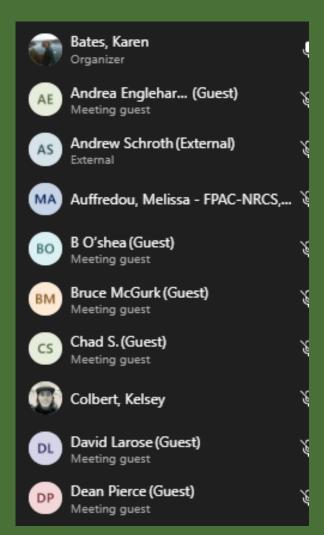
LAKE CARMI COORDINATION MEETING 10/26/2023

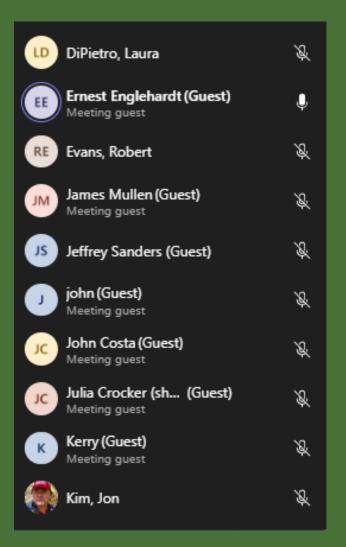
Agenda

- Alum study update Keith Pilgram, Barr Engineering
- Alum permitting update Mark Mitchell
- Summary of Lakes and Ponds supported sampling Mark Mitchell (Karen will show graphs)
- Update on UVM's lake sampling Andrew Schroth, UVM
- Agriculture update Jeff Sanders, UVM Extension
- Ground water study update Jon Kim, Vermont Geological Survey
- Lake Wise and projects around Lake FCNRCD and Julia Crocker
- Private Road work NRPC and Karen
- Franklin Watershed Association events Pete Benevento



Meeting Particpants

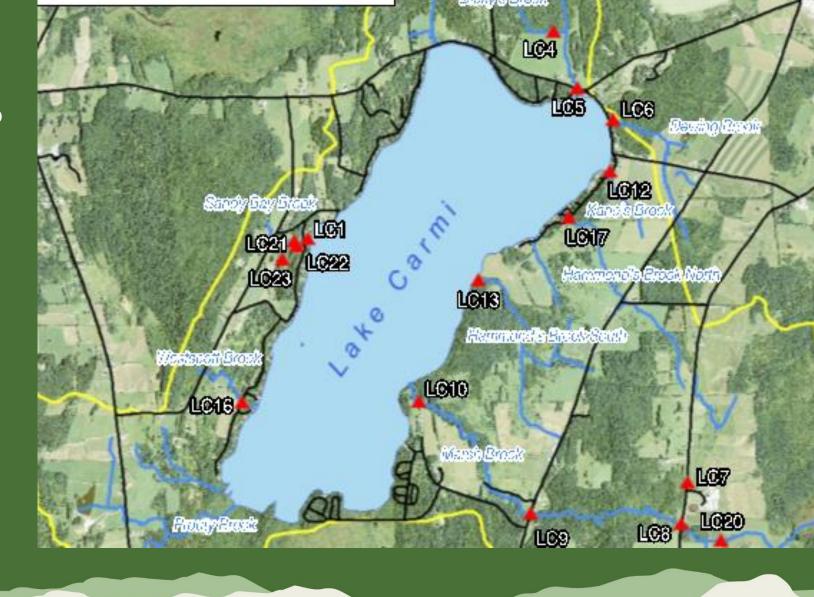




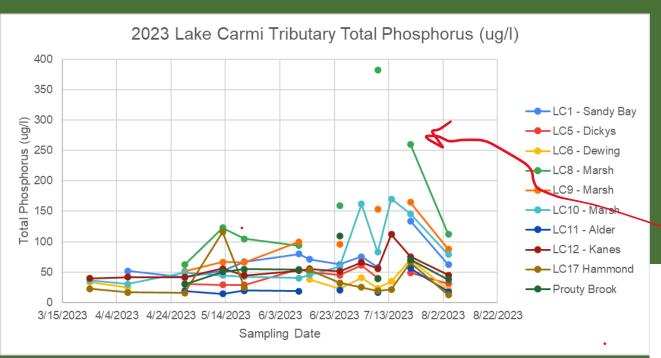


The 2023 tributary mean TP and DP at high flow (Julia Crocker)

- Similar to last year
- Improvement in LC6 Dewing Brook?.
- High flow events in May and
 July resulted in highest TP and
 DP



