

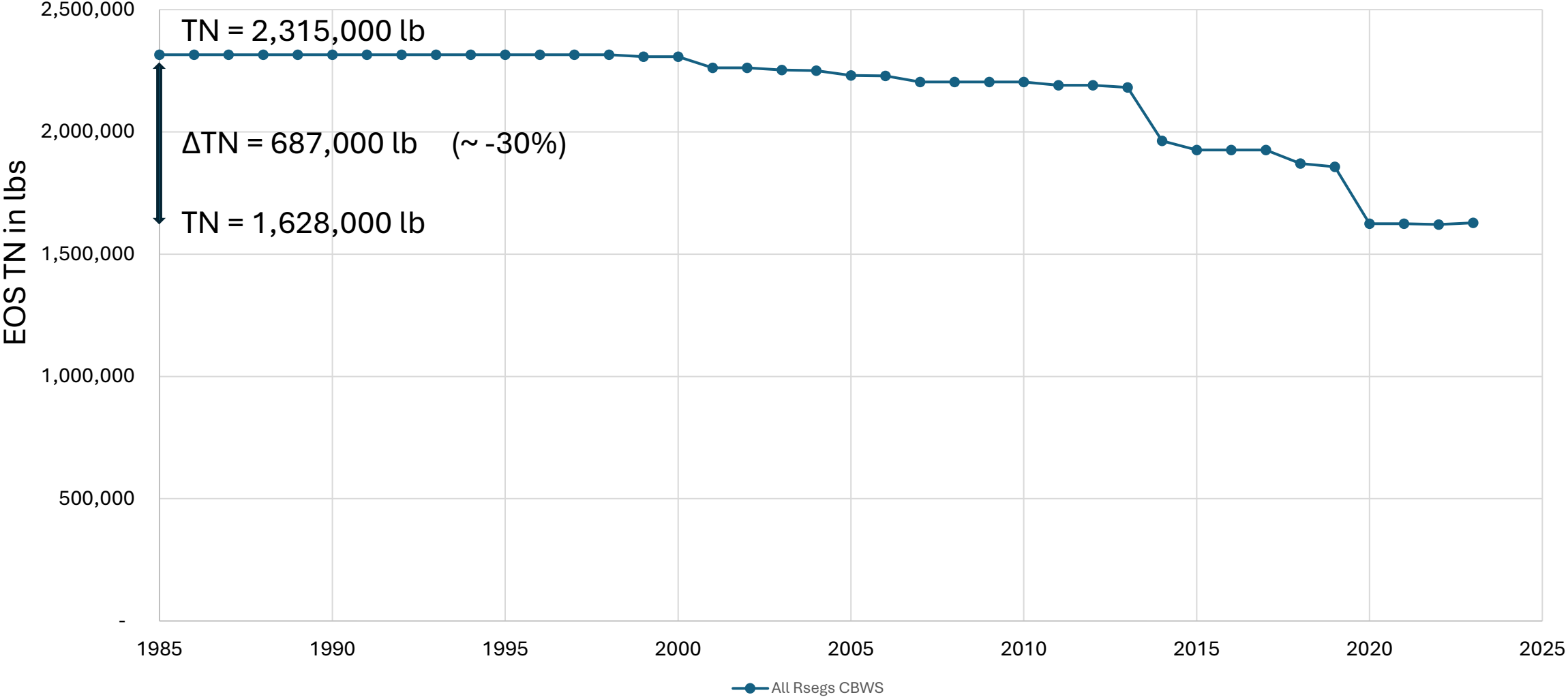
Phase 6 CSO Loads

CSO Small Group

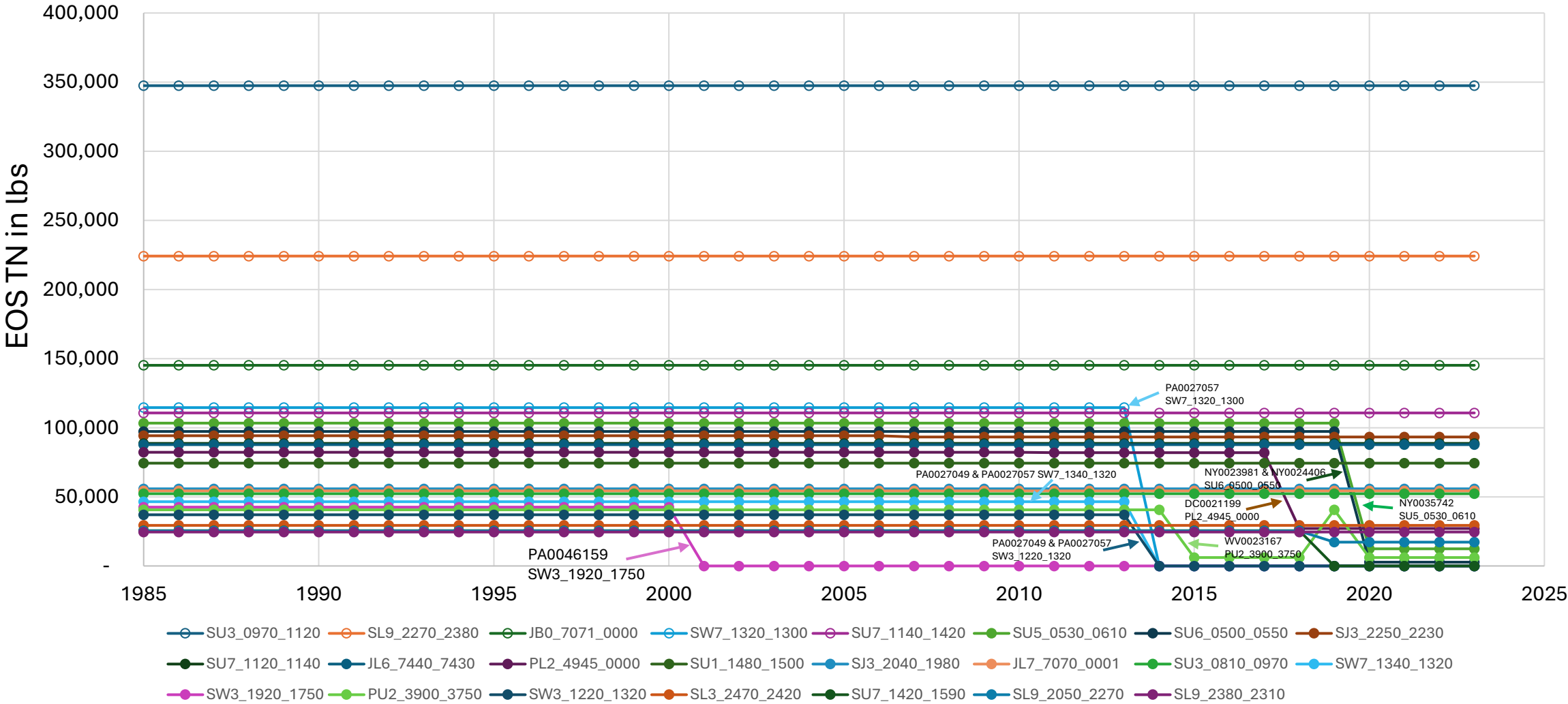
CSO Loads in Phase 6

- A total of 64 NPDES
- 130 pairs of NPDES and land river segments (99 lrsegs)
- 114 pairs of NPDES and river segments (85 rsegs)
- 2.31 Mlb-TN at Edge of Stream (EOS) in 1995
 - 23 rsegs (out of 85 rsegs) account for >2 Mlb-TN

CSO EOS TN Load under 1991-2000 Average Hydrology



CSO EOS TN Load under 1991-2000 Average Hydrology



The CSO Small Group raised two questions

July 30, 2025

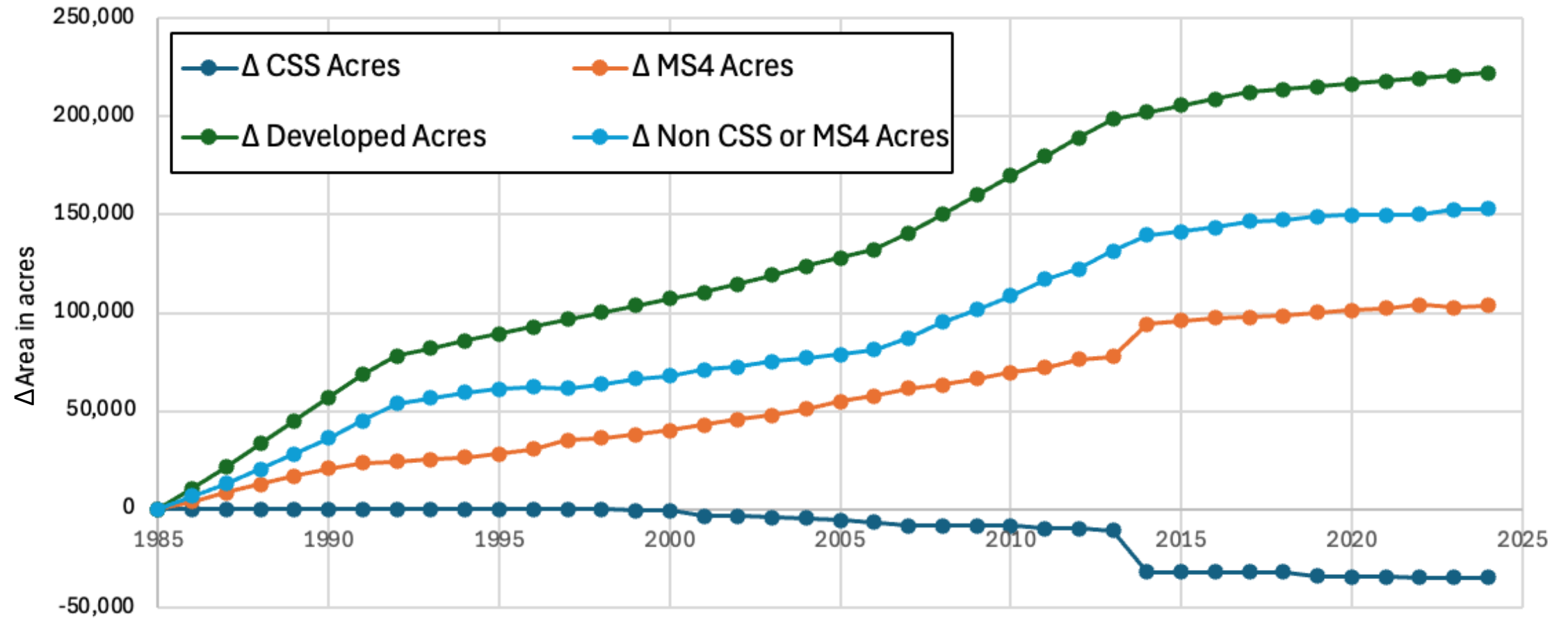
[Q1] How is separation of CSS area handled?

