

Thalweg Comparison of LIDAR vs Survey Data

Thalweg - a line connecting the lowest points of successive cross-sections along the course of a river

Cross Section	Survey Elevations (ft)	LIDAR Elevations (ft)	Difference (ft)
1	118.7	121.6	2.9
2	117.4	119.4	2
3	115.6	120.4	4.8
4	116	119.5	3.5
5	115.3	119.6	4.3
6	112.9	118.1	5.2
7	112.4	117.7	5.3
8	112.9	117.3	4.4
9	111.3	116.5	5.2
10	107.3	115.8	8.5
11	109.6	115.8	6.2
12	110.2	115.3	5.1
13	109.2	114.7	5.5
14	107.4	114.3	6.9
15	108.5	114.3	5.8
16	108.3	113.6	5.3

Max	8.5
Min	2
Avg	5.1

Comments:

1. All LIDAR data that the opponets used is higher than the real surveyed data.
2. This means that the opponents report underestimates the real flow capacity of the channel.
3. The opponents report overestimates the flood stage water surface elevations.