818.1818181818185
128 Downstream: Reach-1
129
130 Route: Controlled Outflow
131 Routing Curve: Elevation-Storage
132 Initial Outflow Equals Inflow: Yes
133 Elevation-Storage Table: Winnekeag Lake
134 Adaptive Control: On
135 Main Tailwater Condition: None
136 Auxiliary Tailwater Condition: None
137
138 Spillway: Broad-Crested Spillway

139 Spillway Outlet: Main
140 Spillway Crest Length: 27.9
141 Spillway Crest Elevation: 1125.26
142 Spillway Coefficient: 2.5
143 End Spillway:
144
145 Dam Top: Level Dam
146 Dam Top Outlet: Main
147 Overflow Coefficient: 2.5
148 Top Length: 262
149 Top Elevation: 1131.95
150 End Dam Top:
151
152 Evaporation Method: Zero Evaporation
153 End Evaporation:
154 End:
155
156 Reach: Reach-1
157 Last Modified Date: 31 December 2018
158 Last Modified Time: 16:20:52
159 Canvas X: -3363.636363636364
160 Canvas Y: 252.52525252525265
161 From Canvas X: -3565.6565656565663
162 From Canvas Y: 2818.1818181818185
163 Downstream: Factory Village Pond
164
165 Route: Muskingum Cunge
166 Channel: Trapezoid
167 Length: 13810
168 Energy Slope: 0.013133
169 Mannings n: 0.05
170 Bottom Width: 20
171 Side Slope: 1
172 Use Variable Time Step: No
173 Channel Loss: None
174 End:
175
176 Reservoir: Factory Village Pond
177 Last Modified Date: 6 February 2019
178 Last Modified Time: 15:17:12
179 Canvas X: -3363.636363636364
180 Canvas Y: 252.52525252525265
181 Downstream: Reach-2
182
183 Route: Controlled Outflow
184 Routing Curve: Elevation-Storage
185 Initial Elevation: 918.64
186 Elevation-Storage Table: Factory Village Pond
187 Adaptive Control: On
188 Main Tailwater Condition: None
189 Auxiliary Tailwater Condition: None
190
191 Spillway: Ogee Spillway
192 Spillway Outlet: Main
193 Spillway Crest Length: 18.8
194 Spillway Crest Elevation: 917.9
195 Spillway Design Head: 18
196 Spillway Apron Elevation: 900.87
197 Spillway Apron Width: 18.8
198 Spillway Approach Depth: 910
199 Spillway Approach Loss: 0
200 Number of Spillway Abutments: 2
201 Spillway Abutment Type: Earth Abutment
202 End Spillway:
203
204 Spillway: Broad-Crested Spillway
205 Spillway Outlet: Main
206 Spillway Crest Length: 55
207 Spillway Crest Elevation: 918.9

208 Spillway Coefficient: 2.5
209 End Spillway:
210
211 Spillway: Broad-Crested Spillway
212 Spillway Outlet: Main
213 Spillway Crest Length: 146
214 Spillway Crest Elevation: 924.09
215 Spillway Coefficient: 2.5
216 End Spillway:
217
218 Dam Top: Level Dam
219 Dam Top Outlet: Main
220 Overflow Coefficient: 2.5
221 Top Length: 146
222 Top Elevation: 924.09
223 End Dam Top:
224
225 Evaporation Method: Zero Evaporation
226 End Evaporation:
227 End:
228
229 Reach: Reach-2
230 Last Modified Date: 14 August 2019
231 Last Modified Time: 19:38:42
232 Canvas X: 2249.1909385113267
233 Canvas Y: -2815.5339805825242
234 From Canvas X: -3363.636363636364
235 From Canvas Y: 252.52525252525265
236 Label X: 2.0
237 Label Y: -1.0
238 Downstream: McTaggart's Pond
239
240 Route: Muskingum Cunge
241 Channel: Trapezoid
242 Length: 24927
243 Energy Slope: 0.010645
244 Mannings n: 0.05
245 Bottom Width: 30
246 Side Slope: 1
247 Use Variable Time Step: No
248 Channel Loss: None
249 End:
250
251 Reservoir: McTaggart's Pond
252 Last Modified Date: 14 August 2019
253 Last Modified Time: 19:38:42
254 Canvas X: 2249.1909385113267
255 Canvas Y: -2815.5339805825242
256 Label X: -1.0
257 Label Y: 0.0
258 Downstream: Sink-1
259
260 Route: Controlled Outflow
261 Routing Curve: Elevation-Area
262 Initial Outflow Equals Inflow: Yes
263 Elevation-Area Table: McTaggarts
264 Adaptive Control: On
265 Main Tailwater Condition: None
266 Auxiliary Tailwater Condition: None
267
268 Spillway: Broad-Crested Spillway
269 Spillway Outlet: Main
270 Spillway Crest Length: 160
271 Spillway Crest Elevation: 633.22
272 Spillway Coefficient: 3.57
273 End Spillway:
274
275 Dam Top: Level Dam
276 Dam Top Outlet: Main

277 Overflow Coefficient: 3
278 Top Length: 220
279 Top Elevation: 639
280 End Dam Top:
281
282 Evaporation Method: Zero Evaporation
283 End Evaporation:
284 End:
285
286 Sink: Sink-1
287 Description: Downstream of Spillway
288 Last Modified Date: 12 December 2018
289 Last Modified Time: 16:13:56
290 Canvas X: 2434.343434343433
291 Canvas Y: -3747.4747474747473
292 End:
293
294 Basin Schematic Properties:
295 Last View N: 5000.0
296 Last View S: -5000.0
297 Last View W: -5000.0
298 Last View E: 5000.0
299 Maximum View N: 5000.0
300 Maximum View S: -5000.0
301 Maximum View W: -5000.0
302 Maximum View E: 5000.0
303 Extent Method: Elements
304 Buffer: 0
305 Draw Icons: Yes
306 Draw Icon Labels: Name
307 Draw Map Objects: No
308 Draw Gridlines: No
309 Draw Flow Direction: No
310 Fix Element Locations: No
311 Fix Hydrologic Order: No
312 End:
313

1
2 ALTERNATIVE 1: Partial Removal for Non-Jurisdictional

3 Reservoir: McTaggart's Pond

4 Last Modified Date: 14 August 2019

5 Last Modified Time: 19:37:33

6 Canvas X: 2038.8349514563106

7 Canvas Y: -2799.352750809061

8 Label X: -1.0

9 Label Y: 0.0

10 Downstream: Sink-1

11
12 Route: Controlled Outflow

13 Routing Curve: Elevation-Area

14 Initial Outflow Equals Inflow: Yes

15 Elevation-Area Table: McTaggarts

16 Adaptive Control: On

17 Main Tailwater Condition: None

18 Auxiliary Tailwater Condition: None

19
20 Spillway: Broad-Crested Spillway

21 Spillway Outlet: Main

22 Spillway Crest Length: 160

23 Spillway Crest Elevation: 628.5

24 Spillway Coefficient: 3.57

25 End Spillway:

26
27 Dam Top: Level Dam

28 Dam Top Outlet: Main

29 Overflow Coefficient: 3

30 Top Length: 220

31 Top Elevation: 639

32 End Dam Top:

33
34 Evaporation Method: Zero Evaporation

35 End Evaporation:

36 End:

37
38
39 ALTERNATIVE 2: Full Removal

40 Reservoir: McTaggart's Pond

41 Last Modified Date: 15 August 2019

42 Last Modified Time: 12:23:26

43 Canvas X: 2191.919191919191

44 Canvas Y: -2898.9898989898984

45 Label X: -1.0

46 Label Y: 0.0

47 Downstream: Sink-1

48
49 Route: Controlled Outflow

50 Routing Curve: Elevation-Area

51 Initial Outflow Equals Inflow: Yes

52 Elevation-Area Table: McTaggarts

53 Adaptive Control: On

54 Main Tailwater Condition: None

55 Auxiliary Tailwater Condition: None

56
57 Spillway: Broad-Crested Spillway

58 Spillway Outlet: Main

59 Spillway Crest Length: 70

60 Spillway Crest Elevation: 619

61 Spillway Coefficient: 3

62 End Spillway:

63
64 Spillway: Broad-Crested Spillway

65 Spillway Outlet: Main

66 Spillway Crest Length: 30

67 Spillway Crest Elevation: 626.1

68 Spillway Coefficient: 3

69 End Spillway:

70
71 Spillway: Broad-Crested Spillway
72 Spillway Outlet: Main
73 Spillway Crest Length: 60
74 Spillway Crest Elevation: 633.22
75 Spillway Coefficient: 3
76 End Spillway:
77
78 Dam Top: Level Dam
79 Dam Top Outlet: Main
80 Overflow Coefficient: 3
81 Top Length: 220
82 Top Elevation: 639
83 End Dam Top:
84
85 Evaporation Method: Zero Evaporation
86 End Evaporation:
87 End:
88
89
90
91
92
93

Table B-1

HEC-HMS 100-year Frequency Storm Event Flow Output for Existing Conditions

Hydrologic Element	Drainage Area (mi ²)	Peak Flow (ft ³ /s)	Time to Peak	Volume (Acre-ft)
Subbasin-4	10.25	3952.7	01Jan2000, 14:42	3.04
Subbasin-3	2.87	1746.6	01Jan2000, 13:24	3.28
Subbasin-1	2.14	1844.5	01Jan2000, 12:54	3.49
Subbasin-2	0.18	816.9	01Jan2000, 12:06	6.91
Winnekeag Lake	2.32	329.0	01Jan2000, 15:36	2.18
Reach-1	2.32	328.8	01Jan2000, 16:06	2.09
Factory Village Pond	5.19	1902.3	01Jan2000, 13:36	2.72
Reach-2	5.19	1896.9	01Jan2000, 14:12	2.64
McTaggart's Pond	15.44	5718.3	01Jan2000, 14:30	2.89
Sink-1	15.44	5718.3	01Jan2000, 14:30	2.89

Table B-2

HEC-HMS 100-year Frequency Storm Event Flow Output for Alternative 1 - Partial Dam Removal

Hydrologic Element	Drainage Area (mi ²)	Peak Flow (ft ³ /s)	Time to Peak	Volume (Acre-ft)
Subbasin-4	10.25	3952.7	01Jan2000, 14:42	3.04
Subbasin-3	2.87	1746.6	01Jan2000, 13:24	3.28
Subbasin-1	2.14	1844.5	01Jan2000, 12:54	3.49
Subbasin-2	0.18	816.9	01Jan2000, 12:06	6.91
Winnekeag Lake	2.32	329.0	01Jan2000, 15:36	2.18
Reach-1	2.32	328.8	01Jan2000, 16:06	2.09
Factory Village Pond	5.19	1902.3	01Jan2000, 13:36	2.72
Reach-2	5.19	1896.9	01Jan2000, 14:12	2.64
McTaggart's Pond	15.44	5724.7	01Jan2000, 14:30	2.9
Sink-1	15.44	5724.7	01Jan2000, 14:30	2.9

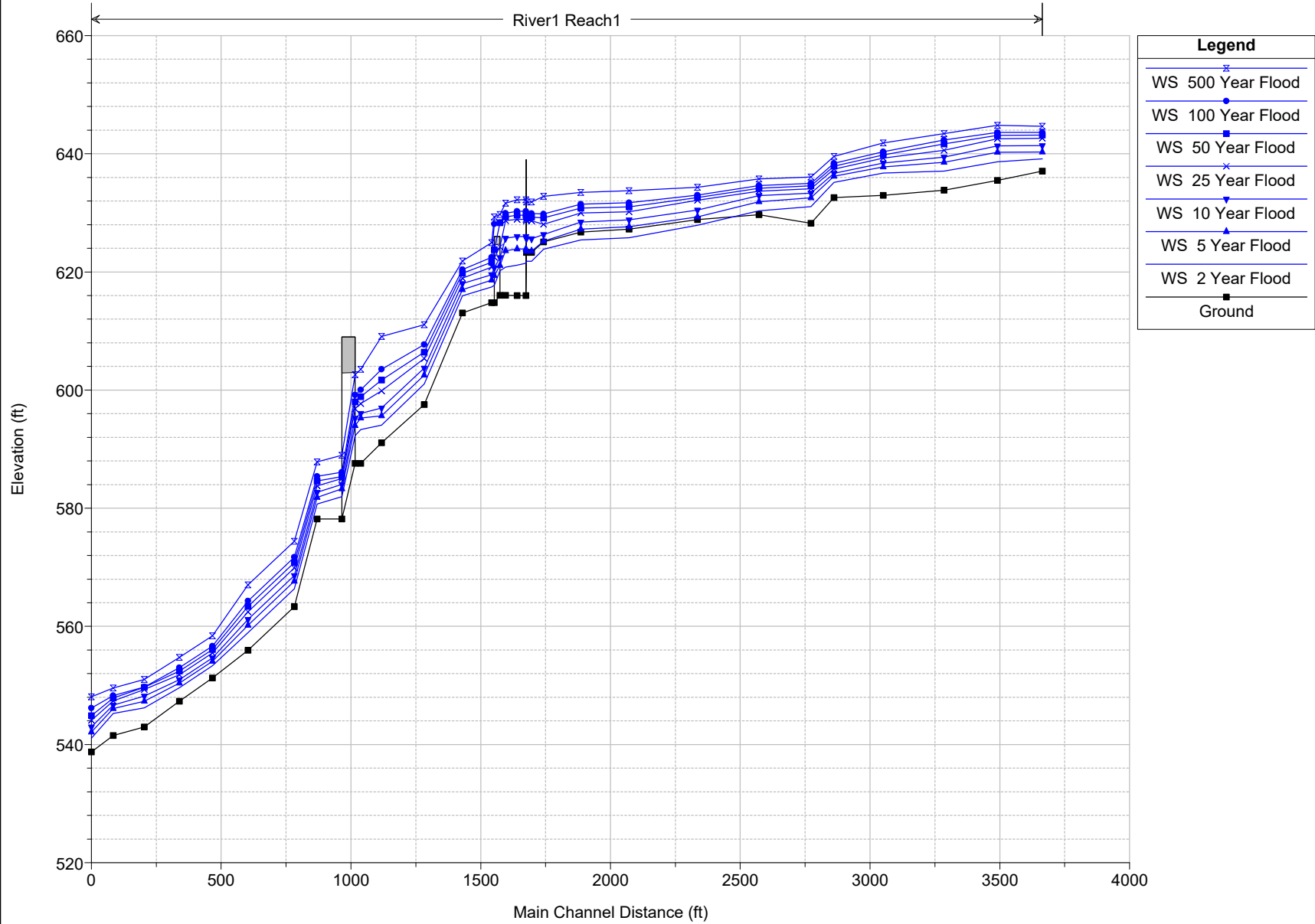
Table B-3

HEC-HMS 100-year Frequency Storm Event Flow Output for Alternative 2 - Full Dam Removal

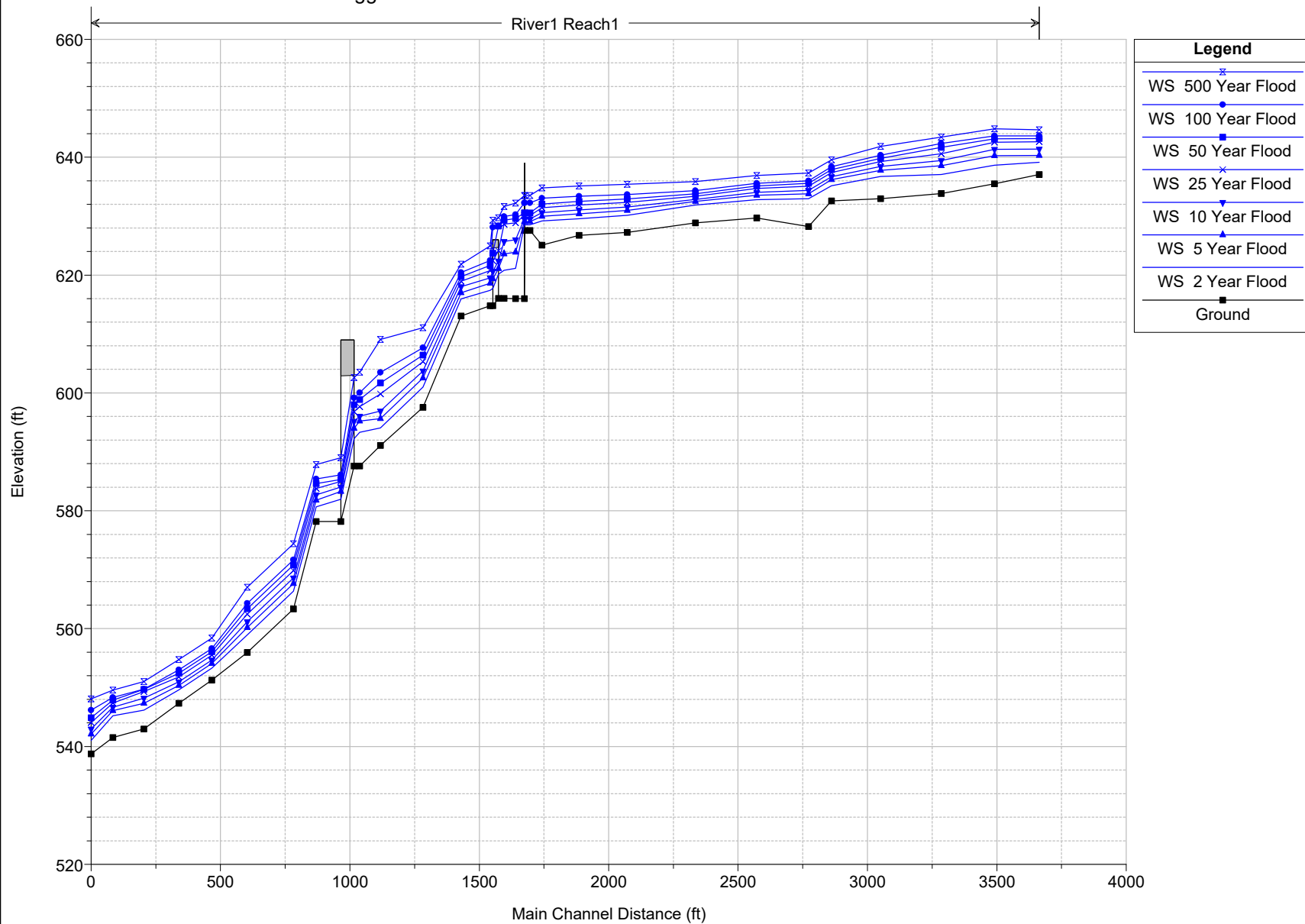
Hydrologic Element	Drainage Area (mi ²)	Peak Flow (ft ³ /s)	Time to Peak	Volume (Acre-ft)
Subbasin-4	10.25	3952.7	01Jan2000, 14:42	3.04
Subbasin-3	2.87	1746.6	01Jan2000, 13:24	3.28
Subbasin-1	2.14	1844.5	01Jan2000, 12:54	3.49
Subbasin-2	0.18	816.9	01Jan2000, 12:06	6.91
Winnekeag Lake	2.32	329.0	01Jan2000, 15:36	2.18
Reach-1	2.32	328.8	01Jan2000, 16:06	2.09
Factory Village Pond	5.19	1902.3	01Jan2000, 13:36	2.72
Reach-2	5.19	1896.9	01Jan2000, 14:12	2.64
McTaggart's Pond	15.44	5730.6	01Jan2000, 14:30	2.9
Sink-1	15.44	5730.6	01Jan2000, 14:30	2.9

ATTACHMENT C
HEC-RAS Results

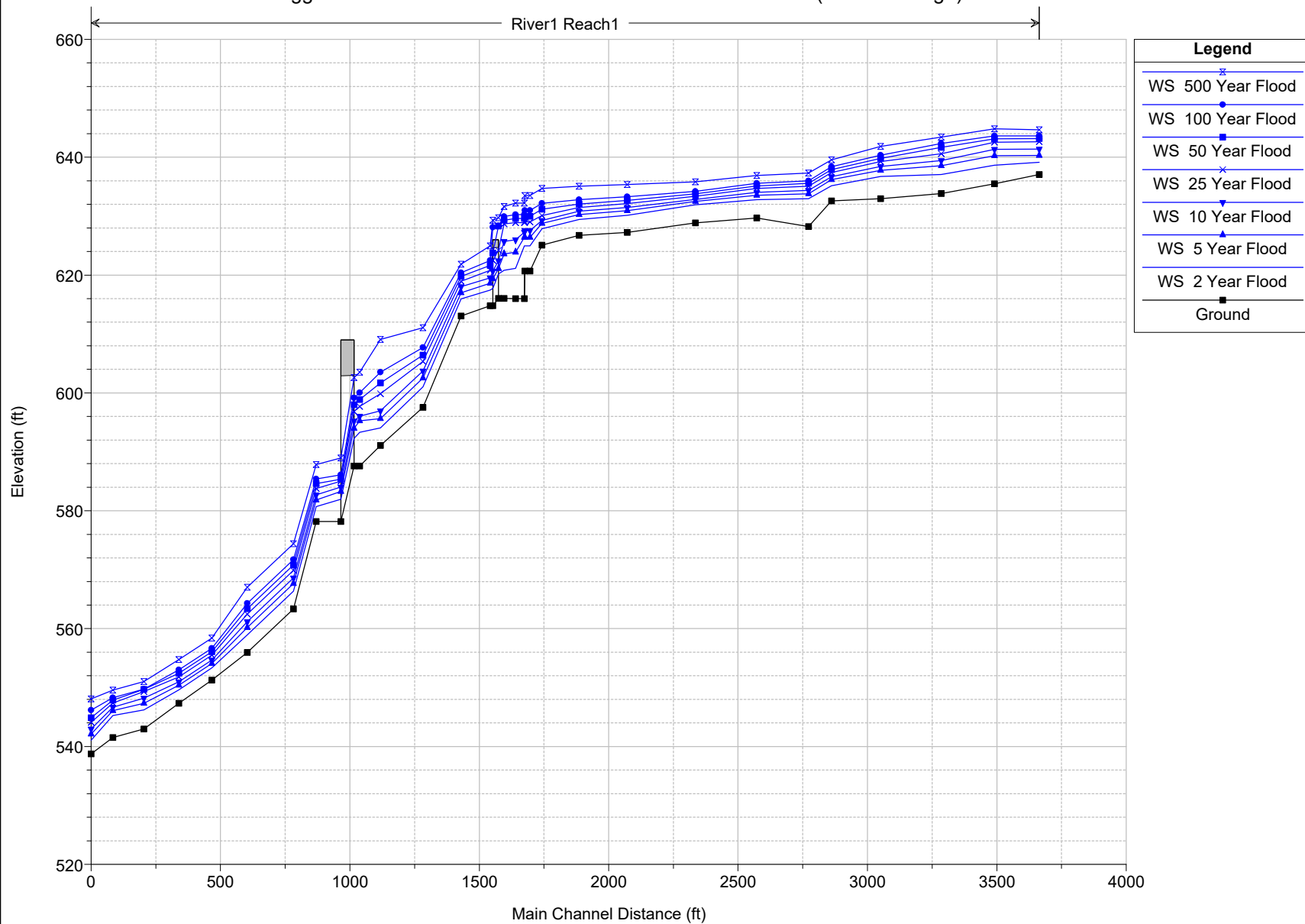
McTaggart Hec-Ras Model 1 Plan: 1) 04 Full Removal w. ACT to Refusal 8/15/2019