[Q2] How CSO loads are changing over time between (a) CSS area separation, and (b) flow reduction/control?

[Q1] How is separation of CSS area handled?

- CSS area separation results in corresponding increase in MS4 area. For some VA counties separation is added to non-reg developed based on data provided by VA for counties without MS4s permits.
- CSS natural area separation does not go to MS4, instead it is added to natural land uses.
- Change in MS4s area due to CSS area separation is added to annual MS4 land use acres.
- CSS area separation is proportionately applied to all CSS acres.

Change in acres of CSS, MS4, Developed, etc. over time



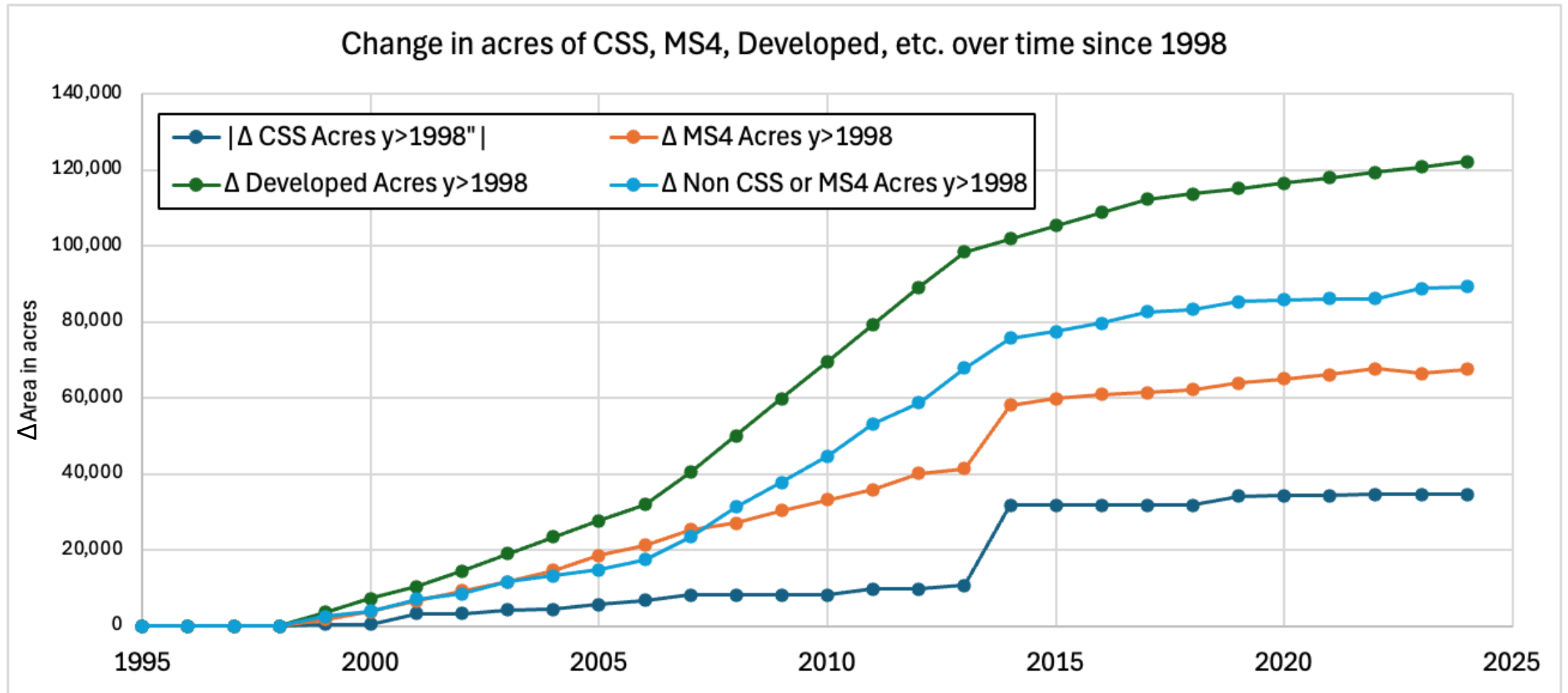
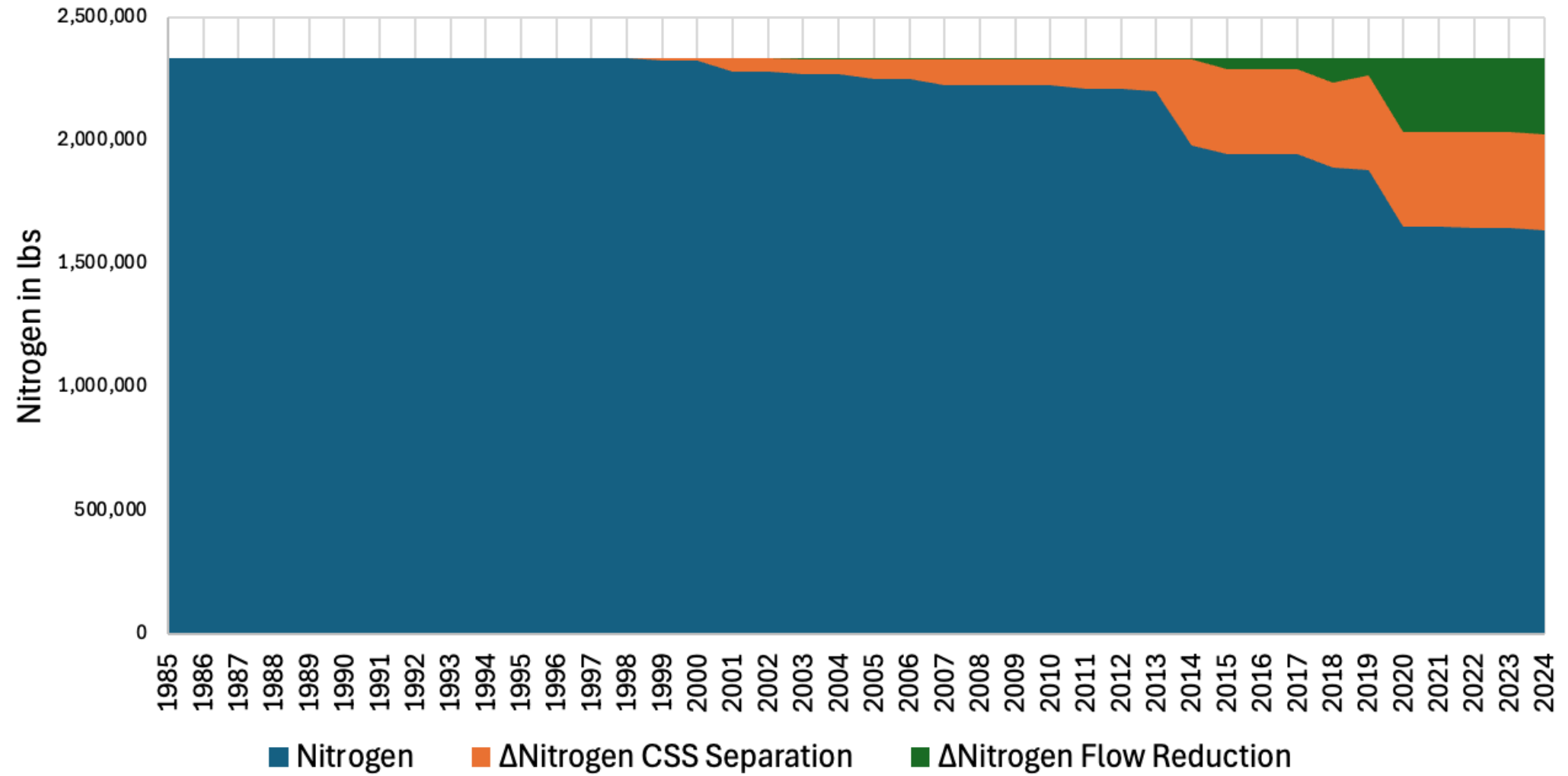


