APPENDIX C

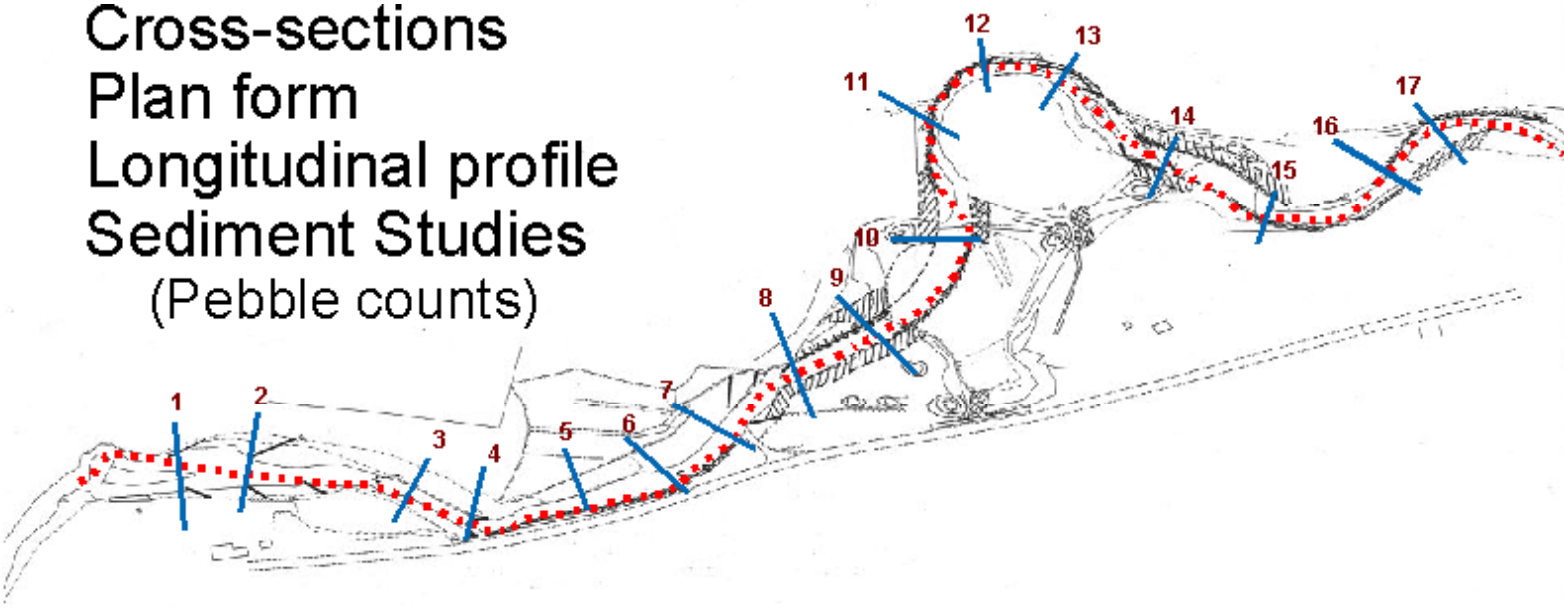
PRE, POST, AND ONE YEAR POST CONSTRUCTION

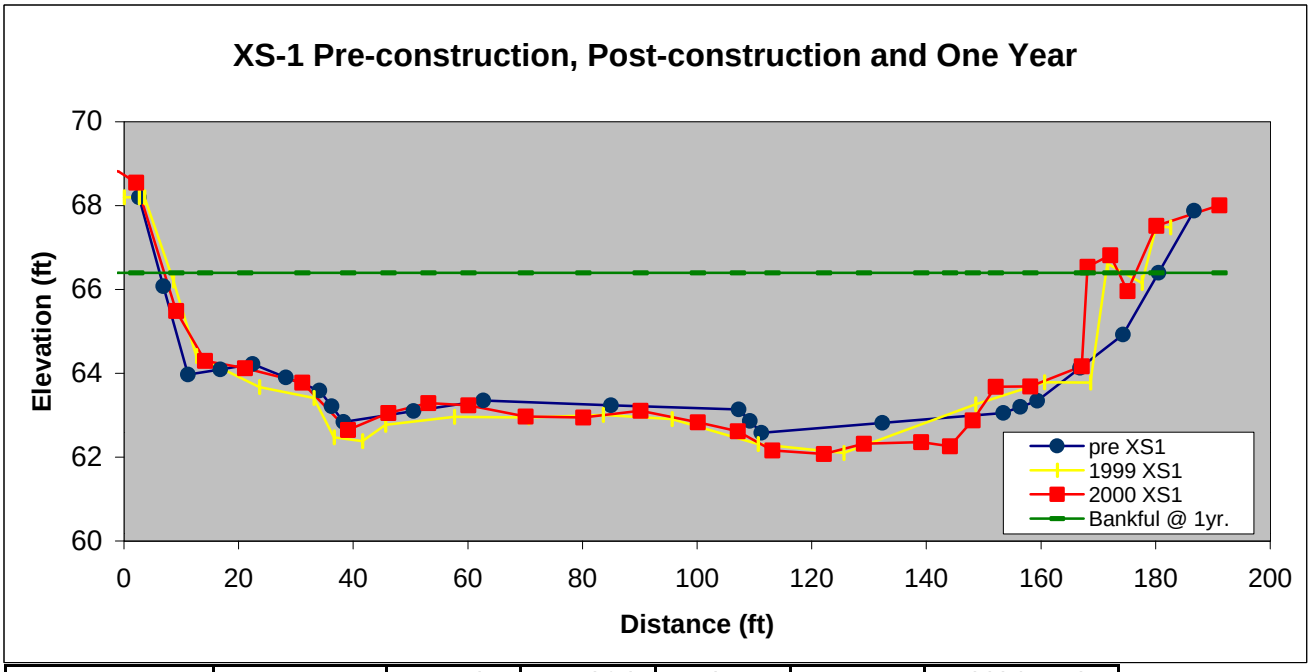
MONITORING DATA

Back to Table of Contents
in Trout River Report

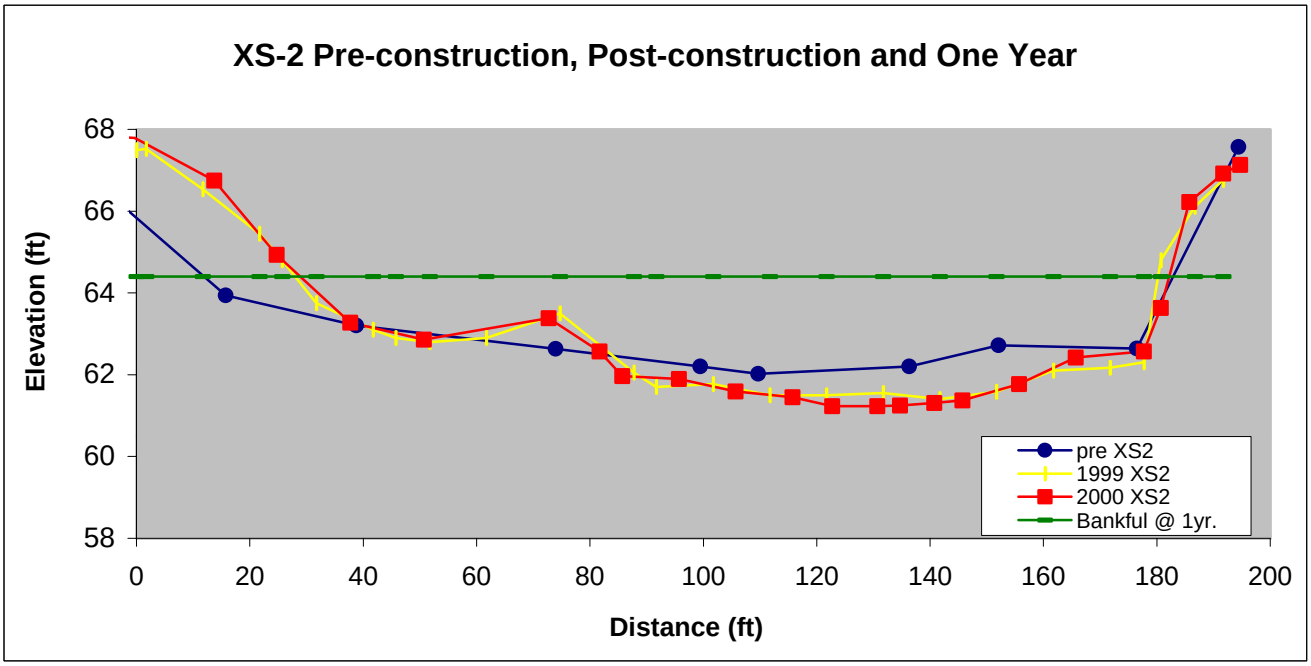
Physical Monitoring

Cross-sections
Plan form
Longitudinal profile
Sediment Studies
(Pebble counts)