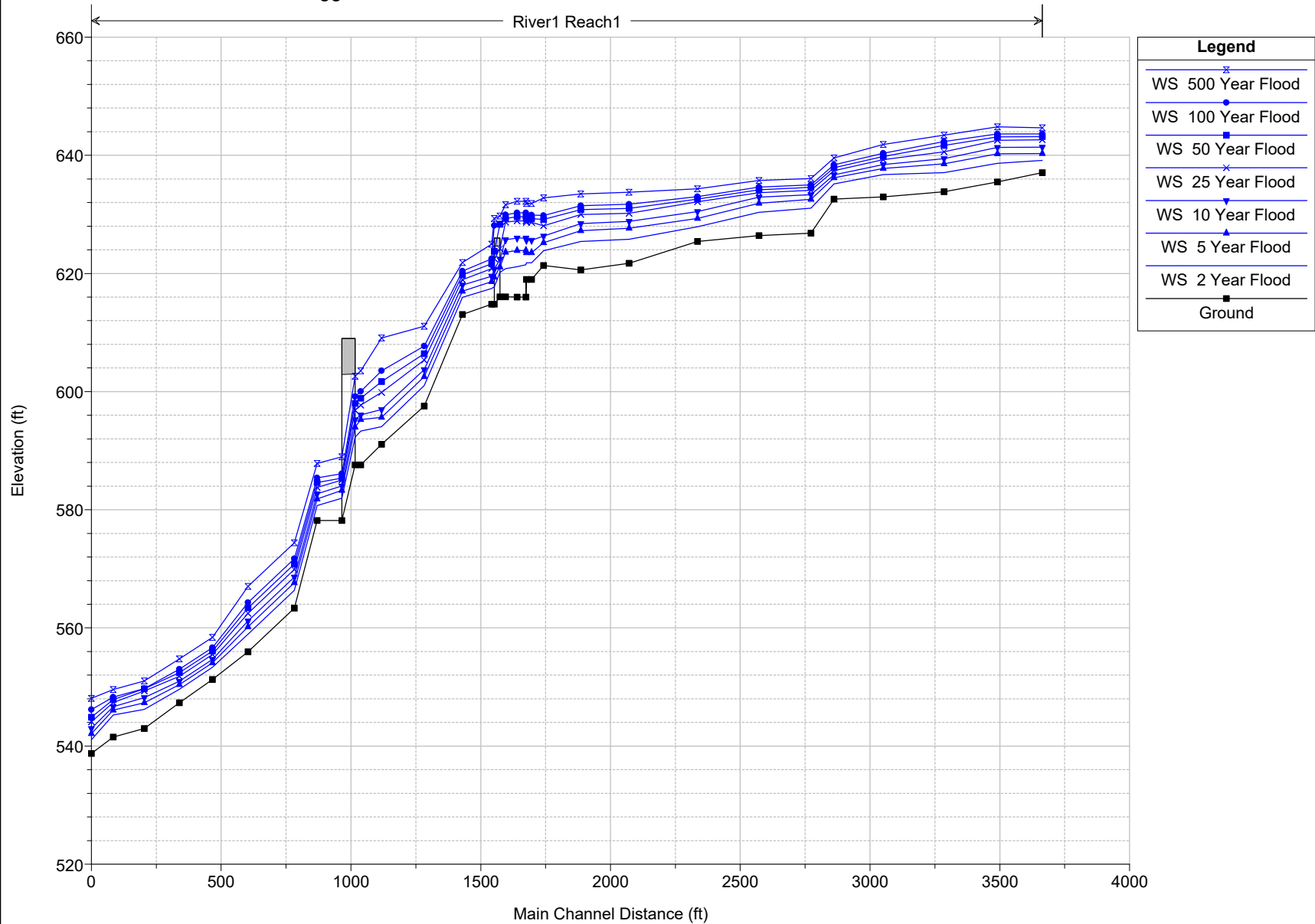
McTaggart Hec-Ras Model 1 Plan: 02 Partial Removal w. ACT 8/14/2019



McTaggart Hec-Ras Model 1 Plan: 03 Full Removal w. ACT (no sed change) 8/15/2019

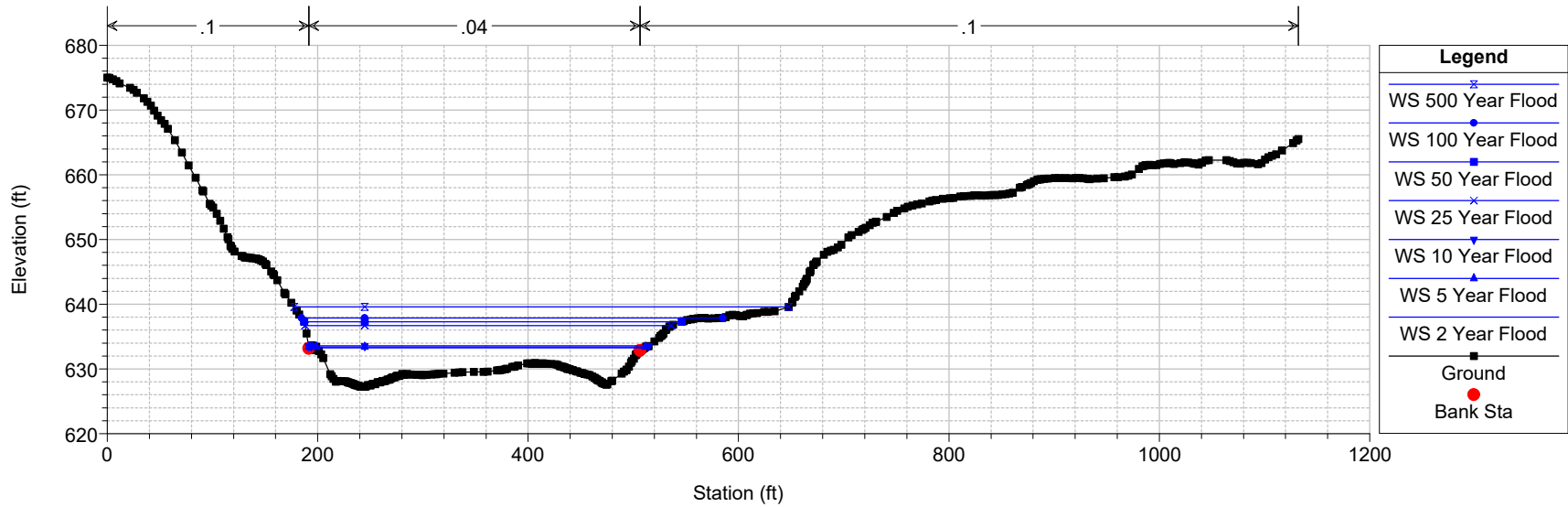


McTaggart Hec-Ras Model 1 Plan: 04 Full Removal w. ACT to Refusal 8/15/2019



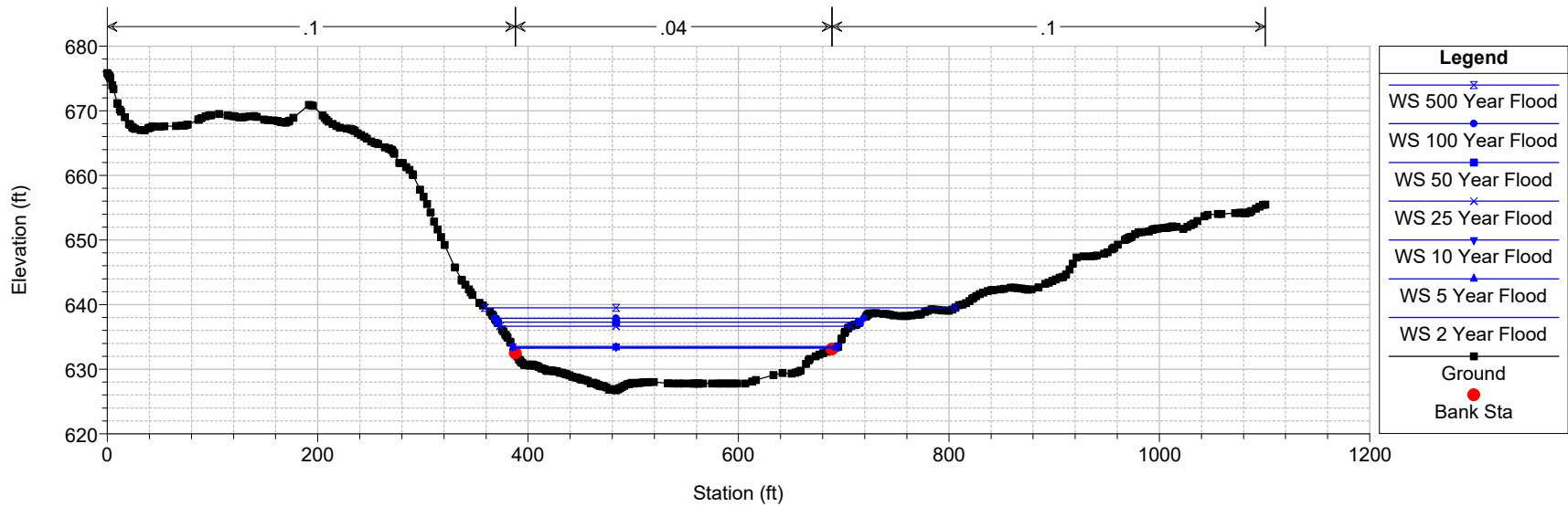
McTaggart Hec-Ras Model 1 Plan: 01 Existing w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 2113.273



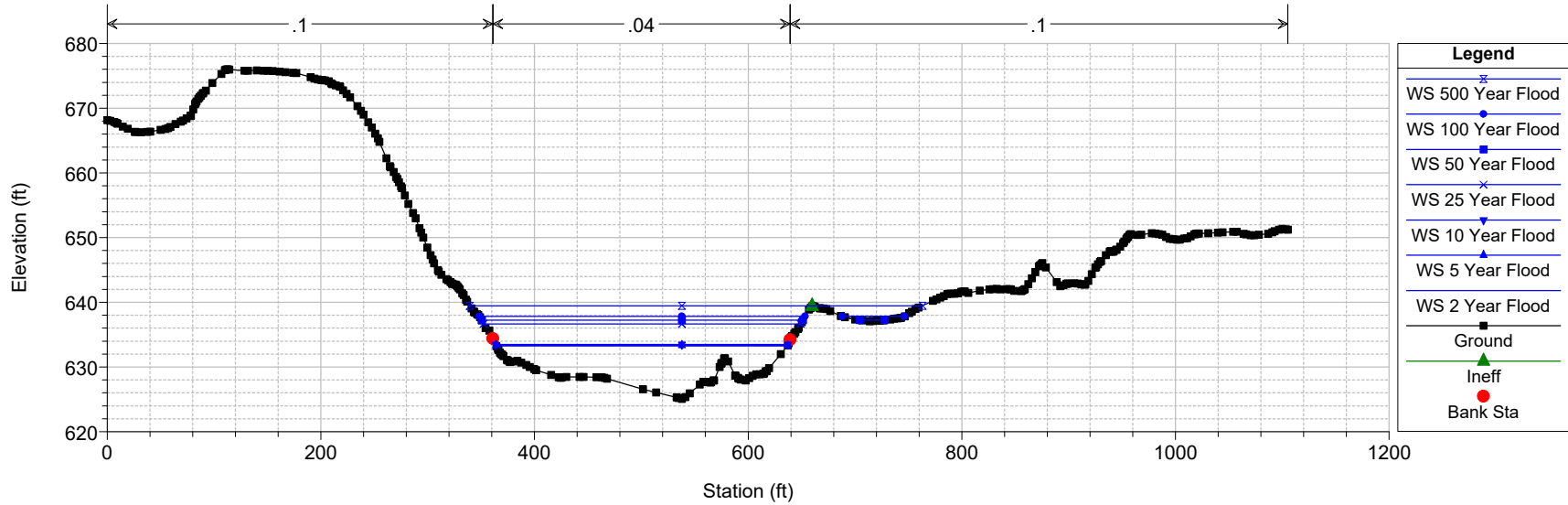
McTaggart Hec-Ras Model 1 Plan: 01 Existing w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 1927.178



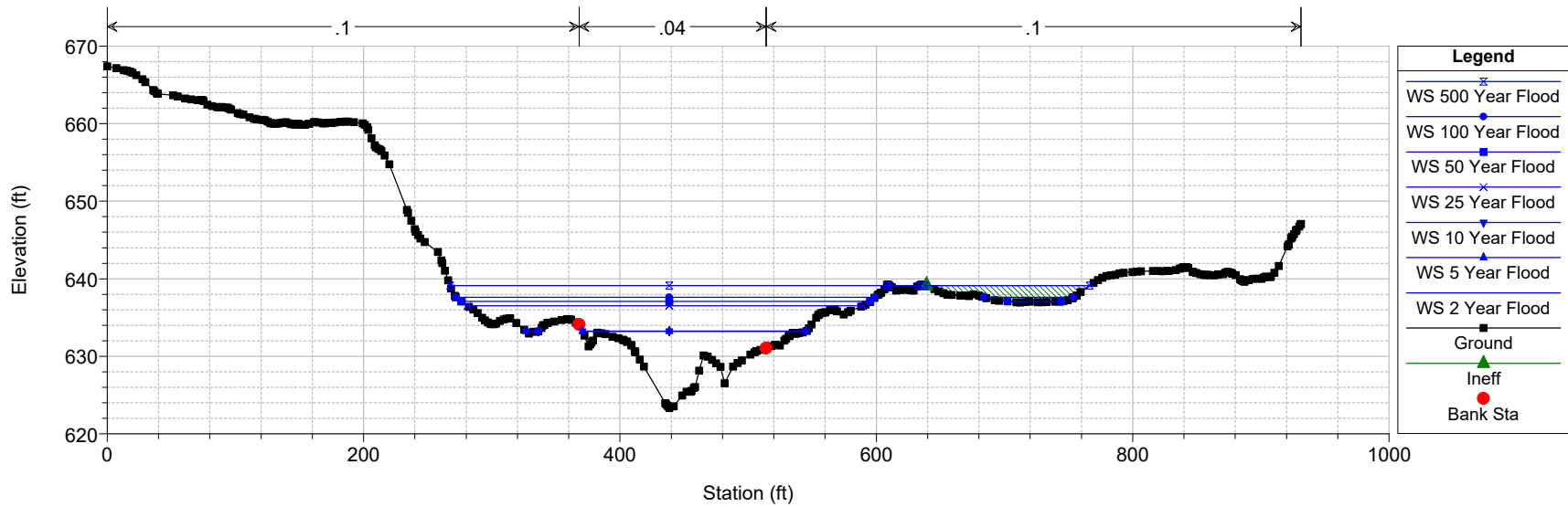
McTaggart Hec-Ras Model 1 Plan: 01 Existing w. ACT 8/14/2019

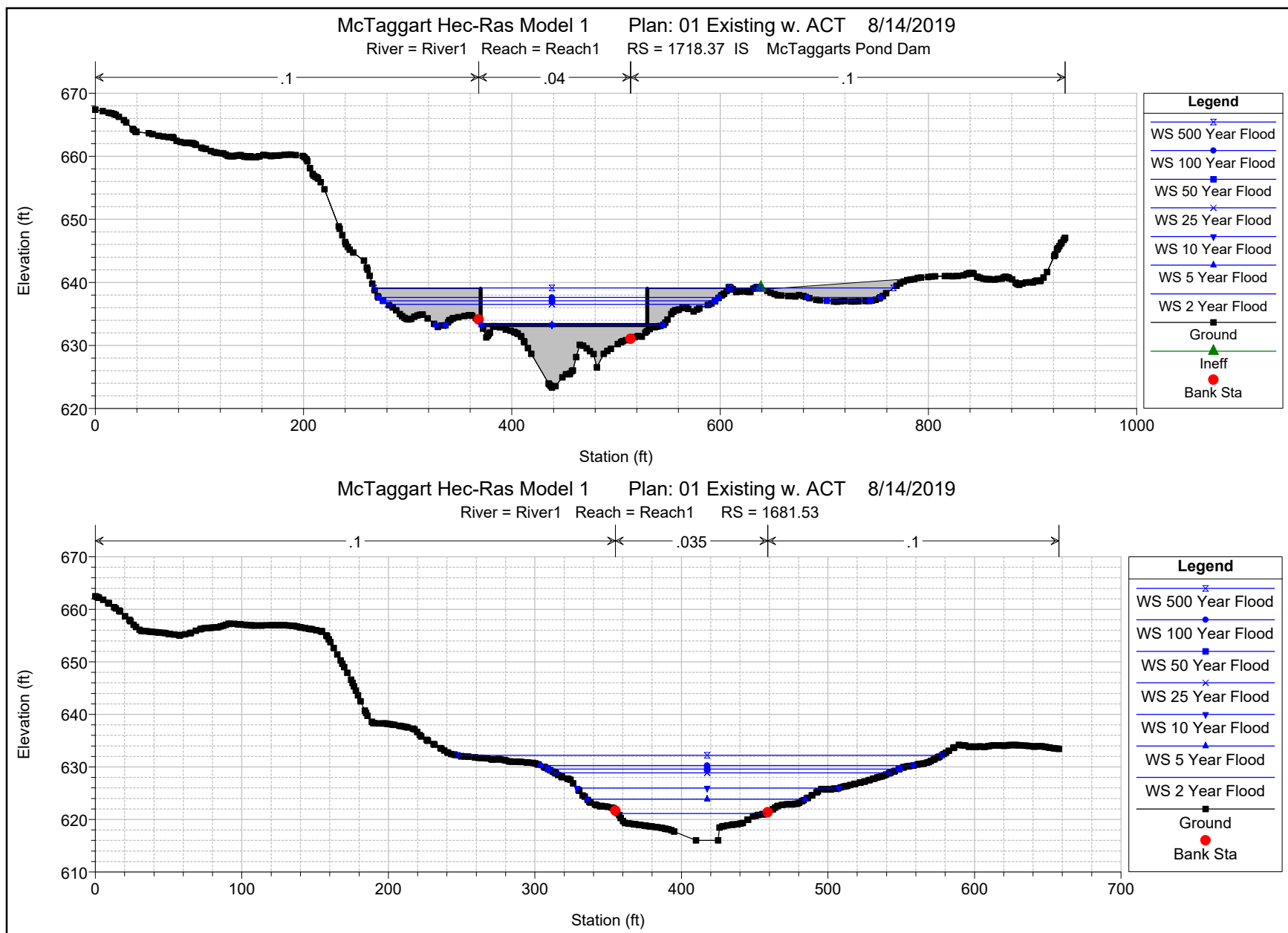
River = River1 Reach = Reach1 RS = 1783.649



McTaggart Hec-Ras Model 1 Plan: 01 Existing w. ACT 8/14/2019

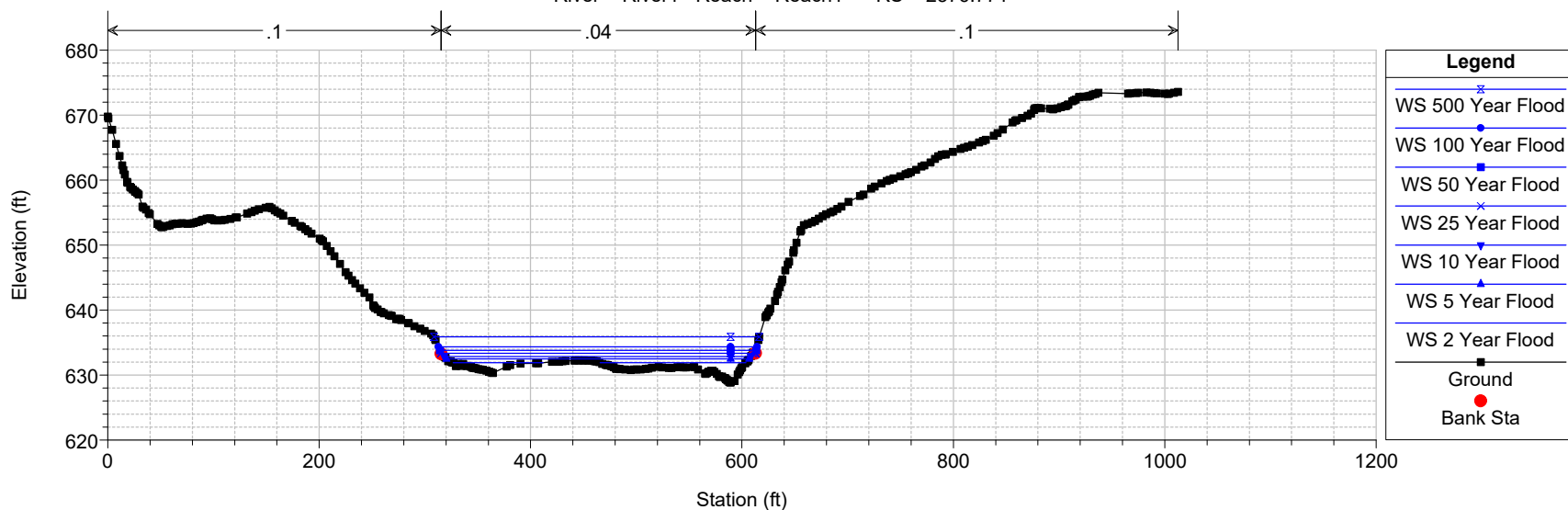
River = River1 Reach = Reach1 RS = 1737.38





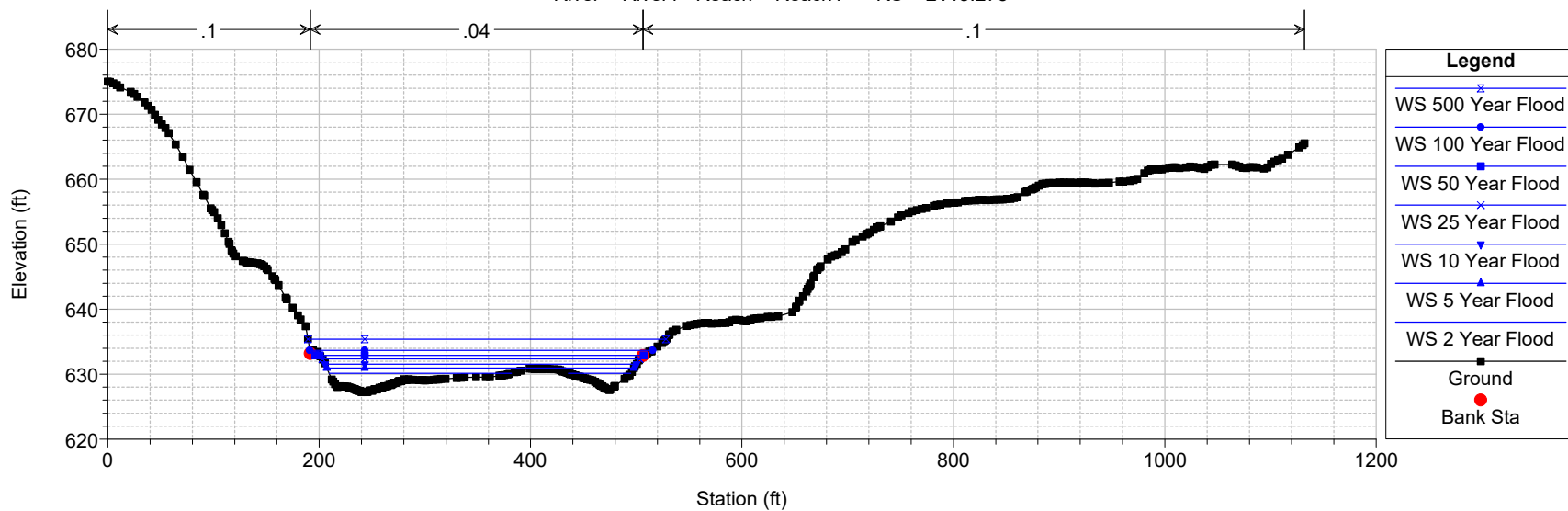
McTaggart Hec-Ras Model 1 Plan: 02 Partial Removal w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 2376.771



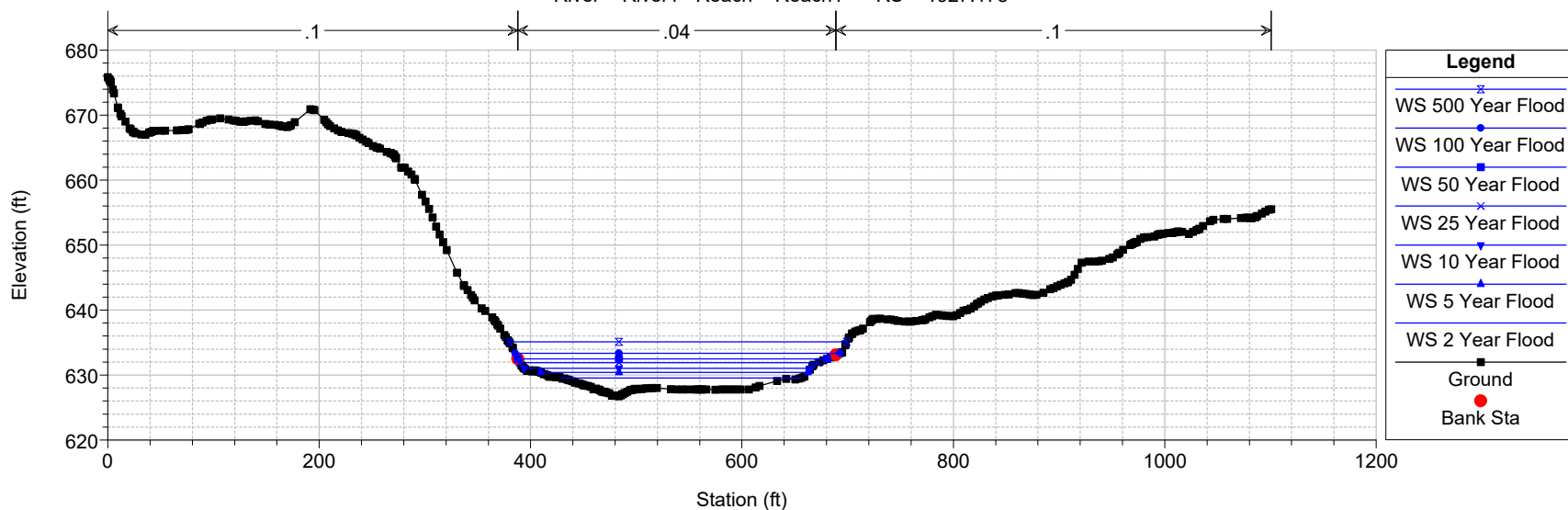
McTaggart Hec-Ras Model 1 Plan: 02 Partial Removal w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 2113.273