Figure shows $\Delta \text{MS4 Acres} > |\Delta \text{CSS Acres}|$

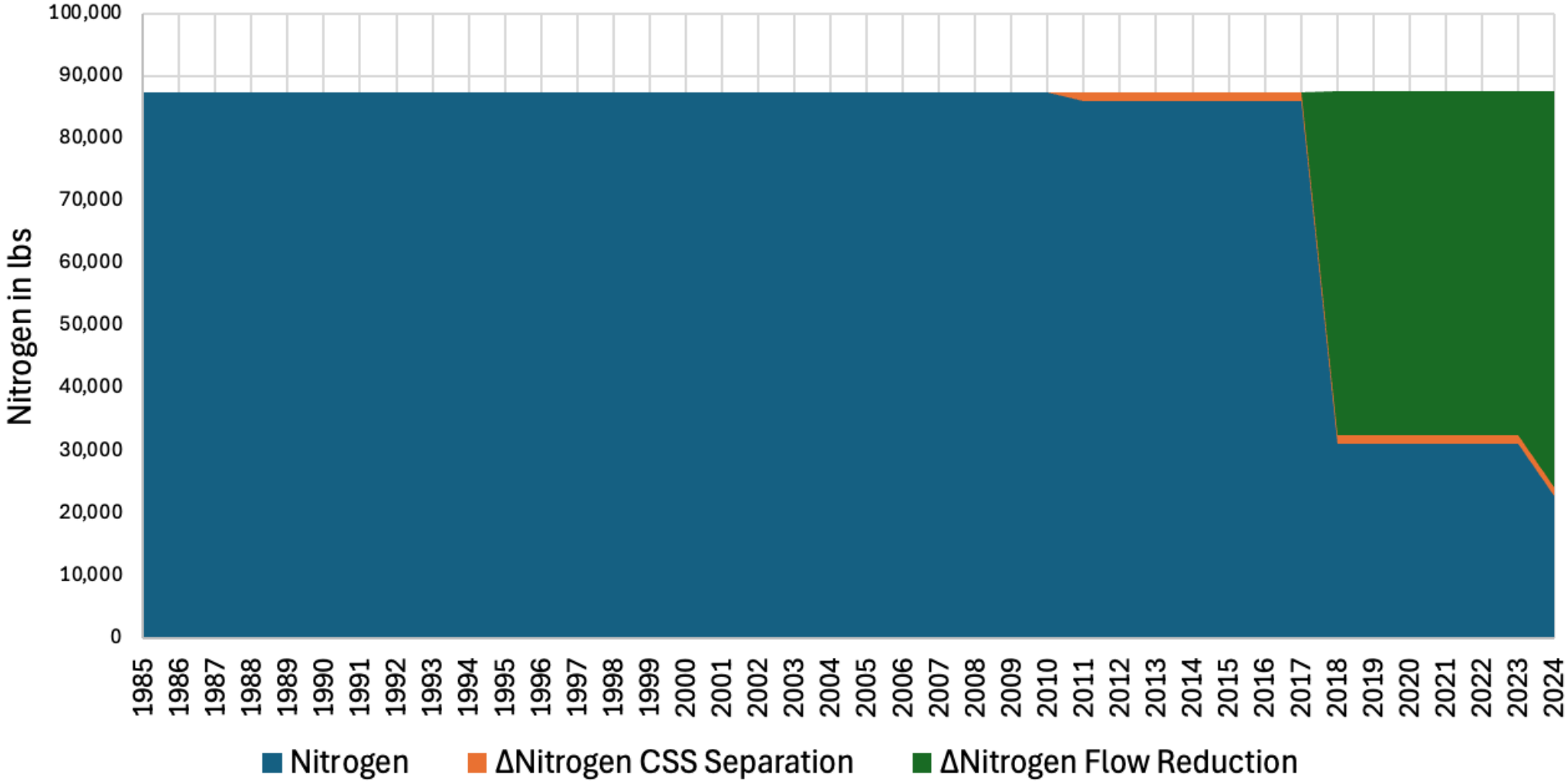
[Q2] How CSO loads are changing over time between (a) CSS area separation, and (b) flow reduction/control?

- We performed analyses of CAST-23 data to generate a few figures and tables.
 - The spreadsheet is < 3MB and so can be easily shared.

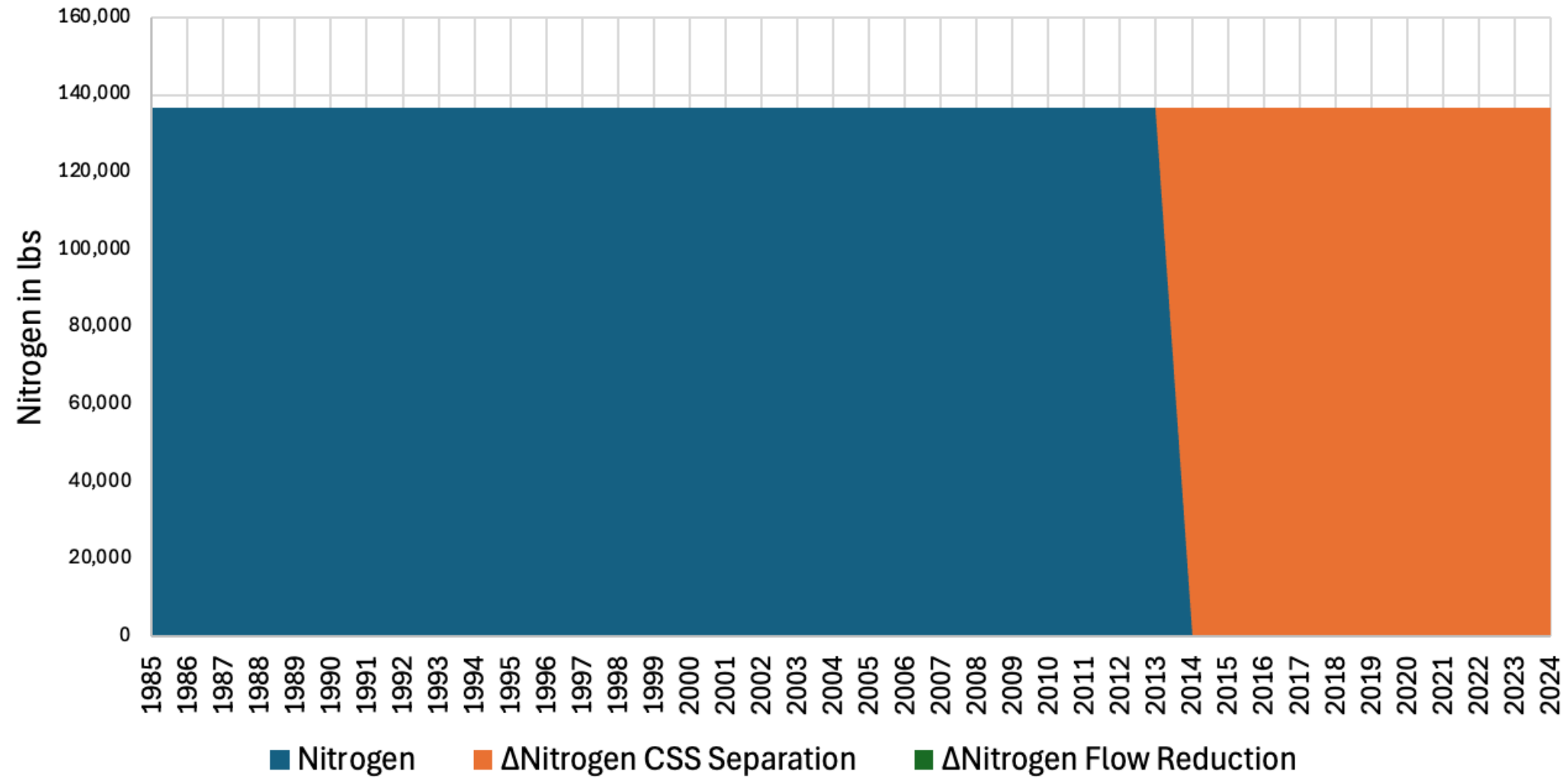
Trend in CSO Nitrogen CBWS



Trend in CSO Nitrogen DC0021199



Trend in CSO Nitrogen PA0027057



Summary of the data (not the detailed info which is available on request)

Option #1a: 1995 loads, 2024 loads, type of treatment

NPDES	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
DC00021199	2,229	87,414	18,599	2,417,821	584	22,901	4,873	633,438	1.63% in 2011	72.4% in 2018
DE00020265	35	2,318	290	37,662	-	-	-	-	100% in 2001	-
MD00020249	13	900	112	14,617	-	-	-	-	100% in 2003	-
MD00021571	0	16	2	265	-	-	-	-	100% in 2006	-
MD00021598	111	5,435	404	78,598	111	5,435	404	78,598	-	-
MD00021601	151	10,100	1,263	164,128	-	-	-	-	100% in 2007	-
MD00021636	25	1,697	212	27,584	-	-	-	-	100% in 2014	-
MD00022764	26	1,711	214	27,808	-	-	-	-	100% in 2006	-
MD00067384	3	223	28	3,621	3	223	28	3,621	-	-
MD00067407	5	317	40	5,159	5	317	40	5,159	-	-
MD00067423	3	191	24	3,109	3	191	24	3,109	-	-
MD00067547	157	10,480	1,310	170,303	157	10,480	1,310	170,303	-	-
NY00023981	979	65,342	8,168	1,061,810	0	33	4	531	-	100% in 2020
NY00244006	617	41,160	5,145	668,852	52	3,482	435	56,585	-	91.5% in 2020
NY0035742	1,581	105,513	13,189	1,714,581	190	12,662	1,583	205,750	-	88% in 2020
PA00020940	41	2,736	342	44,465	-	-	-	-	100% in 2004	-
PA00021237	86	5,747	718	93,391	34	2,299	287	37,357	60% in 2020	-
PA00021539	28	1,836	229	29,832	-	-	-	-	100% in 2007	-
PA00021571	121	8,095	1,012	131,539	-	-	-	-	100% in 2019	-
PA00021687	88	5,873	734	95,440	88	5,873	734	95,440	-	-
PA00021814	85	5,644	705	91,714	13	847	106	13,757	85% in 2014	-
PA00022209	101	6,770	846	110,017	101	6,770	846	110,017	-	-
PA00023248	383	25,539	3,192	415,001	-	-	-	-	100% in 2019	-
PA00023558	50	3,340	417	54,271	50	3,340	417	54,271	-	-
PA00023736	198	13,209	1,651	214,649	198	13,209	1,651	214,649	-	-
PA00024341	293	19,535	2,442	317,436	-	-	-	-	100% in 2005	-
PA00024406	81	5,410	676	87,918	-	-	-	-	100% in 2013	-
PA00026107	2,980	198,924	79,048	3,569,449	2,980	198,924	79,048	3,569,449	-	-
PA00026191	321	21,452	2,681	348,593	321	21,452	2,681	348,593	-	-
PA00026310	216	14,434	1,804	234,560	216	14,434	1,804	234,560	-	-
PA00026361	2,380	101,677	12,489	1,914,405	2,380	101,677	12,489	1,914,405	-	-
PA00026492	1,291	86,149	10,769	1,399,918	1,291	86,149	10,769	1,399,918	-	-
PA00026557	244	16,309	2,039	265,016	244	16,309	2,039	265,016	-	-
PA00026743	530	35,360	4,420	574,595	530	35,360	4,420	574,595	-	-
PA00026921	1,425	95,132	11,892	1,545,897	1,425	95,132	11,892	1,545,897	-	-
PA00027014	845	56,424	7,053	916,893	845	56,424	7,053	916,893	-	-
PA00027022	1,353	90,298	11,287	1,467,337	1,353	90,298	11,287	1,467,337	-	-
PA00027049	1,130	75,413	9,427	1,225,462	-	-	-	-	100% in 2014	-
PA00027057	2,049	136,800	17,100	2,223,006	-	-	-	-	100% in 2014	-
PA00027065	618	41,257	5,157	670,434	618	41,257	5,157	670,434	-	-
PA00027081	157	10,465	1,308	170,062	157	10,465	1,308	170,062	-	-
PA00027090	1,865	124,489	15,561	2,022,943	1,865	124,489	15,561	2,022,943	-	-
PA00027197	3,244	216,538	27,067	3,518,738	3,244	216,538	27,067	3,518,738	-	-
PA00027324	284	18,951	2,369	307,959	284	18,951	2,369	307,959	-	-
PA00028631	60	4,014	502	65,221	60	4,014	502	65,221	-	-
PA00028673	50	3,354	419	54,499	-	-	-	-	100% in 2022	-
PA00036820	193	12,877	1,610	209,247	-	-	-	-	100% in 2007	-
PA00037711	186	12,429	1,554	201,966	-	-	-	-	100% in 2011	-
PA00038920	49	3,286	411	53,397	-	-	-	-	100% in 2013	-
PA00043273	36	2,380	297	38,671	36	2,380	297	38,671	-	-
PA00046159	638	42,560	5,320	691,595	-	-	-	-	100% in 2001	-
PA00070041	101	6,738	842	109,486	24	1,603	200	26,049	-	76.2% in 2003
PA00070386	136	9,105	1,138	147,959	136	9,105	1,138	147,959	-	-
PAG062202	597	39,881	4,985	648,072	597	39,881	4,985	648,072	-	-
PAG063501	741	49,433	6,179	803,284	741	49,433	6,179	803,284	-	-
VA00024970	1,315	87,766	10,971	1,426,197	1,315	87,766	10,971	1,426,197	-	-
VA00025542	125	8,318	1,040	135,175	-	-	-	-	100% in 1999	-
VA00063177	3,113	207,786	25,973	3,376,518	3,113	207,786	25,973	3,376,518	-	-
VA00087068	117	5,735	761	68,759	117	5,735	761	68,759	-	-
WV00020150	37	2,496	312	40,567	6	374	47	6,085	-	85% in 2020
WV00021792	48	3,226	403	52,427	-	-	-	-	100% in 2003	-
WV00023167	614	40,998	5,125	666,222	92	6,150	769	99,933	-	85% in 2015
WV00024392	119	7,949	994	129,170	18	1,192	149	19,375	-	85% in 2020
WV0105279	121	8,082	1,010	131,338	121	8,082	1,010	131,338	-	-