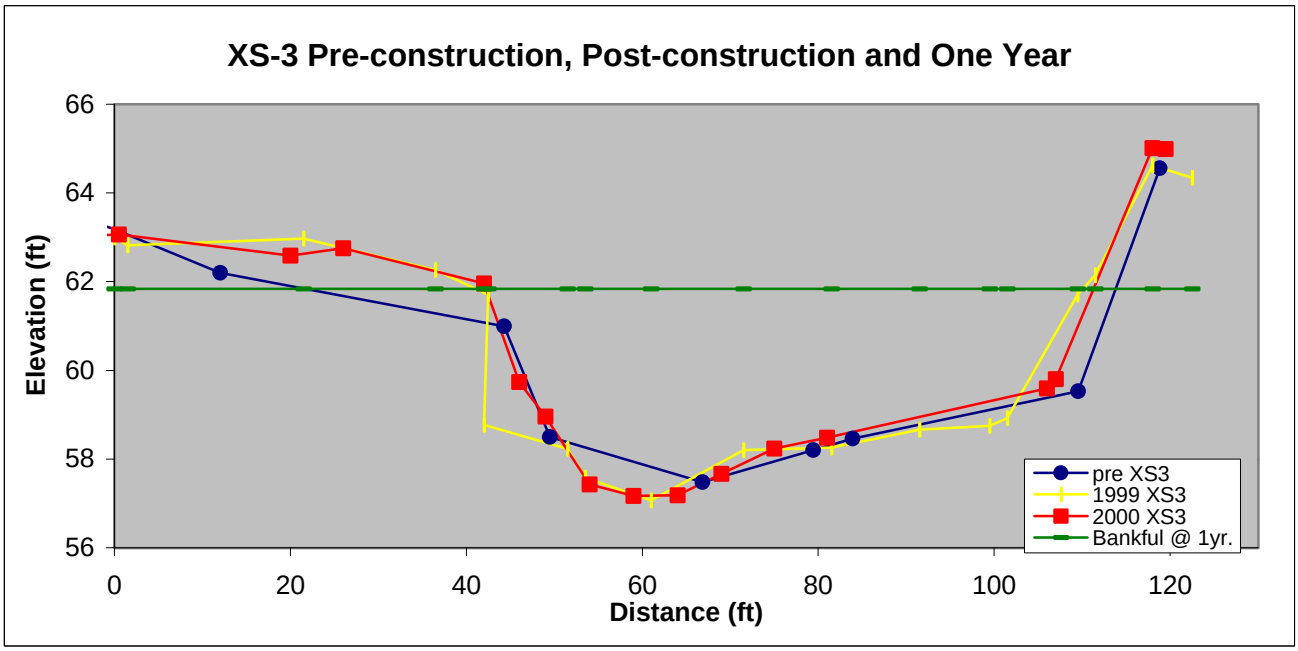




Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	66.4	518.5	173.6	3.82	2.99	58.2
1999 XS1	66.4	542.2	169	4.3	3.21	52.7
2000 XS1	66.4	523.7	162	4.32	3.23	50.1

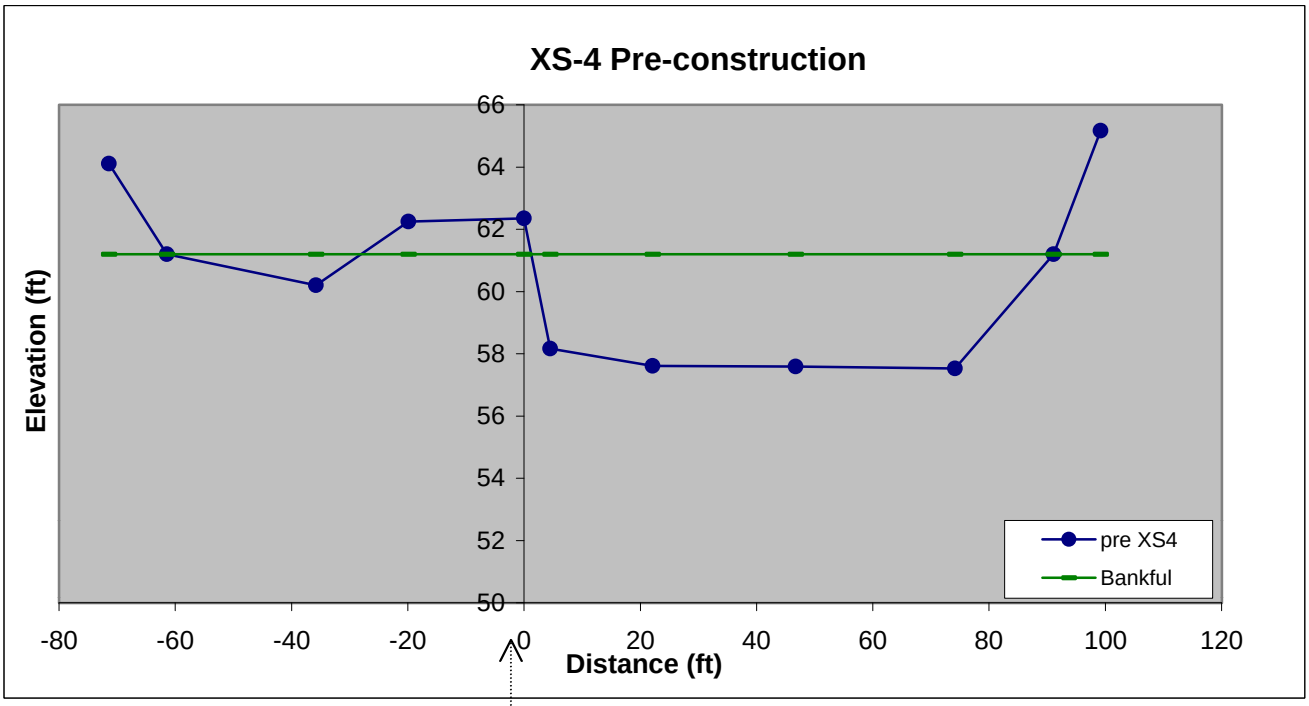


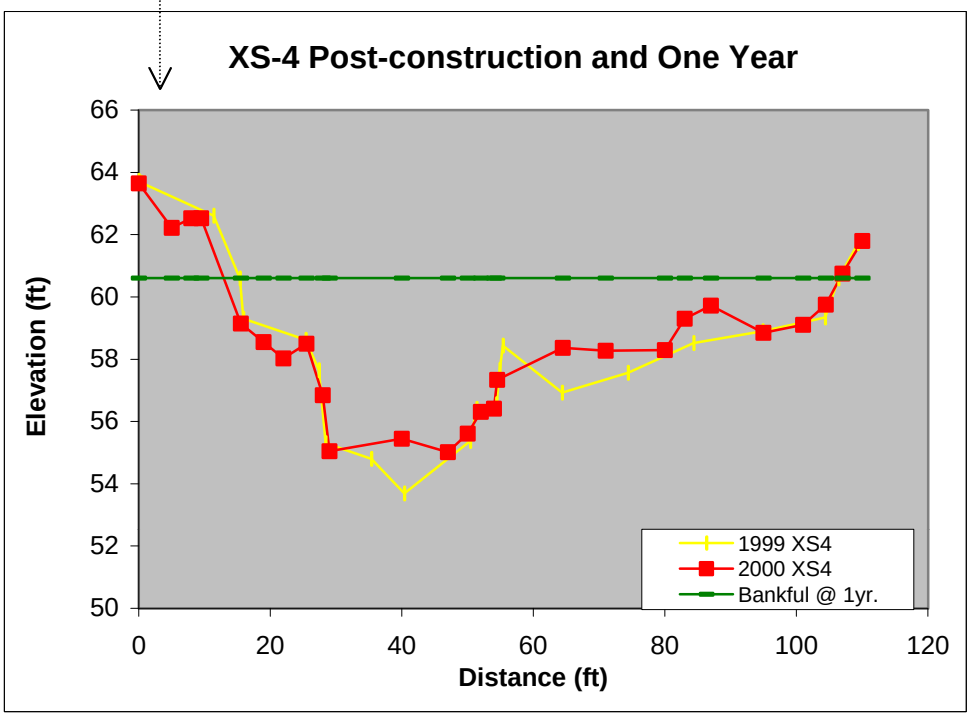
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	64.4	278.9	160.7	2.38	1.74	92.6
1999 XS2	64.4	321.9	155	3	2.08	74.6
2000 XS2	64.4	322.3	156	3.17	2.07	75.5



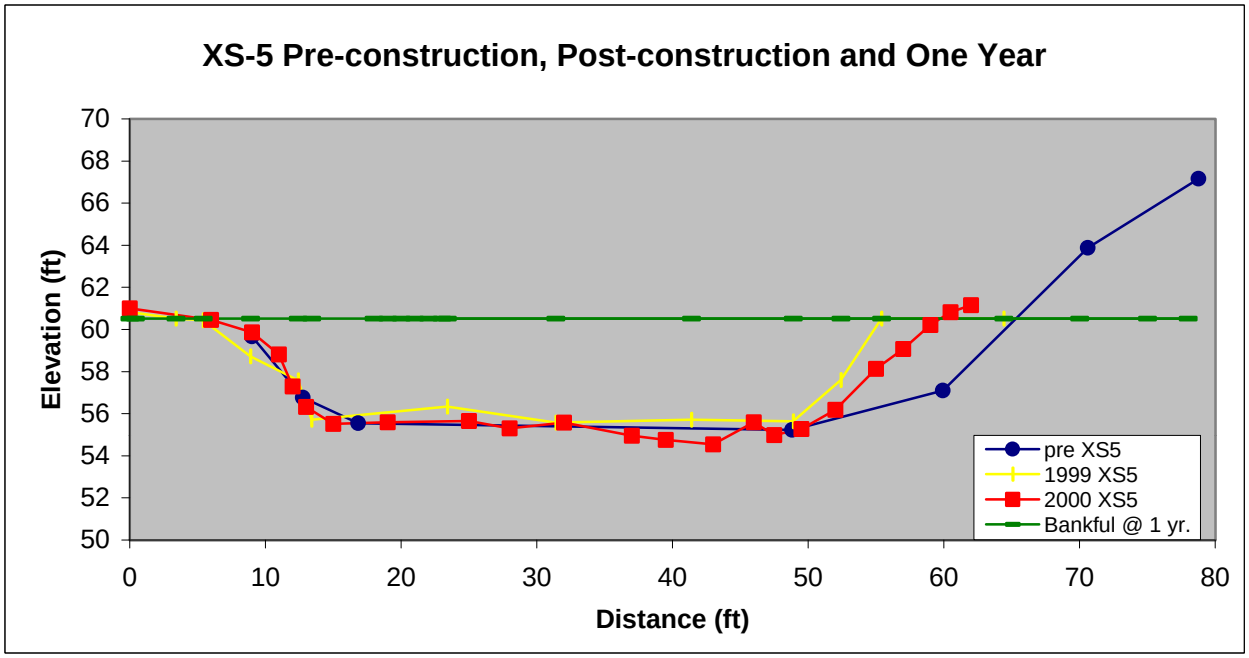
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	62.2	261.2	106.8	4.72	2.45	43.7
1999 XS3	61.71	221.4	67.5	4.63	3.28	20.6
2000 XS3	61.84	213.89	65	4.67	3.29	19.75

