WEEKLY STA PERFORMANCE SUMMARY

PROJECT STA-1E **DATE** 5/6/2024 **LATEST DATA** 05/05/2024

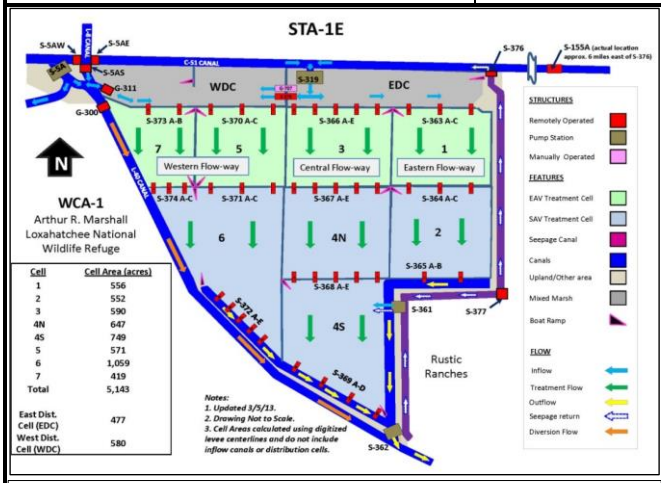
WY2025 to Date Flow-weighted Mean Conc (µg/L) Inflow: 72 Outflow: no flow

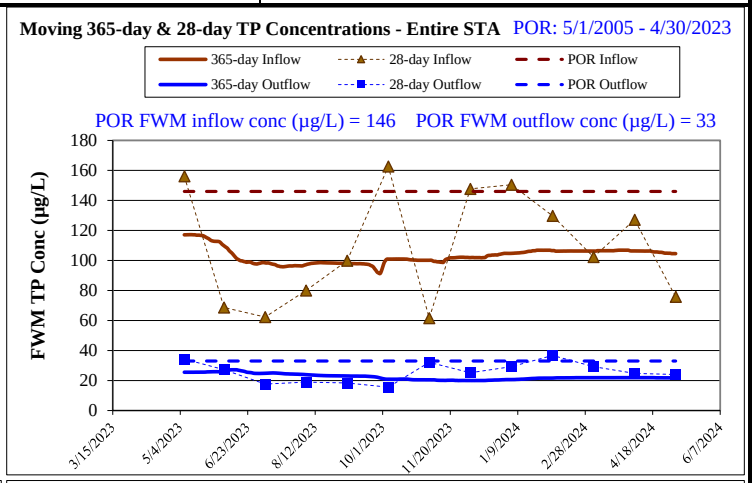
		Entire STA	W Flow-way	C Flow-way	E Flow-way
365-day Values	Inflow Volume (ac-ft)	147,778	no flow	73,411	61,519
	Inflow Load (kg)	19,062	N/A	9,315	4,919
	Inflow Flow-weighted Mean Conc (µg/L)	105	N/A	103	65
	Outflow Volume (ac-ft)	133,779	2,907	60,196	66,029
	Outflow Load (kg)	3,594	N/A	2,540	1,101
	Outflow Flow-weighted Mean Conc (µg/L)	22	N/A	34	14
365-day load reduction (kg)		15,468	no flow	6,775	3,817
28-day Values	Inflow Volume (ac-ft)	3,300	no flow	1,109	766
	Inflow Load (kg)	309	N/A	97	49
	Inflow Flow-weighted Mean Conc (µg/L)	76	N/A	71	52
	Outflow Volume (ac-ft)	23	-9	no flow	no flow
	Outflow Load (kg)	1	0	no flow	N/A
	Outflow Flow-weighted Mean Conc (µg/L)	24	23	no flow	N/A
7-day Values	Inflow Volume (ac-ft)	553	no flow	458	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	78	no flow	62	no flow
	Outflow Volume (ac-ft)	no flow	no flow	no flow	no flow
	Outflow Flow-weighted Mean Conc (µg/L)	no flow	no flow	no flow	N/A
365-day Phosphorus Loading Rate ($g/m^2/yr$)		1.5	N/A	1.3	N/A
6-month trend in outflow TP concentration (- means decrease; µg/L)		1	no flow	0	0