Option #1b: 1995 loads, type of treatment

NPDES	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
DC00021199	2,229	87,414	18,599	2,417,821	1.63% in 2011	72.4% in 2018
DE00020265	35	2,318	290	37,662	100% in 2001	-
MD00020249	13	900	112	14,617	100% in 2003	-
MD00021571	0	16	2	265	100% in 2006	-
MD00021598	111	5,435	404	78,598	-	-
MD00021601	151	10,100	1,263	164,128	100% in 2007	-
MD00021636	25	1,697	212	27,584	100% in 2014	-
MD00022764	26	1,711	214	27,808	100% in 2006	-
MD00067384	3	223	28	3,621	-	-
MD00067407	5	317	40	5,159	-	-
MD00067423	3	191	24	3,109	-	-
MD00067547	157	10,480	1,310	170,303	-	-
NY00023981	979	65,342	8,168	1,061,810	-	100% in 2020
NY00244006	617	41,160	5,145	668,852	-	91.5% in 2020
NY0035742	1,581	105,513	13,189	1,714,581	-	88% in 2020
PA00020940	41	2,736	342	44,465	100% in 2004	-
PA00021237	86	5,747	718	93,391	60% in 2020	-
PA00021539	28	1,836	229	29,832	100% in 2007	-
PA00021571	121	8,095	1,012	131,539	100% in 2019	-
PA00021687	88	5,873	734	95,440	-	-
PA00021814	85	5,644	705	91,714	85% in 2014	-
PA00022209	101	6,770	846	110,017	-	-
PA00023248	383	25,539	3,192	415,001	100% in 2019	-
PA00023558	50	3,340	417	54,271	-	-
PA00023736	198	13,209	1,651	214,649	-	-
PA00024341	293	19,535	2,442	317,436	100% in 2005	-
PA00024406	81	5,410	676	87,918	100% in 2013	-
PA00026107	2,980	198,924	79,048	3,569,449	-	-
PA00026191	321	21,452	2,681	348,593	-	-
PA00026310	216	14,434	1,804	234,560	-	-
PA00026361	2,380	101,677	12,489	1,914,405	-	-
PA00026492	1,291	86,149	10,769	1,399,918	-	-
PA00026557	244	16,309	2,039	265,016	-	-
PA00026743	530	35,360	4,420	574,595	-	-
PA00026921	1,425	95,132	11,892	1,545,897	-	-
PA00027014	845	56,424	7,053	916,893	-	-
PA00027022	1,353	90,298	11,287	1,467,337	-	-
PA00027049	1,130	75,413	9,427	1,225,462	100% in 2014	-
PA00027057	2,049	136,800	17,100	2,223,006	100% in 2014	-
PA00027065	618	41,257	5,157	670,434	-	-
PA00027081	157	10,465	1,308	170,062	-	-
PA00027090	1,865	124,489	15,561	2,022,943	-	-
PA00027197	3,244	216,538	27,067	3,518,738	-	-
PA00027324	284	18,951	2,369	307,959	-	-
PA00028631	60	4,014	502	65,221	-	-
PA00028673	50	3,354	419	54,499	100% in 2022	-
PA00036820	193	12,877	1,610	209,247	100% in 2007	-
PA00037711	186	12,429	1,554	201,966	100% in 2011	-
PA00038920	49	3,286	411	53,397	100% in 2013	-
PA00043273	36	2,380	297	38,671	-	-
PA00046159	638	42,560	5,320	691,595	100% in 2001	-
PA00070041	101	6,738	842	109,486	-	76.2% in 2003
PA00070386	136	9,105	1,138	147,959	-	-
PAG062202	597	39,881	4,985	648,072	-	-
PAG063501	741	49,433	6,179	803,284	-	-
VA00024970	1,315	87,766	10,971	1,426,197	-	-
VA00025542	125	8,318	1,040	135,175	100% in 1999	-
VA00063177	3,113	207,786	25,973	3,376,518	-	-
VA00087068	117	5,735	761	68,759	-	-
WV00020150	37	2,496	312	40,567	-	85% in 2020
WV00021792	48	3,226	403	52,427	100% in 2003	-
WV00023167	614	40,998	5,125	666,222	-	85% in 2015
WV00024392	119	7,949	994	129,170	-	85% in 2020
WV0105279	121	8,082	1,010	131,338	-	-

Summary of
the data (not
the detailed
info which is
available on
request)