For all cross-sections 1-17, a single bankfull channel elevation was selected and used to illustrate the change in channel shape in the pre, post, and one-year post construction condition. The use of this elevation for the pre-construction channel has inflated the mean and max depths and cross-section area at the bankfull design flow for certain pre-construction cross-sections.

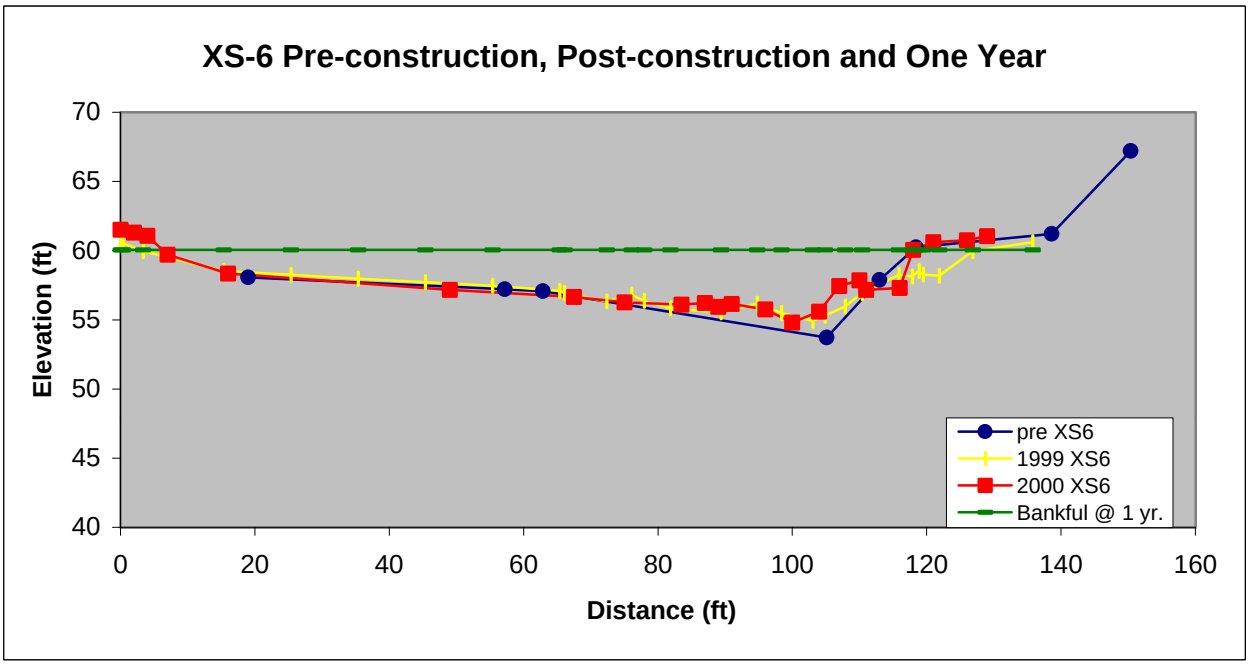




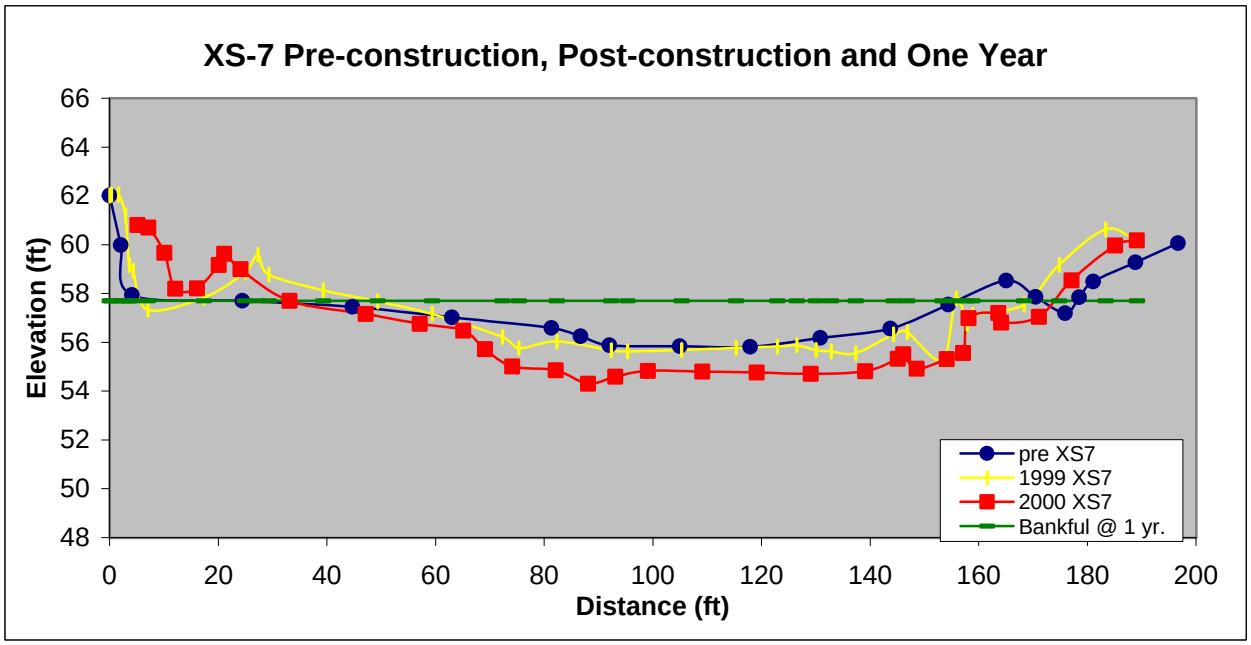
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	61.2	295	116.8	3.67	2.53	46.2
1999 XS4	60.6	296.5	91	6.9	3.25	27.97
2000 XS4	60.6	262.95	91.5	5.59	2.87	31.84



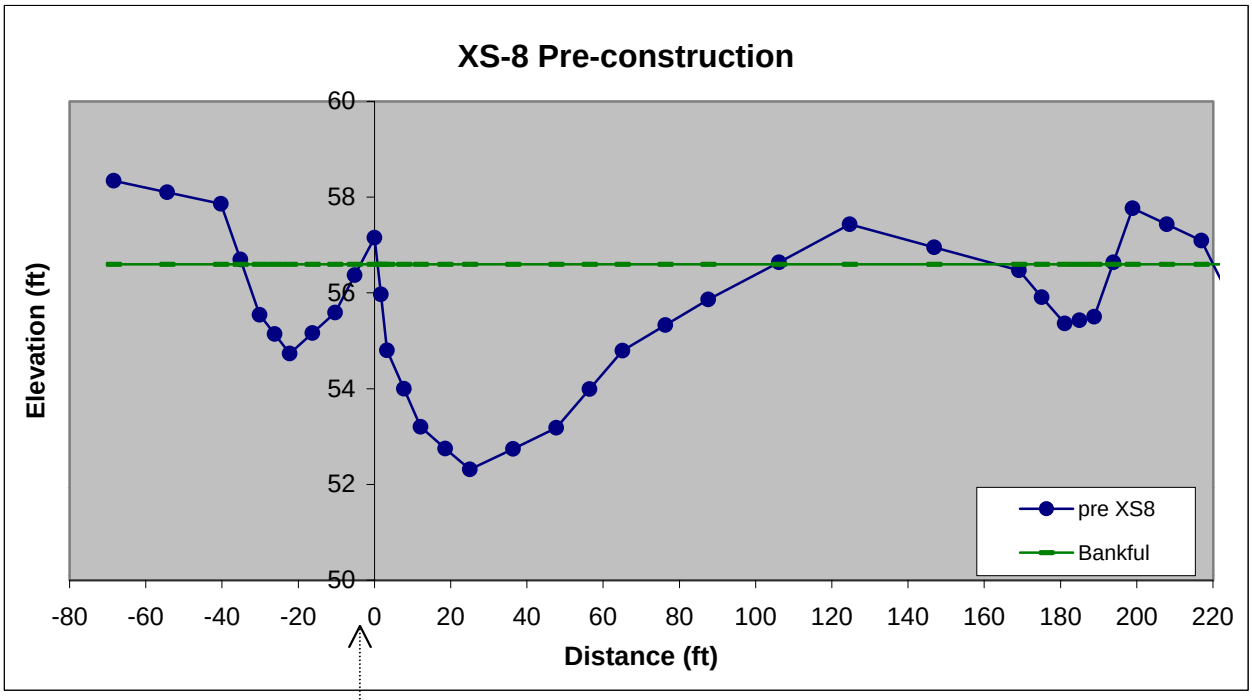
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	59.67	195.7	50.9	4.44	3.84	13.3
1999 XS5	60.52	199.9	52	4.94	3.84	13.5
2000 XS5	60.52	227.2	54.5	5.98	4.17	13.1