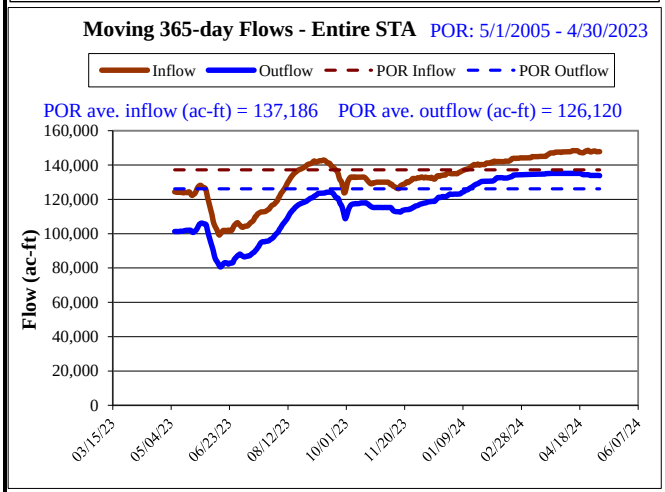
Redirected to STA-1 Inflow Basin for the last 365 days through G-311 Volume (ac-ft) 8,981 Load (kg) 1,144 Conc (µg/L) 103

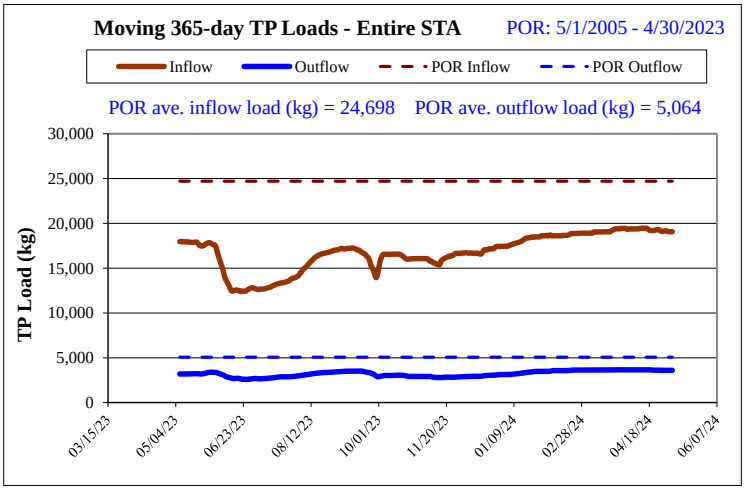
Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

W Flow-way	C Flow-way	E Flow-way
On-line	On-line	Off-line
On-line with restrictions for post-construction vegetation grow in starting on 12/27/2023.		Off-line for rehydration and vegetation establishment following erosion repair effective 3/18/2024.









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WEEKLY STA PERFORMANCE SUMMARY

PROJECT STA-1W **DATE 5/6/2024** **LATEST DATA 5/5/2024**

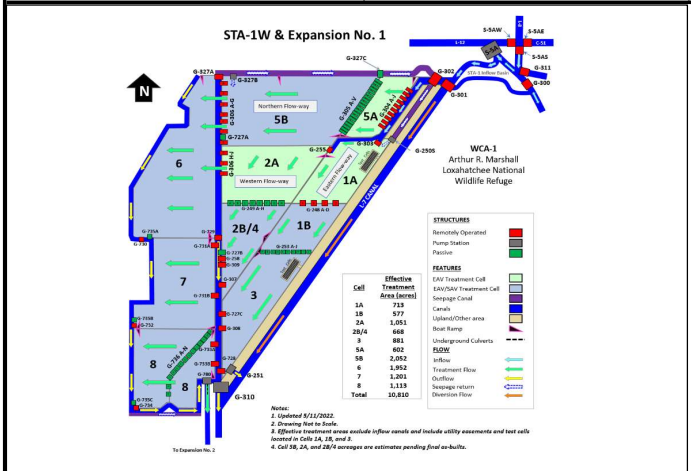
WY2025 to Date Flow-weighted Mean Conc (µg/L) Inflow: 93 Outflow: 23		Entire STA	W Flow-way	E Flow-way	N Flow-way	Cell 6	Cell 7+8
365-day Values	Inflow Volume (ac-ft)	192,301	55,695	155,979	11,075	109,247	111,049
	Inflow Load (kg)	28,419	7,540	19,331	2,095	3,225	3,554
	Inflow Flow-weighted Mean Conc (µg/L)	120	110	100	153	24	26
	Outflow Volume (ac-ft)	222,404	57,260	148,407	14,629	142,097	80,849
	Outflow Load (kg)	4,890	1,316	5,239	224	2,788	1,807
	Outflow Flow-weighted Mean Conc (µg/L)	18	19	29	12	16	18
365-day load reduction (kg)		23,529	6,225	14,092	1,871	437	1,747
28-day Values	Inflow Volume (ac-ft)	5,442	789	3,130	no flow	1,192	3,145
	Inflow Load (kg)	464	61	243	no flow	21	136
	Inflow Flow-weighted Mean Conc (µg/L)	69	62	63	no flow	14	35
	Outflow Volume (ac-ft)	3,037	291	2,854	1,192	1,118	2,181
	Outflow Load (kg)	76	12	124	21	27	64
	Outflow Flow-weighted Mean Conc (µg/L)	20	34	35	14	19	24
7-day Values	Inflow Volume (ac-ft)	811	no flow	no flow	no flow	397	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	93	no flow	no flow	no flow	14	no flow
	Outflow Volume (ac-ft)	262	no flow	no flow	397	181	no flow
	Outflow Flow-weighted Mean Conc (µg/L)	23	no flow	no flow	14	21	no flow
365-day Phosphorus Loading Rate ($g/m^2/yr$)		0.6	1.1	2.2	0.1	0.4	0.4
6-month trend in outflow TP concentration (- means decrease; µg/L)		-1	0	0	-2	0	-1