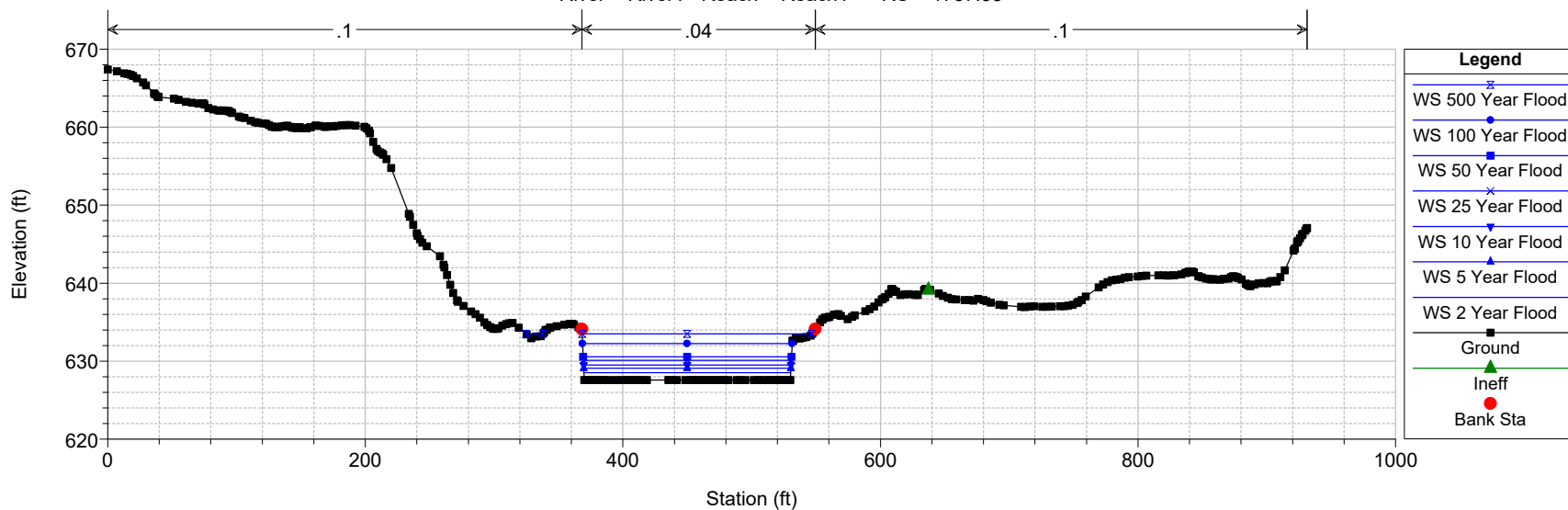
McTaggart Hec-Ras Model 1 Plan: 02 Partial Removal w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 1927.178



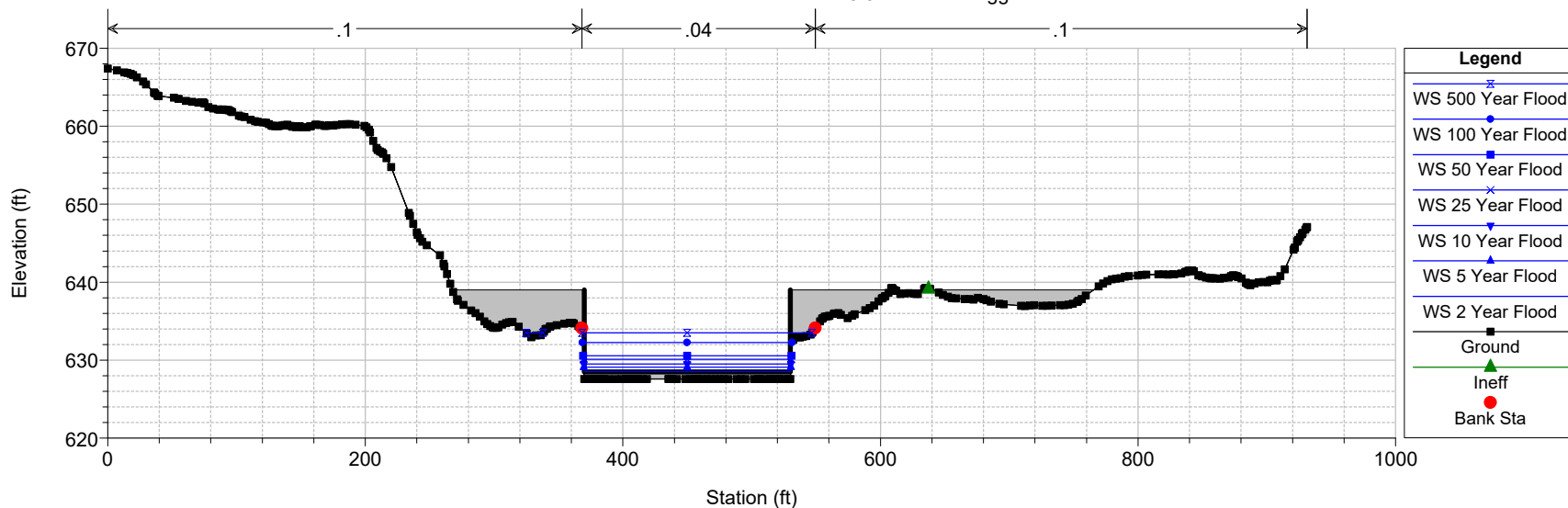
McTaggart Hec-Ras Model 1 Plan: 02 Partial Removal w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 1737.38



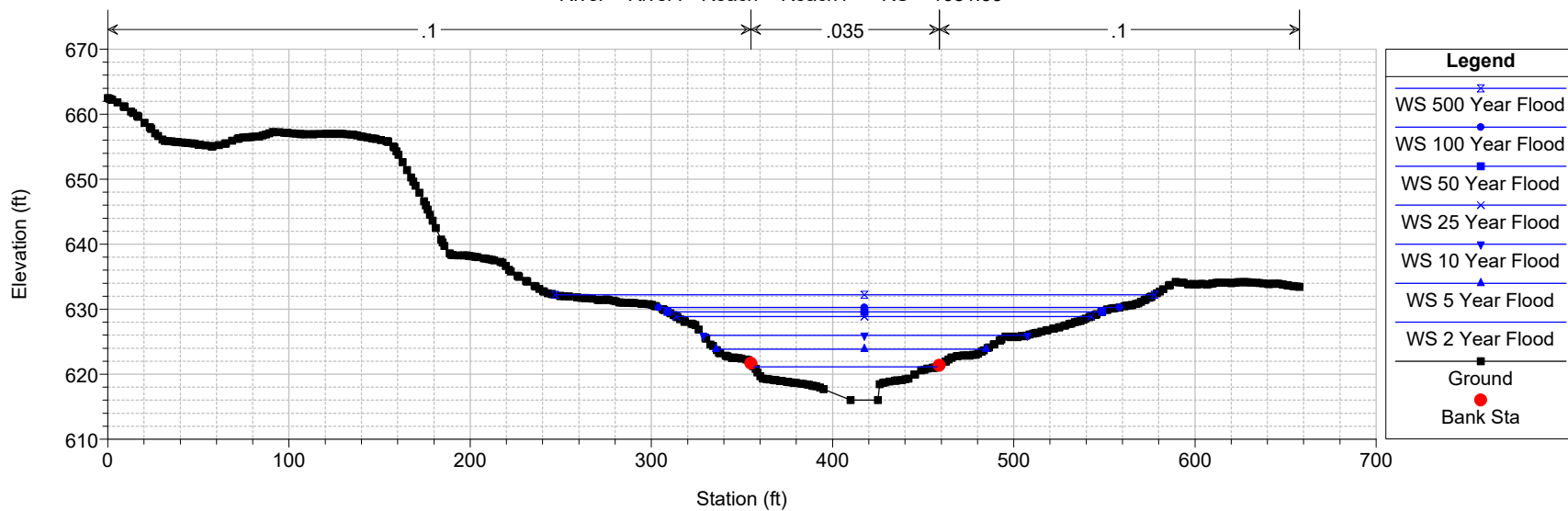
McTaggart Hec-Ras Model 1 Plan: 02 Partial Removal w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 1718.37 IS McTaggarts Pond Dam



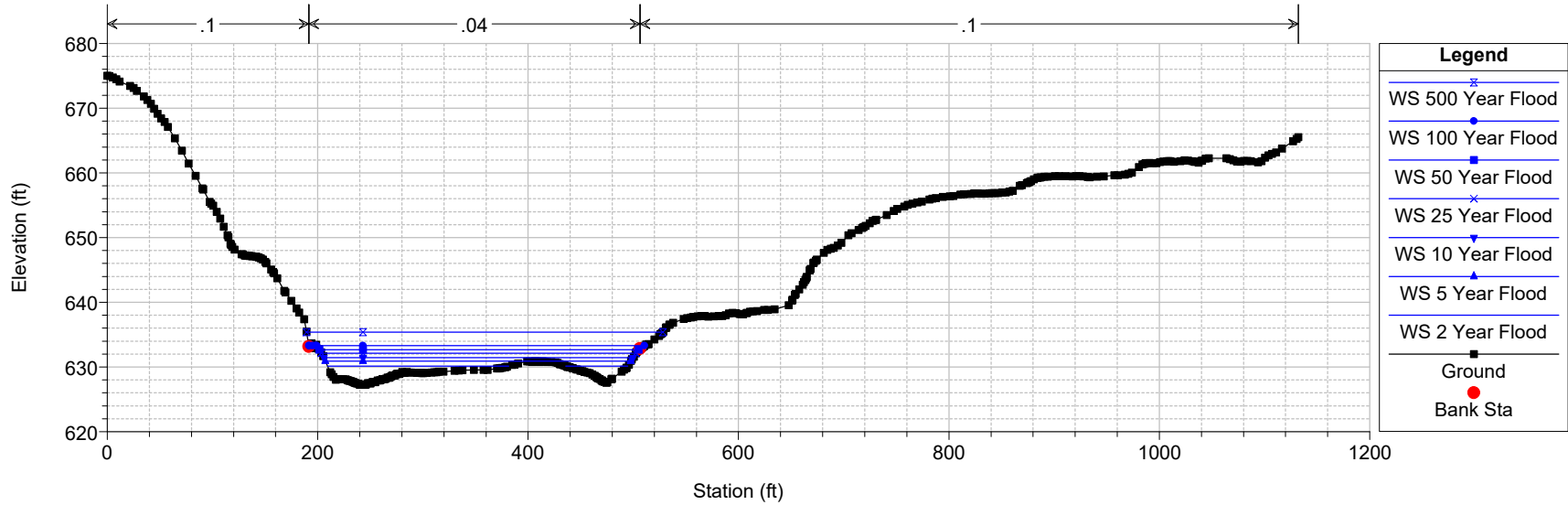
McTaggart Hec-Ras Model 1 Plan: 02 Partial Removal w. ACT 8/14/2019

River = River1 Reach = Reach1 RS = 1681.53



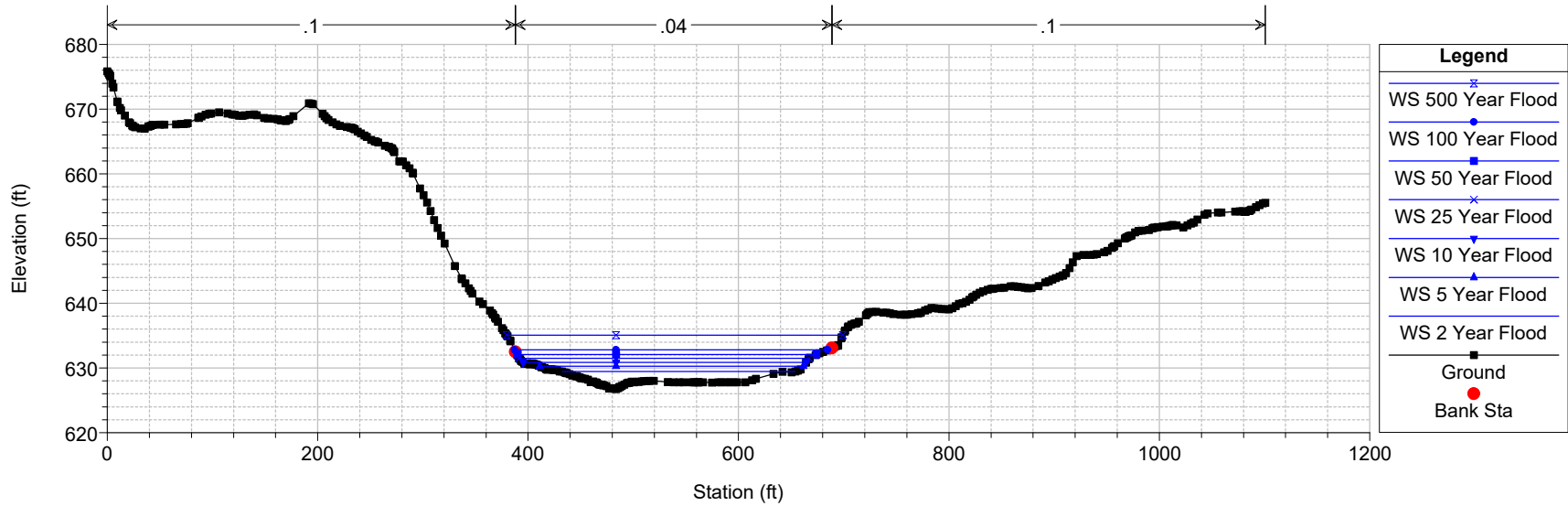
McTaggart Hec-Ras Model 1 Plan: 03 Full Removal w. ACT (no sed change) 8/15/2019

River = River1 Reach = Reach1 RS = 2113.273



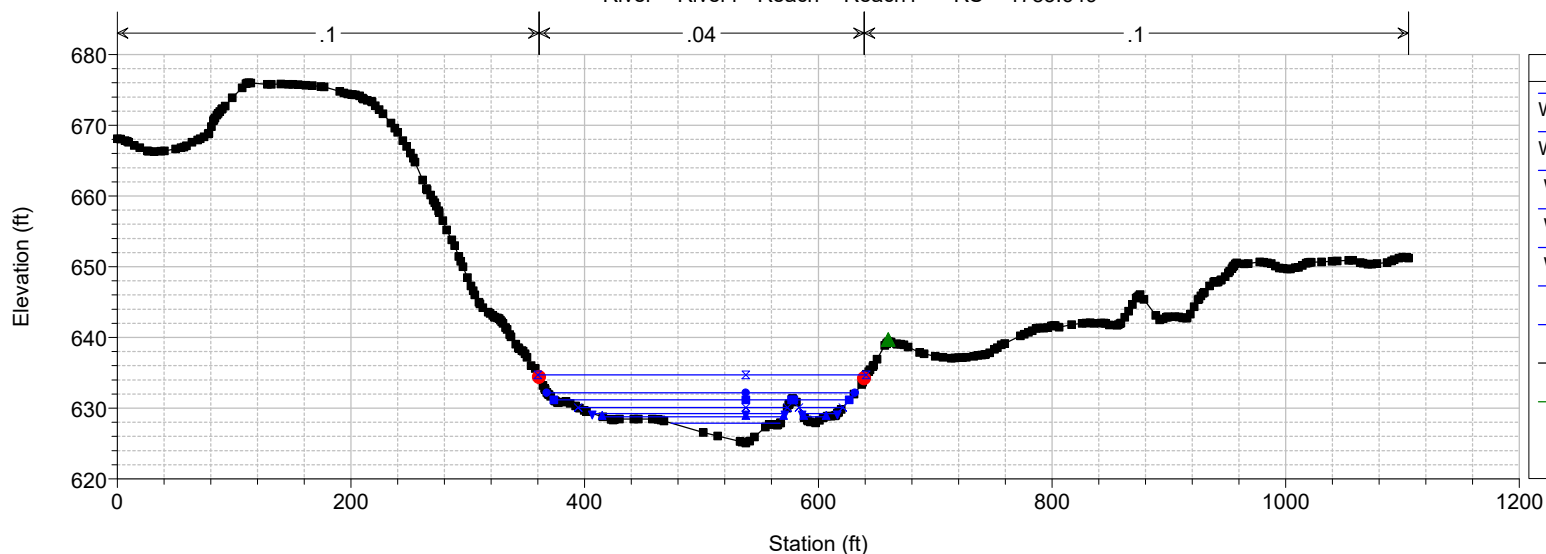
McTaggart Hec-Ras Model 1 Plan: 03 Full Removal w. ACT (no sed change) 8/15/2019

River = River1 Reach = Reach1 RS = 1927.178



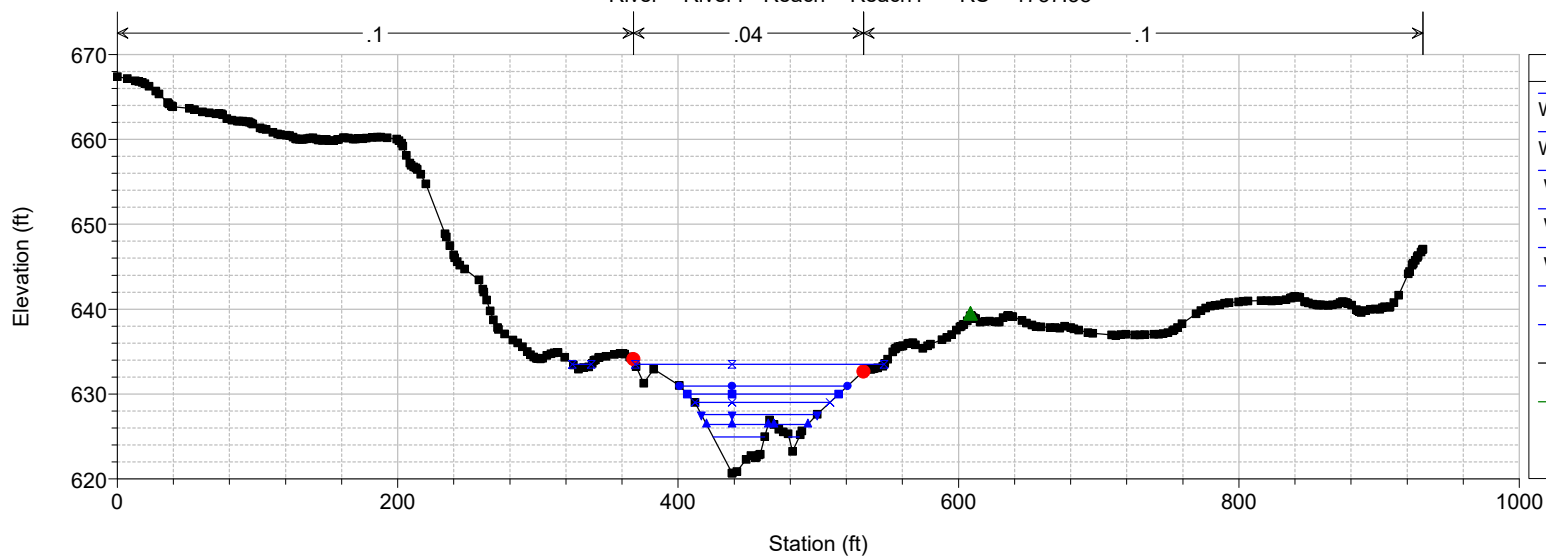
McTaggart Hec-Ras Model 1 Plan: 03 Full Removal w. ACT (no sed change) 8/15/2019

River = River1 Reach = Reach1 RS = 1783.649



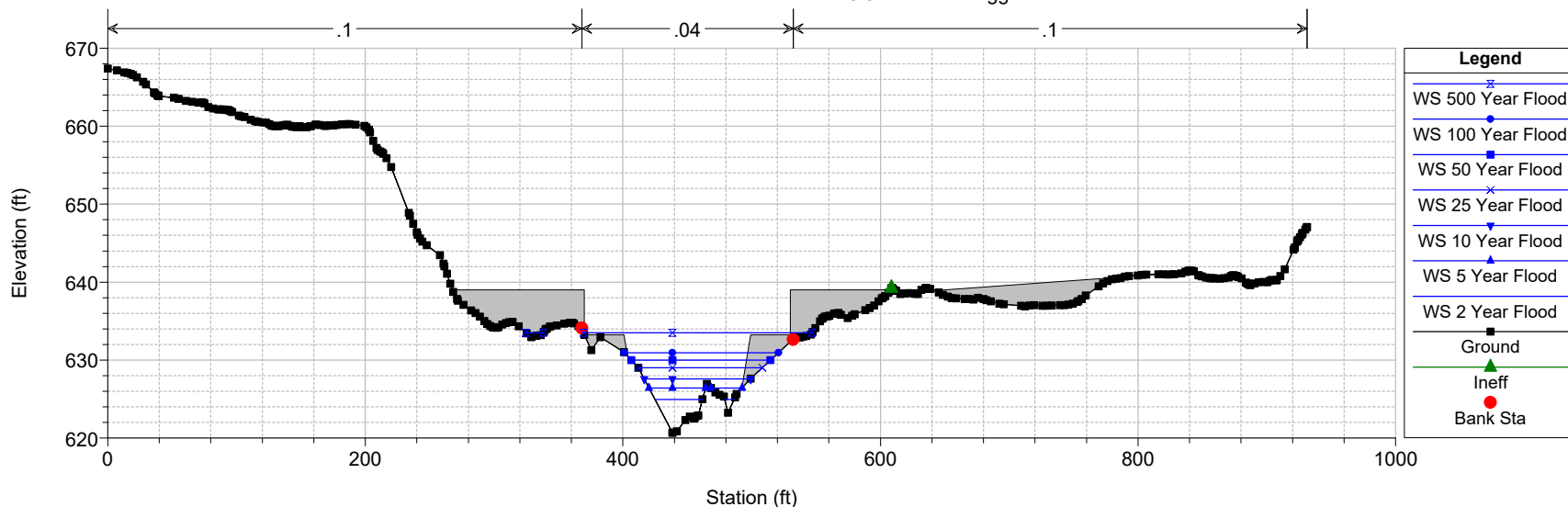
McTaggart Hec-Ras Model 1 Plan: 03 Full Removal w. ACT (no sed change) 8/15/2019

River = River1 Reach = Reach1 RS = 1737.38



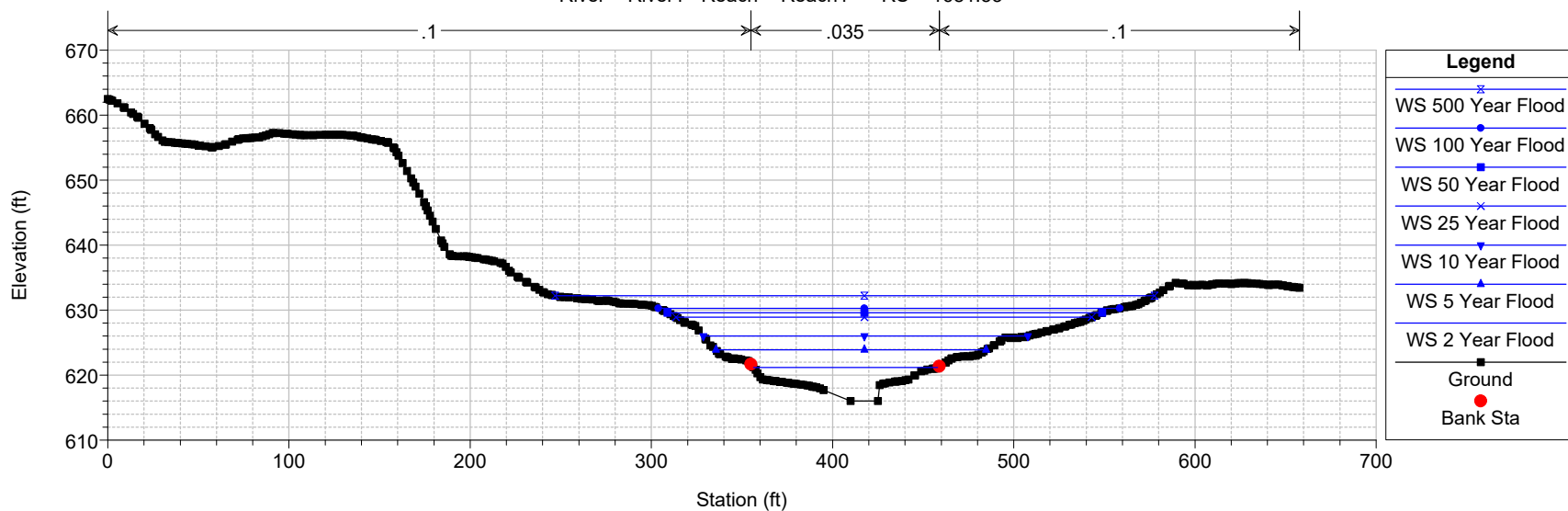
McTaggart Hec-Ras Model 1 Plan: 03 Full Removal w. ACT (no sed change) 8/15/2019