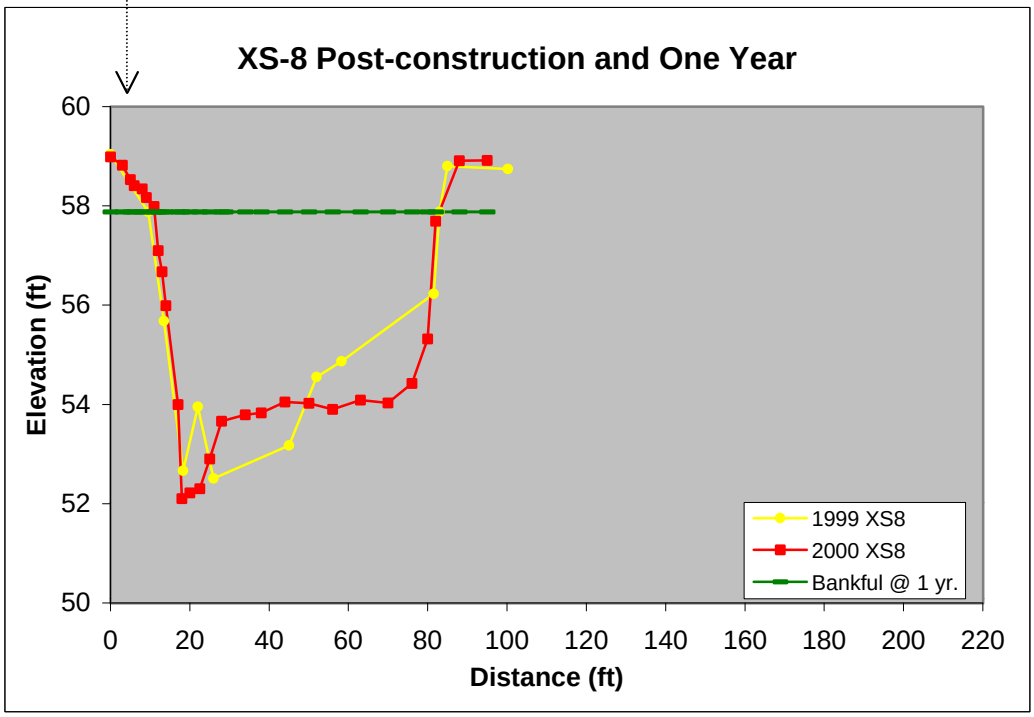


Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	59.3	295.1	135.9	5.58	2.17	62.6
1999 XS6	59.96	320.83	123.5	5.03	2.59	47.54
2000 XS6	60.05	328.5	111	5.24	2.96	37.5



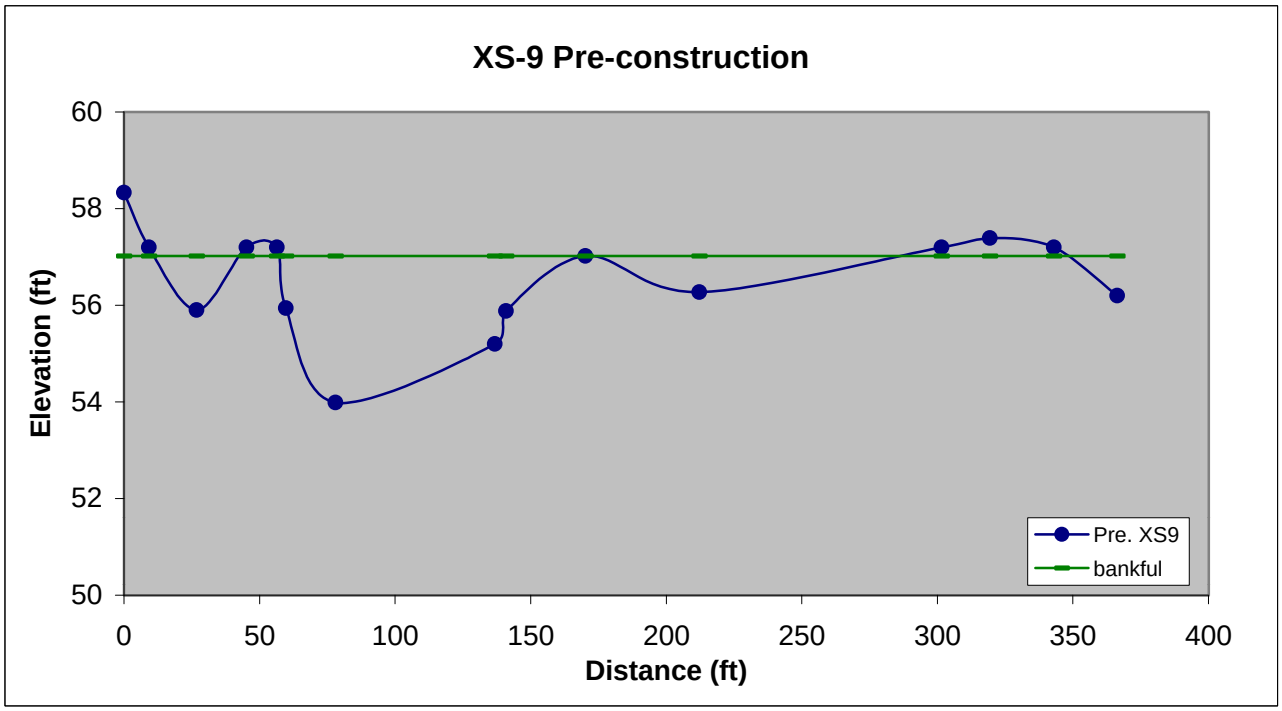
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	58.49	268.5	177	2.68	1.52	116.6
1999 XS7	58.14	237.7	142	2.86	1.67	84.8
2000 XS7	57.7	285.4	138	3.4	2.07	66.7



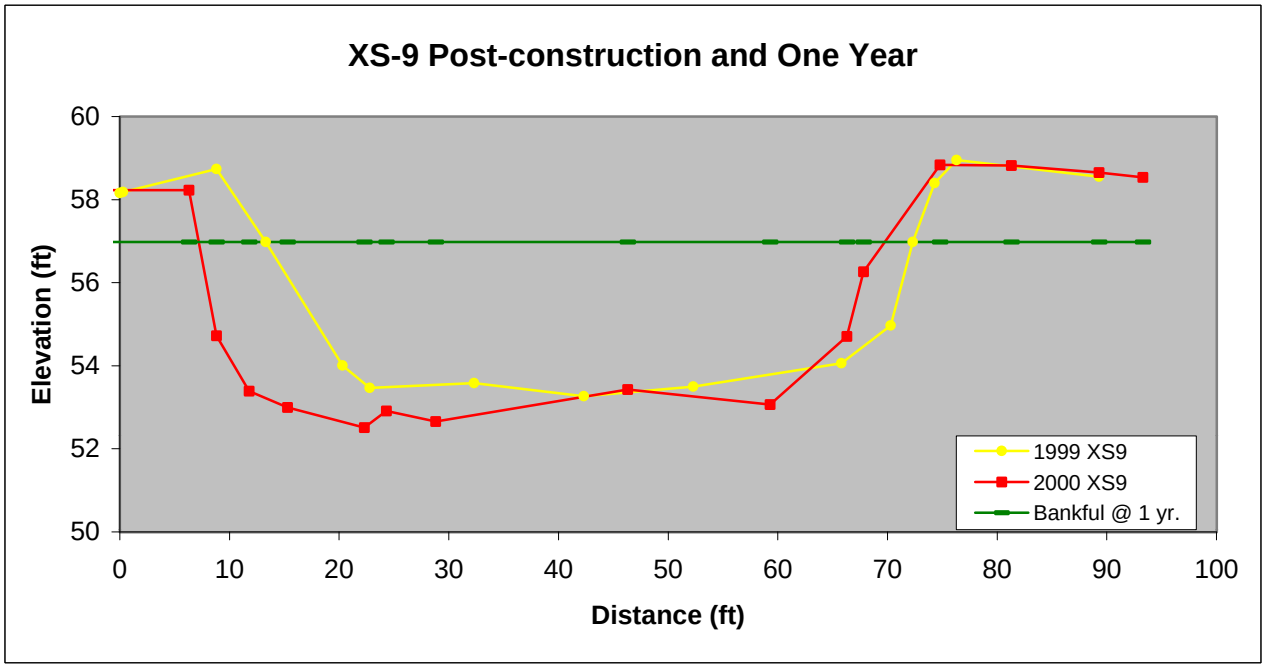


Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	56.6	277	136.2	4.29	2.03	66.9
1999 XS8	57.88	275.5	77.5	5.37	3.55	21.8
*2000 XS8	57.88	268.51	77	5.78	3.48	22.08

*Note: 2000 XS8 was slightly upstream of the 1999 XS8.