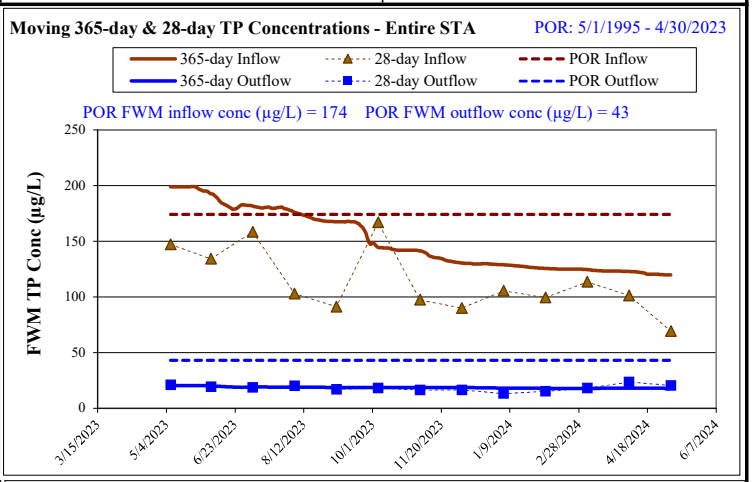
Redirection to STA-1E over the last 365 days Volume (ac-ft) 484 Load (kg) 50 Conc (µg/L) 84

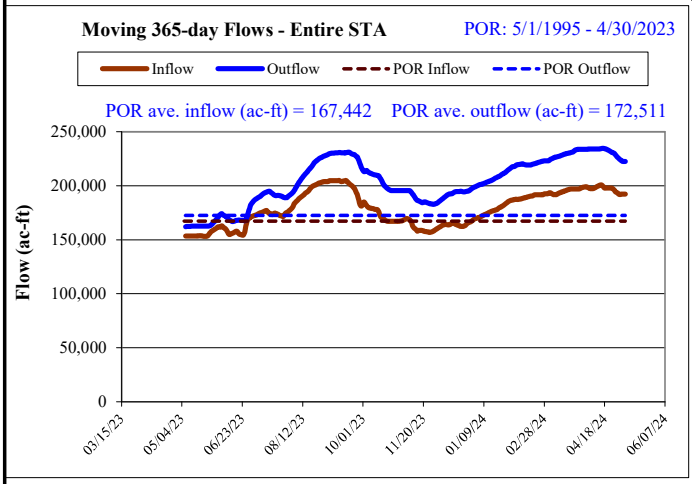
Redirection to S-5AS over the last 365 days Volume (ac-ft) 197,776 Load (kg) 33,917 Conc (µg/L) 139