River = River1 Reach = Reach1 RS = 1718.37 IS McTaggarts Pond Dam



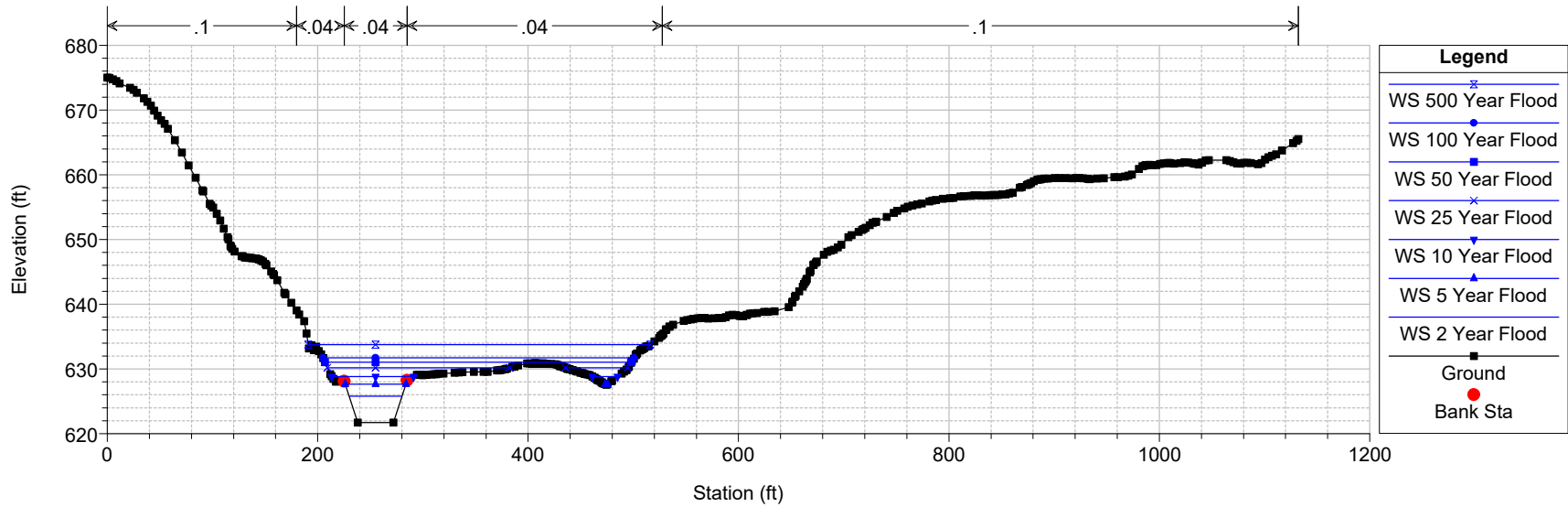
McTaggart Hec-Ras Model 1 Plan: 03 Full Removal w. ACT (no sed change) 8/15/2019

River = River1 Reach = Reach1 RS = 1681.53



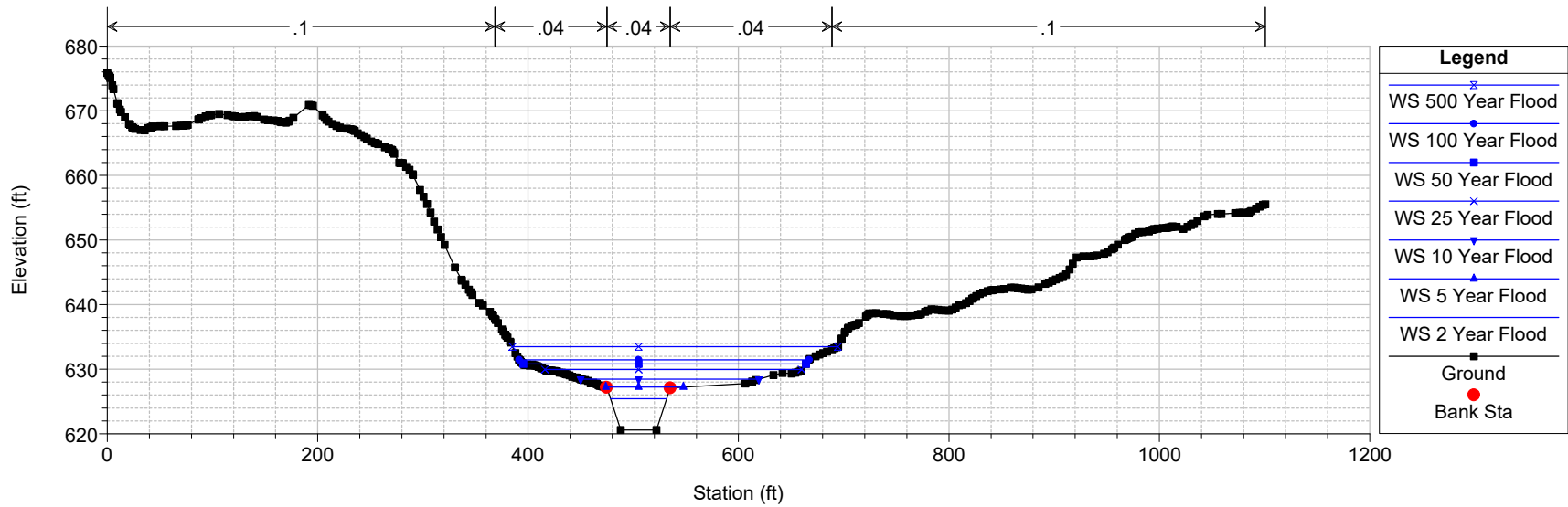
McTaggart Hec-Ras Model 1 Plan: 04 Full Removal w. ACT to Refusal 8/15/2019

River = River1 Reach = Reach1 RS = 2113.273



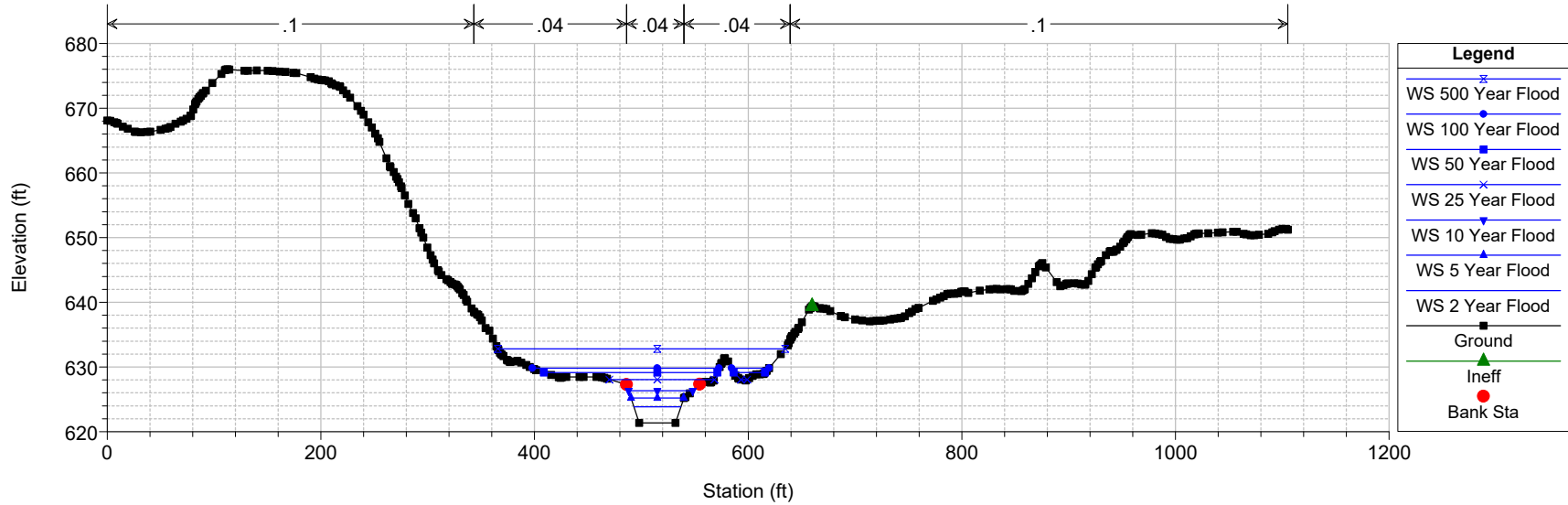
McTaggart Hec-Ras Model 1 Plan: 04 Full Removal w. ACT to Refusal 8/15/2019

River = River1 Reach = Reach1 RS = 1927.178



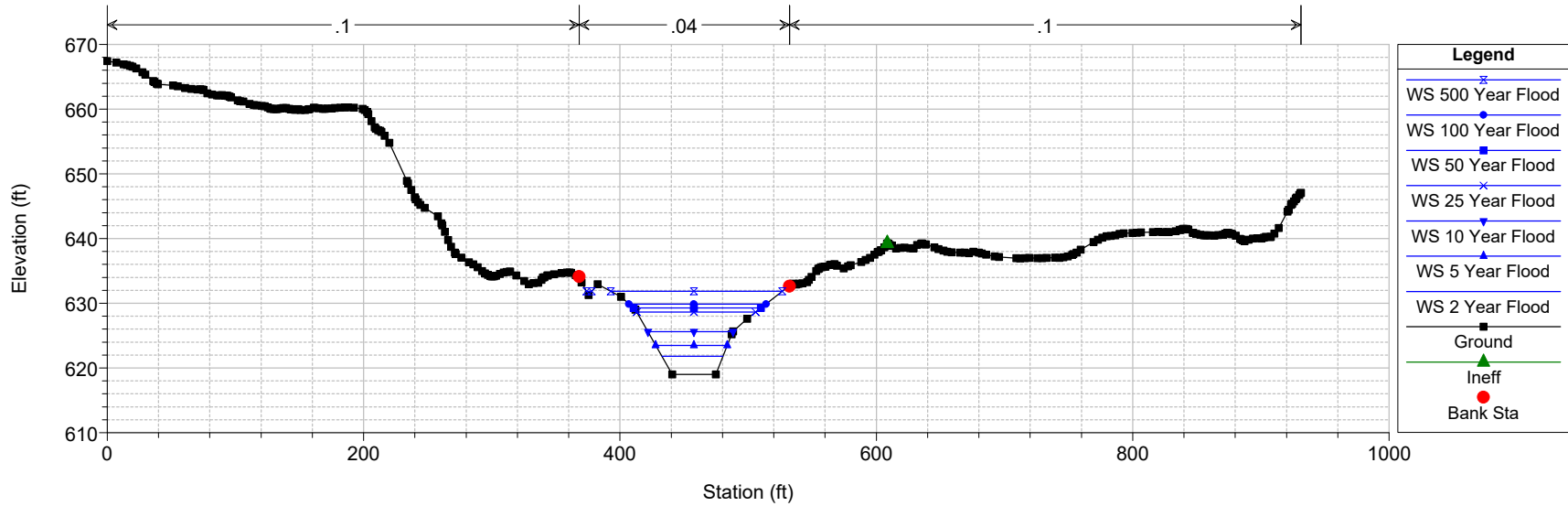
McTaggart Hec-Ras Model 1 Plan: 04 Full Removal w. ACT to Refusal 8/15/2019

River = River1 Reach = Reach1 RS = 1783.649



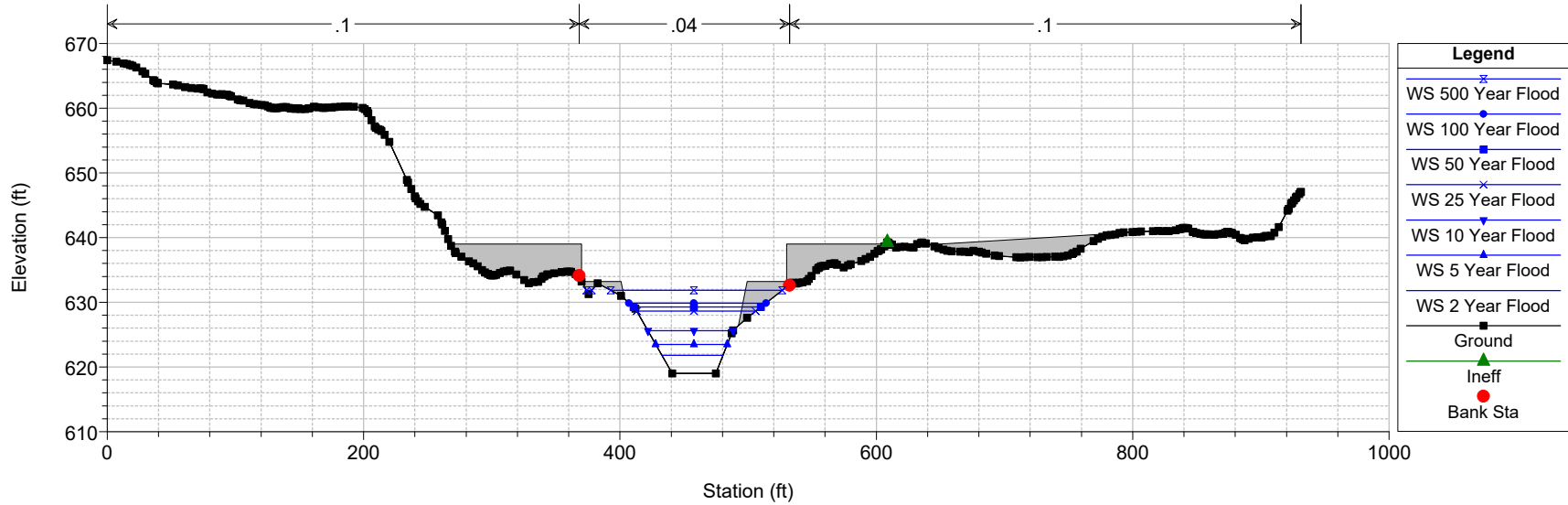
McTaggart Hec-Ras Model 1 Plan: 04 Full Removal w. ACT to Refusal 8/15/2019

River = River1 Reach = Reach1 RS = 1737.38



McTaggart Hec-Ras Model 1 Plan: 04 Full Removal w. ACT to Refusal 8/15/2019

River = River1 Reach = Reach1 RS = 1718.37 IS McTaggarts Pond Dam



McTaggart Hec-Ras Model 1 Plan: 04 Full Removal w. ACT to Refusal 8/15/2019

River = River1 Reach = Reach1 RS = 1681.53

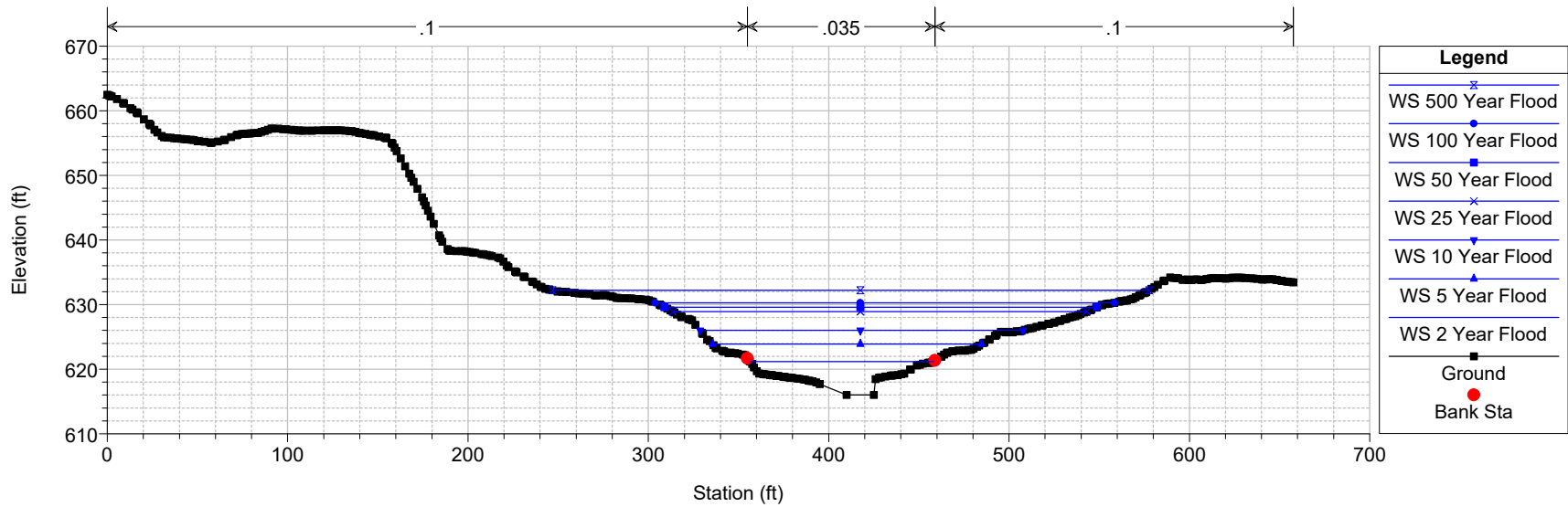


Table C-1

Existing Conditions HEC-RAS Results

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-1987	3705.37	2 Year Flood	818.8	637.08	639.16	639.16	639.82	0.016004	6.55	128.82	110.27	0.99
-1987	3705.37	5 Year Flood	1643.8	637.08	640.32	639.98	641.04	0.007798	6.91	274.87	154.05	0.77
-1987	3705.37	10 Year Flood	2435.6	637.08	641.39		642.08	0.004791	6.87	448.47	166.4	0.64
-1987	3705.37	25 Year Flood	3650.1	637.08	642.61		643.4	0.003813	7.45	678.91	206.13	0.6
-1987	3705.37	50 Year Flood	4657.2	637.08	643.15		644.14	0.004254	8.45	795.56	228.52	0.64
-1987	3705.37	100 Year Flood	5726.7	637.08	643.63		644.83	0.004656	9.36	907.12	234.82	0.68
-1987	3705.37	500 Year Flood	9399.6	637.08	644.67	644.26	646.77	0.006774	12.59	1154.35	243.7	0.85
-1814	3532.84	2 Year Flood	818.8	635.48	638.66		638.81	0.001646	3.18	299.19	152.32	0.35
-1814	3532.84	5 Year Flood	1643.8	635.48	640.25		640.46	0.001186	3.75	551.72	164.13	0.33
-1814	3532.84	10 Year Flood	2435.6	635.48	641.33		641.59	0.001163	4.33	739.77	220.65	0.34
-1814	3532.84	25 Year Flood	3650.1	635.48	642.55		642.92	0.001238	5.15	1116.97	350.54	0.36
-1814	3532.84	50 Year Flood	4657.2	635.48	643.13		643.58	0.001416	5.83	1319.8	354.79	0.39
-1814	3532.84	100 Year Flood	5726.7	635.48	643.64		644.19	0.001606	6.5	1501.16	359.07	0.42
-1814	3532.84	500 Year Flood	9399.6	635.48	644.8		645.76	0.002405	8.77	1926.03	371.96	0.52
-1608	3326.795	2 Year Flood	818.8	633.84	637.06	636.89	638.06	0.008883	8.3	134.64	78.86	0.84
-1608	3326.795	5 Year Flood	1643.8	633.84	638.56	638.56	639.85	0.007418	9.94	301.68	141.48	0.83
-1608	3326.795	10 Year Flood	2435.6	633.84	639.42	639.42	640.96	0.007666	11.34	429.03	164.73	0.86
-1608	3326.795	25 Year Flood	3650.1	633.84	640.58	640.58	642.28	0.007178	12.51	719.39	342.96	0.86
-1608	3326.795	50 Year Flood	4657.2	633.84	641.68	641.68	642.99	0.005188	11.81	1231.69	527.62	0.75
-1608	3326.795	100 Year Flood	5726.7	633.84	642.33	642.33	643.58	0.004907	12.12	1591.9	578.76	0.74
-1608	3326.795	500 Year Flood	9399.6	633.84	643.4	643.4	644.95	0.006069	14.63	2227.07	599.52	0.84
-1374	3092.841	2 Year Flood	818.8	632.98	636.75	635.19	636.89	0.002161	3.02	271.33	124.71	0.35
-1374	3092.841	5 Year Flood	1643.8	632.98	637.77	636.15	638.03	0.002613	4.13	420.71	182.09	0.41
-1374	3092.841	10 Year Flood	2435.6	632.98	638.44	636.83	638.82	0.002987	5.01	537.61	278.91	0.45
-1374	3092.841	25 Year Flood	3650.1	632.98	639.26	637.6	639.75	0.003137	5.83	913.7	453.34	0.47
-1374	3092.841	50 Year Flood	4657.2	632.98	639.82	638.13	640.37	0.003163	6.31	1177.14	489.01	0.48
-1374	3092.841	100 Year Flood	5726.7	632.98	640.33	638.63	640.94	0.003245	6.8	1435.84	525.23	0.5
-1374	3092.841	500 Year Flood	9399.6	632.98	641.83	640.28	642.56	0.003216	7.89	2280.04	603.87	0.52
-1185	2902.916	2 Year Flood	818.8	632.59	635.15	635.15	635.91	0.019047	7.05	122.13	92.84	0.98
-1185	2902.916	5 Year Flood	1643.8	632.59	636.18	636.18	637.02	0.013306	7.66	299.47	241.09	0.87
-1185	2902.916	10 Year Flood	2435.6	632.59	636.71	636.71	637.72	0.01311	8.68	433.52	263.46	0.9
-1185	2902.916	25 Year Flood	3650.1	632.59	637.39	637.39	638.61	0.012745	9.85	627.11	305.34	0.91
-1185	2902.916	50 Year Flood	4657.2	632.59	637.9	637.9	639.24	0.012206	10.52	793.68	341.7	0.91
-1185	2902.916	100 Year Flood	5726.7	632.59	638.38	638.38	639.81	0.011711	11.09	962.8	364.02	0.91
-1185	2902.916	500 Year Flood	9399.6	632.59	639.56	639.56	641.39	0.012072	13.12	1421.08	405.72	0.96
-1095	2813.468	2 Year Flood	818.8	628.22	633.48		633.52	0.000359	1.66	494.43	135.97	0.15
-1095	2813.468	5 Year Flood	1643.8	628.22	633.99		634.12	0.000998	2.9	566.08	144.46	0.26
-1095	2813.468	10 Year Flood	2435.6	628.22	634.49		634.71	0.0016	3.8	640.59	155.46	0.33
-1095	2813.468	25 Year Flood	3650.1	628.22	636.87		637.04	0.000797	3.4	1208.33	331.63	0.25
-1095	2813.468	50 Year Flood	4657.2	628.22	637.49		637.72	0.000899	3.87	1420.6	346.49	0.27
-1095	2813.468	100 Year Flood	5726.7	628.22	638.1		638.37	0.000982	4.29	1637.94	367.54	0.28
-1095	2813.468	500 Year Flood	9399.6	628.22	639.8		640.23	0.001195	5.46	2306.51	420.25	0.32
-895	2613.664	2 Year Flood	818.8	629.7	633.4		633.44	0.000489	1.43	574.07	250.44	0.17
-895	2613.664	5 Year Flood	1643.8	629.7	633.8		633.89	0.001181	2.44	674.95	255.47	0.26
-895	2613.664	10 Year Flood	2435.6	629.7	634.22		634.37	0.001615	3.11	782.03	258.66	0.32
-895	2613.664	25 Year Flood	3650.1	629.7	636.8		636.9	0.000485	2.44	1522.73	317.73	0.19
-895	2613.664	50 Year Flood	4657.2	629.7	637.43		637.55	0.000536	2.77	1725.15	327.22	0.2
-895	2613.664	100 Year Flood	5726.7	629.7	638.04		638.19	0.000578	3.07	1929.42	340.7	0.21
-895	2613.664	500 Year Flood	9399.6	629.7	639.76		640	0.000695	3.94	2537.89	368.45	0.24
-658	2376.771	2 Year Flood	818.8	628.85	633.28		633.31	0.000569	1.4	585.63	294.46	0.17
-658	2376.771	5 Year Flood	1643.8	628.85	633.45		633.55	0.001758	2.58	636.27	297.24	0.31
-658	2376.771	10 Year Flood	2435.6	628.85	633.7		633.88	0.002698	3.43	709.36	298.94	0.39
-658	2376.771	25 Year Flood	3650.1	628.85	636.71		636.79	0.000396	2.27	1629.25	316.78	0.17
-658	2376.771	50 Year Flood	4657.2	628.85	637.32		637.43	0.000449	2.6	1827.38	326.42	0.19
-658	2376.771	100 Year Flood	5726.7	628.85	637.93		638.06	0.000492	2.9	2026.75	335.01	0.2
-658	2376.771	500 Year Flood	9399.6	628.85	639.62		639.83	0.000616	3.77	2617.17	365.17	0.23
-395	2113.273	2 Year Flood	818.8	627.25	633.26		633.27	0.000058	0.69	1186.56	314.37	0.06