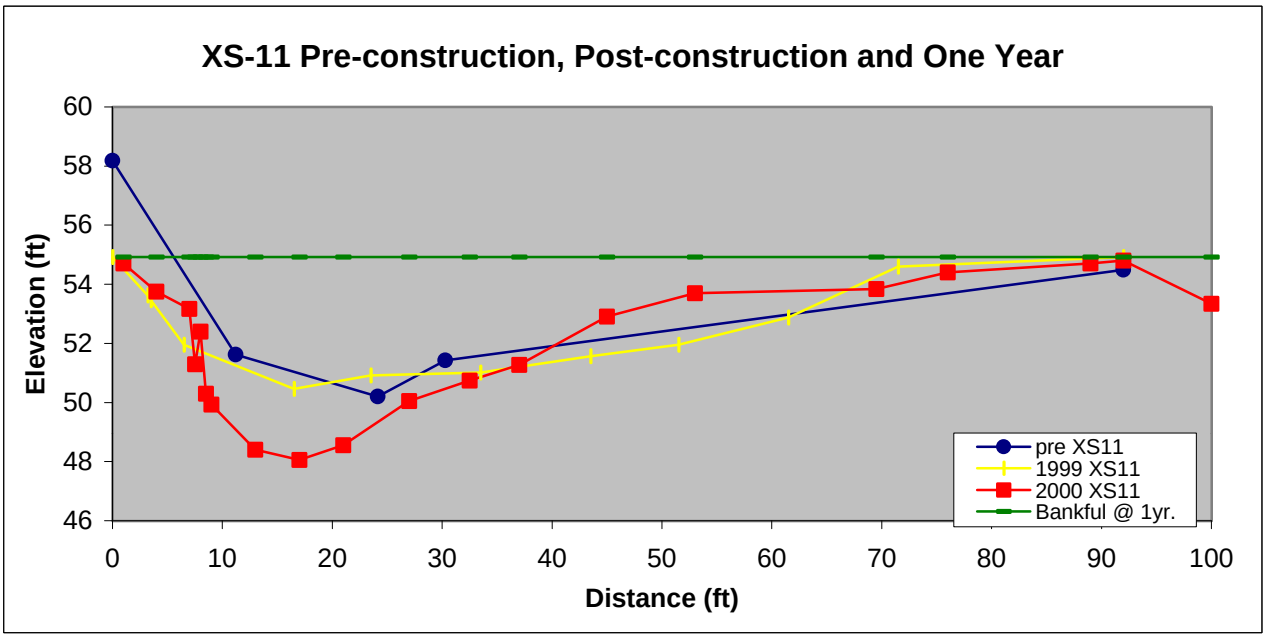
Note: The X-axis is different on the Pre-construction graph compared to the Post and One Year graph, in order to show the different channels that the river had access to during bankful events in the Pre-construction condition.



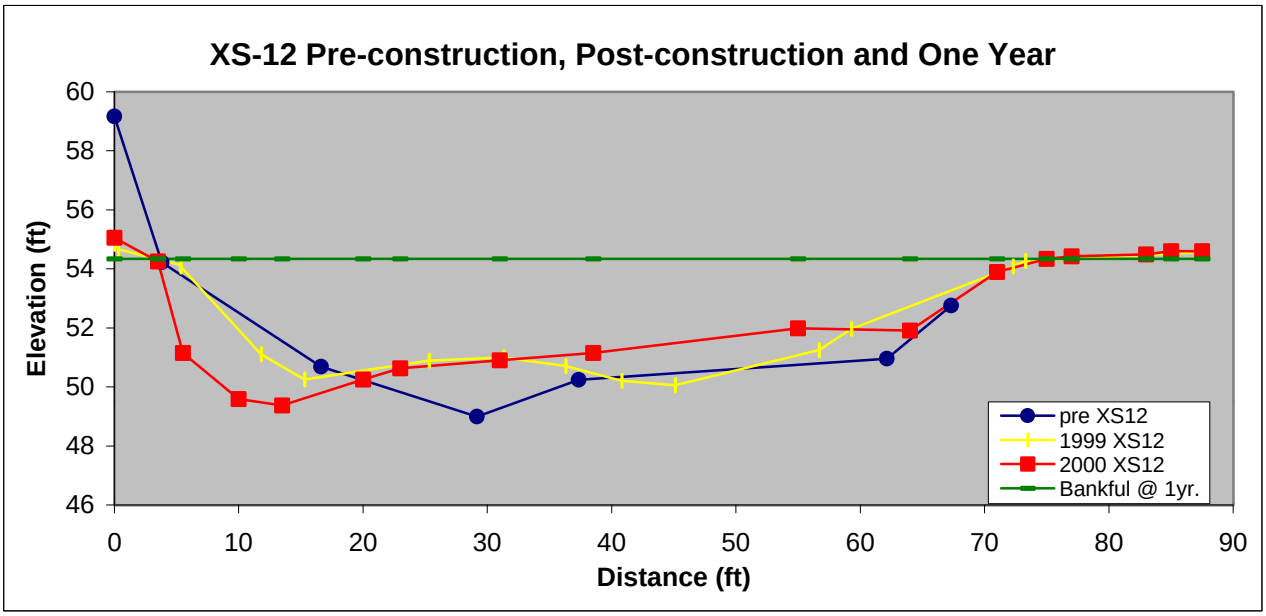
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	57.02	270.1	304.4	3.03	0.89	343
1999 XS9	56.98	179.12	59	3.71	3.04	19.43
2000 XS9	56.98	221.5	61.5	4.47	3.6	17.08

Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
*PreConst. XS						
1999 XS10	55.62	270.64	86	5.06	3.15	27.33
2000 XS10	55.99	255.87	91	4.91	2.81	32.36

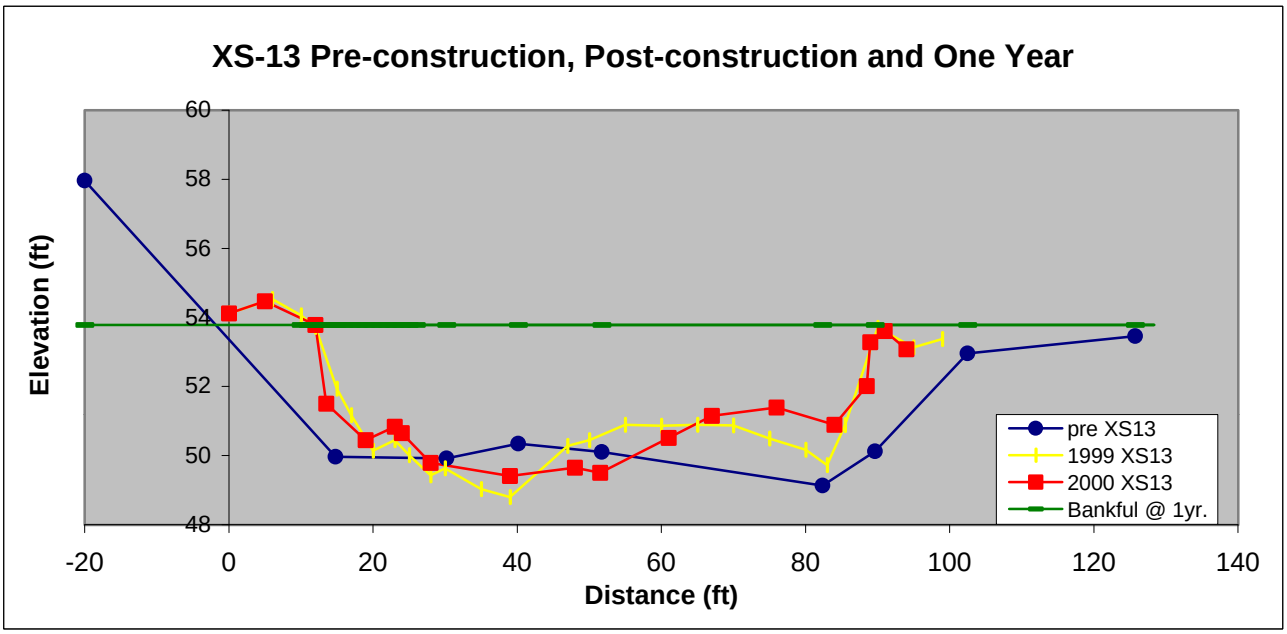
***Note:No XS was done for Pre-construction, as no channel was in the area that is now XS-10**



