

Lake Okahumpka Flow Control Structure and water Level Measurement System

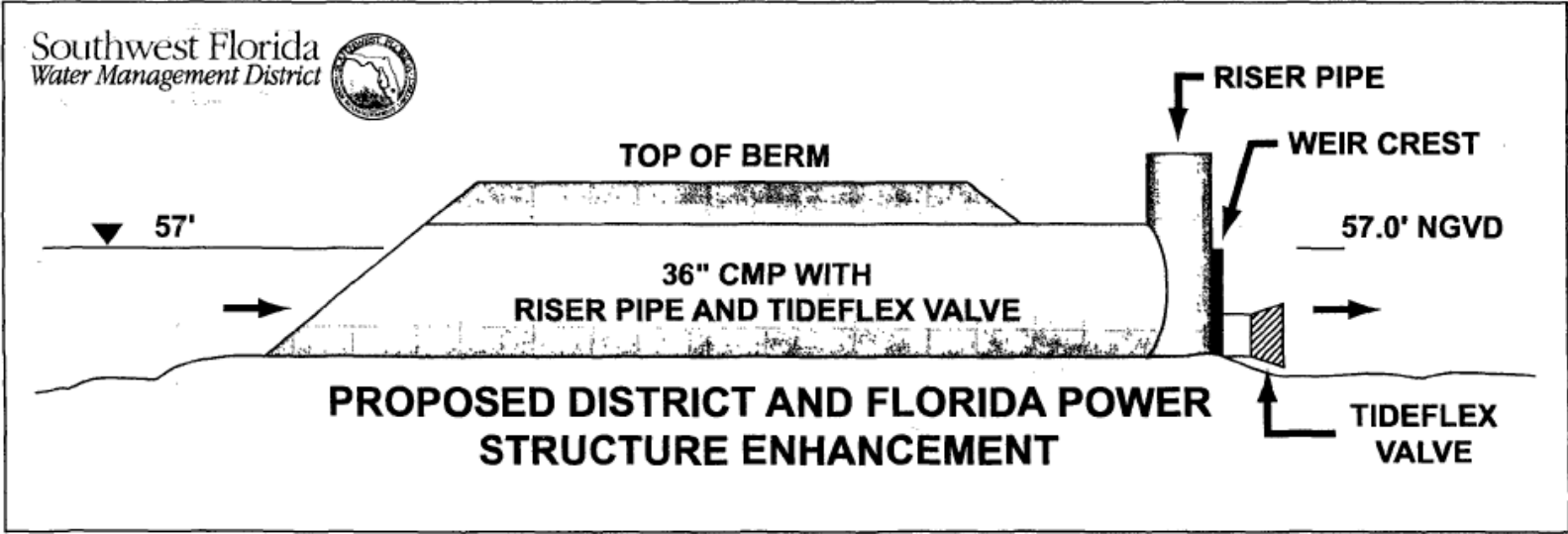
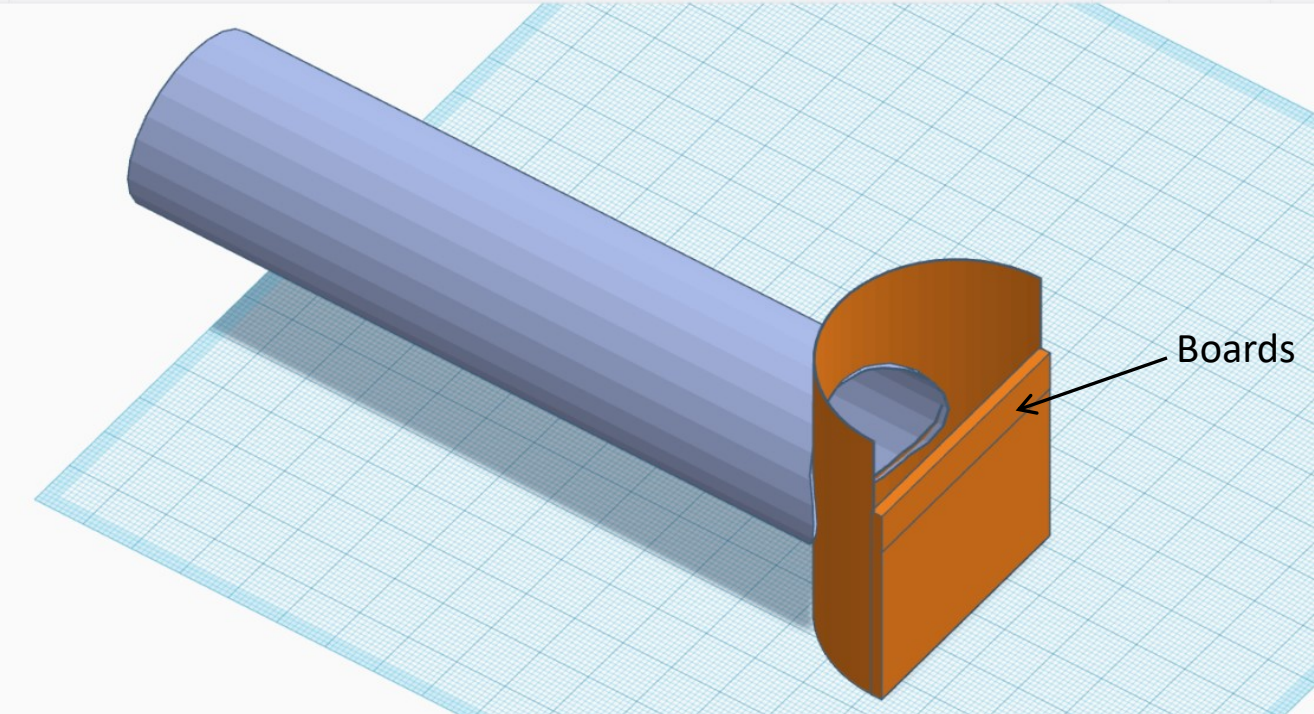
Detailed measurements