Table C-1

Existing Conditions HEC-RAS Results

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-395	2113.273	5 Year Flood	1643.8	627.25	633.38		633.41	0.000214	1.34	1224.31	317.38	0.12
-395	2113.273	10 Year Flood	2435.6	627.25	633.56		633.62	0.000406	1.9	1282.8	322.8	0.17
-395	2113.273	25 Year Flood	3650.1	627.25	636.68		636.72	0.000136	1.61	2329.97	347.99	0.11
-395	2113.273	50 Year Flood	4657.2	627.25	637.29		637.35	0.000168	1.89	2545.8	358.76	0.12
-395	2113.273	100 Year Flood	5726.7	627.25	637.89		637.96	0.000199	2.16	2766.77	400.32	0.13
-395	2113.273	500 Year Flood	9399.6	627.25	639.57		639.7	0.000286	2.92	3503.98	469.94	0.16
-209	1927.178	2 Year Flood	818.8	626.74	633.25		633.26	0.000037	0.61	1340.02	305.36	0.05
-209	1927.178	5 Year Flood	1643.8	626.74	633.35		633.37	0.000139	1.2	1370.41	307.17	0.1
-209	1927.178	10 Year Flood	2435.6	626.74	633.51		633.55	0.000273	1.72	1418.68	309.54	0.14
-209	1927.178	25 Year Flood	3650.1	626.74	636.66		636.7	0.00011	1.54	2426.82	333.73	0.1
-209	1927.178	50 Year Flood	4657.2	626.74	637.26		637.32	0.00014	1.82	2632.77	344.47	0.11
-209	1927.178	100 Year Flood	5726.7	626.74	637.86		637.93	0.000168	2.09	2839.09	350.79	0.12
-209	1927.178	500 Year Flood	9399.6	626.74	639.52		639.65	0.000255	2.88	3503.64	446.98	0.16
-65	1783.649	2 Year Flood	818.8	625.09	633.25	627.87	633.25	0.000036	0.63	1300.34	272.48	0.05
-65	1783.649	5 Year Flood	1643.8	625.09	633.33	628.79	633.35	0.000138	1.24	1323.07	273.12	0.1
-65	1783.649	10 Year Flood	2435.6	625.09	633.47	629.24	633.51	0.000277	1.79	1359.82	273.94	0.14
-65	1783.649	25 Year Flood	3650.1	625.09	636.64	629.8	636.68	0.00012	1.63	2261.94	296.9	0.1
-65	1783.649	50 Year Flood	4657.2	625.09	637.24	630.2	637.29	0.000154	1.93	2440.95	324.07	0.12
-65	1783.649	100 Year Flood	5726.7	625.09	637.82	630.59	637.9	0.000187	2.22	2618.44	363.37	0.13
-65	1783.649	500 Year Flood	9399.6	625.09	639.46	631.72	639.61	0.000287	3.07	3289.41	423.95	0.16
-19	1737.38	2 Year Flood	816.8	623.3	633.22	627.56	633.25	0.000203	1.35	633.73	183.86	0.12
-19	1737.38	5 Year Flood	1639.5	623.3	633.22	629.06	633.33	0.000817	2.71	633.73	183.86	0.23
-19	1737.38	10 Year Flood	2431.9	623.3	633.22	630.14	633.47	0.001797	4.01	633.73	183.86	0.35
-19	1737.38	25 Year Flood	3644.2	623.3	636.51	631.15	636.66	0.00053	3.18	1440.41	308.55	0.21
-19	1737.38	50 Year Flood	4650.3	623.3	637.07	631.85	637.27	0.000659	3.72	1615.33	360.84	0.23
-19	1737.38	100 Year Flood	5718.3	623.3	637.61	632.57	637.86	0.000778	4.23	1790.94	397.31	0.26
-19	1737.38	500 Year Flood	9395.4	623.3	639.11	634.22	639.55	0.001135	5.69	2302.49	492.83	0.32
0	1718.37		Inl Struct									
37	1681.53	2 Year Flood	816.8	616	621.13		621.26	0.001301	2.95	276.98	101.28	0.31
37	1681.53	5 Year Flood	1639.5	616	623.85		623.98	0.000507	2.89	612.31	148.96	0.22
37	1681.53	10 Year Flood	2431.9	616	625.98		626.12	0.000351	3.01	952.57	178.79	0.19
37	1681.53	25 Year Flood	3644.2	616	628.85		628.99	0.00025	3.14	1535.88	228.52	0.17
37	1681.53	50 Year Flood	4650.3	616	629.6		629.79	0.000315	3.7	1711.68	239.91	0.2
37	1681.53	100 Year Flood	5718.3	616	630.28		630.53	0.000384	4.25	1879.09	254.4	0.22
37	1681.53	500 Year Flood	9395.4	616	632.22		632.69	0.000597	5.86	2444.08	330.67	0.28
81	1636.923	2 Year Flood	816.8	616.05	620.79	619.22	621.12	0.003067	4.6	177.46	63.26	0.48
81	1636.923	5 Year Flood	1639.5	616.05	623.58	620.72	623.89	0.001293	4.48	366.58	91.01	0.35
81	1636.923	10 Year Flood	2431.9	616.05	625.69	621.59	626.03	0.000903	4.7	528.64	162.05	0.31
81	1636.923	25 Year Flood	3644.2	616.05	628.65	622.72	628.93	0.000526	4.51	1230.11	229.44	0.25
81	1636.923	50 Year Flood	4650.3	616.05	629.32	623.54	629.72	0.000675	5.33	1391.31	254.47	0.28
81	1636.923	100 Year Flood	5718.3	616.05	629.93	624.31	630.43	0.000829	6.12	1550.78	277.92	0.32
81	1636.923	500 Year Flood	9395.4	616.05	631.64	626.84	632.53	0.001268	8.3	2071.81	326.18	0.4
103	1615.645		Bridge									
135	1583.47	2 Year Flood	816.8	614.81	617.43	617.4	618.41	0.013847	7.93	102.99	50.89	0.98
135	1583.47	5 Year Flood	1639.5	614.81	618.63	618.63	620.09	0.012486	9.69	169.49	59.21	0.99
135	1583.47	10 Year Flood	2431.9	614.81	619.54	619.54	621.41	0.011262	10.99	225.55	64.82	0.99
135	1583.47	25 Year Flood	3644.2	614.81	620.78	620.78	623.14	0.009835	12.38	312.94	91.74	0.96
135	1583.47	50 Year Flood	4650.3	614.81	621.61	621.61	624.38	0.00956	13.48	375.67	111.76	0.98
135	1583.47	100 Year Flood	5718.3	614.81	622.47	622.47	625.59	0.009033	14.35	441.48	146.23	0.97
135	1583.47	500 Year Flood	9395.4	614.81	624.96	624.96	629.25	0.008319	16.95	630.68	188.45	0.98
248	1470.783	2 Year Flood	816.8	613.04	615.94	615.94	616.81	0.013752	8.05	145.71	91.19	0.99
248	1470.783	5 Year Flood	1639.5	613.04	616.98	616.98	618.32	0.012813	10.2	247.13	103.76	1.02
248	1470.783	10 Year Flood	2431.9	613.04	618.04	618.04	619.53	0.010007	10.95	381.84	137.92	0.95
248	1470.783	25 Year Flood	3644.2	613.04	618.96	618.96	620.89	0.01042	12.77	513.41	173.72	1
248	1470.783	50 Year Flood	4650.3	613.04	619.75	619.75	621.88	0.009775	13.62	639.39	212.87	0.99
248	1470.783	100 Year Flood	5718.3	613.04	620.42	620.42	622.82	0.009783	14.63	752.68	244.66	1.01

Table C-1

Existing Conditions HEC-RAS Results

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
248	1470.783	500 Year Flood	9395.4	613.04	621.85	621.85	625.6	0.012304	18.73	1025.29	292.12	1.17
394	1324.077	2 Year Flood	816.8	597.53	601	601	602.26	0.013633	8.99	91.09	37.45	1
394	1324.077	5 Year Flood	1639.5	597.53	602.51	602.51	604.45	0.011254	11.19	152.17	43.28	0.98
394	1324.077	10 Year Flood	2431.9	597.53	603.72	603.72	606.18	0.010188	12.68	206.75	47.54	0.98
394	1324.077	25 Year Flood	3644.2	597.53	605.3	605.3	608.44	0.009245	14.4	286.31	53.24	0.97
394	1324.077	50 Year Flood	4650.3	597.53	606.44	606.44	610.1	0.008801	15.59	350.34	59.12	0.98
394	1324.077	100 Year Flood	5718.3	597.53	607.69	607.69	611.69	0.008024	16.4	429.39	67.86	0.95
394	1324.077	500 Year Flood	9395.4	597.53	611.05	611.05	616.2	0.007071	18.96	690.32	88.04	0.94
558	1159.907	2 Year Flood	816.8	591.07	594.06	594.06	595.23	0.014205	8.66	94.27	41	1.01
558	1159.907	5 Year Flood	1639.5	591.07	595.62	595.48	597.17	0.011348	9.99	164.12	48.2	0.95
558	1159.907	10 Year Flood	2431.9	591.07	596.92	596.69	598.63	0.009618	10.49	236.05	68.3	0.91
558	1159.907	25 Year Flood	3644.2	591.07	599.81		601.03	0.003505	9.01	461.65	85.37	0.6
558	1159.907	50 Year Flood	4650.3	591.07	601.68		602.86	0.002497	8.9	632.2	95.74	0.53
558	1159.907	100 Year Flood	5718.3	591.07	603.48		604.65	0.001979	8.96	831.96	137.09	0.48
558	1159.907	500 Year Flood	9395.4	591.07	609.07		610.11	0.001095	8.82	1669.24	160.22	0.39
640	1078.855	2 Year Flood	816.8	587.58	593.31	592.25	594.01	0.005322	6.72	121.49	34.62	0.63
640	1078.855	5 Year Flood	1639.5	587.58	595.23	593.95	596.38	0.00508	8.58	193.92	40.97	0.66
640	1078.855	10 Year Flood	2431.9	587.58	596.04	595.19	597.92	0.006909	11	227.93	42.7	0.79
640	1078.855	25 Year Flood	3644.2	587.58	597.67	596.81	600.24	0.006933	12.92	299.39	44.87	0.82
640	1078.855	50 Year Flood	4650.3	587.58	598.86	598	601.96	0.006955	14.23	353.48	46.79	0.84
640	1078.855	100 Year Flood	5718.3	587.58	600.03	599.15	603.65	0.006911	15.4	409.75	49.46	0.86
640	1078.855	500 Year Flood	9395.4	587.58	603.51	602.99	608.69	0.006734	18.54	609.71	69.22	0.89
729	988.8714	Bridge										
808	910.7321	2 Year Flood	816.8	578.19	580.69	580.69	581.61	0.014698	7.68	106.31	57.76	1
808	910.7321	5 Year Flood	1639.5	578.19	581.8	581.8	583.2	0.012992	9.48	172.93	61.93	1
808	910.7321	10 Year Flood	2431.9	578.19	582.69	582.69	584.44	0.012025	10.61	229.26	65.23	1
808	910.7321	25 Year Flood	3644.2	578.19	583.78	583.78	586.06	0.010981	12.13	302.61	69.36	1
808	910.7321	50 Year Flood	4650.3	578.19	584.62	584.62	587.27	0.01023	13.08	361.97	72.4	0.99
808	910.7321	100 Year Flood	5718.3	578.19	585.41	585.41	588.45	0.009764	14	420.73	74.65	0.99
808	910.7321	500 Year Flood	9395.4	578.19	587.84	587.84	591.99	0.008686	16.44	609.69	80.91	0.98
895	823.656	2 Year Flood	816.8	563.33	566.36	566.36	567.43	0.014581	8.3	98.44	46.76	1.01
895	823.656	5 Year Flood	1639.5	563.33	567.66	567.66	569.22	0.013009	10.02	163.75	54.19	1.01
895	823.656	10 Year Flood	2431.9	563.33	568.59	568.59	570.6	0.011736	11.36	216.9	58.41	1
895	823.656	25 Year Flood	3644.2	563.33	569.85	569.85	572.42	0.010537	12.9	293.07	63.39	0.99
895	823.656	50 Year Flood	4650.3	563.33	570.81	570.81	573.77	0.009724	13.86	355.89	67.48	0.98
895	823.656	100 Year Flood	5718.3	563.33	571.68	571.68	575.07	0.009378	14.86	416.13	70.05	0.98
895	823.656	500 Year Flood	9395.4	563.33	574.4	574.4	578.96	0.008342	17.4	616.45	77.48	0.98
1073	645.2139	2 Year Flood	816.8	555.97	558.93	558.93	559.97	0.01445	8.17	100.05	49.08	1.01
1073	645.2139	5 Year Flood	1639.5	555.97	560.17	560.17	561.76	0.011947	10.13	167.35	58.66	0.99
1073	645.2139	10 Year Flood	2431.9	555.97	561.16	561.16	563.17	0.010713	11.44	228.38	64.52	0.98
1073	645.2139	25 Year Flood	3644.2	555.97	562.44	562.44	565	0.009747	13	315.07	70.68	0.97
1073	645.2139	50 Year Flood	4650.3	555.97	563.38	563.38	566.34	0.009238	14.05	383.27	74.62	0.97
1073	645.2139	100 Year Flood	5718.3	555.97	564.28	564.28	567.64	0.008879	15.03	452.31	78.26	0.98
1073	645.2139	500 Year Flood	9395.4	555.97	567.04	567.04	571.5	0.007909	17.53	687.28	92.18	0.97
1210	507.9141	2 Year Flood	816.8	551.25	553.32	553.32	553.95	0.015764	6.41	132.95	113.29	0.98
1210	507.9141	5 Year Flood	1639.5	551.25	554.08	554.08	555.06	0.013642	8.06	220.59	118.13	0.99
1210	507.9141	10 Year Flood	2431.9	551.25	554.69	554.69	555.95	0.012515	9.16	293.58	121.29	0.98
1210	507.9141	25 Year Flood	3644.2	551.25	555.46	555.46	557.13	0.011835	10.55	389.15	138.75	1
1210	507.9141	50 Year Flood	4650.3	551.25	556.06	556.06	558	0.01117	11.4	464.9	166	1
1210	507.9141	100 Year Flood	5718.3	551.25	556.65	556.65	558.85	0.0107	12.2	539.46	177.69	1
1210	507.9141	500 Year Flood	9395.4	551.25	558.4	558.4	561.44	0.009738	14.41	770.21	214.43	1
1338	380.8181	2 Year Flood	816.8	547.32	549.58	549.58	550.24	0.016615	6.52	125.3	95.86	1.01
1338	380.8181	5 Year Flood	1639.5	547.32	550.37	550.37	551.37	0.014461	8.03	204.23	103.23	1
1338	380.8181	10 Year Flood	2431.9	547.32	550.99	550.99	552.27	0.012871	9.07	270.12	110.87	0.99
1338	380.8181	25 Year Flood	3644.2	547.32	551.81	551.81	553.45	0.011537	10.3	368.26	126.18	0.98
1338	380.8181	50 Year Flood	4650.3	547.32	552.42	552.42	554.31	0.010707	11.08	448.06	177.72	0.97

Table C-1

Existing Conditions HEC-RAS Results

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
1338	380.8181	100 Year Flood	5718.3	547.32	553	553	555.14	0.010254	11.85	526.29	270.74	0.97
1338	380.8181	500 Year Flood	9395.4	547.32	554.74	554.74	557.62	0.009136	13.85	780.7	355.24	0.97
1473	245.2894	2 Year Flood	816.8	542.97	546.18	546.02	547.07	0.011598	7.54	108.37	129.34	0.91
1473	245.2894	5 Year Flood	1639.5	542.97	547.33	547.33	548.71	0.012842	9.43	174.08	191.33	1
1473	245.2894	10 Year Flood	2431.9	542.97	548.18	548.18	549.95	0.011615	10.7	231.33	238.49	0.99
1473	245.2894	25 Year Flood	3644.2	542.97	549.28	549.28	551.58	0.010605	12.21	313.92	306.2	0.99
1473	245.2894	50 Year Flood	4650.3	542.97	549.7	549.7	550.75	0.006164	9.84	987.3	316.94	0.76
1473	245.2894	100 Year Flood	5718.3	542.97	549.75	549.75	551.29	0.008959	11.94	1002.44	317.38	0.92
1473	245.2894	500 Year Flood	9395.4	542.97	551	551	553.06	0.00973	14.38	1408.91	328.44	1
Reach1	125.912	2 Year Flood	816.8	541.54	545.21	545.21	545.89	0.007778	7.69	254.91	218.99	0.79
Reach1	125.912	5 Year Flood	1639.5	541.54	546.08	546.08	546.95	0.00872	9.65	465.9	266.1	0.87
Reach1	125.912	10 Year Flood	2431.9	541.54	546.68	546.68	547.67	0.009183	10.91	630.09	281.23	0.91
Reach1	125.912	25 Year Flood	3644.2	541.54	547.36	547.36	548.59	0.01024	12.68	829.92	301.57	0.99
Reach1	125.912	50 Year Flood	4650.3	541.54	547.87	547.87	549.23	0.01059	13.73	984.62	308.79	1.02
Reach1	125.912	100 Year Flood	5718.3	541.54	548.3	548.3	549.82	0.011254	14.87	1118.59	313.97	1.06
Reach1	125.912	500 Year Flood	9395.4	541.54	549.56	549.56	551.57	0.012724	17.93	1522.57	328.27	1.17
Reach1	41.42999	2 Year Flood	816.8	538.74	541.04	541.04	541.92	0.014643	7.55	109.64	64.84	1
Reach1	41.42999	5 Year Flood	1639.5	538.74	542.1	542.1	543.47	0.012249	9.43	182.52	71.48	0.98
Reach1	41.42999	10 Year Flood	2431.9	538.74	542.95	542.95	544.71	0.011225	10.73	244.44	75.59	0.98
Reach1	41.42999	25 Year Flood	3644.2	538.74	544.07	544.07	546.33	0.010219	12.21	332.46	123.88	0.98
Reach1	41.42999	50 Year Flood	4650.3	538.74	544.87	544.87	547.52	0.009839	13.28	399.39	152.43	0.99
Reach1	41.42999	100 Year Flood	5718.3	538.74	546.15	546.15	548.33	0.006568	12.44	713.61	219.98	0.83
Reach1	41.42999	500 Year Flood	9395.4	538.74	548.08	548.08	550.78	0.006427	14.5	1164.69	254.94	0.86

Table C-2

Alternative 1: Partial Dam Removal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-1987	3705.37	2 Year Flood	818.8	637.08	639.16	639.16	639.82	0.016004	6.55	128.82	110.27	0.99
-1987	3705.37	5 Year Flood	1643.8	637.08	640.32	639.98	641.04	0.007792	6.91	274.96	154.06	0.77
-1987	3705.37	10 Year Flood	2435.6	637.08	641.4		642.08	0.004785	6.87	448.65	166.41	0.64
-1987	3705.37	25 Year Flood	3650.1	637.08	642.61		643.39	0.003817	7.45	678.61	206.11	0.6
-1987	3705.37	50 Year Flood	4657.2	637.08	643.16		644.15	0.004237	8.44	796.92	228.61	0.64
-1987	3705.37	100 Year Flood	5726.7	637.08	643.63		644.83	0.004653	9.36	907.36	234.82	0.68
-1987	3705.37	500 Year Flood	9399.6	637.08	644.67	644.26	646.77	0.006764	12.58	1155.03	243.72	0.85
-1814	3532.84	2 Year Flood	818.8	635.48	638.66		638.81	0.001646	3.18	299.2	152.31	0.35
-1814	3532.84	5 Year Flood	1643.8	635.48	640.25		640.46	0.001186	3.75	551.82	164.15	0.33
-1814	3532.84	10 Year Flood	2435.6	635.48	641.33		641.59	0.001162	4.33	740.06	220.56	0.34
-1814	3532.84	25 Year Flood	3650.1	635.48	642.55		642.92	0.001239	5.15	1116.39	350.53	0.36
-1814	3532.84	50 Year Flood	4657.2	635.48	643.13		643.59	0.001411	5.82	1322.07	354.84	0.39
-1814	3532.84	100 Year Flood	5726.7	635.48	643.64		644.19	0.001605	6.5	1501.54	359.1	0.42
-1814	3532.84	500 Year Flood	9399.6	635.48	644.8		645.76	0.002402	8.76	1927.08	372.01	0.52
-1608	3326.795	2 Year Flood	818.8	633.84	637.06	636.89	638.06	0.008881	8.3	134.57	78.89	0.84
-1608	3326.795	5 Year Flood	1643.8	633.84	638.56	638.56	639.85	0.007417	9.94	301.56	141.51	0.83
-1608	3326.795	10 Year Flood	2435.6	633.84	639.41	639.41	640.97	0.007682	11.35	428.44	164.44	0.87
-1608	3326.795	25 Year Flood	3650.1	633.84	640.59	640.59	642.28	0.00714	12.49	721.25	343.49	0.86
-1608	3326.795	50 Year Flood	4657.2	633.84	641.66	641.66	643	0.005276	11.89	1220.19	524.63	0.76
-1608	3326.795	100 Year Flood	5726.7	633.84	642.32	642.32	643.58	0.004912	12.13	1591.05	578.73	0.74
-1608	3326.795	500 Year Flood	9399.6	633.84	643.4	643.4	644.95	0.006088	14.65	2224.03	599.47	0.85
-1374	3092.841	2 Year Flood	818.8	632.98	636.75	635.19	636.89	0.002161	3.02	271.33	124.71	0.35
-1374	3092.841	5 Year Flood	1643.8	632.98	637.77	636.15	638.03	0.002613	4.13	420.71	182.09	0.41
-1374	3092.841	10 Year Flood	2435.6	632.98	638.44	636.83	638.82	0.002987	5.01	537.58	278.87	0.45
-1374	3092.841	25 Year Flood	3650.1	632.98	639.26	637.6	639.75	0.003138	5.83	913.53	453.33	0.47
-1374	3092.841	50 Year Flood	4657.2	632.98	639.82	638.13	640.37	0.003164	6.31	1176.96	488.98	0.48
-1374	3092.841	100 Year Flood	5726.7	632.98	640.33	638.63	640.94	0.003247	6.8	1435.39	525.19	0.5
-1374	3092.841	500 Year Flood	9399.6	632.98	641.83	640.28	642.56	0.003217	7.89	2279.9	603.86	0.52
-1185	2902.916	2 Year Flood	818.8	632.59	635.15	635.15	635.91	0.019047	7.05	122.13	92.84	0.98
-1185	2902.916	5 Year Flood	1643.8	632.59	636.18	636.18	637.02	0.013306	7.66	299.47	241.09	0.87
-1185	2902.916	10 Year Flood	2435.6	632.59	636.71	636.71	637.72	0.01311	8.68	433.52	263.46	0.9
-1185	2902.916	25 Year Flood	3650.1	632.59	637.39	637.39	638.61	0.012745	9.85	627.11	305.34	0.91
-1185	2902.916	50 Year Flood	4657.2	632.59	637.9	637.9	639.24	0.012206	10.52	793.68	341.7	0.91
-1185	2902.916	100 Year Flood	5726.7	632.59	638.38	638.38	639.81	0.011711	11.09	962.8	364.02	0.91
-1185	2902.916	500 Year Flood	9399.6	632.59	639.56	639.56	641.39	0.012072	13.12	1421.08	405.72	0.96
-1095	2813.468	2 Year Flood	818.8	628.22	632.97		633.03	0.00055	1.92	426.62	129.62	0.19
-1095	2813.468	5 Year Flood	1643.8	628.22	633.79		633.94	0.001144	3.06	537.87	140.81	0.28
-1095	2813.468	10 Year Flood	2435.6	628.22	634.37		634.61	0.001719	3.91	622.51	152.75	0.34
-1095	2813.468	25 Year Flood	3650.1	628.22	635.09		635.47	0.002497	4.94	739.49	179.95	0.42
-1095	2813.468	50 Year Flood	4657.2	628.22	635.56		636.06	0.003026	5.67	829.35	210.33	0.46
-1095	2813.468	100 Year Flood	5726.7	628.22	636.01		636.63	0.003417	6.35	940.24	286.44	0.5
-1095	2813.468	500 Year Flood	9399.6	628.22	637.33		638.31	0.00402	8.04	1363.8	342.47	0.56
-895	2613.664	2 Year Flood	818.8	629.7	632.81		632.87	0.001237	1.91	428.17	241.24	0.25
-895	2613.664	5 Year Flood	1643.8	629.7	633.54		633.66	0.001636	2.7	609.38	252.7	0.31
-895	2613.664	10 Year Flood	2435.6	629.7	634.06		634.22	0.00193	3.29	739.87	257.43	0.34
-895	2613.664	25 Year Flood	3650.1	629.7	634.7		634.95	0.002327	4.02	908.55	269.73	0.39
-895	2613.664	50 Year Flood	4657.2	629.7	635.14		635.46	0.002549	4.53	1028.39	278.51	0.41
-895	2613.664	100 Year Flood	5726.7	629.7	635.57		635.95	0.002719	5	1149.46	285.86	0.43
-895	2613.664	500 Year Flood	9399.6	629.7	636.91		637.5	0.002996	6.14	1557.47	319.7	0.47
-658	2376.771	2 Year Flood	818.8	628.85	631.9		632.16	0.01369	4.06	201.91	223.22	0.75
-658	2376.771	5 Year Flood	1643.8	628.85	632.49		632.82	0.011573	4.61	356.35	286.42	0.73
-658	2376.771	10 Year Flood	2435.6	628.85	632.83		633.28	0.011447	5.35	454.99	290.08	0.75
-658	2376.771	25 Year Flood	3650.1	628.85	633.36		633.92	0.009893	5.98	610.09	295.18	0.73
-658	2376.771	50 Year Flood	4657.2	628.85	633.8		634.42	0.008499	6.28	741.95	299.36	0.7
-658	2376.771	100 Year Flood	5726.7	628.85	634.34		634.97	0.006689	6.35	903.89	301.39	0.64
-658	2376.771	500 Year Flood	9399.6	628.85	635.86		636.61	0.004653	6.94	1365.34	307.73	0.57
-395	2113.273	2 Year Flood	818.8	627.25	630.15		630.27	0.00424	2.81	291.17	231.51	0.44