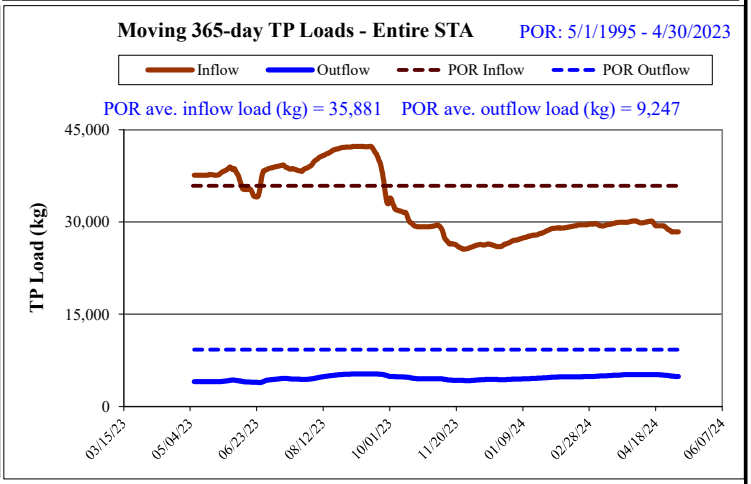
Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

W Flow-way	E Flow-way	N Flow-way	Cells 6, 7, and 8
On-line	On-line	On-line	On-line
	Contains nest(s) of MBTA-protected species.	Contains nest(s) of MBTA-protected species.	









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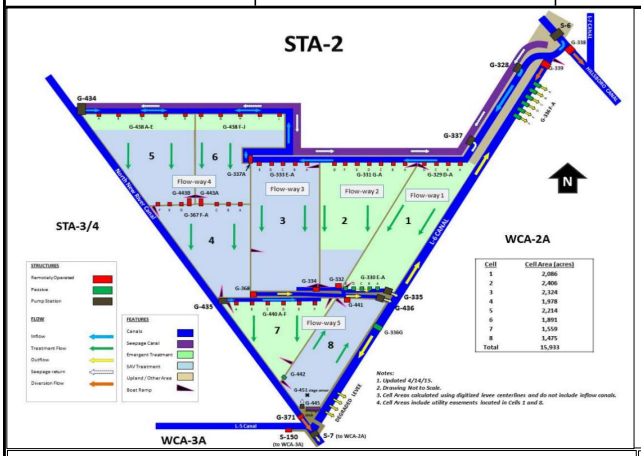
WEEKLY STA PERFORMANCE SUMMARY

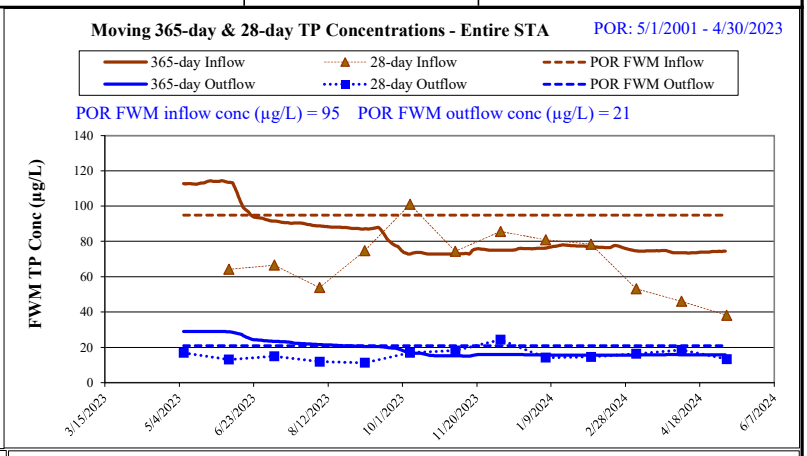
PROJECT STA-2 **DATE** 5/6/2024 **LATEST DATA** 5/5/2024