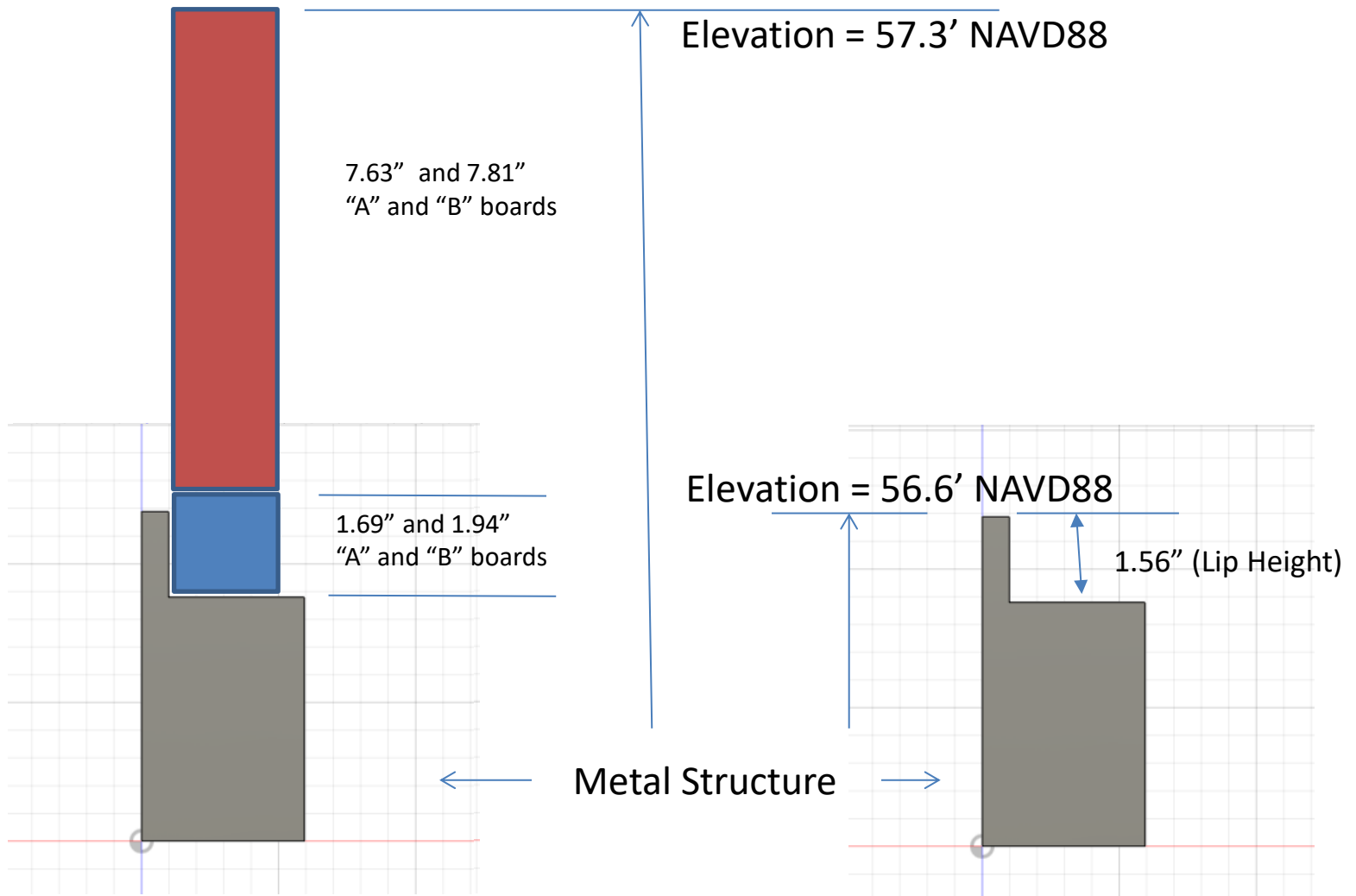
Measurements, observations, and photos: Richard Burr
Analysis, compilation: Dan Kane