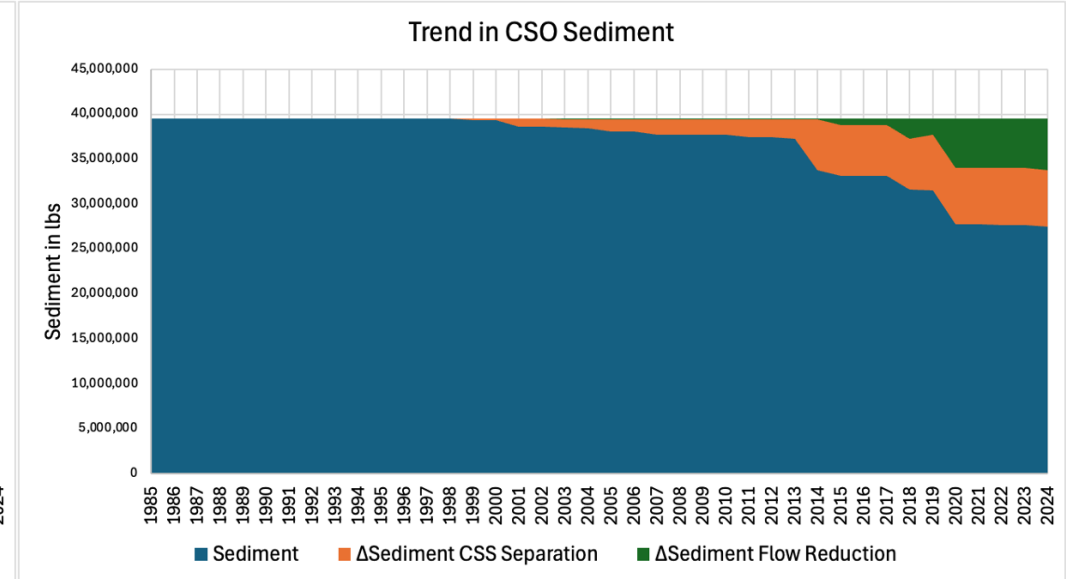
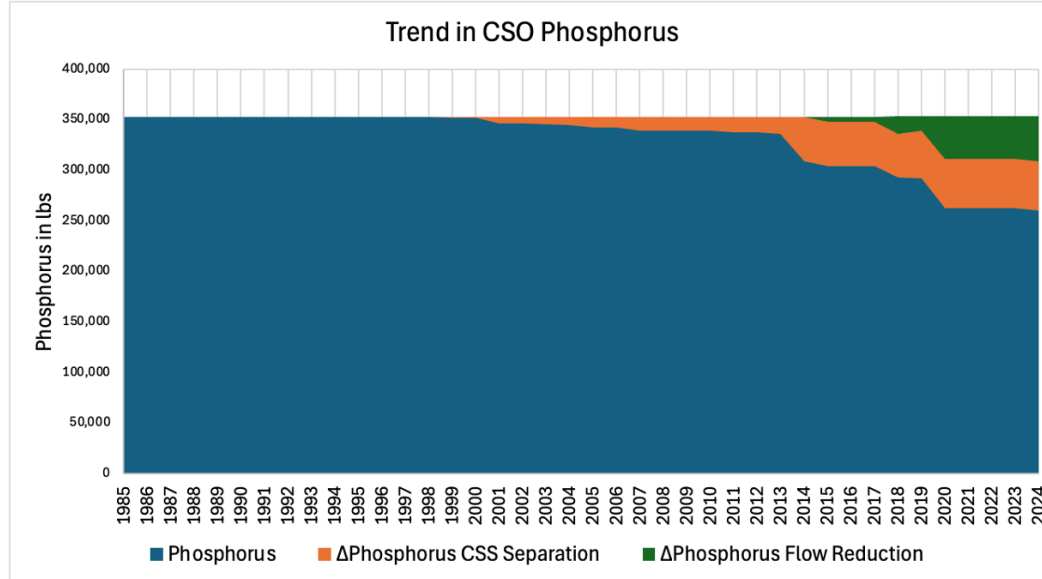
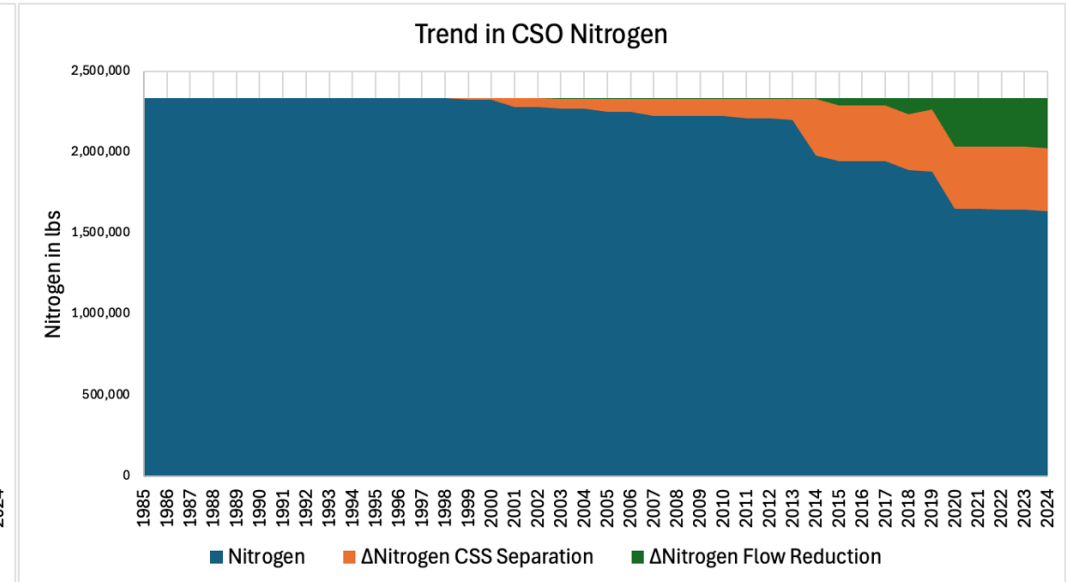
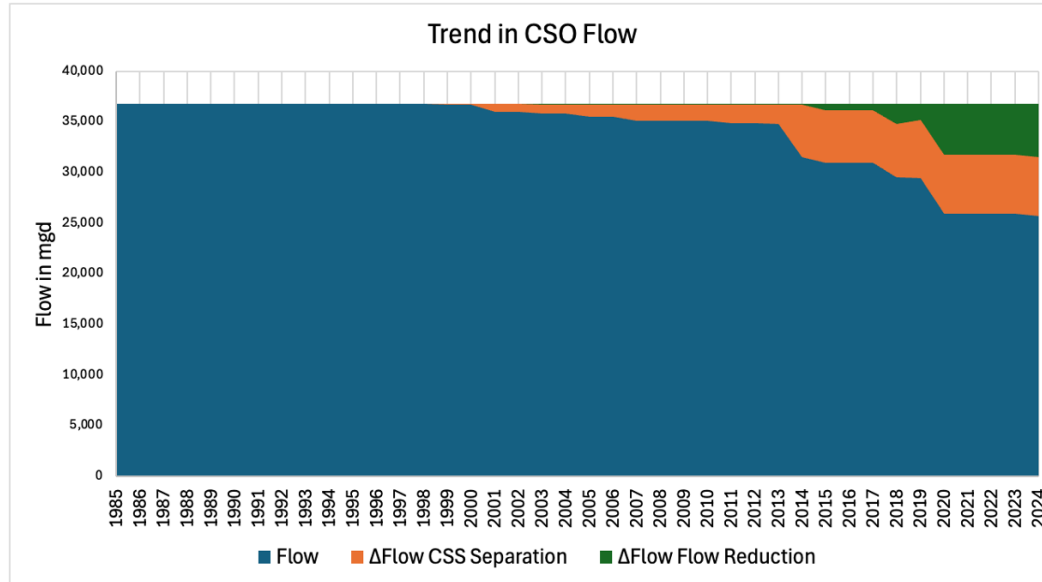
Option #2a: 2010 loads, 2024 loads, type of treatment