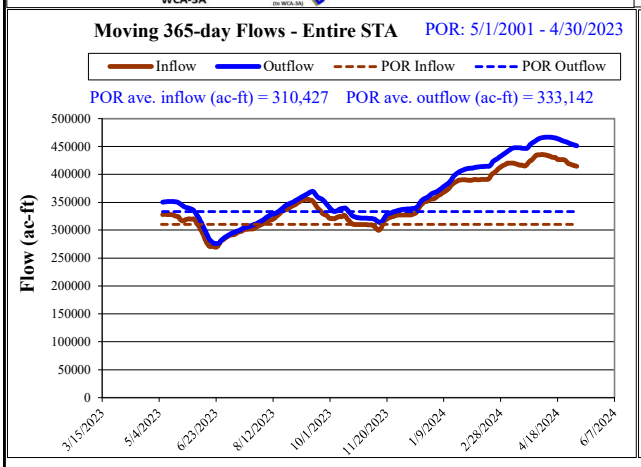
WY2025 to Date Flow-weighted Mean Conc (µg/L) Inflow: 34 Outflow: 14		Entire STA	Flow-way 5	Flow-way 4	Flow-way 3	Flow-way 2	Flow-way 1
365-day Values	Inflow Volume (ac-ft)	413,754	36,049	162,834	86,890	88,538	78,544
	Inflow Load (kg)	38,022	1,740	14,296	7,473	8,372	8,869
	Inflow Flow-weighted Mean Conc (µg/L)	74	39	71	70	77	92
	Outflow Volume (ac-ft)	451,347	34,198	143,385	100,563	100,463	104,103
	Outflow Load (kg)	8,785	414	1,638	2,732	2,531	1,337
	Outflow Flow-weighted Mean Conc (µg/L)	16	10	9	22	20	10
365-day load reduction (kg)		29,237	1,326	12,659	4,741	5,840	7,532
28-day Values	Inflow Volume (ac-ft)	no flow	no flow	3,715	no flow	no flow	no flow
	Inflow Load (kg)	no flow	no flow	223	no flow	no flow	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	no flow	no flow	49	no flow	no flow	no flow
	Outflow Volume (ac-ft)	1,964	130	965	177	no flow	50
	Outflow Load (kg)	32	2	18	4	no flow	1
	Outflow Flow-weighted Mean Conc (µg/L)	13	10	15	20	no flow	11
7-day Values	Inflow Volume (ac-ft)	no flow	no flow	3,603	no flow	no flow	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	no flow	no flow	49	no flow	no flow	no flow
	Outflow Volume (ac-ft)	58	no flow	no flow	no flow	no flow	no flow
	Outflow Flow-weighted Mean Conc (µg/L)	14	no flow	no flow	no flow	no flow	no flow
365-day phosphorus loading rate ($g/m^2/yr$)		0.6	0.1	0.6	0.8	1.2	1.2
6-month trend in outflow TP concentration (- means decrease; µg/L)		-1	0	0	0	-5	-1

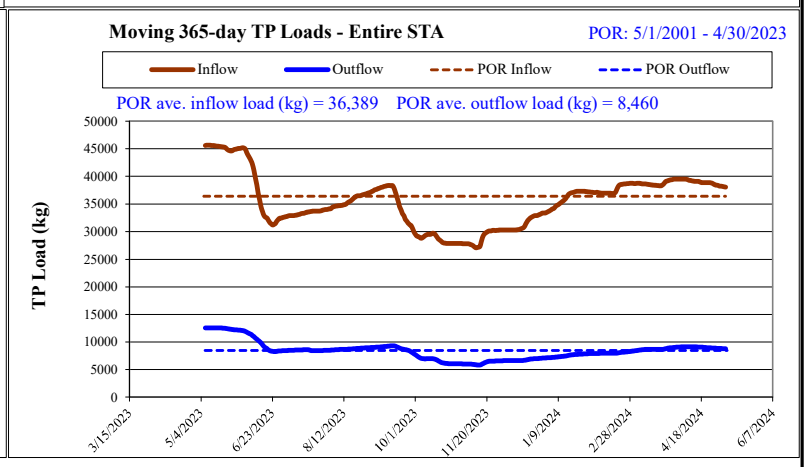
Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

Flow-way 5	Flow-way 4	Flow-way 3	Flow-way 2	Flow-way 1
On-line	On-line	On-line	On-line	On-line
	On-line with restrictions for vegetation managements activities starting on 10/28/2019.		On-line with restrictions for vegetation management activities starting on 08/14/2023.	Contains nest(s) of MBTA-protected species.









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WEEKLY STA PERFORMANCE SUMMARY

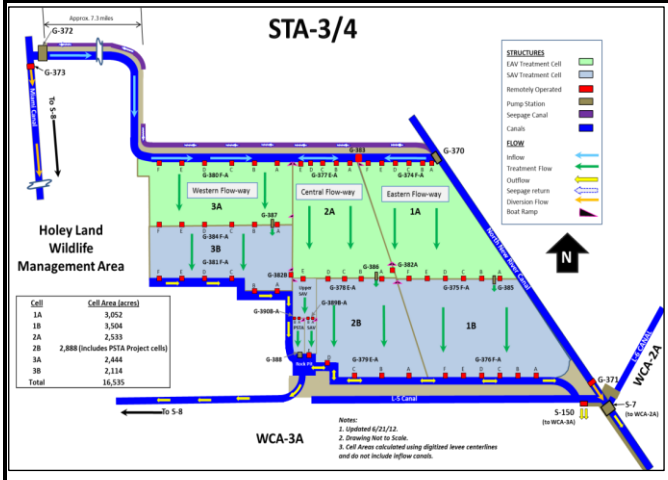
PROJECT STA-3/4 **DATE** 5/6/2024 **LATEST DATA** 5/5/2024