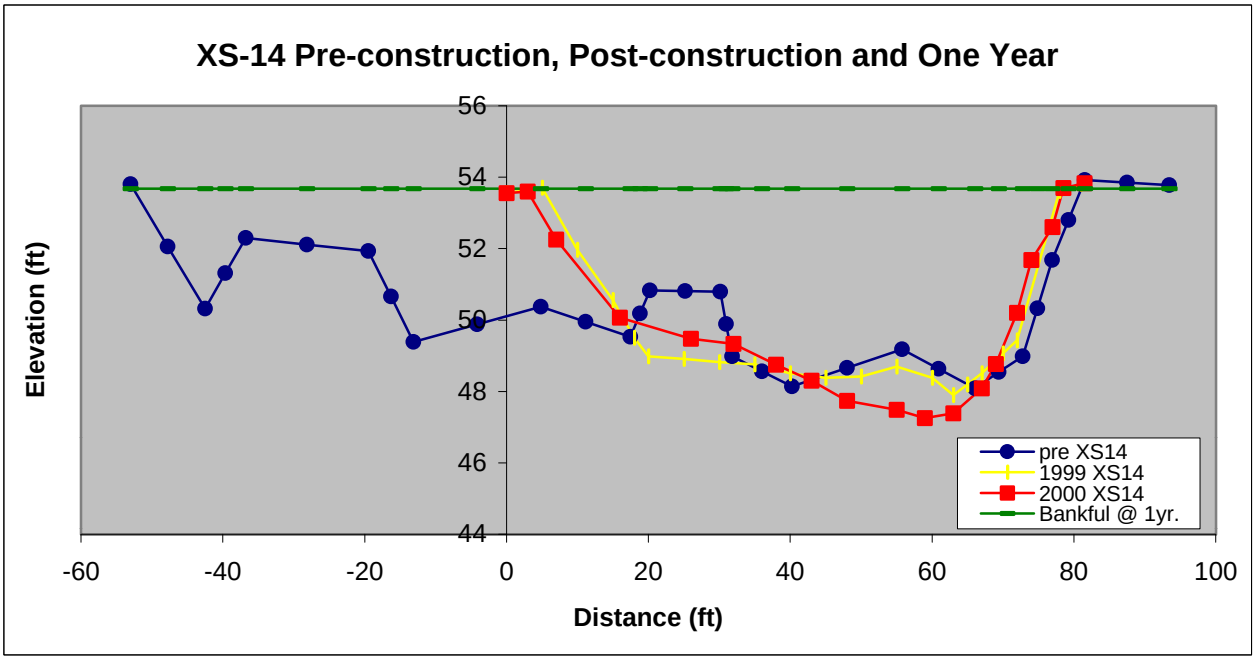
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	54.49	203.6	202.8	4.29	1	202.1
1999 XS11	54.92	217.16	92	4.46	2.36	38.98
2000 XS11	54.92	237.72	99	6.86	2.4	41.23



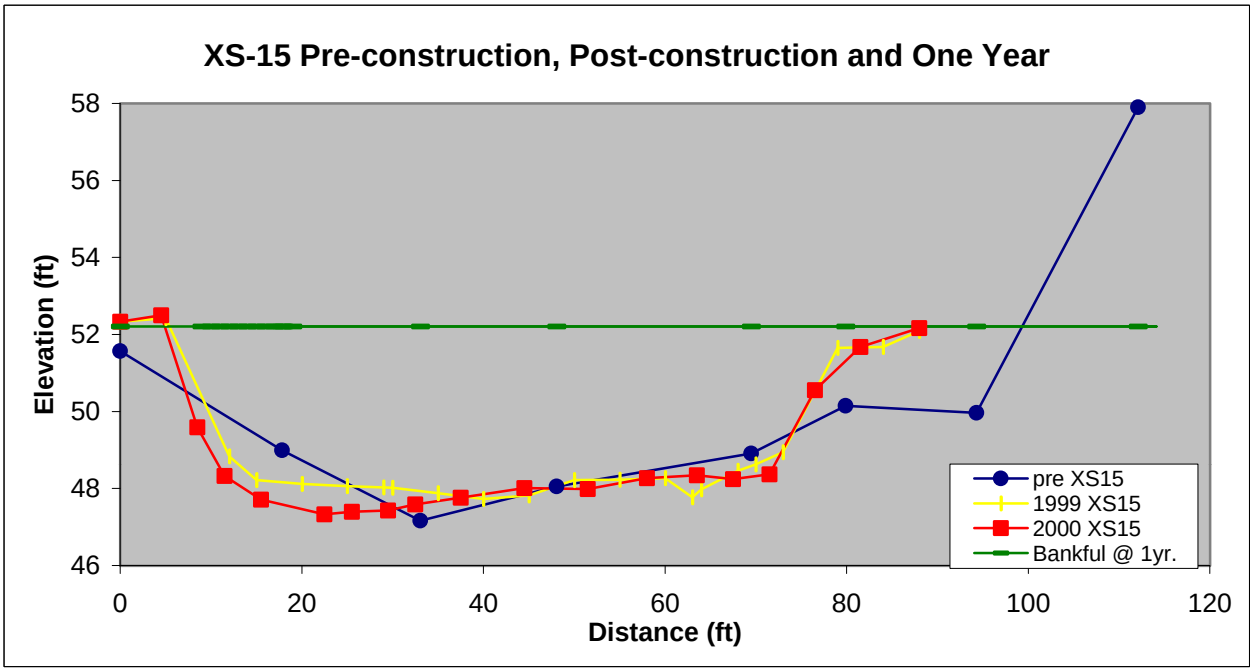
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	54.22	293.7	181.7	5.23	1.62	112.4
1999 XS12	54.08	188.29	81.77	4.02	2.3	35.51
2000 XS12	54.34	211	71.5	4.97	2.95	24.2



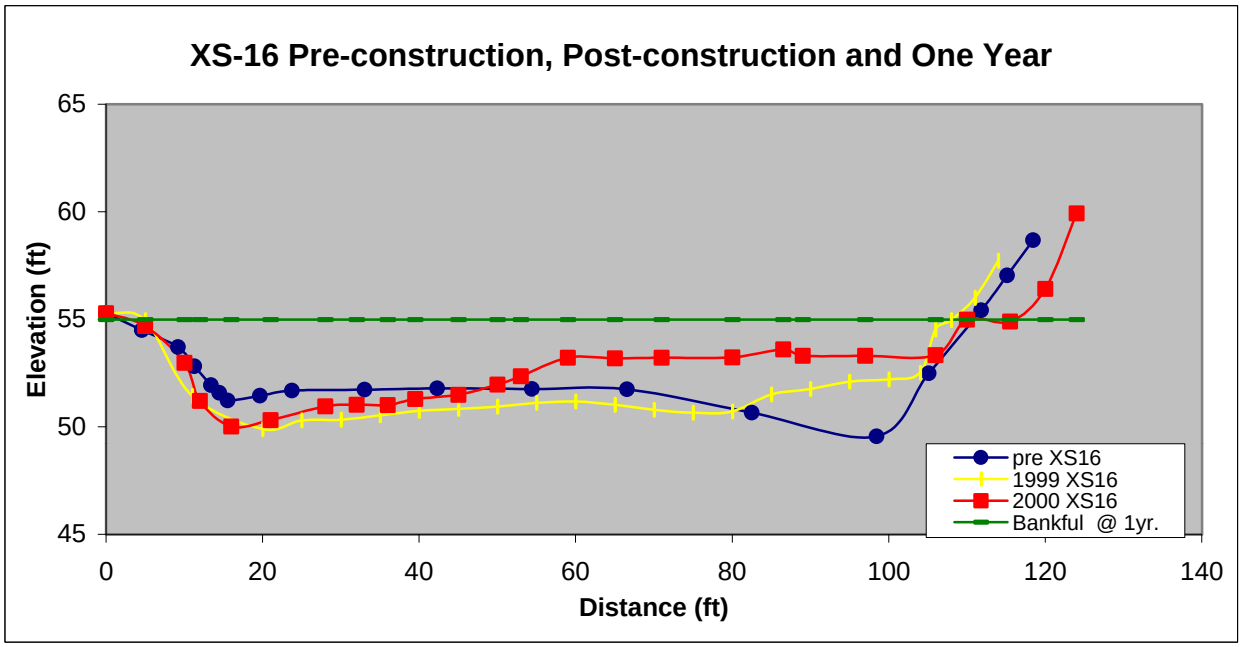
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	53.2	251.4	87.7	3.04	2.87	30.6
1999 XS13	54.06	288.17	89	5.26	3.23	27.49
2000 XS13	53.78	256.2	82	4.37	3.12	26.25



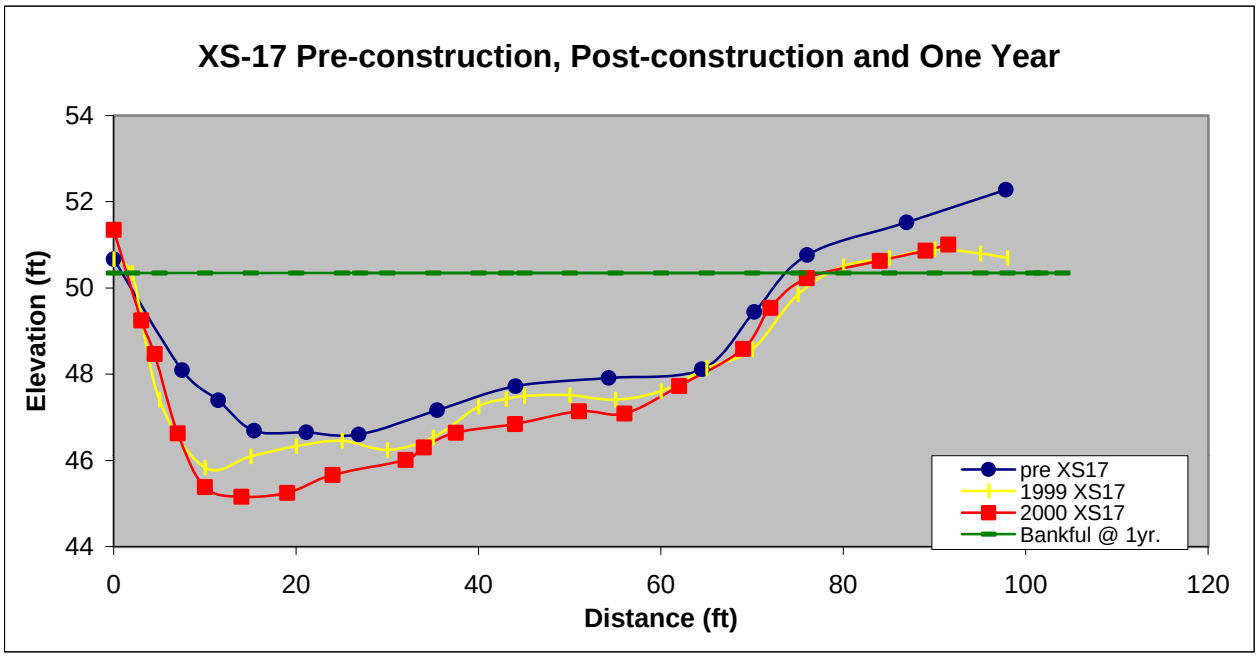
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	53.68	462.3	134.6	5.59	3.44	39.2
1999 XS14	53.68	312.69	78	5.78	4.01	19.45
2000 XS14	53.69	324.29	78.5	6.44	4.13	19



Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	50.74	245	94.3	4.41	2.6	36.6
1999 XS15	52.21	276	83	4.48	3.32	25
2000 XS15	52.25	297.95	83.5	4.92	3.56	23.4

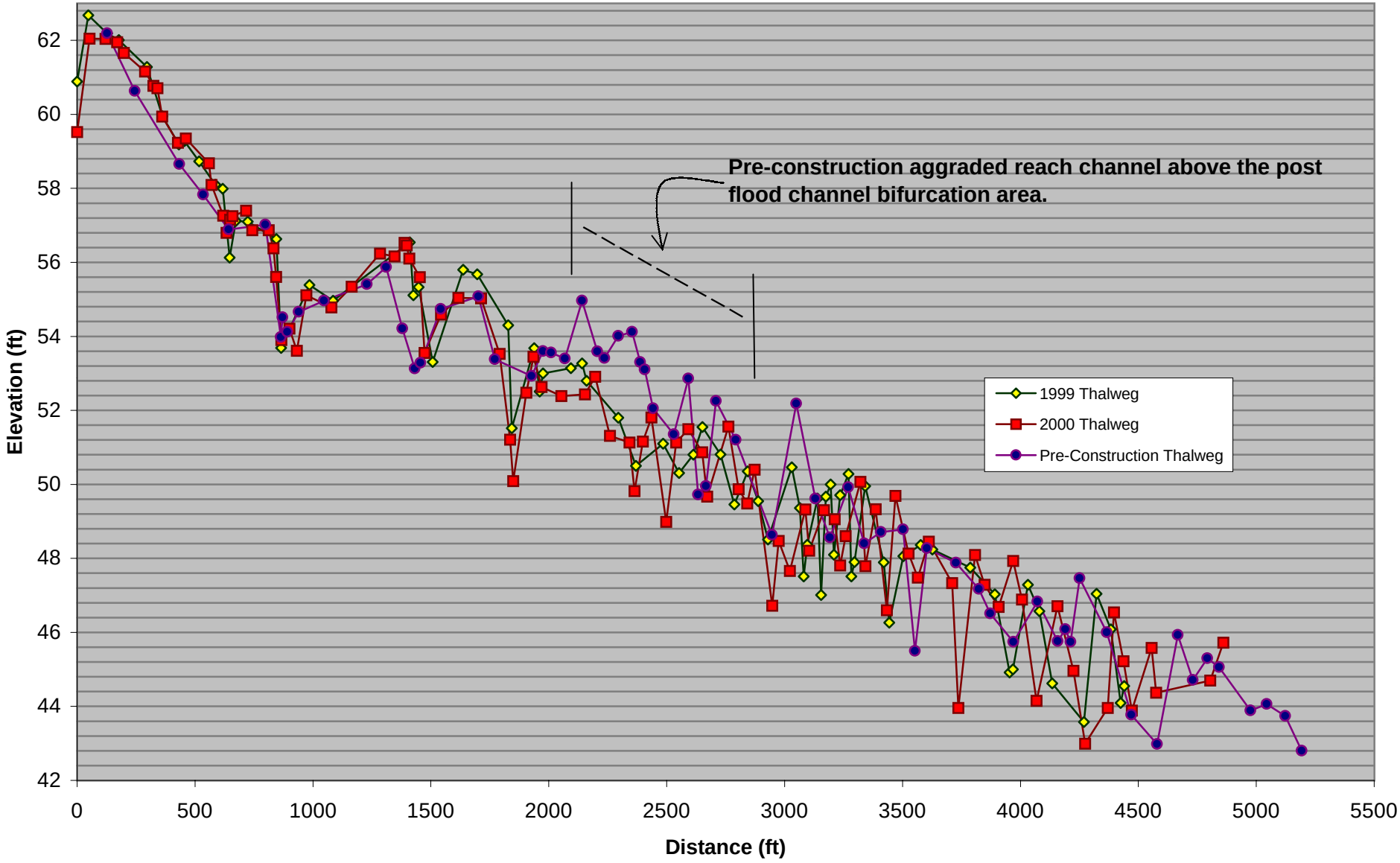


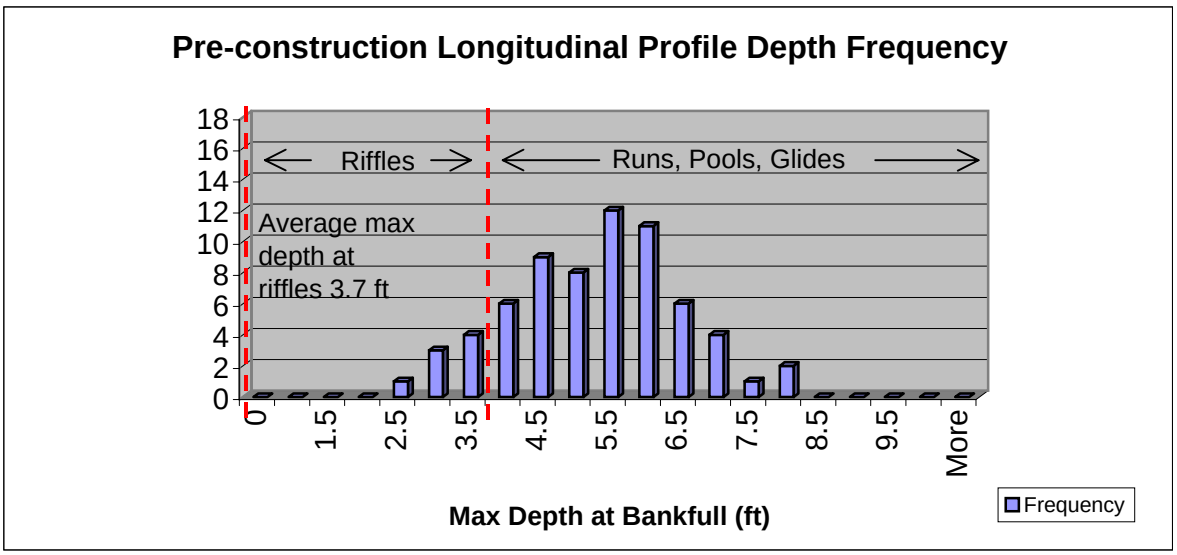
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	54.99	360.9	111.8	5.43	3.23	34.6
1999 XS16	54.96	382.2	103	5.07	3.71	27.8
2000 XS16	54.96	267.2	110.5	4.94	2.42	45.7