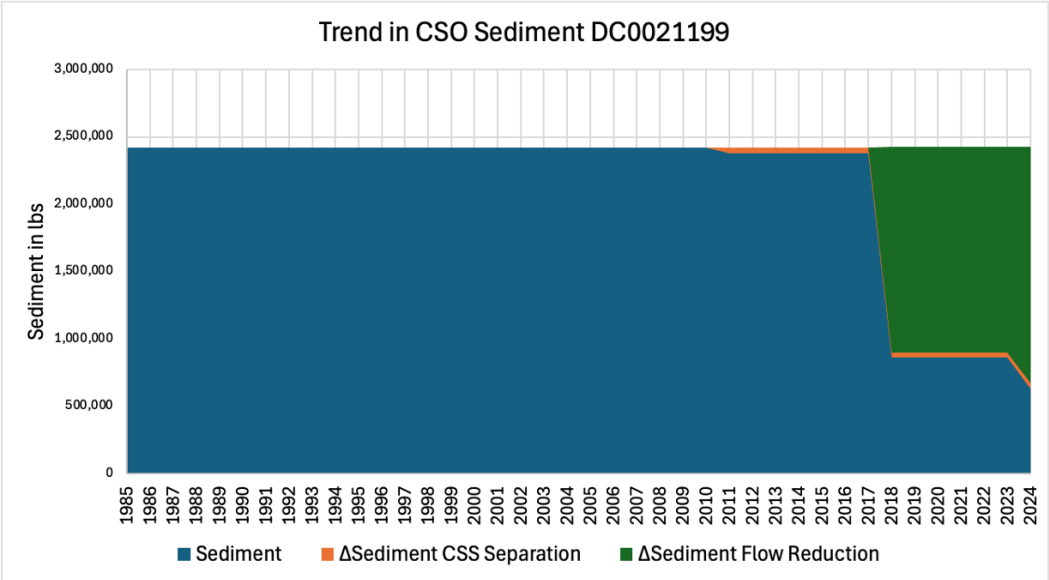
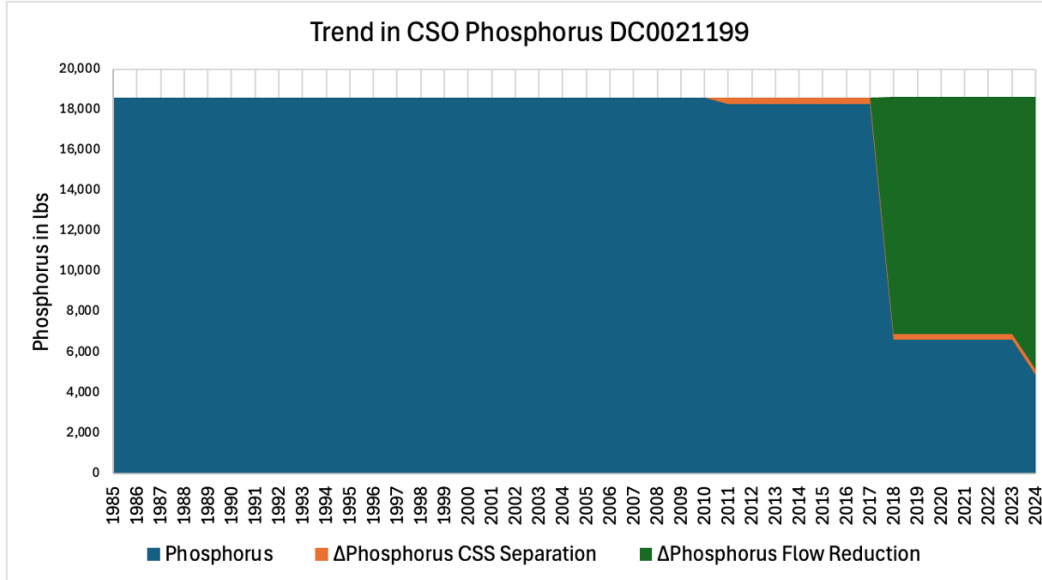
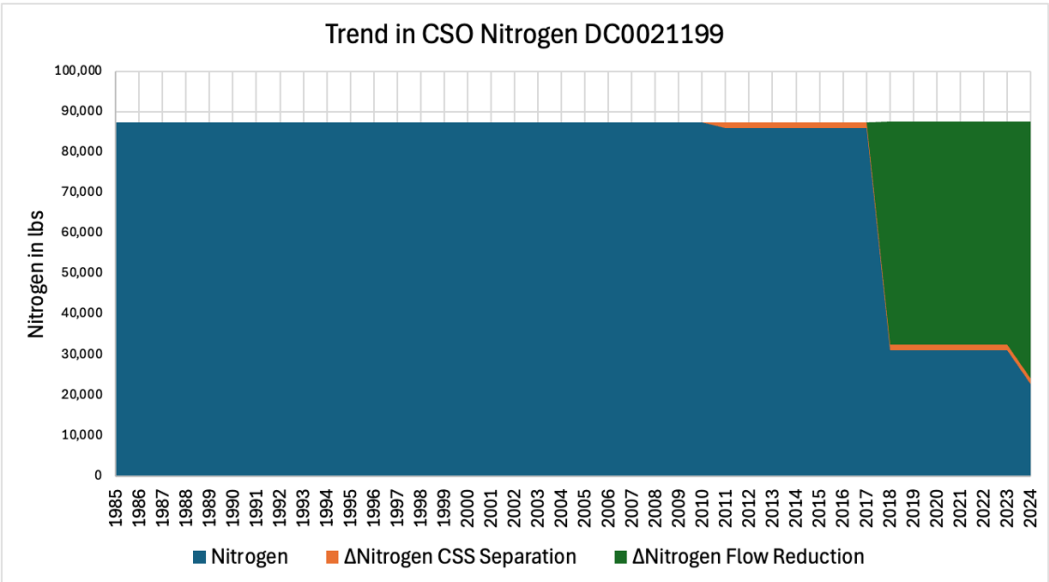
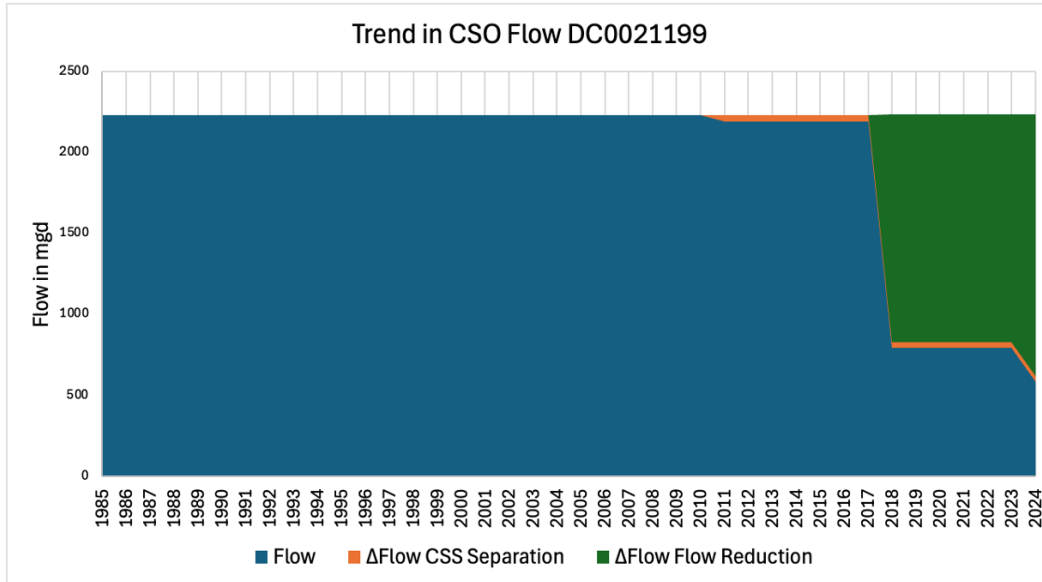
NPDES	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
DC0021199	2,229	87,414	18,599	2,417,821	584	22,901	4,873	633,438	1.63% In 2011	72.4% In 2018
DE0020265	-	-	-	-	-	-	-	-	-	-
MD0020249	-	-	-	-	-	-	-	-	-	-
MD0021571	-	-	-	-	-	-	-	-	-	-
MD0021598	111	5,435	404	78,598	111	5,435	404	78,598	-	-
MD0021601	-	-	-	-	-	-	-	-	-	-
MD0021636	25	1,697	212	27,584	-	-	-	-	100% In 2014	-
MD0022764	-	-	-	-	-	-	-	-	-	-
MD0067384	3	223	28	3,621	3	223	28	3,621	-	-
MD0067407	5	317	40	5,159	5	317	40	5,159	-	-
MD0067423	3	191	24	3,109	3	191	24	3,109	-	-
MD0067547	157	10,480	1,310	170,303	157	10,480	1,310	170,303	-	-
NY0023981	979	65,342	8,168	1,061,810	0	33	4	531	-	100% In 2020
NY0024406	617	41,160	5,145	668,852	52	3,482	435	56,585	-	91.5% In 2020
NY0035742	1,581	105,513	13,189	1,714,581	190	12,662	1,583	205,750	-	88% In 2020
PA0020940	-	-	-	-	-	-	-	-	-	-
PA0021237	86	5,747	718	93,391	34	2,299	287	37,357	60% In 2020	-
PA0021539	-	-	-	-	-	-	-	-	-	-
PA0021571	121	8,095	1,012	131,539	-	-	-	-	100% In 2019	-
PA0021687	88	5,873	734	95,440	88	5,873	734	95,440	-	-
PA0021814	85	5,644	705	91,714	13	847	106	13,757	85% In 2014	-
PA0022209	101	6,770	846	110,017	101	6,770	846	110,017	-	-
PA0023248	383	25,539	3,192	415,001	-	-	-	-	100% In 2019	-
PA0023558	50	3,340	417	54,271	50	3,340	417	54,271	-	-
PA0023736	198	13,209	1,651	214,649	198	13,209	1,651	214,649	-	-
PA0024341	-	-	-	-	-	-	-	-	-	-
PA0024406	81	5,410	676	87,918	-	-	-	-	100% In 2013	-
PA0026107	2,980	198,924	79,048	3,569,449	2,980	198,924	79,048	3,569,449	-	-
PA0026191	321	21,452	2,681	348,593	321	21,452	2,681	348,593	-	-
PA0026310	216	14,434	1,804	234,560	216	14,434	1,804	234,560	-	-
PA0026361	2,380	101,677	12,489	1,914,405	2,380	101,677	12,489	1,914,405	-	-
PA0026492	1,291	86,149	10,769	1,399,918	1,291	86,149	10,769	1,399,918	-	-
PA0026557	244	16,309	2,039	265,016	244	16,309	2,039	265,016	-	-
PA0026743	530	35,360	4,420	574,595	530	35,360	4,420	574,595	-	-
PA0026921	1,425	95,132	11,892	1,545,897	1,425	95,132	11,892	1,545,897	-	-
PA0027014	845	56,424	7,053	916,893	845	56,424	7,053	916,893	-	-
PA0027022	1,353	90,298	11,287	1,467,337	1,353	90,298	11,287	1,467,337	-	-
PA0027049	1,130	75,413	9,427	1,225,462	-	-	-	-	100% In 2014	-
PA0027057	2,049	136,800	17,100	2,223,006	-	-	-	-	100% In 2014	-
PA0027065	618	41,257	5,157	670,434	618	41,257	5,157	670,434	-	-
PA0027081	157	10,465	1,308	170,062	157	10,465	1,308	170,062	-	-
PA0027090	1,865	124,489	15,561	2,022,943	1,865	124,489	15,561	2,022,943	-	-
PA0027197	3,244	216,538	27,067	3,518,738	3,244	216,538	27,067	3,518,738	-	-
PA0027324	284	18,951	2,369	307,959	284	18,951	2,369	307,959	-	-
PA0028631	60	4,014	502	65,221	60	4,014	502	65,221	-	-
PA0028673	50	3,354	419	54,499	-	-	-	-	100% In 2022	-
PA0036820	-	-	-	-	-	-	-	-	-	-
PA0037711	186	12,429	1,554	201,966	-	-	-	-	100% In 2011	-
PA0038920	49	3,286	411	53,397	-	-	-	-	100% In 2013	-
PA0043273	36	2,380	297	38,671	36	2,380	297	38,671	-	-
PA0046159	-	-	-	-	-	-	-	-	-	-
PA0070041	24	1,603	200	26,049	24	1,603	200	26,049	-	320% In 2003
PA0070386	136	9,105	1,138	147,959	136	9,105	1,138	147,959	-	-
PAG062202	597	39,881	4,985	648,072	597	39,881	4,985	648,072	-	-
PAG063501	741	49,433	6,179	803,284	741	49,433	6,179	803,284	-	-
VA0024970	1,315	87,766	10,971	1,426,197	1,315	87,766	10,971	1,426,197	-	-
VA0025542	-	-	-	-	-	-	-	-	-	-
VA0063177	3,113	207,786	25,973	3,376,518	3,113	207,786	25,973	3,376,518	-	-
VA0087068	117	5,735	761	68,759	117	5,735	761	68,759	-	-
WV0020150	37	2,496	312	40,567	6	374	47	6,085	-	85% In 2020
WV0021792	-	-	-	-	-	-	-	-	-	-
WV0023167	614	40,998	5,125	666,222	92	6,150	769	99,933	-	85% In 2015
WV0024392	119	7,949	994	129,170	18	1,192	149	19,375	-	85% In 2020
WV0105279	121	8,082	1,010	131,338	121	8,082	1,010	131,338	-	-