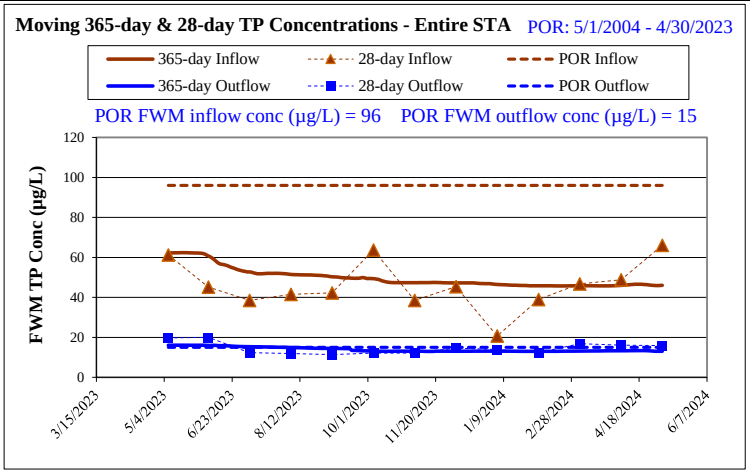
WY2025 to Date Flow-weighted Mean Conc (µg/L) Inflow: 111 Outflow: 15

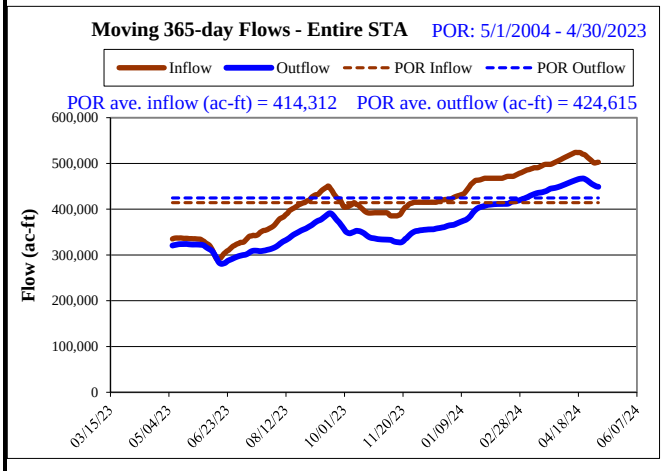
		Entire STA	W Flow-way	C Flow-way	E Flow-way
365-day Values	Inflow Volume (ac-ft)	502,726	212,976	259,342	30,408
	Inflow Load (kg)	43,908	13,354	13,417	1,763
	Inflow Flow-weighted Mean Conc (µg/L)	71	51	42	47
	Outflow Volume (ac-ft)	448,948	198,219	208,334	42,395
	Outflow Load (kg)	7,213	3,308	2,960	945
	Outflow Flow-weighted Mean Conc (µg/L)	13	14	12	18
365-day load reduction (kg)		36,695	10,046	10,458	818
28-day Values	Inflow Volume (ac-ft)	27,259	8,960	9,188	9,111
	Inflow Load (kg)	3,653	716	786	717
	Inflow Flow-weighted Mean Conc (µg/L)	109	65	69	64
	Outflow Volume (ac-ft)	21,015	7,884	5,876	7,255
	Outflow Load (kg)	411	160	121	130
	Outflow Flow-weighted Mean Conc (µg/L)	16	17	17	15
7-day Values	Inflow Volume (ac-ft)	8,917	2,990	3,050	2,877
	Inflow Flow-weighted Mean Conc (µg/L)	110	60	66	64
	Outflow Volume (ac-ft)	6,761	2,539	1,922	2,300
	Outflow Flow-weighted Mean Conc (µg/L)	16	15	19	14
365-day Phosphorus Loading Rate ($g/m^2/yr$)		0.8	0.7	0.6	N/A
6-month trend in outflow TP concentration (- means decrease; µg/L)		0	-1	0	-3