March 12, 2024

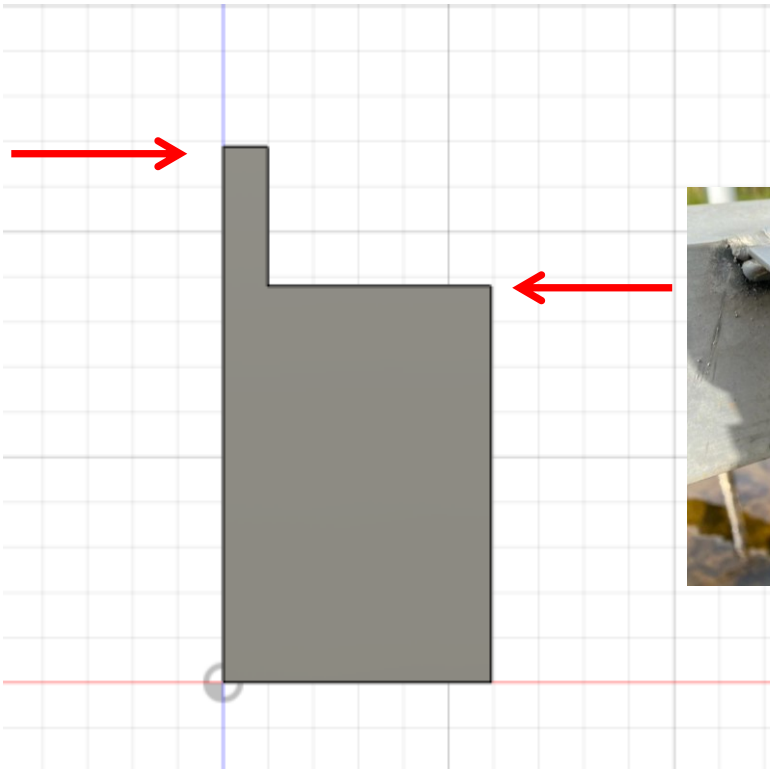
Schematics of Lake Okahumpka Flow Control Structure