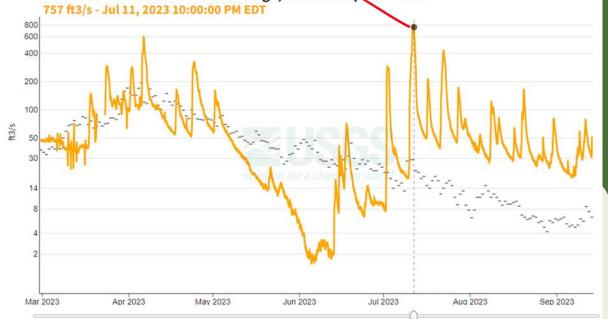




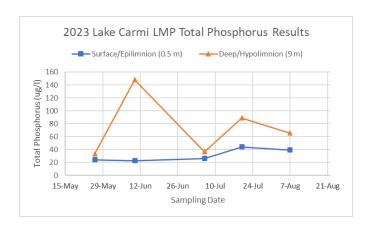
Pike River at East Franklin, NR Enosburg Fall VT - 04294300

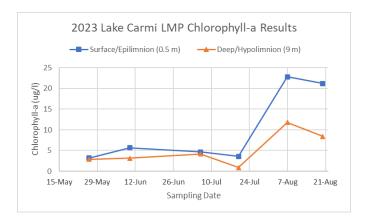
February 28, 2023 - September 13, 2023

Discharge, cubic feet per second



TP (High flow even	2015-2017 Mear	020-2023 Mear	2020 Mear	2021 Mean	2022 Mear	2023 Mear
LC1 - Sandy Bay	>100	67.5	76.0	55.1	70.3	68.7
LC5 - Dickys	35-65	47.9	68.1	32.7	48.5	42.1
LC6 - Dewing	35-65	43.3	42.9	43.7	53.4	33.0
LC8 - Marsh	>100	133.9	NA	112.4	127.4	162.1
LC9 - Marsh	>100	89.6	NA	65.6	104.9	98.2
LC10 - Marsh	65-100	67.5	75.6	50.3	68.1	76.0
LC11 - Alder	20-35	29.9	NA	42.3	24.6	22.9
LC12 - Kanes	65-100	62.6	60.1	69.9	63.5	56.8
LC17 Hammond	35-65	40.3	NA	40.8	44.5	35.6
LC20 Marsh Tile	NA	NA	NA	58.1	81.0	NA
Prouty Brook	NA	62.5	NA	69.4	62.5	55.7
DP (High flow even	2015-2017 Mear	020-2023 Mear	2020 Mear	2021 Mean	2022 Mear	2023 Mear
LC1 - Sandy Bay	NA	52.5	63.4	41.1	52.0	53.4
LC5 - Dickys	NA	25.5	30.0	20.4	28.2	23.5
LC6 - Dewing	NA	30.8	38.4	23.8	35.1	26.1
LC8 - Marsh	NA	90.2	NA	60.8	83.2	126.7
LC9 - Marsh	NA	69.0	NA	49.9	79.1	78.0
LC10 - Marsh	NA	51.9	56.6	34.4	52.8	63.8
LC11 - Alder	NA	17.4	NA	18.8	17.9	15.6
LC12 - Kanes	NA	44.5	46.3	37.0	49.1	45.6
LC17 Hammond	NA	21.5	NA	22.0	21.9	20.5
LCOOLA LTT	NA	NA	NA	35.6	28.6	NA
LC20 Marsh Tile						





2023 LAKE LAY MONITORING DATA (P. BENEVENTO)

Internal phosphorus loading from lake bottom sediment - Values related to aeration system and weather.

- Total Phosphorus
 - Before July 11 flooding: surface meetings 22 ug/l standard
 - After flooding: significant increase both bottom and surface
- Chlorophyll-a (algae/cyanobacteria)
 - After flooding initial increase followed by delayed increase.
- Secchi transparency correspons to chlorophill-a
 - declines from a high, then levels out around 2 m in July/August before decreasing again,



Mullen Shore Road

Road serves multiple camps. West side of lake.

Segment IDs: PR461, PR462, PR463, PR464,

PR465

Slope: 7-14%

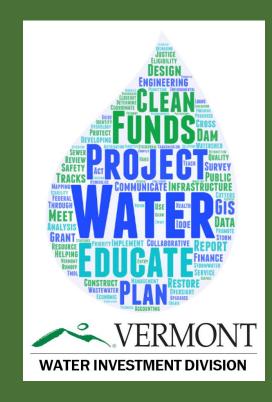
Segment scores: Does not meet

Default priority: High priority, very high priority

BMPs needed: remove high shoulder, drainage







KAREN.BATES@VERMONT.GOV