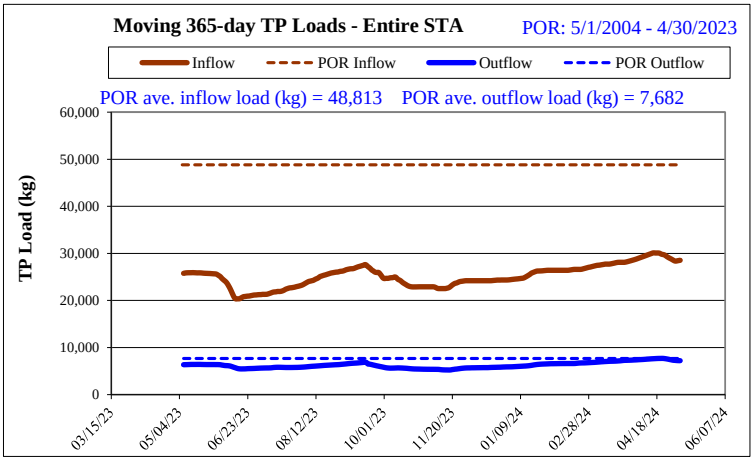
Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

W Flow-way	C Flow-way	E Flow-way
On-line	On-line	On-line
		On-line with restrictions for vegetation management activities effective 8/29/2023.









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WEEKLY STA PERFORMANCE SUMMARY

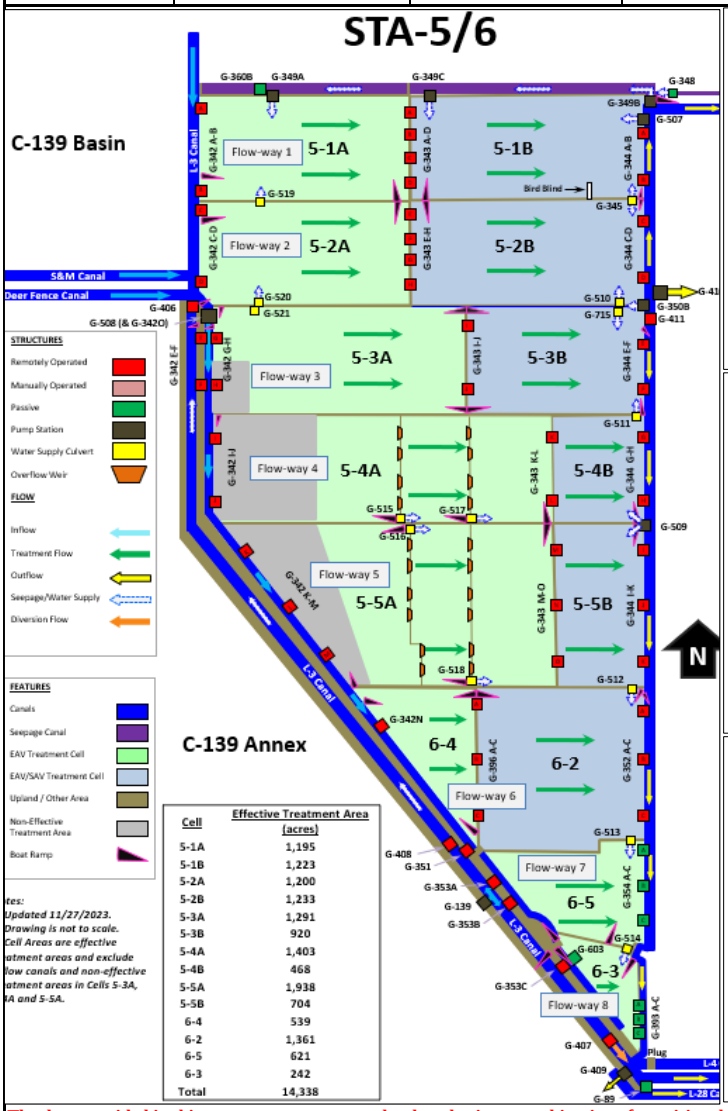
PROJECT STA-5/6 **DATE 5/6/2024** **LATEST DATA 5/5/2024**

