

Durden Creek (02293252)

Stage Area Rating #1 Verification Survey from 2/12/2013

Data collected by stretching a taught tape across stream and measuring water depth. LEW bank measured by measuring from tape down to land surface.

Transect was made at standard cross-section 8 ft downstream of the gage and just upstream of the SW in the streambed. Location 0 is at driven pipe at REW.

Transect collected from 16:09 - 16:17

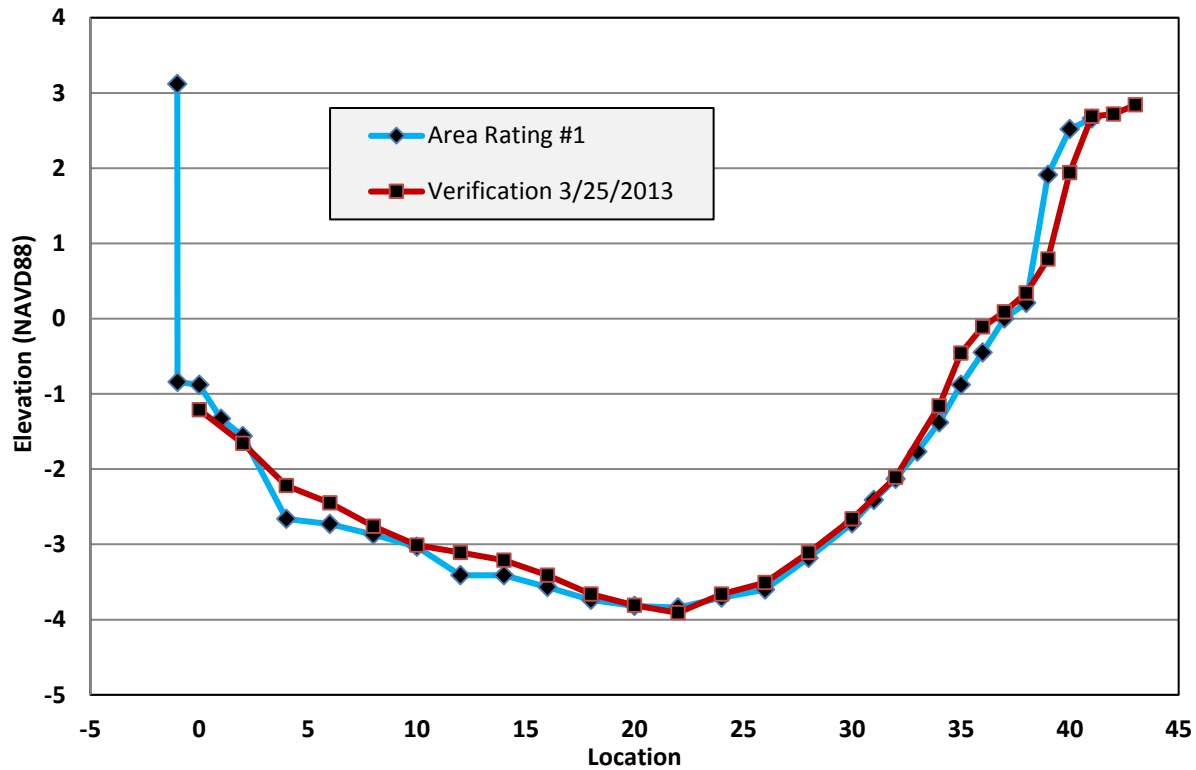
GHT during transect (based on OSG readings)= -0.46 ft NAVD88

Original field notes collected in LES fieldbook. Scanned copy archived on Q.

Verification survey				Area Rating #1 survey	
Location (ft)	Depth (ft)	Tape-to-land (ft)	Elevation (NAVD88)	Location (ft)	Elevation (NAVD88)
0	0.75		-1.21	REW	-1.01
2	1.20		-1.66	"	-1
4	1.76		-2.22	"	0
6	1.99		-2.45	Channel	1
8	2.30		-2.76	"	2
10	2.55		-3.01	"	4
12	2.65		-3.11	"	6
14	2.75		-3.21	"	8
16	2.95		-3.41	"	10
18	3.20		-3.66	"	12
20	3.35		-3.81	"	14
22	3.45		-3.91	"	16
24	3.20		-3.66	"	18
26	3.05		-3.51	"	20
28	2.65		-3.11	"	22
30	2.20		-2.66	"	24
32	1.65		-2.11	"	26
34	0.70		-1.16	"	28
35	0.00	3.45	-0.46	"	30
36		3.10	-0.11	"	31
37		2.90	0.09	"	32
38		2.65	0.34	"	33
39		2.20	0.79	"	34
40		1.05	1.94	LEW	35
41		0.30	2.69	"	36
42		0.27	2.72	"	37
43		0.15	2.84	"	38
				"	39
				"	40
				"	41

The verification survey shows minimal change to the cross-section. % differences are somewhat large in the -2 to -0.5 range, but the magnitude of the difference is roughly only 10 sq. ft. The cross-section shape does not suggest any significant scour or fill. Area Rating #1 can continue to be used for discharge computation.

Durden Creek - View is looking upstream



Stage (NAVD88)	Area Rating #1	Area Verification	% Diff
-3.5	2.4	8.0	227%
-3	10.5	18.5	77%
-2.5	22.3	31.8	43%
-2	36.5	46.9	29%
-1.5	51.8	63.5	23%
-1	68.5	80.8	18%
-0.5	86.5	98.6	14%
0	105.2	117.3	11%
0.5	124.6	136.7	10%
1	144.3	156.4	8%
1.5	164.1	176.3	7%
2	184.1	196.4	7%
2.5	204.3	217.3	6%
3	225.3	238.8	6%
3.5	246.3	260.3	6%