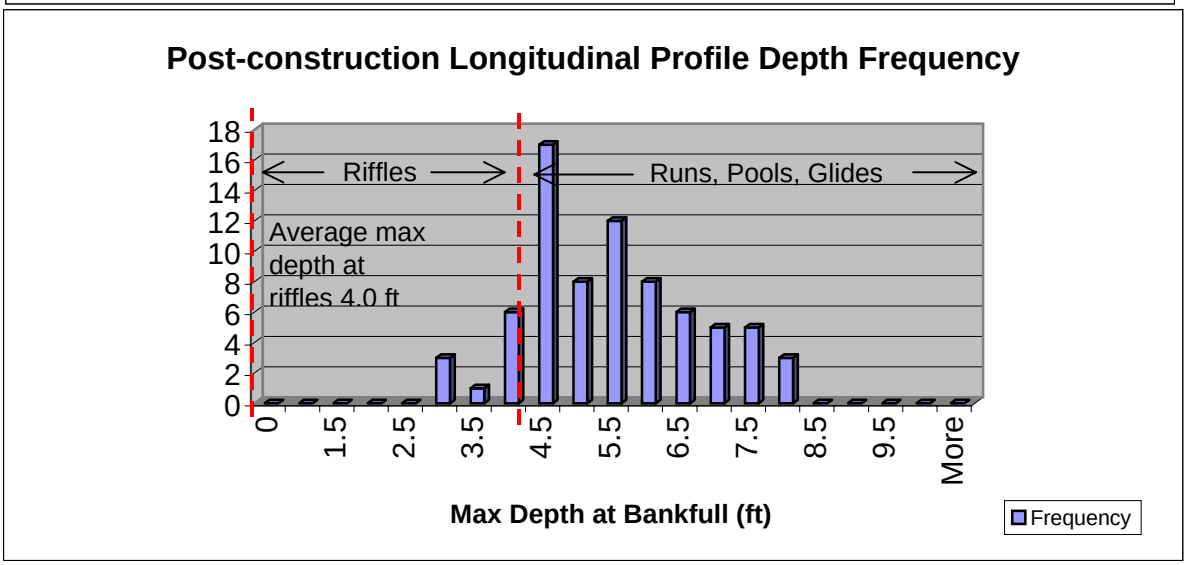


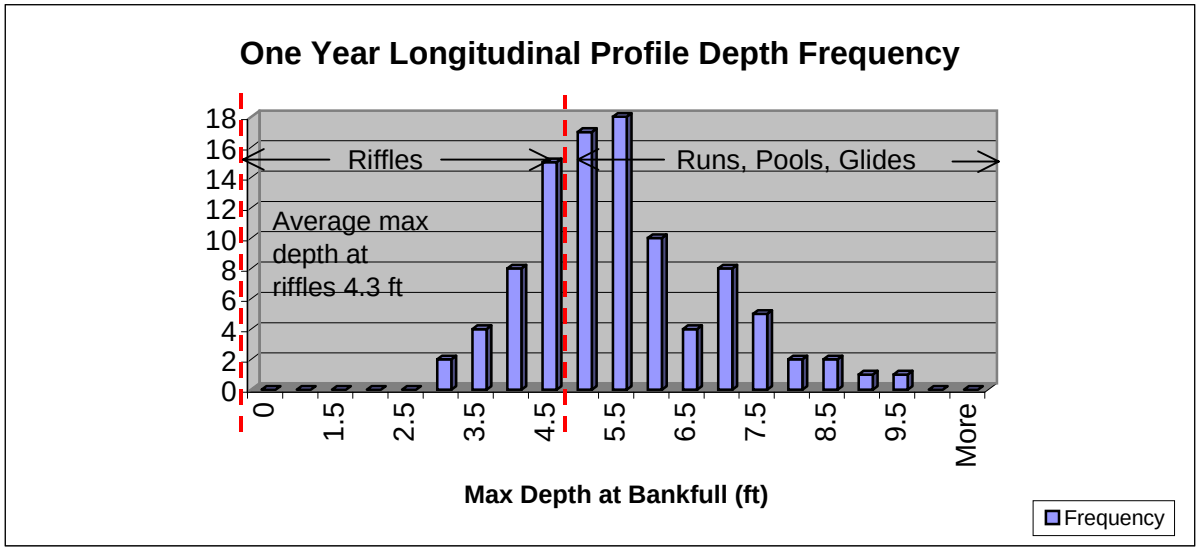
Survey Year XS Number	Mean Bankful Elev.	X-Section Area	Bankful Width	Maximum Depth	Mean Depth	Width/Detph Ratio
PreConst. XS	50.67	212.6	76	4.07	2.8	27.2
1999 XS17	50.35	229.2	78	4.52	2.94	26.5
2000 XS17	50.35	252.9	76	5.19	3.33	22.8

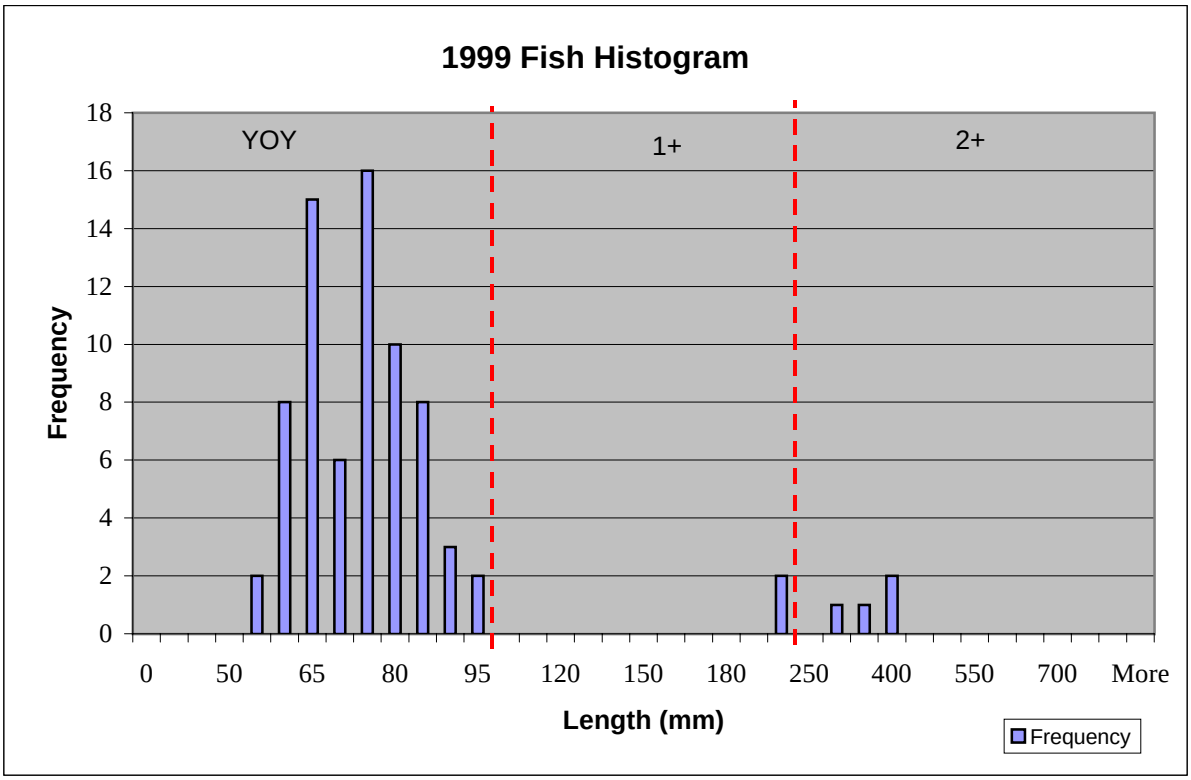
Pre-construction, Post-construction and One Year Longitudinal Profile

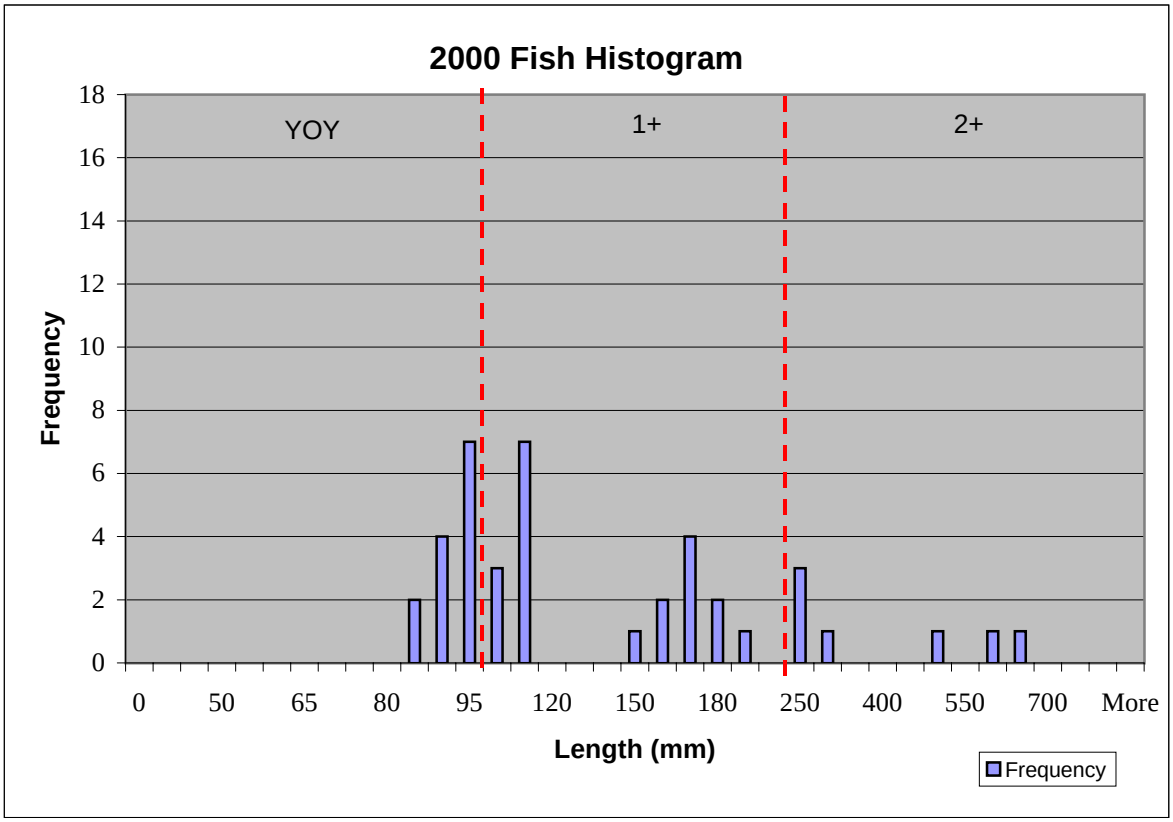



Pre-construction Longitudinal Profile Depth Frequency
Riffles
Runs, Pools, Glides
Average max depth at riffles 3.7 ft
18
16
14
12
10
8
6
4
2
0
0
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
More
Max Depth at Bankfull (ft)
Frequency


Post-construction Longitudinal Profile Depth Frequency
Riffles
Runs, Pools, Glides
Average max depth at riffles 4.0 ft
18
16
14
12
10
8
6
4
2
0
0
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
More
Max Depth at Bankfull (ft)
Frequency


One Year Longitudinal Profile Depth Frequency
Riffles
Runs, Pools, Glides
Average max depth at riffles 4.3 ft
18
16
14
12
10
8
6
4
2
0
0
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
More
Max Depth at Bankfull (ft)
Frequency


1999 Fish Histogram
YOY
1+
2+
Frequency
18
16
14
12
10
8
6
4
2
0
0
50
65
80
95
120
150
180
250
400
550
700
More
Length (mm)
Frequency


2000 Fish Histogram
YOY
1+
2+
Frequency
18
16
14
12
10
8
6
4
2
0
0
50
65
80
95
120
150
180
250
400
550
700
More
Length (mm)
Frequency