Table C-2

Alternative 1: Partial Dam Removal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-395	2113.273	5 Year Flood	1643.8	627.25	630.96		631.13	0.003898	3.31	496.87	290.62	0.45
-395	2113.273	10 Year Flood	2435.6	627.25	631.55		631.75	0.00323	3.64	669.49	294.77	0.43
-395	2113.273	25 Year Flood	3650.1	627.25	632.33		632.59	0.002751	4.04	902.46	300.29	0.41
-395	2113.273	50 Year Flood	4657.2	627.25	632.92		633.21	0.002529	4.31	1079.71	306.66	0.4
-395	2113.273	100 Year Flood	5726.7	627.25	633.69		633.98	0.002035	4.34	1322.98	324.55	0.37
-395	2113.273	500 Year Flood	9399.6	627.25	635.4		635.79	0.001741	5.04	1891.78	338.75	0.37
-209	1927.178	2 Year Flood	818.8	626.74	629.56		629.66	0.002628	2.46	333.07	226.83	0.36
-209	1927.178	5 Year Flood	1643.8	626.74	630.4		630.55	0.002487	3.06	536.95	252.43	0.37
-209	1927.178	10 Year Flood	2435.6	626.74	631.05		631.23	0.002405	3.44	707.1	271.55	0.38
-209	1927.178	25 Year Flood	3650.1	626.74	631.89		632.12	0.002204	3.89	939.1	281.59	0.38
-209	1927.178	50 Year Flood	4657.2	626.74	632.5		632.77	0.00214	4.18	1113.54	292.52	0.38
-209	1927.178	100 Year Flood	5726.7	626.74	633.36		633.63	0.001681	4.18	1372.23	307.25	0.35
-209	1927.178	500 Year Flood	9399.6	626.74	635.11		635.49	0.001528	4.95	1921.17	319.75	0.35
-65	1783.649	2 Year Flood	818.8	625.09	629.19	627.87	629.29	0.002483	2.58	317.87	192.93	0.35
-65	1783.649	5 Year Flood	1643.8	625.09	629.97	628.79	630.16	0.002939	3.44	478.48	213.68	0.4
-65	1783.649	10 Year Flood	2435.6	625.09	630.6	629.25	630.84	0.003028	3.95	616.11	227.71	0.42
-65	1783.649	25 Year Flood	3650.1	625.09	631.44	629.81	631.75	0.003034	4.44	822.25	255.6	0.44
-65	1783.649	50 Year Flood	4657.2	625.09	632.06	630.21	632.41	0.002829	4.74	982.36	262.45	0.43
-65	1783.649	100 Year Flood	5726.7	625.09	633.03	630.59	633.36	0.002051	4.62	1240.28	270.68	0.38
-65	1783.649	500 Year Flood	9399.6	625.09	634.77	631.71	635.23	0.001927	5.46	1721.68	281.15	0.39
-19	1737.38	2 Year Flood	818.2	627.59	628.52	628.52	628.99	0.024338	5.49	149.14	160.53	1
-19	1737.38	5 Year Flood	1642.9	627.59	629.08	629.08	629.81	0.020628	6.88	238.81	160.85	1
-19	1737.38	10 Year Flood	2436.2	627.59	629.52	629.52	630.48	0.019232	7.87	309.6	161.1	1
-19	1737.38	25 Year Flood	3650.1	627.59	630.12	630.12	631.37	0.017588	8.98	406.56	161.44	1
-19	1737.38	50 Year Flood	4652.6	627.59	630.57	630.57	632.03	0.016679	9.72	478.9	161.7	1
-19	1737.38	100 Year Flood	5724.7	627.59	632.25	631	633.15	0.005772	7.61	751.88	162.66	0.62
-19	1737.38	500 Year Flood	9398	627.59	633.48	632.31	634.97	0.00783	9.79	963.78	191.36	0.74
0	1718.37	Inl Struct										
37	1681.53	2 Year Flood	818.2	616	621.13		621.27	0.001299	2.95	277.43	101.32	0.31
37	1681.53	5 Year Flood	1642.9	616	623.86		623.99	0.000507	2.89	613.52	149.04	0.22
37	1681.53	10 Year Flood	2436.2	616	625.99		626.13	0.000351	3.01	954.59	178.93	0.19
37	1681.53	25 Year Flood	3650.1	616	628.87		629.01	0.000249	3.14	1540.41	228.81	0.17
37	1681.53	50 Year Flood	4652.6	616	629.6		629.8	0.000315	3.7	1712.32	239.95	0.2
37	1681.53	100 Year Flood	5724.7	616	630.28		630.54	0.000385	4.25	1879.96	254.49	0.22
37	1681.53	500 Year Flood	9398	616	632.22		632.7	0.000597	5.86	2444.75	330.71	0.28
81	1636.923	2 Year Flood	818.2	616.05	620.79	619.22	621.12	0.003063	4.6	177.75	63.3	0.48
81	1636.923	5 Year Flood	1642.9	616.05	623.59	620.74	623.9	0.001292	4.48	367.15	91.09	0.35
81	1636.923	10 Year Flood	2436.2	616.05	625.7	621.58	626.04	0.000901	4.7	529.51	162.26	0.31
81	1636.923	25 Year Flood	3650.1	616.05	628.67	622.73	628.95	0.000524	4.5	1234.81	229.82	0.25
81	1636.923	50 Year Flood	4652.6	616.05	629.33	623.53	629.72	0.000675	5.33	1391.98	254.6	0.28
81	1636.923	100 Year Flood	5724.7	616.05	629.93	624.31	630.44	0.00083	6.12	1551.57	278.04	0.32
81	1636.923	500 Year Flood	9398	616.05	631.64	626.77	632.53	0.001268	8.3	2072.51	326.22	0.4
103	1615.645	Bridge										
135	1583.47	2 Year Flood	818.2	614.81	617.43	617.4	618.41	0.013922	7.95	102.92	50.88	0.99
135	1583.47	5 Year Flood	1642.9	614.81	618.62	618.62	620.1	0.012676	9.75	168.91	59.15	1
135	1583.47	10 Year Flood	2436.2	614.81	619.53	619.53	621.42	0.011333	11.02	225.35	64.81	0.99
135	1583.47	25 Year Flood	3650.1	614.81	620.78	620.78	623.15	0.009864	12.39	312.97	91.76	0.97
135	1583.47	50 Year Flood	4652.6	614.81	621.64	621.64	624.39	0.009384	13.41	378.22	113.68	0.97
135	1583.47	100 Year Flood	5724.7	614.81	622.48	622.48	625.6	0.009015	14.35	442.12	146.4	0.97
135	1583.47	500 Year Flood	9398	614.81	624.96	624.96	629.25	0.008324	16.96	630.68	188.45	0.98
248	1470.783	2 Year Flood	818.2	613.04	615.95	615.95	616.82	0.013589	8.02	146.52	91.3	0.98
248	1470.783	5 Year Flood	1642.9	613.04	616.99	616.99	618.32	0.01283	10.21	247.39	103.8	1.02
248	1470.783	10 Year Flood	2436.2	613.04	618.03	618.03	619.53	0.010159	11.01	380.14	137.79	0.95
248	1470.783	25 Year Flood	3650.1	613.04	618.96	618.96	620.9	0.010454	12.79	513.41	173.72	1
248	1470.783	50 Year Flood	4652.6	613.04	619.75	619.75	621.89	0.009823	13.64	638.41	212.43	0.99
248	1470.783	100 Year Flood	5724.7	613.04	620.43	620.43	622.82	0.009752	14.62	754.3	245.25	1.01

Table C-2

Alternative 1: Partial Dam Removal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
248	1470.783	500 Year Flood	9398	613.04	621.85	621.85	625.61	0.012311	18.74	1025.29	292.12	1.17
394	1324.077	2 Year Flood	818.2	597.53	601.01	601.01	602.26	0.013528	8.97	91.4	37.49	1
394	1324.077	5 Year Flood	1642.9	597.53	602.52	602.52	604.46	0.011274	11.2	152.28	43.29	0.99
394	1324.077	10 Year Flood	2436.2	597.53	603.72	603.72	606.19	0.010188	12.68	207.01	47.56	0.98
394	1324.077	25 Year Flood	3650.1	597.53	605.3	605.3	608.45	0.009283	14.43	286.23	53.23	0.98
394	1324.077	50 Year Flood	4652.6	597.53	606.44	606.44	610.1	0.008832	15.61	350	59.08	0.98
394	1324.077	100 Year Flood	5724.7	597.53	607.68	607.68	611.7	0.008077	16.44	428.63	67.79	0.96
394	1324.077	500 Year Flood	9398	597.53	611.06	611.06	616.2	0.007069	18.96	690.59	88.06	0.94
558	1159.907	2 Year Flood	818.2	591.07	594.06	594.06	595.23	0.014194	8.67	94.41	41.02	1.01
558	1159.907	5 Year Flood	1642.9	591.07	595.62	595.49	597.18	0.011362	10	164.28	48.21	0.96
558	1159.907	10 Year Flood	2436.2	591.07	596.94	596.7	598.64	0.009518	10.46	237.23	68.53	0.9
558	1159.907	25 Year Flood	3650.1	591.07	599.82		601.04	0.003497	9.01	462.63	85.45	0.6
558	1159.907	50 Year Flood	4652.6	591.07	601.69		602.86	0.002496	8.9	632.6	95.76	0.53
558	1159.907	100 Year Flood	5724.7	591.07	603.49		604.66	0.001976	8.96	833.44	137.14	0.48
558	1159.907	500 Year Flood	9398	591.07	609.07		610.11	0.001095	8.82	1669.63	160.23	0.39
640	1078.855	2 Year Flood	818.2	587.58	593.31	592.26	594.01	0.005337	6.73	121.52	34.62	0.63
640	1078.855	5 Year Flood	1642.9	587.58	595.24	593.96	596.38	0.005096	8.59	193.99	40.98	0.66
640	1078.855	10 Year Flood	2436.2	587.58	596.05	595.2	597.92	0.006909	11.01	228.19	42.71	0.79
640	1078.855	25 Year Flood	3650.1	587.58	597.68	596.81	600.25	0.006934	12.93	299.7	44.88	0.82
640	1078.855	50 Year Flood	4652.6	587.58	598.86	598	601.97	0.006956	14.23	353.59	46.79	0.84
640	1078.855	100 Year Flood	5724.7	587.58	600.03	599.16	603.66	0.006909	15.41	410.13	49.47	0.86
640	1078.855	500 Year Flood	9398	587.58	603.52	602.58	608.69	0.006725	18.53	610.19	69.25	0.89
729	988.8714	Bridge										
808	910.7321	2 Year Flood	818.2	578.19	580.69	580.69	581.61	0.014748	7.7	106.31	57.76	1
808	910.7321	5 Year Flood	1642.9	578.19	581.81	581.81	583.21	0.013005	9.49	173.1	61.94	1
808	910.7321	10 Year Flood	2436.2	578.19	582.69	582.69	584.44	0.01205	10.62	229.37	65.23	1
808	910.7321	25 Year Flood	3650.1	578.19	583.79	583.79	586.07	0.010959	12.13	303.12	69.39	0.99
808	910.7321	50 Year Flood	4652.6	578.19	584.62	584.62	587.27	0.010242	13.09	361.95	72.4	0.99
808	910.7321	100 Year Flood	5724.7	578.19	585.41	585.41	588.45	0.009793	14.02	420.62	74.64	0.99
808	910.7321	500 Year Flood	9398	578.19	587.84	587.84	592	0.008718	16.46	609.03	80.89	0.99
895	823.656	2 Year Flood	818.2	563.33	566.37	566.37	567.44	0.014589	8.3	98.53	46.77	1.01
895	823.656	5 Year Flood	1642.9	563.33	567.66	567.66	569.22	0.013017	10.03	163.93	54.21	1.01
895	823.656	10 Year Flood	2436.2	563.33	568.6	568.6	570.6	0.011735	11.36	217.15	58.43	1
895	823.656	25 Year Flood	3650.1	563.33	569.85	569.85	572.43	0.010534	12.91	293.42	63.41	0.99
895	823.656	50 Year Flood	4652.6	563.33	570.81	570.81	573.77	0.009723	13.86	356.02	67.48	0.98
895	823.656	100 Year Flood	5724.7	563.33	571.69	571.69	575.08	0.009373	14.87	416.54	70.07	0.98
895	823.656	500 Year Flood	9398	563.33	574.4	574.4	578.96	0.008341	17.4	616.59	77.49	0.98
1073	645.2139	2 Year Flood	818.2	555.97	558.94	558.94	559.97	0.014445	8.17	100.18	49.12	1.01
1073	645.2139	5 Year Flood	1642.9	555.97	560.18	560.18	561.77	0.011942	10.13	167.61	58.69	0.99
1073	645.2139	10 Year Flood	2436.2	555.97	561.17	561.17	563.17	0.010708	11.44	228.7	64.54	0.98
1073	645.2139	25 Year Flood	3650.1	555.97	562.45	562.45	565.01	0.009742	13.01	315.5	70.71	0.97
1073	645.2139	50 Year Flood	4652.6	555.97	563.38	563.38	566.35	0.009239	14.05	383.4	74.63	0.97
1073	645.2139	100 Year Flood	5724.7	555.97	564.29	564.29	567.65	0.008877	15.03	452.7	78.28	0.98
1073	645.2139	500 Year Flood	9398	555.97	567.04	567.04	571.51	0.007909	17.53	687.44	92.18	0.97
1210	507.9141	2 Year Flood	818.2	551.25	553.32	553.32	553.95	0.01593	6.43	132.64	113.27	0.99
1210	507.9141	5 Year Flood	1642.9	551.25	554.07	554.07	555.07	0.013744	8.08	220.35	118.12	0.99
1210	507.9141	10 Year Flood	2436.2	551.25	554.69	554.69	555.95	0.01256	9.18	293.57	121.29	0.99
1210	507.9141	25 Year Flood	3650.1	551.25	555.48	555.48	557.13	0.011649	10.51	391.58	139.65	0.99
1210	507.9141	50 Year Flood	4652.6	551.25	556.07	556.07	558	0.011136	11.4	465.52	166.09	1
1210	507.9141	100 Year Flood	5724.7	551.25	556.63	556.63	558.86	0.010859	12.26	537.28	177.33	1
1210	507.9141	500 Year Flood	9398	551.25	558.4	558.4	561.44	0.009717	14.4	770.89	214.48	1
1338	380.8181	2 Year Flood	818.2	547.32	549.59	549.59	550.24	0.016284	6.48	126.24	95.96	1
1338	380.8181	5 Year Flood	1642.9	547.32	550.37	550.37	551.38	0.014456	8.03	204.52	103.26	1
1338	380.8181	10 Year Flood	2436.2	547.32	550.99	550.99	552.27	0.012988	9.1	269.65	110.71	1
1338	380.8181	25 Year Flood	3650.1	547.32	551.81	551.81	553.45	0.011483	10.29	369.27	126.28	0.98
1338	380.8181	50 Year Flood	4652.6	547.32	552.42	552.42	554.31	0.010696	11.08	448.38	177.97	0.97

Table C-2

Alternative 1: Partial Dam Removal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
1338	380.8181	100 Year Flood	5724.7	547.32	552.99	552.99	555.15	0.010286	11.87	526.11	270.59	0.97
1338	380.8181	500 Year Flood	9398	547.32	554.73	554.73	557.62	0.009188	13.88	779.27	355.08	0.97
1473	245.2894	2 Year Flood	818.2	542.97	546.18	546.03	547.07	0.011689	7.56	108.21	129.28	0.91
1473	245.2894	5 Year Flood	1642.9	542.97	547.33	547.33	548.72	0.012968	9.46	173.77	191.02	1
1473	245.2894	10 Year Flood	2436.2	542.97	548.19	548.19	549.96	0.011499	10.68	232.37	239.15	0.99
1473	245.2894	25 Year Flood	3650.1	542.97	549.3	549.3	551.59	0.01052	12.19	315.18	306.57	0.99
1473	245.2894	50 Year Flood	4652.6	542.97	549.7	549.7	550.75	0.006171	9.85	987.26	316.95	0.77
1473	245.2894	100 Year Flood	5724.7	542.97	549.75	549.75	551.29	0.00896	11.95	1003.29	317.41	0.92
1473	245.2894	500 Year Flood	9398	542.97	551.01	551.01	553.07	0.009704	14.37	1410.64	328.5	1
Reach1	125.912	2 Year Flood	818.2	541.54	545.22	545.22	545.9	0.00769	7.66	256.86	219.55	0.78
Reach1	125.912	5 Year Flood	1642.9	541.54	546.08	546.08	546.96	0.008725	9.66	466.69	266.37	0.87
Reach1	125.912	10 Year Flood	2436.2	541.54	546.68	546.68	547.68	0.00918	10.91	631.06	281.32	0.91
Reach1	125.912	25 Year Flood	3650.1	541.54	547.36	547.36	548.59	0.010322	12.72	828.36	301.41	0.99
Reach1	125.912	50 Year Flood	4652.6	541.54	547.86	547.86	549.23	0.010707	13.79	981.03	308.63	1.03
Reach1	125.912	100 Year Flood	5724.7	541.54	548.3	548.3	549.83	0.011235	14.86	1120.13	314.01	1.06
Reach1	125.912	500 Year Flood	9398	541.54	549.56	549.56	551.58	0.01272	17.93	1523.07	328.31	1.17
Reach1	41.42999	2 Year Flood	818.2	538.74	541.04	541.04	541.93	0.014623	7.56	109.8	64.85	1
Reach1	41.42999	5 Year Flood	1642.9	538.74	542.1	542.1	543.48	0.01237	9.47	182.16	71.46	0.99
Reach1	41.42999	10 Year Flood	2436.2	538.74	542.96	542.96	544.71	0.01115	10.71	245.28	75.64	0.98
Reach1	41.42999	25 Year Flood	3650.1	538.74	544.07	544.07	546.34	0.01027	12.24	332.24	123.69	0.98
Reach1	41.42999	50 Year Flood	4652.6	538.74	544.87	544.87	547.53	0.009848	13.28	399.38	152.43	0.99
Reach1	41.42999	100 Year Flood	5724.7	538.74	546.15	546.15	548.33	0.006579	12.45	713.79	220.01	0.84
Reach1	41.42999	500 Year Flood	9398	538.74	548.09	548.09	550.78	0.006392	14.47	1167.91	255.14	0.86

Table C-3

Alternative 2: Dam Removal with Existing Sediment Conditions within McTaggart's Pond