Option #2b: 2010 loads, type of treatment

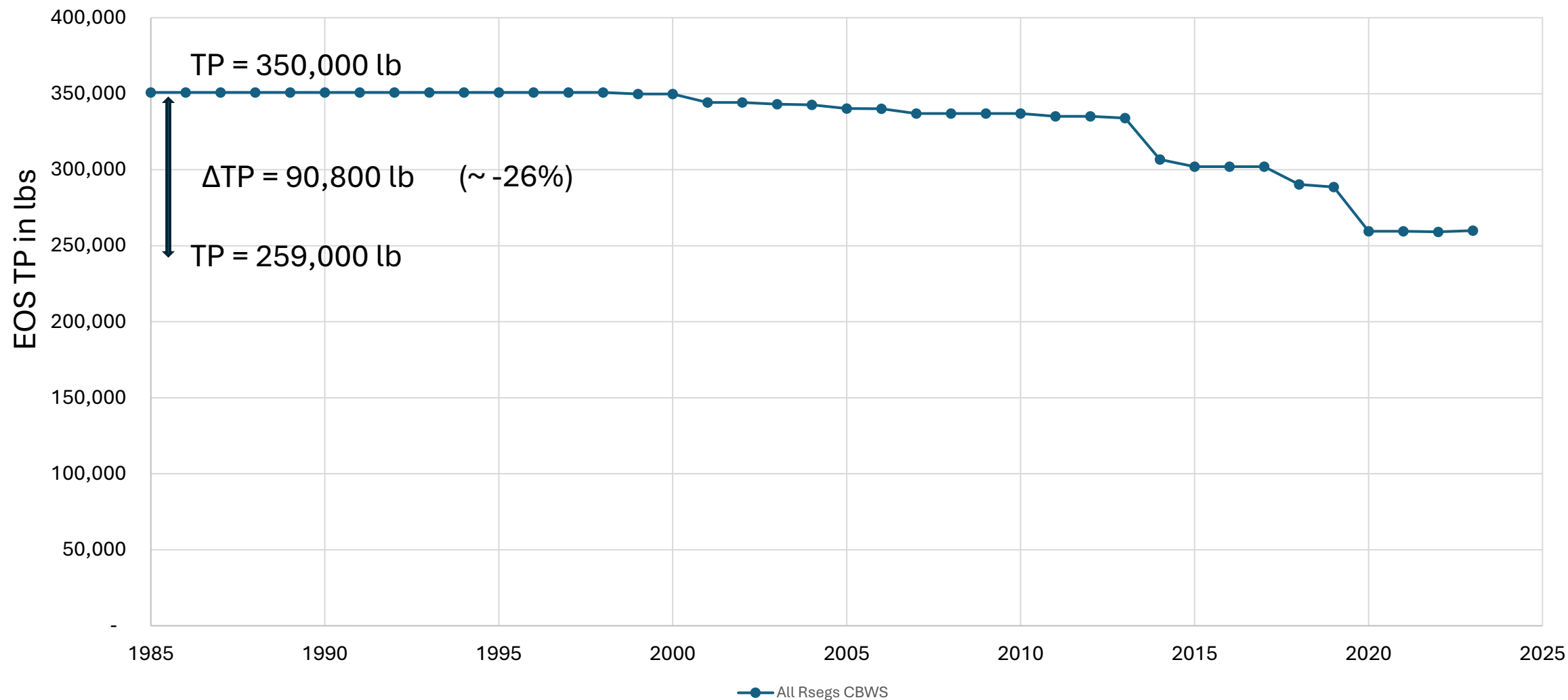
NPDES	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
DC0021199	2,229	87,414	18,599	2,417,821	1.63% In 2011	72.4% In 2018
DE0020265	-	-	-	-	-	-
MD0020249	-	-	-	-	-	-
MD0021571	-	-	-	-	-	-
MD0021598	111	5,435	404	78,598	-	-
MD0021601	-	-	-	-	-	-
MD0021636	25	1,697	212	27,584	100% In 2014	-
MD0022764	-	-	-	-	-	-
MD0067384	3	223	28	3,621	-	-
MD0067407	5	317	40	5,159	-	-
MD0067423	3	191	24	3,109	-	-
MD0067547	157	10,480	1,310	170,303	-	-
NY0023981	979	65,342	8,168	1,061,810	-	100% In 2020
NY0024406	617	41,160	5,145	668,852	-	91.5% In 2020
NY0035742	1,581	105,513	13,189	1,714,581	-	88% In 2020
PA0020940	-	-	-	-	-	-
PA0021237	86	5,747	718	93,391	60% In 2020	-
PA0021539	-	-	-	-	-	-
PA0021571	121	8,095	1,012	131,539	100% In 2019	-
PA0021687	88	5,873	734	95,440	-	-
PA0021814	85	5,644	705	91,714	85% In 2014	-
PA0022209	101	6,770	846	110,017	-	-
PA0023248	383	25,539	3,192	415,001	100% In 2019	-
PA0023558	50	3,340	417	54,271	-	-
PA0023736	198	13,209	1,651	214,649	-	-
PA0024341	-	-	-	-	-	-
PA0024406	81	5,410	676	87,918	100% In 2013	-
PA0026107	2,980	198,924	79,048	3,569,449	-	-
PA0026191	321	21,452	2,681	348,593	-	-
PA0026310	216	14,434	1,804	234,560	-	-
PA0026361	2,380	101,677	12,489	1,914,405	-	-
PA0026492	1,291	86,149	10,769	1,399,918	-	-
PA0026557	244	16,309	2,039	265,016	-	-
PA0026743	530	35,360	4,420	574,595	-	-
PA0026921	1,425	95,132	11,892	1,545,897	-	-
PA0027014	845	56,424	7,053	916,893	-	-
PA0027022	1,353	90,298	11,287	1,467,337	-	-
PA0027049	1,130	75,413	9,427	1,225,462	100% In 2014	-
PA0027057	2,049	136,800	17,100	2,223,006	100% In 2014	-
PA0027065	618	41,257	5,157	670,434	-	-
PA0027081	157	10,465	1,308	170,062	-	-
PA0027090	1,865	124,489	15,561	2,022,943	-	-
PA0027197	3,244	216,538	27,067	3,518,738	-	-
PA0027324	284	18,951	2,369	307,959	-	-
PA0028631	60	4,014	502	65,221	-	-
PA0028673	50	3,354	419	54,499	100% In 2022	-
PA0036820	-	-	-	-	-	-
PA0037711	186	12,429	1,554	201,966	100% In 2011	-
PA0038920	49	3,286	411	53,397	100% In 2013	-
PA0043273	36	2,380	297	38,671	-	-
PA0046159	-	-	-	-	-	-
PA0070041	24	1,603	200	26,049	-	320% In 2003
PA0070386	136	9,105	1,138	147,959	-	-
PAG062202	597	39,881	4,985	648,072	-	-
PAG063501	741	49,433	6,179	803,284	-	-
VA0024970	1,315	87,766	10,971	1,426,197	-	-
VA0025542	-	-	-	-	-	-
VA0063177	3,113	207,786	25,973	3,376,518	-	-
VA0087068	117	5,735	761	68,759	-	-
WV0020150	37	2,496	312	40,567	-	85% In 2020
WV0021792	-	-	-	-	-	-
WV0023167	614	40,998	5,125	666,222	-	85% In 2015
WV0024392	119	7,949	994	129,170	-	85% In 2020
WV0105279	121	8,082	1,010	131,338	-	-

NPDES	Name	River	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
DC0021199	Washington, District of Columbia	Potomac	2,229	87,414	18,599	2,417,821	1.63% in 2011	72.4% in 2018
DE0020265	Seaford Waste Treatment Plant	Eastern Shore	35	2,318	290	37,662	100% in 2001	-
MD0020249	Federalsburg WWTP	Eastern Shore	13	900	112	14,617	100% in 2003	-
MD0021571	City of Salisbury WWTP	Eastern Shore	0	16	2	265	100% in 2006	-
MD0021598	Cumberland WWTP	Potomac	111	5,435	404	78,598	-	-
MD0021601	Patapsco WWTP	Patapsco	151	10,100	1,263	164,128	100% in 2007	-
MD0021636	Cambridge WWTP	Eastern Shore	25	1,697	212	27,584	100% in 2014	-
MD0022764	Snow Hill W & S Dept.	Eastern Shore	26	1,711	214	27,808	100% in 2006	-
MD0067384	Westport CSO	Potomac	3	223	28	3,621	-	-
MD0067407	Allegany County CSO	Potomac	5	317	40	5,159	-	-
MD0067423	Frostburg CSO	Potomac	3	191	24	3,109	-	-
MD0067547	Lavale Sanitary Commission CSO	Potomac	157	10,480	1,310	170,303	-	-
NY0023981	Johnson City (V) Overflows	Susquehanna	979	65,342	8,168	1,061,810	-	100% in 2020
NY0024406	Binghamton (C) CSO	Susquehanna	617	41,160	5,145	668,852	-	91.5% in 2020
NY0035742	Chemung Co Elmira SD STP	Susquehanna	1,581	105,513	13,189	1,714,581	-	88% in 2020
PA0020940	Tunkhannock Boro Mun. Auth.	Susquehanna	41	2,736	342	44,465	100% in 2004	-
PA0021237	Newport Boro STP	Susquehanna	86	5,747	718	93,391	60% in 2020	-
PA0021539	Williamsburg Municipal Auth.	Susquehanna	28	1,836	229	29,832	100% in 2007	-
PA0021571	Marysville Borough WWTP	Susquehanna	121	8,095	1,012	131,539	100% in 2019	-
PA0021687	Wellsboro WWTP	Susquehanna	88	5,873	734	95,440	-	-
PA0021814	Mansfield Boro WWTP	Susquehanna	85	5,644	705	91,714	85% in 2014	-
PA0022209	Bedford WWTP	Susquehanna	101	6,770	846	110,017	-	-
PA0023248	Benwick Area Joint Sewer Auth. WWTP	Susquehanna	383	25,539	3,192	415,001	100% in 2019	-
PA0023558	Ashland WWTP	Susquehanna	50	3,340	417	54,271	-	-
PA0023736	Tri-Boro Municipal Authority WWTP	Susquehanna	198	13,209	1,651	214,649	-	-
PA0024341	Canton Boro Auth. WWTP	Susquehanna	293	19,535	2,442	317,436	100% in 2005	-
PA0024406	Mount Carmel WWTF	Susquehanna	81	5,410	676	87,918	100% in 2013	-
PA0026107	Wyoming Valley Sanitary Authority WWTP	Susquehanna	2,980	198,924	79,048	3,569,449	-	-
PA0026191	Huntingdon Borough WWTF	Susquehanna	321	21,452	2,681	348,593	-	-
PA0026310	Clearfield Mun. Auth. WWTP	Susquehanna	216	14,434	1,804	234,560	-	-
PA0026361	Lower Lackawanna Valley San. Auth. WWTP	Susquehanna	2,380	101,677	12,489	1,914,405	-	-
PA0026492	Scranton Sewer Authority WWTP	Susquehanna	1,291	86,149	10,769	1,399,918	-	-
PA0026557	Sunbury City Mun. Auth. WWTP	Susquehanna	244	16,309	2,039	265,016	-	-
PA0026743	Lancaster City WWTP	Susquehanna	530	35,360	4,420	574,595	-	-
PA0026921	Greater Hazelton Joint Sewer Authority WWTP	Susquehanna	1,425	95,132	11,892	1,545,897	-	-
PA0027014	Altoona City Auth. - Easterly WWTP	Susquehanna	845	56,424	7,053	916,893	-	-
PA0027022	Altoona City Auth. - Westerly WWTF	Susquehanna	1,353	90,298	11,287	1,467,337	-	-
PA0027049	Williamsport Sanitary Authority - West Plant	Susquehanna	1,130	75,413	9,427	1,225,462	100% in 2014	-
PA0027057	Williamsport Sanitary Authority - Central Plant	Susquehanna	2,049	136,800	17,100	2,223,006	100% in 2014	-
PA0027065	LRBSA - Archbald WWTP	Susquehanna	618	41,257	5,157	670,434	-	-
PA0027081	LRBSA - Clinton WWTP	Susquehanna	157	10,465	1,308	170,062	-	-
PA0027090	LRBSA - Throop WWTP	Susquehanna	1,865	124,489	15,561	2,022,943	-	-
PA0027197	Harrisburg Advanced WWTF	Susquehanna	3,244	216,538	27,067	3,518,738	-	-
PA0027324	Shamokin Coal Twp Joint Sewer Auth.	Susquehanna	284	18,951	2,369	307,959	-	-
PA0028631	Mid-Cameron Authority	Susquehanna	60	4,014	502	65,221	-	-
PA0028673	Gallitzin Borough Sew and Disp. Auth.	Susquehanna	50	3,354	419	54,499	100% in 2022	-
PA0036820	Galettton Borough Authority WWTP	Susquehanna	193	12,877	1,610	209,247	100% in 2007	-
PA0037711	Everett Area WWTP	Susquehanna	186	12,429	1,554	201,966	100% in 2011	-
PA0038920	Burnham Borough Authority WWTP	Susquehanna	49	3,286	411	53,397	100% in 2013	-
PA0043273	Holidaysburg STP	Susquehanna	36	2,380	297	38,671	-	-
PA0046159	Houtzdale Boro Municipal Sewer Authority	Susquehanna	638	42,560	5,320	691,595	100% in 2001	-
PA0070041	Mahanoy City Sewer Auth. WTP	Susquehanna	101	6,738	842	109,486	-	76.2% in 2003
PA0070386	Shenandoah Mun. Sewer Auth. WWTP	Susquehanna	136	9,105	1,138	147,959	-	-
PAG062202	Lackawanna River Basin Sewer Auth.	Susquehanna	597	39,881	4,985	648,072	-	-
PAG063501	Steelton Boro Authority	Susquehanna	741	49,433	6,179	803,284	-	-
VA0024970	Lynchburg	James	1,315	87,766	10,971	1,426,197	-	-
VA0025542	Covington Sewage Treatment Plant	James	125	8,318	1,040	135,175	100% in 1999	-
VA0063177	Richmond	James	3,113	207,786	25,973	3,376,518	-	-
VA0087068	Alexandria	Potomac	117	5,735	761	68,759	-	-
WV0020150	City of Moorefield	Potomac	37	2,496	312	40,567	-	85% in 2020
WV0021792	City of Petersburg	Potomac	48	3,226	403	52,427	100% in 2003	-
WV0023167	City of Martinsburg	Potomac	614	40,998	5,125	666,222	-	85% in 2015
WV0024392	City of Keyser	Potomac	119	7,949	994	129,170	-	85% in 2020
WV0105279	City of Piedmont	Potomac	121	8,082	1,010	131,338	-	-