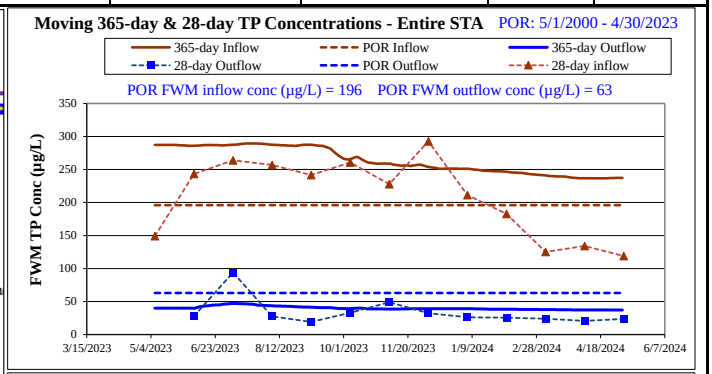
Y2025 to Date Flow-weighted Mean Conc (µg/L) Inflow: no flow Outflow: no fl		Entire STA	Flow-way 1	Flow-way 2	Flow-way 3	Flow-way 4	Flow-way 5	Flow-way 6	Flow-way 7	Flow-way 8
365-day Values	Inflow Volume (ac-ft)	208,261	23,164	55,558	41,921	12,473	49,530	31,255	4,614	2,110
	Inflow Load (kg)	60,947	5,162	13,364	14,650	3,848	13,373	5,339	982	304
	Inflow Flow-weighted Mean Conc (µg/L)	237	181	195	283	250	219	138	173	117
	Outflow Volume (ac-ft)	223,487	23,275	59,860	59,614	16,856	55,102	1,538	5,307	1,935
	Outflow Load (kg)	10,245	453	1,175	3,110	1,215	3,816	130	285	60
	Outflow Flow-weighted Mean Conc (µg/L)	37	16	16	42	58	56	68	44	25
365-day load reduction (kg)		50,702	4,709	12,189	11,540	2,634	9,557	5,209	697	243
28-day Values	Inflow Volume (ac-ft)	22	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Inflow Load (kg)	3	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	119	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Outflow Volume (ac-ft)	708	no flow	144	32	70	462	no flow	no flow	no flow
	Outflow Load (kg)	21	no flow	3	1	2	15	no flow	no flow	no flow
	Outflow Flow-weighted Mean Conc (µg/L)	24	no flow	17	20	24	26	no flow	no flow	no flow
7-day Values	Inflow Volume (ac-ft)	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Inflow Flow-weighted Mean Conc (µg/L)	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Outflow Volume (ac-ft)	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow
	Outflow Flow-weighted Mean Conc (µg/L)	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow	no flow
365-day phosphorus loading rate ($g/m^2/yr$)		1.1	0.5	1.4	1.6	0.5	1.3	0.7	0.4	0.3
6-month trend in outflow TP concentration (- means decrease; µg/L)		-1	0	-1	0	-3	-9	-122	3	3

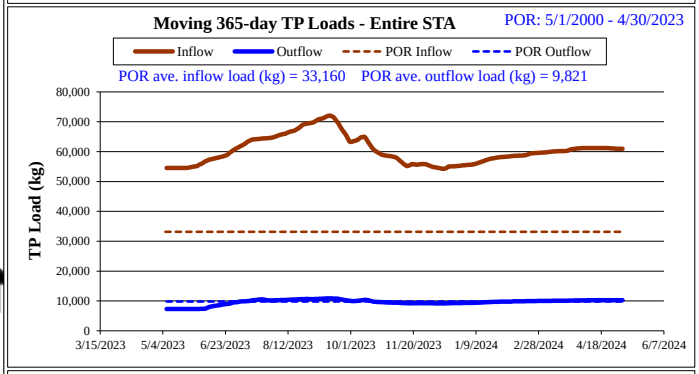
Inflows to Rotenberger over the last 365 days Volume (ac-ft) 47 TP Load (kg) 2 TP Conc (µg/L) 39

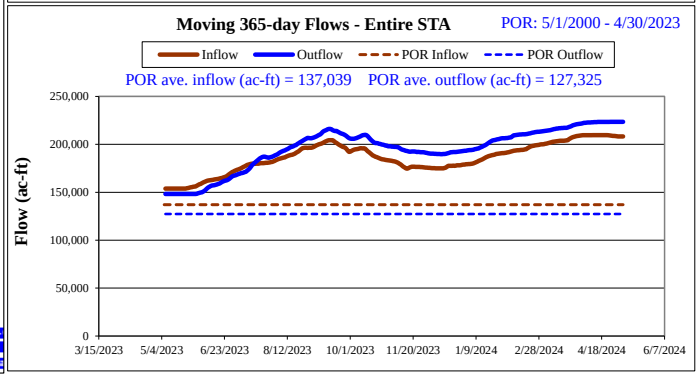
Flow-Way Information (Research projects, stage-duration, vegetation, etc.)

Flow-way 1	Flow-way 2	Flow-way 3	Flow-way 4	Flow-way 5	Flow-way 6	Flow-way 7	Flow-way 8
On-line	On-line	On-line	On-line	On-line	On-line	On-line	On-line









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