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-1987	3705.37	2 Year Flood	818.8	637.08	639.16	639.16	639.82	0.016004	6.55	128.82	110.27	0.99
-1987	3705.37	5 Year Flood	1643.8	637.08	640.32	639.98	641.04	0.007792	6.91	274.96	154.06	0.77
-1987	3705.37	10 Year Flood	2435.6	637.08	641.4		642.08	0.004785	6.87	448.65	166.41	0.64
-1987	3705.37	25 Year Flood	3650.1	637.08	642.61		643.39	0.003817	7.45	678.61	206.11	0.6
-1987	3705.37	50 Year Flood	4657.2	637.08	643.16		644.15	0.004237	8.44	796.92	228.61	0.64
-1987	3705.37	100 Year Flood	5726.7	637.08	643.63		644.83	0.004653	9.36	907.36	234.82	0.68
-1987	3705.37	500 Year Flood	9399.6	637.08	644.67	644.26	646.77	0.006764	12.58	1155.03	243.72	0.85
-1814	3532.84	2 Year Flood	818.8	635.48	638.66		638.81	0.001646	3.18	299.2	152.31	0.35
-1814	3532.84	5 Year Flood	1643.8	635.48	640.25		640.46	0.001186	3.75	551.82	164.15	0.33
-1814	3532.84	10 Year Flood	2435.6	635.48	641.33		641.59	0.001162	4.33	740.06	220.56	0.34
-1814	3532.84	25 Year Flood	3650.1	635.48	642.55		642.92	0.001239	5.15	1116.39	350.53	0.36
-1814	3532.84	50 Year Flood	4657.2	635.48	643.13		643.59	0.001411	5.82	1322.07	354.84	0.39
-1814	3532.84	100 Year Flood	5726.7	635.48	643.64		644.19	0.001605	6.5	1501.54	359.1	0.42
-1814	3532.84	500 Year Flood	9399.6	635.48	644.8		645.76	0.002402	8.76	1927.08	372.01	0.52
-1608	3326.795	2 Year Flood	818.8	633.84	637.06	636.89	638.06	0.008881	8.3	134.57	78.89	0.84
-1608	3326.795	5 Year Flood	1643.8	633.84	638.56	638.56	639.85	0.007417	9.94	301.56	141.51	0.83
-1608	3326.795	10 Year Flood	2435.6	633.84	639.41	639.41	640.97	0.007682	11.35	428.44	164.44	0.87
-1608	3326.795	25 Year Flood	3650.1	633.84	640.59	640.59	642.28	0.00714	12.49	721.25	343.49	0.86
-1608	3326.795	50 Year Flood	4657.2	633.84	641.66	641.66	643	0.005276	11.89	1220.19	524.63	0.76
-1608	3326.795	100 Year Flood	5726.7	633.84	642.32	642.32	643.58	0.004912	12.13	1591.05	578.73	0.74
-1608	3326.795	500 Year Flood	9399.6	633.84	643.4	643.4	644.95	0.006088	14.65	2224.03	599.47	0.85
-1374	3092.841	2 Year Flood	818.8	632.98	636.75	635.19	636.89	0.002161	3.02	271.33	124.71	0.35
-1374	3092.841	5 Year Flood	1643.8	632.98	637.77	636.15	638.03	0.002614	4.13	420.7	182.09	0.41
-1374	3092.841	10 Year Flood	2435.6	632.98	638.44	636.83	638.82	0.002987	5.01	537.58	278.87	0.45
-1374	3092.841	25 Year Flood	3650.1	632.98	639.26	637.6	639.75	0.003138	5.83	913.53	453.33	0.47
-1374	3092.841	50 Year Flood	4657.2	632.98	639.82	638.13	640.37	0.003164	6.31	1176.96	488.98	0.48
-1374	3092.841	100 Year Flood	5726.7	632.98	640.33	638.63	640.94	0.003247	6.8	1435.39	525.19	0.5
-1374	3092.841	500 Year Flood	9399.6	632.98	641.83	640.28	642.56	0.003217	7.89	2279.9	603.86	0.52
-1185	2902.916	2 Year Flood	818.8	632.59	635.15	635.15	635.91	0.019047	7.05	122.13	92.84	0.98
-1185	2902.916	5 Year Flood	1643.8	632.59	636.18	636.18	637.02	0.013306	7.66	299.47	241.09	0.87
-1185	2902.916	10 Year Flood	2435.6	632.59	636.71	636.71	637.72	0.01311	8.68	433.52	263.46	0.9
-1185	2902.916	25 Year Flood	3650.1	632.59	637.39	637.39	638.61	0.012745	9.85	627.11	305.34	0.91
-1185	2902.916	50 Year Flood	4657.2	632.59	637.9	637.9	639.24	0.012206	10.52	793.68	341.7	0.91
-1185	2902.916	100 Year Flood	5726.7	632.59	638.38	638.38	639.81	0.011711	11.09	962.8	364.02	0.91
-1185	2902.916	500 Year Flood	9399.6	632.59	639.56	639.56	641.39	0.012072	13.12	1421.08	405.72	0.96
-1095	2813.468	2 Year Flood	818.8	628.22	632.97		633.03	0.00055	1.92	426.59	129.62	0.19
-1095	2813.468	5 Year Flood	1643.8	628.22	633.79		633.94	0.001145	3.06	537.71	140.79	0.28
-1095	2813.468	10 Year Flood	2435.6	628.22	634.37		634.61	0.001721	3.91	622.22	152.71	0.34
-1095	2813.468	25 Year Flood	3650.1	628.22	635.09		635.47	0.002499	4.94	739.21	179.9	0.42
-1095	2813.468	50 Year Flood	4657.2	628.22	635.56		636.06	0.003026	5.67	829.45	210.39	0.46
-1095	2813.468	100 Year Flood	5726.7	628.22	636		636.63	0.00343	6.35	938.58	286.15	0.5
-1095	2813.468	500 Year Flood	9399.6	628.22	637.32		638.3	0.004031	8.05	1362.19	342.36	0.56
-895	2613.664	2 Year Flood	818.8	629.7	632.81		632.87	0.001237	1.91	428.08	241.24	0.25
-895	2613.664	5 Year Flood	1643.8	629.7	633.54		633.66	0.00164	2.7	608.98	252.68	0.31
-895	2613.664	10 Year Flood	2435.6	629.7	634.05		634.22	0.001936	3.3	739.16	257.41	0.34
-895	2613.664	25 Year Flood	3650.1	629.7	634.7		634.95	0.002332	4.02	907.94	269.67	0.39
-895	2613.664	50 Year Flood	4657.2	629.7	635.14		635.46	0.002547	4.53	1028.57	278.52	0.41
-895	2613.664	100 Year Flood	5726.7	629.7	635.56		635.95	0.002739	5.01	1146.77	285.7	0.43
-895	2613.664	500 Year Flood	9399.6	629.7	636.91		637.49	0.003009	6.15	1555.23	319.58	0.47
-658	2376.771	2 Year Flood	818.8	628.85	631.91	631.69	632.16	0.013382	4.02	203.53	223.88	0.74
-658	2376.771	5 Year Flood	1643.8	628.85	632.51		632.83	0.011075	4.55	361.16	286.57	0.71
-658	2376.771	10 Year Flood	2435.6	628.85	632.86		633.29	0.010882	5.27	462.11	290.33	0.74
-658	2376.771	25 Year Flood	3650.1	628.85	633.38		633.92	0.009699	5.95	613.93	295.48	0.73
-658	2376.771	50 Year Flood	4657.2	628.85	633.77		634.4	0.008859	6.36	732.73	299.24	0.71
-658	2376.771	100 Year Flood	5726.7	628.85	634.21		634.89	0.007811	6.65	862.41	300.87	0.69
-658	2376.771	500 Year Flood	9399.6	628.85	635.84		636.59	0.004727	6.97	1358.73	307.62	0.58
-395	2113.273	2 Year Flood	818.8	627.25	630.14		630.26	0.004341	2.83	288.93	231.15	0.45

Table C-3

Alternative 2: Dam Removal with Existing Sediment Conditions within McTaggart's Pond

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-395	2113.273	5 Year Flood	1643.8	627.25	630.93		631.1	0.004147	3.37	487.6	290.43	0.46
-395	2113.273	10 Year Flood	2435.6	627.25	631.47		631.69	0.003626	3.77	646.13	294.18	0.45
-395	2113.273	25 Year Flood	3650.1	627.25	632.12		632.41	0.00348	4.35	838.98	298.52	0.46
-395	2113.273	50 Year Flood	4657.2	627.25	632.66		632.99	0.003219	4.65	1000.94	303.65	0.45
-395	2113.273	100 Year Flood	5726.7	627.25	633.28		633.64	0.0028	4.8	1193.51	314.95	0.43
-395	2113.273	500 Year Flood	9399.6	627.25	635.37		635.77	0.001773	5.07	1880.97	338.54	0.37
-209	1927.178	2 Year Flood	818.8	626.74	629.45		629.56	0.003285	2.65	308.49	221.39	0.4
-209	1927.178	5 Year Flood	1643.8	626.74	630.28		630.45	0.002984	3.24	506.93	250.61	0.4
-209	1927.178	10 Year Flood	2435.6	626.74	630.85		631.06	0.003089	3.73	653.5	269.01	0.42
-209	1927.178	25 Year Flood	3650.1	626.74	631.48		631.78	0.0033	4.43	824.86	275.7	0.45
-209	1927.178	50 Year Flood	4657.2	626.74	632.06		632.41	0.003065	4.71	988.9	284.7	0.45
-209	1927.178	100 Year Flood	5726.7	626.74	632.78		633.14	0.002581	4.78	1198.74	297.68	0.42
-209	1927.178	500 Year Flood	9399.6	626.74	635.07		635.45	0.001559	4.98	1909.04	319.46	0.35
-65	1783.649	2 Year Flood	818.8	625.09	627.87	627.87	628.54	0.021397	6.58	124.44	93.13	1
-65	1783.649	5 Year Flood	1643.8	625.09	628.79	628.79	629.49	0.02082	6.71	244.9	174.21	1
-65	1783.649	10 Year Flood	2435.6	625.09	629.25	629.25	630.1	0.019497	7.36	330.81	194.86	1
-65	1783.649	25 Year Flood	3650.1	625.09	630.1	629.81	630.91	0.012307	7.23	505.15	216.42	0.83
-65	1783.649	50 Year Flood	4657.2	625.09	631.18	630.21	631.77	0.006349	6.15	757.03	251.01	0.62
-65	1783.649	100 Year Flood	5726.7	625.09	632.18	630.59	632.68	0.003869	5.65	1014.38	263.75	0.51
-65	1783.649	500 Year Flood	9399.6	625.09	634.72	631.71	635.19	0.001976	5.5	1708.74	280.82	0.39
-19	1737.38	2 Year Flood	826.9	620.67	624.94	624.94	626.05	0.019053	8.44	98	44.19	1
-19	1737.38	5 Year Flood	1646.5	620.67	626.41	626.41	627.72	0.01794	9.19	179.14	68.12	1
-19	1737.38	10 Year Flood	2445.6	620.67	627.58	627.3	628.87	0.013142	9.09	269.01	82.55	0.89
-19	1737.38	25 Year Flood	3672.7	620.67	629.03	628.36	630.35	0.009827	9.22	398.33	96.51	0.8
-19	1737.38	50 Year Flood	4656.3	620.67	629.98	629.07	631.35	0.008833	9.4	495.46	107.99	0.77
-19	1737.38	100 Year Flood	5730.6	620.67	630.95	629.8	632.34	0.007801	9.45	606.56	119.79	0.74
-19	1737.38	500 Year Flood	9400.4	620.67	633.52	631.88	634.95	0.00636	9.59	990.7	190.85	0.69
0	1718.37	Inl Struct										
37	1681.53	2 Year Flood	826.9	616	621.16		621.29	0.001288	2.95	280.2	101.56	0.31
37	1681.53	5 Year Flood	1646.5	616	623.87		624	0.000506	2.9	614.75	149.12	0.22
37	1681.53	10 Year Flood	2445.6	616	626.01		626.15	0.00035	3.01	958.37	179.18	0.19
37	1681.53	25 Year Flood	3672.7	616	628.91		629.05	0.000248	3.14	1550.03	229.41	0.17
37	1681.53	50 Year Flood	4656.3	616	629.6		629.8	0.000315	3.7	1712.86	239.98	0.2
37	1681.53	100 Year Flood	5730.6	616	630.29		630.54	0.000385	4.25	1881.02	254.59	0.22
37	1681.53	500 Year Flood	9400.4	616	632.22		632.7	0.000596	5.86	2446.22	330.81	0.28
81	1636.923	2 Year Flood	826.9	616.05	620.82	619.24	621.15	0.003044	4.61	179.49	63.55	0.48
81	1636.923	5 Year Flood	1646.5	616.05	623.6	620.75	623.91	0.001291	4.48	367.72	91.17	0.35
81	1636.923	10 Year Flood	2445.6	616.05	625.72	621.61	626.06	0.0009	4.71	531.12	162.63	0.31
81	1636.923	25 Year Flood	3672.7	616.05	628.71	622.74	628.99	0.000522	4.51	1244.54	230.49	0.25
81	1636.923	50 Year Flood	4656.3	616.05	629.33	623.55	629.72	0.000675	5.33	1392.46	254.69	0.28
81	1636.923	100 Year Flood	5730.6	616.05	629.93	624.33	630.44	0.00083	6.13	1552.63	278.2	0.32
81	1636.923	500 Year Flood	9400.4	616.05	631.65	626.78	632.54	0.001266	8.3	2074.2	326.31	0.4
103	1615.645	Bridge										
135	1583.47	2 Year Flood	826.9	614.81	617.44	617.43	618.43	0.013948	7.98	103.6	50.98	0.99
135	1583.47	5 Year Flood	1646.5	614.81	618.63	618.63	620.11	0.012693	9.76	169.07	59.16	1
135	1583.47	10 Year Flood	2445.6	614.81	619.54	619.54	621.43	0.011376	11.05	225.64	64.83	0.99
135	1583.47	25 Year Flood	3672.7	614.81	620.79	620.79	623.18	0.009923	12.45	313.69	92.19	0.97
135	1583.47	50 Year Flood	4656.3	614.81	621.64	621.64	624.39	0.009404	13.42	378.16	113.63	0.97
135	1583.47	100 Year Flood	5730.6	614.81	622.48	622.48	625.61	0.00902	14.36	442.34	146.46	0.97
135	1583.47	500 Year Flood	9400.4	614.81	624.96	624.96	629.25	0.008334	16.97	630.54	188.43	0.98
248	1470.783	2 Year Flood	826.9	613.04	615.96	615.96	616.83	0.013609	8.06	147.55	91.46	0.98
248	1470.783	5 Year Flood	1646.5	613.04	616.99	616.99	618.33	0.012773	10.2	248.2	103.91	1.02
248	1470.783	10 Year Flood	2445.6	613.04	618.04	618.04	619.54	0.010097	11	382.17	137.94	0.95
248	1470.783	25 Year Flood	3672.7	613.04	618.96	618.96	620.92	0.010583	12.87	513.41	173.72	1.01
248	1470.783	50 Year Flood	4656.3	613.04	619.76	619.76	621.89	0.009722	13.6	641.42	214.47	0.99
248	1470.783	100 Year Flood	5730.6	613.04	620.41	620.41	622.83	0.009861	14.68	751.6	244.25	1.01

Table C-3

Alternative 2: Dam Removal with Existing Sediment Conditions within McTaggart's Pond

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
248	1470.783	500 Year Flood	9400.4	613.04	621.85	621.85	625.61	0.012317	18.74	1025.29	292.12	1.17
394	1324.077	2 Year Flood	826.9	597.53	601.03	601.03	602.29	0.013438	8.99	92.19	37.57	1
394	1324.077	5 Year Flood	1646.5	597.53	602.52	602.52	604.47	0.011271	11.21	152.52	43.31	0.99
394	1324.077	10 Year Flood	2445.6	597.53	603.74	603.74	606.21	0.010125	12.68	208.03	47.63	0.98
394	1324.077	25 Year Flood	3672.7	597.53	605.34	605.34	608.49	0.009207	14.43	288.39	53.4	0.97
394	1324.077	50 Year Flood	4656.3	597.53	606.43	606.43	610.11	0.008864	15.63	349.72	59.05	0.98
394	1324.077	100 Year Flood	5730.6	597.53	607.7	607.7	611.71	0.008025	16.42	430.15	67.93	0.95
394	1324.077	500 Year Flood	9400.4	597.53	611.05	611.05	616.21	0.00708	18.97	690.26	88.03	0.94
558	1159.907	2 Year Flood	826.9	591.07	594.08	594.08	595.25	0.014189	8.69	95.12	41.11	1.01
558	1159.907	5 Year Flood	1646.5	591.07	595.63	595.5	597.18	0.011293	9.99	164.87	48.27	0.95
558	1159.907	10 Year Flood	2445.6	591.07	596.97	596.71	598.65	0.009316	10.41	239.71	69	0.9
558	1159.907	25 Year Flood	3672.7	591.07	599.86		601.09	0.003465	9	466.4	85.75	0.6
558	1159.907	50 Year Flood	4656.3	591.07	601.69		602.87	0.002493	8.9	633.23	95.79	0.53
558	1159.907	100 Year Flood	5730.6	591.07	603.51		604.68	0.001971	8.96	835.35	137.2	0.48
558	1159.907	500 Year Flood	9400.4	591.07	609.07		610.12	0.001095	8.82	1670.34	160.24	0.39
640	1078.855	2 Year Flood	826.9	587.58	593.33	592.29	594.04	0.005353	6.76	122.3	34.69	0.63
640	1078.855	5 Year Flood	1646.5	587.58	595.25	593.96	596.39	0.005075	8.59	194.54	41.04	0.66
640	1078.855	10 Year Flood	2445.6	587.58	596.06	595.21	597.94	0.006908	11.03	228.8	42.73	0.79
640	1078.855	25 Year Flood	3672.7	587.58	597.71	596.85	600.29	0.006933	12.96	300.98	44.91	0.82
640	1078.855	50 Year Flood	4656.3	587.58	598.86	598	601.97	0.006956	14.24	353.79	46.8	0.84
640	1078.855	100 Year Flood	5730.6	587.58	600.04	599.16	603.67	0.00691	15.41	410.41	49.48	0.86
640	1078.855	500 Year Flood	9400.4	587.58	603.51	603	608.69	0.006737	18.54	609.87	69.23	0.89
729	988.8714	Bridge										
808	910.7321	2 Year Flood	826.9	578.19	580.69	580.69	581.63	0.014966	7.76	106.53	57.78	1.01
808	910.7321	5 Year Flood	1646.5	578.19	581.82	581.82	583.21	0.012897	9.47	173.82	61.98	1
808	910.7321	10 Year Flood	2445.6	578.19	582.7	582.7	584.46	0.012027	10.63	230.06	65.27	1
808	910.7321	25 Year Flood	3672.7	578.19	583.78	583.78	586.1	0.011119	12.21	302.91	69.38	1
808	910.7321	50 Year Flood	4656.3	578.19	584.61	584.61	587.28	0.010318	13.12	361.27	72.37	0.99
808	910.7321	100 Year Flood	5730.6	578.19	585.4	585.4	588.46	0.009863	14.06	419.92	74.62	0.99
808	910.7321	500 Year Flood	9400.4	578.19	587.84	587.84	592	0.008722	16.46	609.05	80.9	0.99
895	823.656	2 Year Flood	826.9	563.33	566.38	566.38	567.46	0.014557	8.33	99.32	46.88	1.01
895	823.656	5 Year Flood	1646.5	563.33	567.66	567.66	569.23	0.013005	10.03	164.21	54.25	1.01
895	823.656	10 Year Flood	2445.6	563.33	568.61	568.61	570.62	0.011729	11.38	217.73	58.46	1
895	823.656	25 Year Flood	3672.7	563.33	569.87	569.87	572.46	0.010527	12.94	294.7	63.48	0.99
895	823.656	50 Year Flood	4656.3	563.33	570.81	570.81	573.77	0.009719	13.87	356.26	67.49	0.98
895	823.656	100 Year Flood	5730.6	563.33	571.69	571.69	575.08	0.009372	14.87	416.86	70.08	0.98
895	823.656	500 Year Flood	9400.4	563.33	574.4	574.4	578.97	0.008342	17.4	616.67	77.49	0.98
1073	645.2139	2 Year Flood	826.9	555.97	558.95	558.95	559.99	0.014449	8.2	100.92	49.28	1.01
1073	645.2139	5 Year Flood	1646.5	555.97	560.18	560.18	561.77	0.011937	10.14	167.88	58.72	0.99
1073	645.2139	10 Year Flood	2445.6	555.97	561.18	561.18	563.19	0.010698	11.46	229.4	64.6	0.98
1073	645.2139	25 Year Flood	3672.7	555.97	562.47	562.47	565.04	0.009725	13.03	317.11	70.82	0.97
1073	645.2139	50 Year Flood	4656.3	555.97	563.38	563.38	566.35	0.009238	14.06	383.65	74.64	0.97
1073	645.2139	100 Year Flood	5730.6	555.97	564.29	564.29	567.66	0.008874	15.04	453.1	78.3	0.98
1073	645.2139	500 Year Flood	9400.4	555.97	567.04	567.04	571.51	0.007909	17.53	687.56	92.19	0.97
1210	507.9141	2 Year Flood	826.9	551.25	553.33	553.33	553.97	0.015899	6.45	133.66	113.34	0.99
1210	507.9141	5 Year Flood	1646.5	551.25	554.08	554.08	555.07	0.013716	8.08	220.81	118.14	0.99
1210	507.9141	10 Year Flood	2445.6	551.25	554.68	554.68	555.96	0.012811	9.24	292.42	121.25	1
1210	507.9141	25 Year Flood	3672.7	551.25	555.48	555.48	557.15	0.011842	10.58	391.06	139.46	1
1210	507.9141	50 Year Flood	4656.3	551.25	556.08	556.08	558	0.011065	11.38	466.72	166.27	0.99
1210	507.9141	100 Year Flood	5730.6	551.25	556.66	556.66	558.86	0.010685	12.21	540.47	177.86	1
1210	507.9141	500 Year Flood	9400.4	551.25	558.41	558.41	561.44	0.009672	14.38	772.2	214.57	1
1338	380.8181	2 Year Flood	826.9	547.32	549.59	549.59	550.26	0.016456	6.53	126.67	96.01	1
1338	380.8181	5 Year Flood	1646.5	547.32	550.38	550.38	551.38	0.014359	8.02	205.22	103.34	1
1338	380.8181	10 Year Flood	2445.6	547.32	550.99	550.99	552.28	0.013039	9.13	269.97	110.82	1
1338	380.8181	25 Year Flood	3672.7	547.32	551.82	551.82	553.47	0.011515	10.33	370.49	126.41	0.98
1338	380.8181	50 Year Flood	4656.3	547.32	552.42	552.42	554.31	0.010775	11.11	447.46	176.7	0.98

Table C-3

Alternative 2: Dam Removal with Existing Sediment Conditions within McTaggart's Pond

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
1338	380.8181	100 Year Flood	5730.6	547.32	553.01	553.01	555.15	0.010212	11.84	527.85	272.14	0.97
1338	380.8181	500 Year Flood	9400.4	547.32	554.74	554.74	557.62	0.009152	13.87	780.51	355.22	0.97
1473	245.2894	2 Year Flood	826.9	542.97	546.19	546.04	547.09	0.0118	7.61	108.69	129.66	0.92
1473	245.2894	5 Year Flood	1646.5	542.97	547.34	547.34	548.72	0.012867	9.45	174.42	191.62	1
1473	245.2894	10 Year Flood	2445.6	542.97	548.2	548.2	549.97	0.011508	10.69	232.91	239.55	0.99
1473	245.2894	25 Year Flood	3672.7	542.97	549.34	549.34	551.62	0.010378	12.17	318.09	307.48	0.98
1473	245.2894	50 Year Flood	4656.3	542.97	549.7	549.7	550.75	0.006181	9.86	987.26	316.95	0.77
1473	245.2894	100 Year Flood	5730.6	542.97	549.74	549.74	551.29	0.009004	11.97	1002.2	317.38	0.93
1473	245.2894	500 Year Flood	9400.4	542.97	551	551	553.07	0.009764	14.4	1407.7	328.43	1
Reach1	125.912	2 Year Flood	826.9	541.54	545.24	545.24	545.91	0.007668	7.68	260.03	220.48	0.78
Reach1	125.912	5 Year Flood	1646.5	541.54	546.07	546.07	546.96	0.008845	9.72	464.77	265.98	0.87
Reach1	125.912	10 Year Flood	2445.6	541.54	546.68	546.68	547.69	0.009214	10.94	632.07	281.39	0.92
Reach1	125.912	25 Year Flood	3672.7	541.54	547.37	547.37	548.61	0.010301	12.73	832.98	301.82	0.99
Reach1	125.912	50 Year Flood	4656.3	541.54	547.87	547.87	549.23	0.010605	13.74	985.03	308.79	1.02
Reach1	125.912	100 Year Flood	5730.6	541.54	548.3	548.3	549.83	0.011319	14.91	1117.99	313.93	1.07
Reach1	125.912	500 Year Flood	9400.4	541.54	549.55	549.55	551.58	0.012769	17.95	1521.31	328.25	1.17
Reach1	41.42999	2 Year Flood	826.9	538.74	541.06	541.06	541.95	0.014523	7.57	110.78	64.95	0.99
Reach1	41.42999	5 Year Flood	1646.5	538.74	542.11	542.11	543.49	0.012236	9.45	183.09	71.53	0.98
Reach1	41.42999	10 Year Flood	2445.6	538.74	542.97	542.97	544.73	0.011154	10.73	245.89	75.68	0.98
Reach1	41.42999	25 Year Flood	3672.7	538.74	544.09	544.09	546.36	0.010251	12.26	333.87	126.46	0.98
Reach1	41.42999	50 Year Flood	4656.3	538.74	544.9	544.9	547.53	0.009712	13.23	401.58	153.05	0.98
Reach1	41.42999	100 Year Flood	5730.6	538.74	546.15	546.15	548.34	0.00659	12.46	713.91	220.02	0.84
Reach1	41.42999	500 Year Flood	9400.4	538.74	548.09	548.09	550.78	0.00638	14.47	1169.23	255.22	0.86