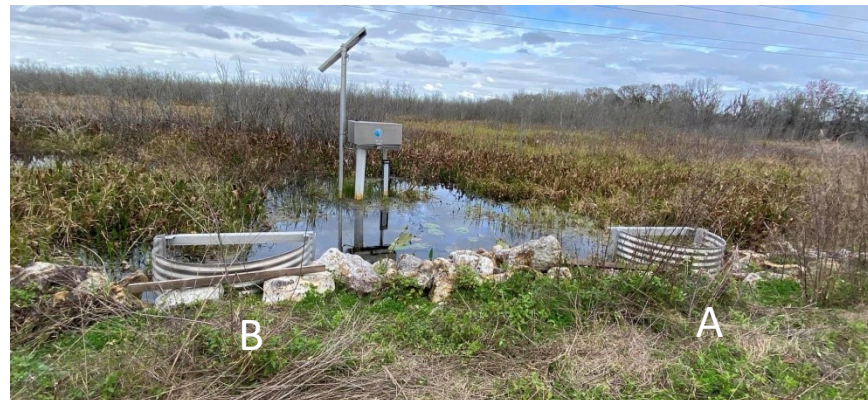
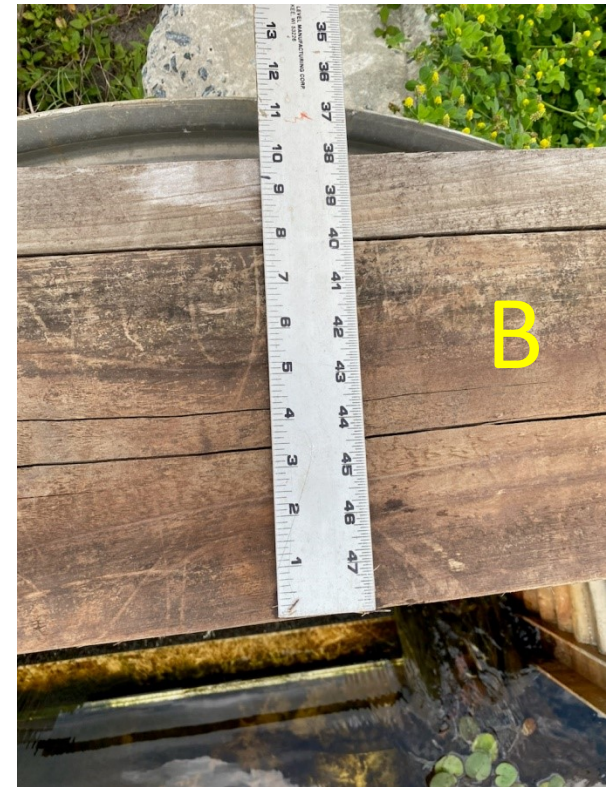
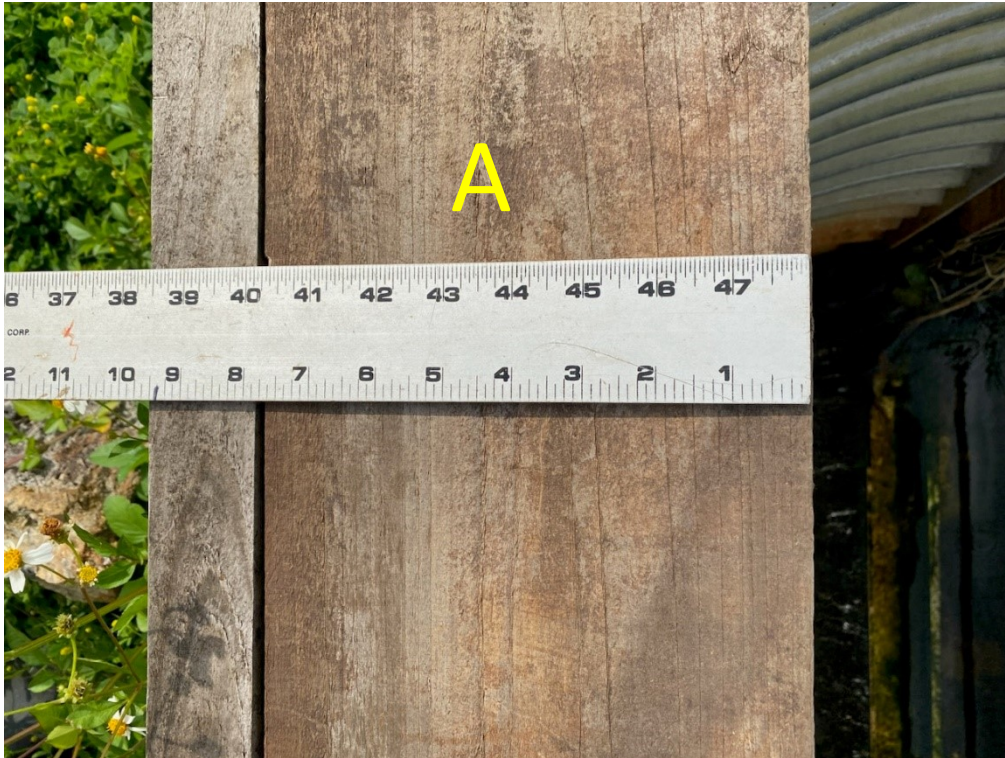
Lake Okahumpka Weirs Control Level set by install/removal of Stop Logs (Boards)