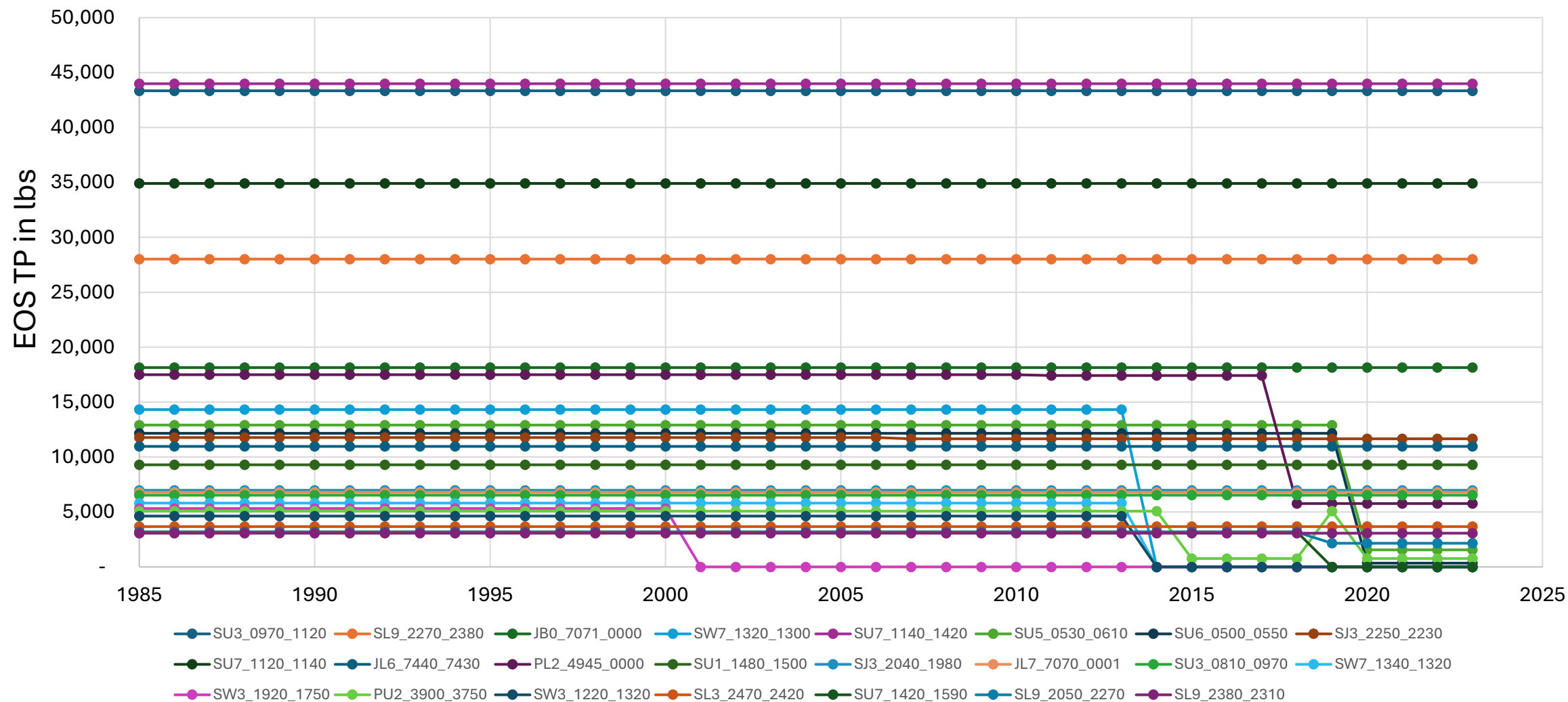




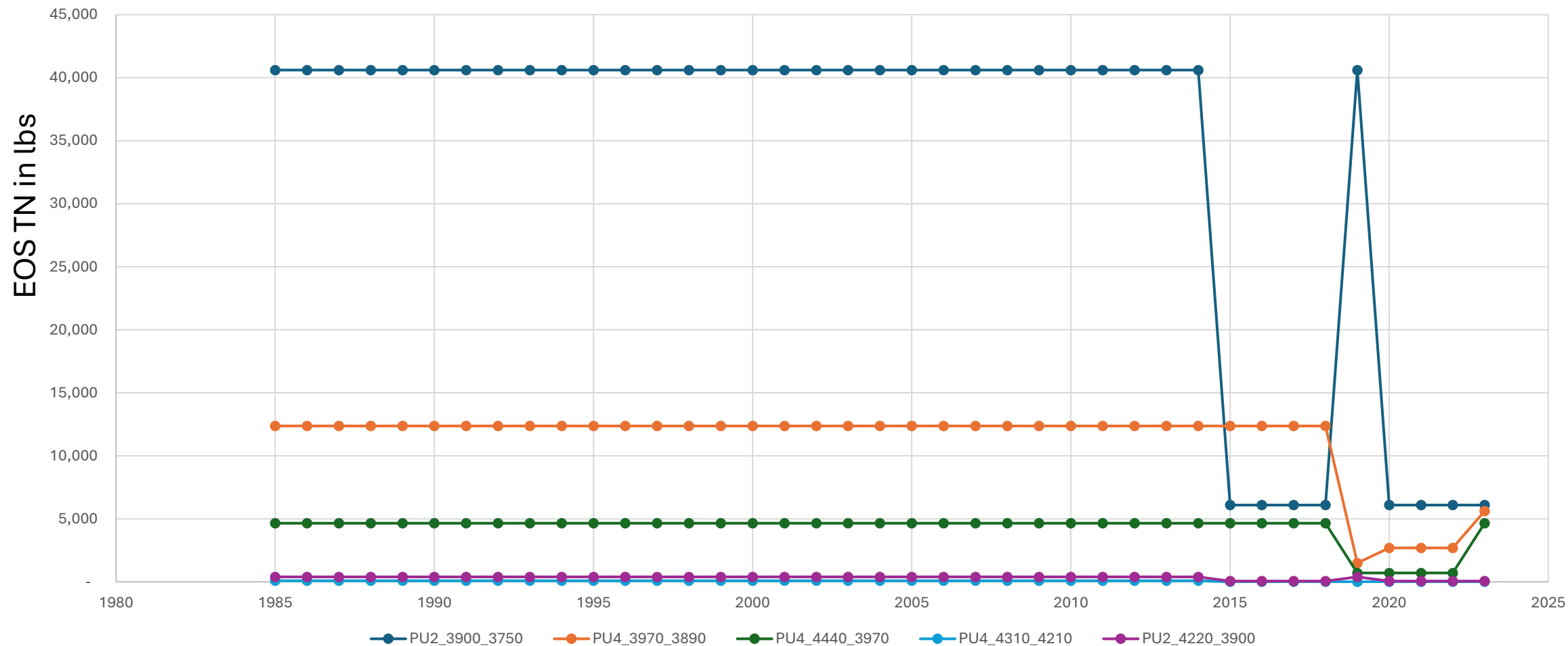
CSO EOS TP Load under 1991-2000 Average Hydrology



CSO EOS TP Load under 1991-2000 Average Hydrology



Example of a few NPDES where there may be minor issues in the annual progress data and can be fixed in Phase 7



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