Table C-3

Alternative 3: Dam Removal Assuming the Channel Sediment in McTaggart's Pond Extends to Refusal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-1987	3705.37	2 Year Flood	818.8	637.08	639.16	639.16	639.82	0.016004	6.55	128.82	110.27	0.99
-1987	3705.37	5 Year Flood	1643.8	637.08	640.32	639.98	641.04	0.007792	6.91	274.96	154.06	0.77
-1987	3705.37	10 Year Flood	2435.6	637.08	641.4		642.08	0.004785	6.87	448.65	166.41	0.64
-1987	3705.37	25 Year Flood	3650.1	637.08	642.61		643.39	0.003817	7.45	678.61	206.11	0.6
-1987	3705.37	50 Year Flood	4657.2	637.08	643.16		644.15	0.004237	8.44	796.92	228.61	0.64
-1987	3705.37	100 Year Flood	5726.7	637.08	643.63		644.83	0.004653	9.36	907.36	234.82	0.68
-1987	3705.37	500 Year Flood	9399.6	637.08	644.67	644.26	646.77	0.006764	12.58	1155.03	243.72	0.85
-1814	3532.84	2 Year Flood	818.8	635.48	638.66		638.81	0.001646	3.18	299.2	152.31	0.35
-1814	3532.84	5 Year Flood	1643.8	635.48	640.25		640.46	0.001186	3.75	551.82	164.15	0.33
-1814	3532.84	10 Year Flood	2435.6	635.48	641.33		641.59	0.001162	4.33	740.06	220.56	0.34
-1814	3532.84	25 Year Flood	3650.1	635.48	642.55		642.92	0.001239	5.15	1116.39	350.53	0.36
-1814	3532.84	50 Year Flood	4657.2	635.48	643.13		643.59	0.001411	5.82	1322.07	354.84	0.39
-1814	3532.84	100 Year Flood	5726.7	635.48	643.64		644.19	0.001605	6.5	1501.54	359.1	0.42
-1814	3532.84	500 Year Flood	9399.6	635.48	644.8		645.76	0.002402	8.76	1927.08	372.01	0.52
-1608	3326.795	2 Year Flood	818.8	633.84	637.06	636.89	638.06	0.008884	8.3	134.55	78.88	0.84
-1608	3326.795	5 Year Flood	1643.8	633.84	638.56	638.56	639.85	0.007417	9.94	301.56	141.51	0.83
-1608	3326.795	10 Year Flood	2435.6	633.84	639.41	639.41	640.97	0.007682	11.35	428.44	164.44	0.87
-1608	3326.795	25 Year Flood	3650.1	633.84	640.59	640.59	642.28	0.00714	12.49	721.25	343.49	0.86
-1608	3326.795	50 Year Flood	4657.2	633.84	641.66	641.66	643	0.005276	11.89	1220.19	524.63	0.76
-1608	3326.795	100 Year Flood	5726.7	633.84	642.32	642.32	643.58	0.004912	12.13	1591.05	578.73	0.74
-1608	3326.795	500 Year Flood	9399.6	633.84	643.4	643.4	644.95	0.006088	14.65	2224.03	599.47	0.85
-1374	3092.841	2 Year Flood	818.8	632.98	636.75	635.19	636.89	0.002163	3.02	271.23	124.64	0.35
-1374	3092.841	5 Year Flood	1643.8	632.98	637.77	636.15	638.03	0.002615	4.13	420.63	182.07	0.41
-1374	3092.841	10 Year Flood	2435.6	632.98	638.44	636.83	638.82	0.002988	5.01	537.56	278.84	0.45
-1374	3092.841	25 Year Flood	3650.1	632.98	639.26	637.6	639.75	0.003138	5.83	913.53	453.33	0.47
-1374	3092.841	50 Year Flood	4657.2	632.98	639.82	638.13	640.37	0.003164	6.31	1176.99	488.99	0.48
-1374	3092.841	100 Year Flood	5726.7	632.98	640.33	638.63	640.94	0.003246	6.8	1435.42	525.19	0.5
-1374	3092.841	500 Year Flood	9399.6	632.98	641.83	640.28	642.56	0.003217	7.89	2279.78	603.85	0.52
-1185	2902.916	2 Year Flood	818.8	632.59	635.15	635.15	635.91	0.019047	7.05	122.13	92.84	0.98
-1185	2902.916	5 Year Flood	1643.8	632.59	636.18	636.18	637.02	0.013306	7.66	299.47	241.09	0.87
-1185	2902.916	10 Year Flood	2435.6	632.59	636.71	636.71	637.72	0.01311	8.68	433.52	263.46	0.9
-1185	2902.916	25 Year Flood	3650.1	632.59	637.39	637.39	638.61	0.012745	9.85	627.11	305.34	0.91
-1185	2902.916	50 Year Flood	4657.2	632.59	637.9	637.9	639.24	0.012206	10.52	793.68	341.7	0.91
-1185	2902.916	100 Year Flood	5726.7	632.59	638.38	638.38	639.81	0.011711	11.09	962.8	364.02	0.91
-1185	2902.916	500 Year Flood	9399.6	632.59	639.56	639.56	641.39	0.012072	13.12	1421.08	405.72	0.96
-1095	2813.468	2 Year Flood	818.8	626.81	631.04		631.18	0.001493	2.98	274.47	105.42	0.33
-1095	2813.468	5 Year Flood	1643.8	626.81	632.53		632.75	0.001486	3.72	446.16	124.5	0.33
-1095	2813.468	10 Year Flood	2435.6	626.81	633.34		633.65	0.001792	4.55	549.71	134.39	0.37
-1095	2813.468	25 Year Flood	3650.1	626.81	634.1		634.62	0.002453	5.83	656.01	146.96	0.44
-1095	2813.468	50 Year Flood	4657.2	626.81	634.58		635.28	0.002996	6.78	729.76	157.36	0.49
-1095	2813.468	100 Year Flood	5726.7	626.81	635.01		635.91	0.003571	7.73	798.83	173.31	0.54
-1095	2813.468	500 Year Flood	9399.6	626.81	636.07	634.74	637.73	0.005537	10.61	1031.56	291.5	0.68
-895	2613.664	2 Year Flood	818.8	626.39	630.35		630.72	0.003572	4.87	170.77	69.05	0.48
-895	2613.664	5 Year Flood	1643.8	626.39	631.89	630.36	632.32	0.003	5.66	378.71	211.34	0.46
-895	2613.664	10 Year Flood	2435.6	626.39	632.91	631.8	633.26	0.002223	5.53	614.83	242.77	0.41
-895	2613.664	25 Year Flood	3650.1	626.39	633.69		634.11	0.002424	6.27	808.97	254.49	0.43
-895	2613.664	50 Year Flood	4657.2	626.39	634.18		634.68	0.002626	6.84	935.37	258.36	0.46
-895	2613.664	100 Year Flood	5726.7	626.39	634.61		635.19	0.002902	7.48	1047.14	266.78	0.48
-895	2613.664	500 Year Flood	9399.6	626.39	635.76		636.64	0.003644	9.22	1369.13	289.16	0.56
-658	2376.771	2 Year Flood	818.8	625.4	627.88	627.88	629	0.018766	8.46	96.74	43.93	1.01
-658	2376.771	5 Year Flood	1643.8	625.4	629.31	629.31	630.87	0.015596	10.02	165.85	57.9	0.97
-658	2376.771	10 Year Flood	2435.6	625.4	630.49	630.49	632.13	0.012643	10.46	247.85	89.62	0.91
-658	2376.771	25 Year Flood	3650.1	625.4	632.15	632.15	633.2	0.006563	9.07	546.33	274.32	0.68
-658	2376.771	50 Year Flood	4657.2	625.4	632.58	632.58	633.71	0.006829	9.72	669.31	287.25	0.7
-658	2376.771	100 Year Flood	5726.7	625.4	633	633	634.18	0.006879	10.21	789.58	291.67	0.71
-658	2376.771	500 Year Flood	9399.6	625.4	634.33		635.58	0.006089	10.91	1187.82	301.36	0.69
-395	2113.273	2 Year Flood	818.8	621.74	625.79		626.14	0.003455	4.81	170.28	50.19	0.46

Table C-3

Alternative 3: Dam Removal Assuming the Channel Sediment in McTaggart's Pond Extends to Refusal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
-395	2113.273	5 Year Flood	1643.8	621.74	627.66		628.23	0.00359	6.06	271.55	60.1	0.49
-395	2113.273	10 Year Flood	2435.6	621.74	628.82		629.58	0.003784	7.05	364.56	101.87	0.52
-395	2113.273	25 Year Flood	3650.1	621.74	630.19		631.02	0.003376	7.69	600.04	233.02	0.51
-395	2113.273	50 Year Flood	4657.2	621.74	631.03		631.83	0.003061	7.89	817.04	291.08	0.49
-395	2113.273	100 Year Flood	5726.7	621.74	631.71		632.46	0.0028	7.97	1016.31	295.83	0.48
-395	2113.273	500 Year Flood	9399.6	621.74	633.76		634.44	0.002167	8.09	1646.61	325.18	0.44
-209	1927.178	2 Year Flood	818.8	620.6	625.41		625.64	0.001877	3.9	209.7	53.23	0.35
-209	1927.178	5 Year Flood	1643.8	620.6	627.22		627.65	0.002363	5.25	313.75	73.69	0.41
-209	1927.178	10 Year Flood	2435.6	620.6	628.45		628.96	0.002273	5.92	477.76	169.29	0.41
-209	1927.178	25 Year Flood	3650.1	620.6	629.97		630.45	0.001841	6.14	788.92	243.9	0.38
-209	1927.178	50 Year Flood	4657.2	620.6	630.82		631.3	0.00171	6.33	1006.44	268.68	0.38
-209	1927.178	100 Year Flood	5726.7	620.6	631.45		631.97	0.001739	6.68	1178.82	275.46	0.38
-209	1927.178	500 Year Flood	9399.6	620.6	633.48		634.04	0.00161	7.32	1770.07	309.17	0.38
-65	1783.649	2 Year Flood	818.8	621.34	623.83	623.83	624.94	0.018534	8.43	97.14	43.96	1
-65	1783.649	5 Year Flood	1643.8	621.34	625.2	625.2	626.82	0.01647	10.22	160.84	49.42	1
-65	1783.649	10 Year Flood	2435.6	621.34	626.33	626.33	628.18	0.013796	10.91	223.19	60.02	1
-65	1783.649	25 Year Flood	3650.1	621.34	628.06	627.62	629.84	0.009313	10.75	349.58	103.84	0.85
-65	1783.649	50 Year Flood	4657.2	621.34	629.14	629.14	630.78	0.007249	10.6	514.29	191.45	0.76
-65	1783.649	100 Year Flood	5726.7	621.34	629.8	629.8	631.46	0.006806	10.94	649.1	209.9	0.75
-65	1783.649	500 Year Flood	9399.6	621.34	632.81	631.37	633.74	0.002915	9.02	1389.34	268.92	0.51
-19	1737.38	2 Year Flood	826.9	619	621.79	621.47	622.61	0.012339	7.27	113.81	47.58	0.83
-19	1737.38	5 Year Flood	1646.5	619	623.5	622.79	624.53	0.008998	8.13	202.47	55.92	0.75
-19	1737.38	10 Year Flood	2445.6	619	625.61	623.82	626.46	0.004883	7.38	331.5	66.53	0.58
-19	1737.38	25 Year Flood	3672.7	619	628.64	625.11	629.28	0.002781	6.42	571.76	92.88	0.46
-19	1737.38	50 Year Flood	4656.3	619	629.26	626.05	630.11	0.003511	7.38	631.3	99.36	0.52
-19	1737.38	100 Year Flood	5730.6	619	629.88	626.99	630.94	0.004242	8.24	695.1	106.84	0.57
-19	1737.38	500 Year Flood	9400.4	619	631.85	629.51	633.43	0.006014	10.09	931.29	137.87	0.68
0	1718.37		Inl Struct									
37	1681.53	2 Year Flood	826.9	616	621.16		621.29	0.001288	2.95	280.2	101.56	0.31
37	1681.53	5 Year Flood	1646.5	616	623.87		624	0.000506	2.9	614.75	149.12	0.22
37	1681.53	10 Year Flood	2445.6	616	626.01		626.15	0.00035	3.01	958.37	179.18	0.19
37	1681.53	25 Year Flood	3672.7	616	628.91		629.05	0.000248	3.14	1550.03	229.41	0.17
37	1681.53	50 Year Flood	4656.3	616	629.6		629.8	0.000315	3.7	1712.86	239.98	0.2
37	1681.53	100 Year Flood	5730.6	616	630.29		630.54	0.000385	4.25	1881.02	254.59	0.22
37	1681.53	500 Year Flood	9400.4	616	632.22		632.7	0.000596	5.86	2446.22	330.81	0.28
81	1636.923	2 Year Flood	826.9	616.05	620.82	619.24	621.15	0.003044	4.61	179.49	63.55	0.48
81	1636.923	5 Year Flood	1646.5	616.05	623.6	620.75	623.91	0.001291	4.48	367.72	91.17	0.35
81	1636.923	10 Year Flood	2445.6	616.05	625.72	621.61	626.06	0.0009	4.71	531.12	162.63	0.31
81	1636.923	25 Year Flood	3672.7	616.05	628.71	622.74	628.99	0.000522	4.51	1244.54	230.49	0.25
81	1636.923	50 Year Flood	4656.3	616.05	629.33	623.55	629.72	0.000675	5.33	1392.46	254.69	0.28
81	1636.923	100 Year Flood	5730.6	616.05	629.93	624.33	630.44	0.00083	6.13	1552.63	278.2	0.32
81	1636.923	500 Year Flood	9400.4	616.05	631.65	626.78	632.54	0.001266	8.3	2074.2	326.31	0.4
103	1615.645		Bridge									
135	1583.47	2 Year Flood	826.9	614.81	617.44	617.43	618.43	0.013948	7.98	103.6	50.98	0.99
135	1583.47	5 Year Flood	1646.5	614.81	618.63	618.63	620.11	0.012693	9.76	169.07	59.16	1
135	1583.47	10 Year Flood	2445.6	614.81	619.54	619.54	621.43	0.011376	11.05	225.64	64.83	0.99
135	1583.47	25 Year Flood	3672.7	614.81	620.79	620.79	623.18	0.009923	12.45	313.69	92.19	0.97
135	1583.47	50 Year Flood	4656.3	614.81	621.64	621.64	624.39	0.009404	13.42	378.16	113.63	0.97
135	1583.47	100 Year Flood	5730.6	614.81	622.48	622.48	625.61	0.00902	14.36	442.34	146.46	0.97
135	1583.47	500 Year Flood	9400.4	614.81	624.96	624.96	629.25	0.008334	16.97	630.54	188.43	0.98
248	1470.783	2 Year Flood	826.9	613.04	615.96	615.96	616.83	0.013609	8.06	147.55	91.46	0.98
248	1470.783	5 Year Flood	1646.5	613.04	616.99	616.99	618.33	0.012773	10.2	248.2	103.91	1.02
248	1470.783	10 Year Flood	2445.6	613.04	618.04	618.04	619.54	0.010097	11	382.17	137.94	0.95
248	1470.783	25 Year Flood	3672.7	613.04	618.96	618.96	620.92	0.010583	12.87	513.41	173.72	1.01
248	1470.783	50 Year Flood	4656.3	613.04	619.76	619.76	621.89	0.009722	13.6	641.42	214.47	0.99
248	1470.783	100 Year Flood	5730.6	613.04	620.41	620.41	622.83	0.009861	14.68	751.6	244.25	1.01

Table C-3

Alternative 3: Dam Removal Assuming the Channel Sediment in McTaggart's Pond Extends to Refusal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
248	1470.783	500 Year Flood	9400.4	613.04	621.85	621.85	625.61	0.012317	18.74	1025.29	292.12	1.17
394	1324.077	2 Year Flood	826.9	597.53	601.03	601.03	602.29	0.013438	8.99	92.19	37.57	1
394	1324.077	5 Year Flood	1646.5	597.53	602.52	602.52	604.47	0.011271	11.21	152.52	43.31	0.99
394	1324.077	10 Year Flood	2445.6	597.53	603.74	603.74	606.21	0.010125	12.68	208.03	47.63	0.98
394	1324.077	25 Year Flood	3672.7	597.53	605.34	605.34	608.49	0.009207	14.43	288.39	53.4	0.97
394	1324.077	50 Year Flood	4656.3	597.53	606.43	606.43	610.11	0.008864	15.63	349.72	59.05	0.98
394	1324.077	100 Year Flood	5730.6	597.53	607.7	607.7	611.71	0.008025	16.42	430.15	67.93	0.95
394	1324.077	500 Year Flood	9400.4	597.53	611.05	611.05	616.21	0.00708	18.97	690.26	88.03	0.94
558	1159.907	2 Year Flood	826.9	591.07	594.08	594.08	595.25	0.014189	8.69	95.12	41.11	1.01
558	1159.907	5 Year Flood	1646.5	591.07	595.63	595.5	597.18	0.011293	9.99	164.87	48.27	0.95
558	1159.907	10 Year Flood	2445.6	591.07	596.97	596.71	598.65	0.009316	10.41	239.71	69	0.9
558	1159.907	25 Year Flood	3672.7	591.07	599.86		601.09	0.003465	9	466.4	85.75	0.6
558	1159.907	50 Year Flood	4656.3	591.07	601.69		602.87	0.002493	8.9	633.23	95.79	0.53
558	1159.907	100 Year Flood	5730.6	591.07	603.51		604.68	0.001971	8.96	835.35	137.2	0.48
558	1159.907	500 Year Flood	9400.4	591.07	609.07		610.12	0.001095	8.82	1670.34	160.24	0.39
640	1078.855	2 Year Flood	826.9	587.58	593.33	592.29	594.04	0.005353	6.76	122.3	34.69	0.63
640	1078.855	5 Year Flood	1646.5	587.58	595.25	593.96	596.39	0.005075	8.59	194.54	41.04	0.66
640	1078.855	10 Year Flood	2445.6	587.58	596.06	595.21	597.94	0.006908	11.03	228.8	42.73	0.79
640	1078.855	25 Year Flood	3672.7	587.58	597.71	596.85	600.29	0.006933	12.96	300.98	44.91	0.82
640	1078.855	50 Year Flood	4656.3	587.58	598.86	598	601.97	0.006956	14.24	353.79	46.8	0.84
640	1078.855	100 Year Flood	5730.6	587.58	600.04	599.16	603.67	0.00691	15.41	410.41	49.48	0.86
640	1078.855	500 Year Flood	9400.4	587.58	603.51	603	608.69	0.006737	18.54	609.87	69.23	0.89
729	988.8714	Bridge										
808	910.7321	2 Year Flood	826.9	578.19	580.69	580.69	581.63	0.014966	7.76	106.53	57.78	1.01
808	910.7321	5 Year Flood	1646.5	578.19	581.82	581.82	583.21	0.012897	9.47	173.82	61.98	1
808	910.7321	10 Year Flood	2445.6	578.19	582.7	582.7	584.46	0.012027	10.63	230.06	65.27	1
808	910.7321	25 Year Flood	3672.7	578.19	583.78	583.78	586.1	0.011119	12.21	302.91	69.38	1
808	910.7321	50 Year Flood	4656.3	578.19	584.61	584.61	587.28	0.010318	13.12	361.27	72.37	0.99
808	910.7321	100 Year Flood	5730.6	578.19	585.4	585.4	588.46	0.009863	14.06	419.92	74.62	0.99
808	910.7321	500 Year Flood	9400.4	578.19	587.84	587.84	592	0.008722	16.46	609.05	80.9	0.99
895	823.656	2 Year Flood	826.9	563.33	566.38	566.38	567.46	0.014557	8.33	99.32	46.88	1.01
895	823.656	5 Year Flood	1646.5	563.33	567.66	567.66	569.23	0.013005	10.03	164.21	54.25	1.01
895	823.656	10 Year Flood	2445.6	563.33	568.61	568.61	570.62	0.011729	11.38	217.73	58.46	1
895	823.656	25 Year Flood	3672.7	563.33	569.87	569.87	572.46	0.010527	12.94	294.7	63.48	0.99
895	823.656	50 Year Flood	4656.3	563.33	570.81	570.81	573.77	0.009719	13.87	356.26	67.49	0.98
895	823.656	100 Year Flood	5730.6	563.33	571.69	571.69	575.08	0.009372	14.87	416.86	70.08	0.98
895	823.656	500 Year Flood	9400.4	563.33	574.4	574.4	578.97	0.008342	17.4	616.67	77.49	0.98
1073	645.2139	2 Year Flood	826.9	555.97	558.95	558.95	559.99	0.014449	8.2	100.92	49.28	1.01
1073	645.2139	5 Year Flood	1646.5	555.97	560.18	560.18	561.77	0.011937	10.14	167.88	58.72	0.99
1073	645.2139	10 Year Flood	2445.6	555.97	561.18	561.18	563.19	0.010698	11.46	229.4	64.6	0.98
1073	645.2139	25 Year Flood	3672.7	555.97	562.47	562.47	565.04	0.009725	13.03	317.11	70.82	0.97
1073	645.2139	50 Year Flood	4656.3	555.97	563.38	563.38	566.35	0.009238	14.06	383.65	74.64	0.97
1073	645.2139	100 Year Flood	5730.6	555.97	564.29	564.29	567.66	0.008874	15.04	453.1	78.3	0.98
1073	645.2139	500 Year Flood	9400.4	555.97	567.04	567.04	571.51	0.007909	17.53	687.56	92.19	0.97
1210	507.9141	2 Year Flood	826.9	551.25	553.33	553.33	553.97	0.015899	6.45	133.66	113.34	0.99
1210	507.9141	5 Year Flood	1646.5	551.25	554.08	554.08	555.07	0.013716	8.08	220.81	118.14	0.99
1210	507.9141	10 Year Flood	2445.6	551.25	554.68	554.68	555.96	0.012811	9.24	292.42	121.25	1
1210	507.9141	25 Year Flood	3672.7	551.25	555.48	555.48	557.15	0.011842	10.58	391.06	139.46	1
1210	507.9141	50 Year Flood	4656.3	551.25	556.08	556.08	558	0.011065	11.38	466.72	166.27	0.99
1210	507.9141	100 Year Flood	5730.6	551.25	556.66	556.66	558.86	0.010685	12.21	540.47	177.86	1
1210	507.9141	500 Year Flood	9400.4	551.25	558.41	558.41	561.44	0.009672	14.38	772.2	214.57	1
1338	380.8181	2 Year Flood	826.9	547.32	549.59	549.59	550.26	0.016456	6.53	126.67	96.01	1
1338	380.8181	5 Year Flood	1646.5	547.32	550.38	550.38	551.38	0.014359	8.02	205.22	103.34	1
1338	380.8181	10 Year Flood	2445.6	547.32	550.99	550.99	552.28	0.013039	9.13	269.97	110.82	1
1338	380.8181	25 Year Flood	3672.7	547.32	551.82	551.82	553.47	0.011515	10.33	370.49	126.41	0.98
1338	380.8181	50 Year Flood	4656.3	547.32	552.42	552.42	554.31	0.010775	11.11	447.46	176.7	0.98

Table C-3

Alternative 3: Dam Removal Assuming the Channel Sediment in McTaggart's Pond Extends to Refusal

Distance US of Dam (ft)	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
1338	380.8181	100 Year Flood	5730.6	547.32	553.01	553.01	555.15	0.010212	11.84	527.85	272.14	0.97
1338	380.8181	500 Year Flood	9400.4	547.32	554.74	554.74	557.62	0.009152	13.87	780.51	355.22	0.97
1473	245.2894	2 Year Flood	826.9	542.97	546.19	546.04	547.09	0.0118	7.61	108.69	129.66	0.92
1473	245.2894	5 Year Flood	1646.5	542.97	547.34	547.34	548.72	0.012867	9.45	174.42	191.62	1
1473	245.2894	10 Year Flood	2445.6	542.97	548.2	548.2	549.97	0.011508	10.69	232.91	239.55	0.99
1473	245.2894	25 Year Flood	3672.7	542.97	549.34	549.34	551.62	0.010378	12.17	318.09	307.48	0.98
1473	245.2894	50 Year Flood	4656.3	542.97	549.7	549.7	550.75	0.006181	9.86	987.26	316.95	0.77
1473	245.2894	100 Year Flood	5730.6	542.97	549.74	549.74	551.29	0.009004	11.97	1002.2	317.38	0.93
1473	245.2894	500 Year Flood	9400.4	542.97	551	551	553.07	0.009764	14.4	1407.7	328.43	1
Reach1	125.912	2 Year Flood	826.9	541.54	545.24	545.24	545.91	0.007668	7.68	260.03	220.48	0.78
Reach1	125.912	5 Year Flood	1646.5	541.54	546.07	546.07	546.96	0.008845	9.72	464.77	265.98	0.87
Reach1	125.912	10 Year Flood	2445.6	541.54	546.68	546.68	547.69	0.009214	10.94	632.07	281.39	0.92
Reach1	125.912	25 Year Flood	3672.7	541.54	547.37	547.37	548.61	0.010301	12.73	832.98	301.82	0.99
Reach1	125.912	50 Year Flood	4656.3	541.54	547.87	547.87	549.23	0.010605	13.74	985.03	308.79	1.02
Reach1	125.912	100 Year Flood	5730.6	541.54	548.3	548.3	549.83	0.011319	14.91	1117.99	313.93	1.07
Reach1	125.912	500 Year Flood	9400.4	541.54	549.55	549.55	551.58	0.012769	17.95	1521.31	328.25	1.17
Reach1	41.42999	2 Year Flood	826.9	538.74	541.06	541.06	541.95	0.014523	7.57	110.78	64.95	0.99
Reach1	41.42999	5 Year Flood	1646.5	538.74	542.11	542.11	543.49	0.012236	9.45	183.09	71.53	0.98
Reach1	41.42999	10 Year Flood	2445.6	538.74	542.97	542.97	544.73	0.011154	10.73	245.89	75.68	0.98
Reach1	41.42999	25 Year Flood	3672.7	538.74	544.09	544.09	546.36	0.010251	12.26	333.87	126.46	0.98
Reach1	41.42999	50 Year Flood	4656.3	538.74	544.9	544.9	547.53	0.009712	13.23	401.58	153.05	0.98
Reach1	41.42999	100 Year Flood	5730.6	538.74	546.15	546.15	548.34	0.00659	12.46	713.91	220.02	0.84
Reach1	41.42999	500 Year Flood	9400.4	538.74	548.09	548.09	550.78	0.00638	14.47	1169.23	255.22	0.86