Drop Dimensions determined the lip height to be 1.56"



Measurement of stop Log boards - Lake Okahumpka Weirs

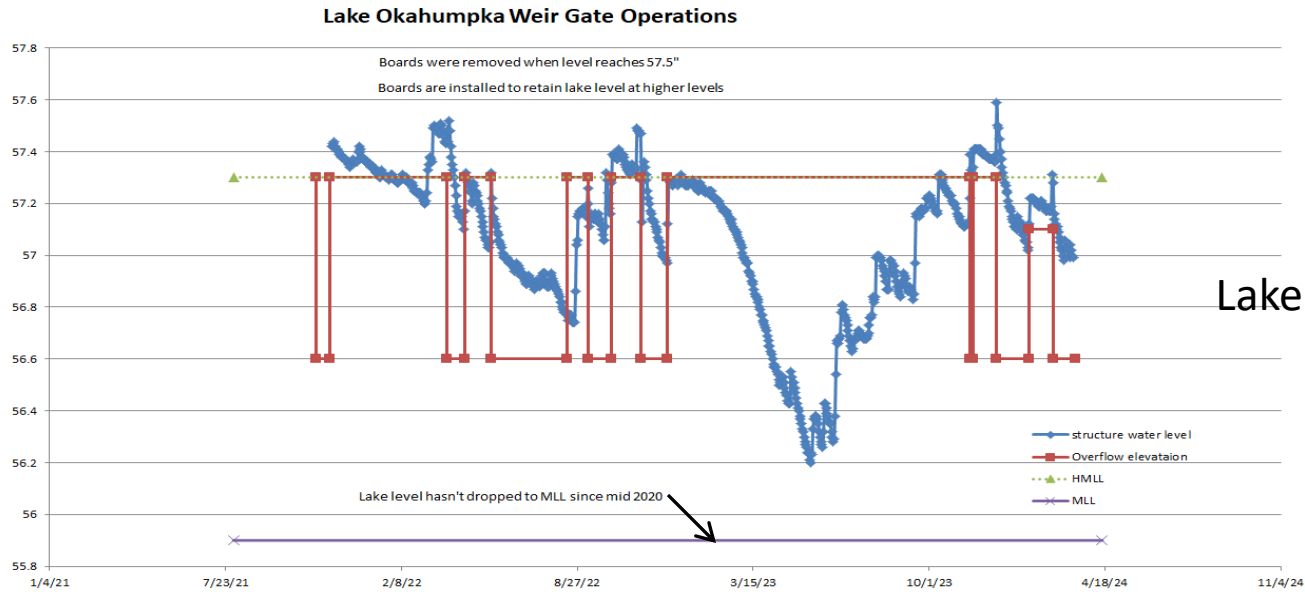


Manual Operations History- Board install/removal

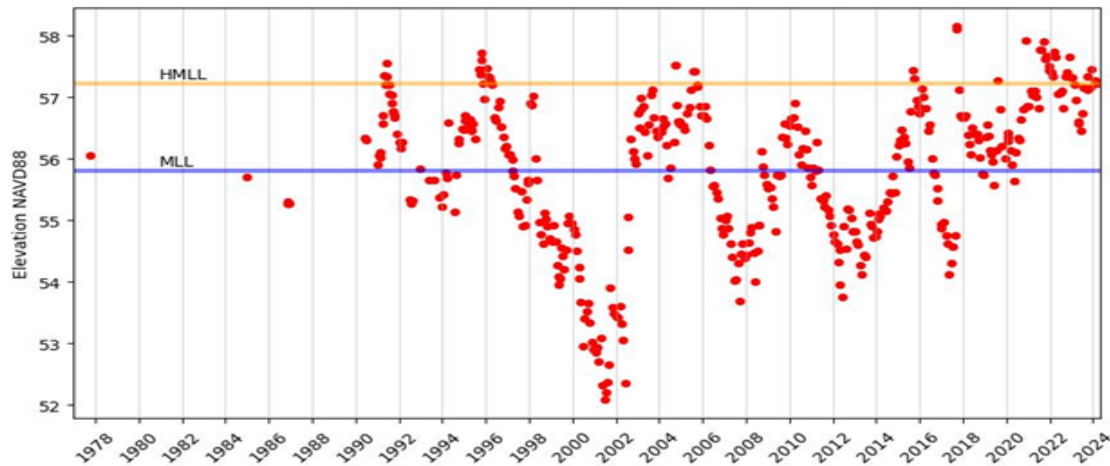
	A	B	C	D	E
1	Structure	Date	Time	Operation	Overflow elevataion
2	Okahumpka	11/3/2021	10:00 AM	remove all boards	56.6 NAVD88
3	Okahumpka	11/19/2021	12:30 PM	install all boards	57.3 NAVD88
4	Okahumpka	4/1/2022	10:30 AM	remove all boards	56.6 NAVD88
5	Okahumpka	4/21/2022	3:00 PM	install all boards	57.3 NAVD88
6	Okahumpka	5/21/2022	3:00 PM	remove all boards	56.6 NAVD88
7	Okahumpka	8/16/2022	9:30 AM	install all boards	57.3 NAVD88
8	Okahumpka	9/9/2022	11:40 AM	remove all boards	56.6 NAVD88
9	Okahumpka	10/5/2022	10:30 AM	install all boards	57.3 NAVD88
10	Okahumpka	11/8/2022	10:15 AM	remove all boards	56.6 NAVD88
11	Okahumpka	12/8/2022	11:30 AM	install all boards	57.3 NAVD88
12	Okahumpka	11/17/2023	11:00 AM	remove all boards	56.6 NAVD88
13	Okahumpka	11/20/2023	1:00 PM	install all boards	57.3 NAVD88
14	Okahumpka	12/17/2023	10:00 AM	remove all boards	56.6 NAVD88
		1/23/2024		Install big boards	57.1 NAVD88
		2/19/2024		Remove all boards	56.6 NAVD88

Note that the smaller boards were not installed on 1/23/2024

Lake Okahumpka - Record of water Levels and Gate Operations



Lake level at Structure



Lake level at CR 167

Period-of-record water levels at Lake Okahumpka and the High Minimum Lake Level (HMLL) and Minimum Lake Level (MLL) established for the lake.