Phase 6 CSO Loads

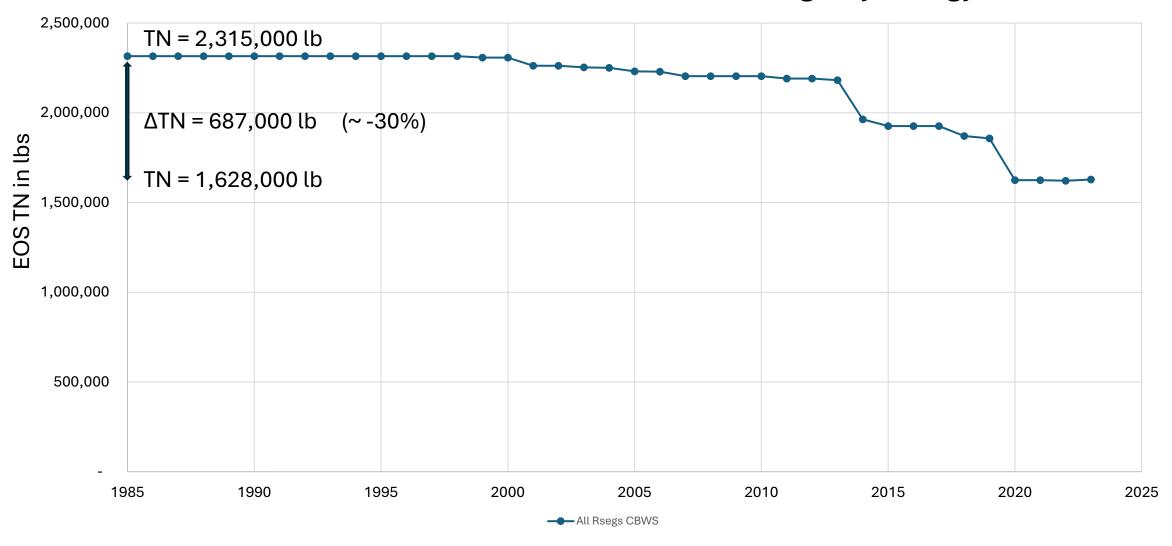
CSO Small Group

CSO Loads in Phase 6

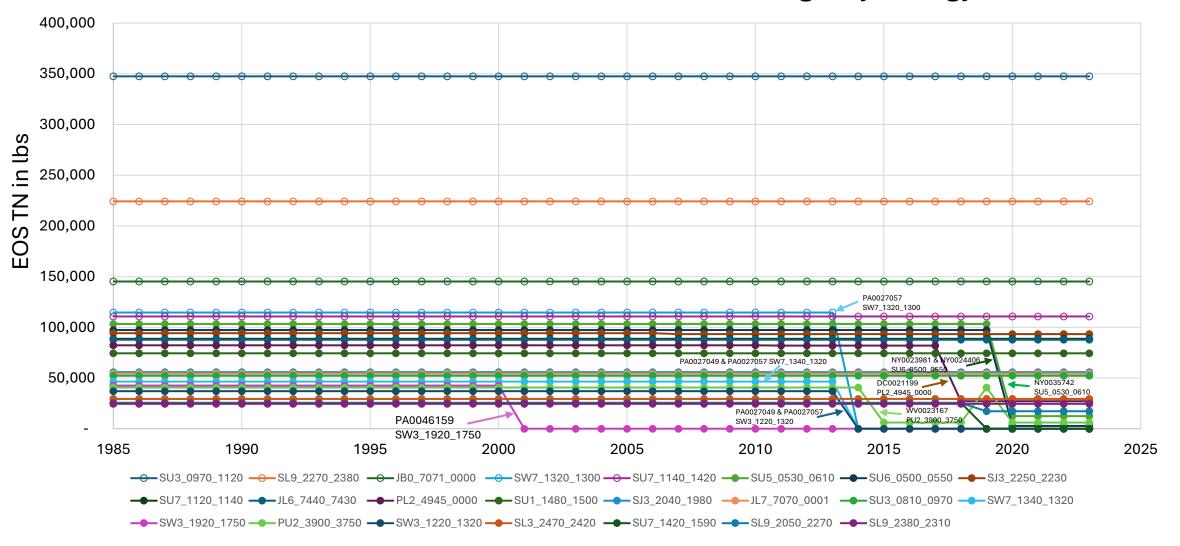
- A total of 64 NPDES
- 130 pairs of NPDES and land river segments (99 lrsegs)
- 114 pairs of NPDES and river segments (85 rsegs)

- 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

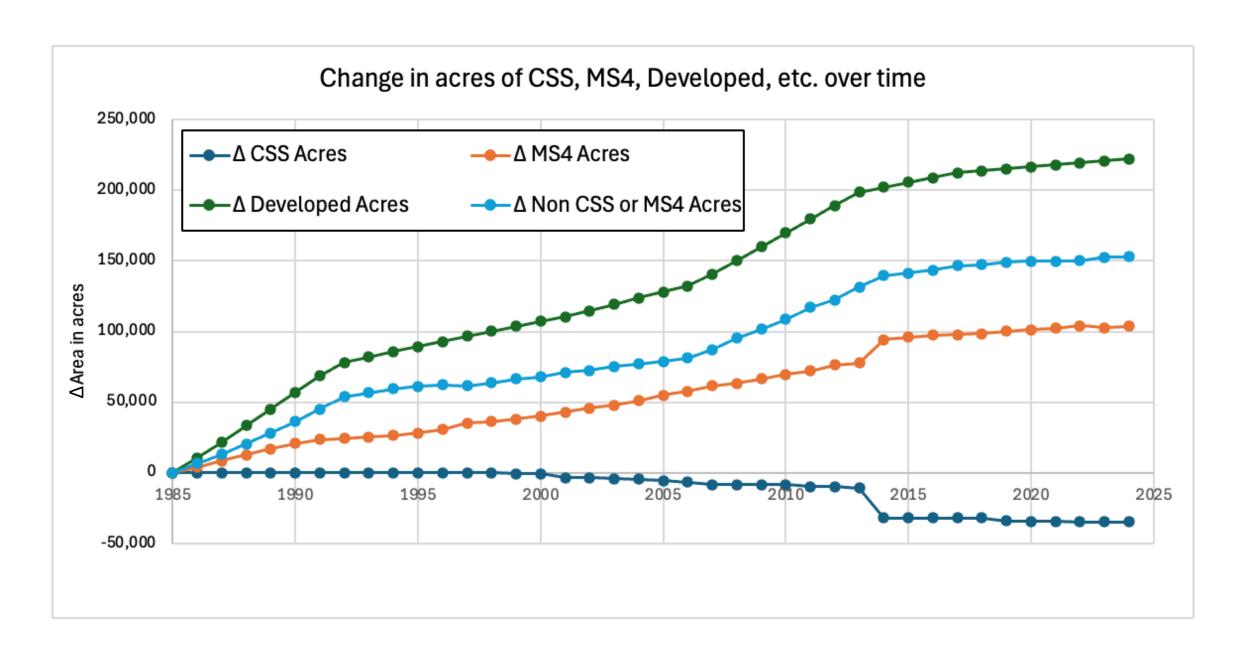
July 30, 2025

[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.



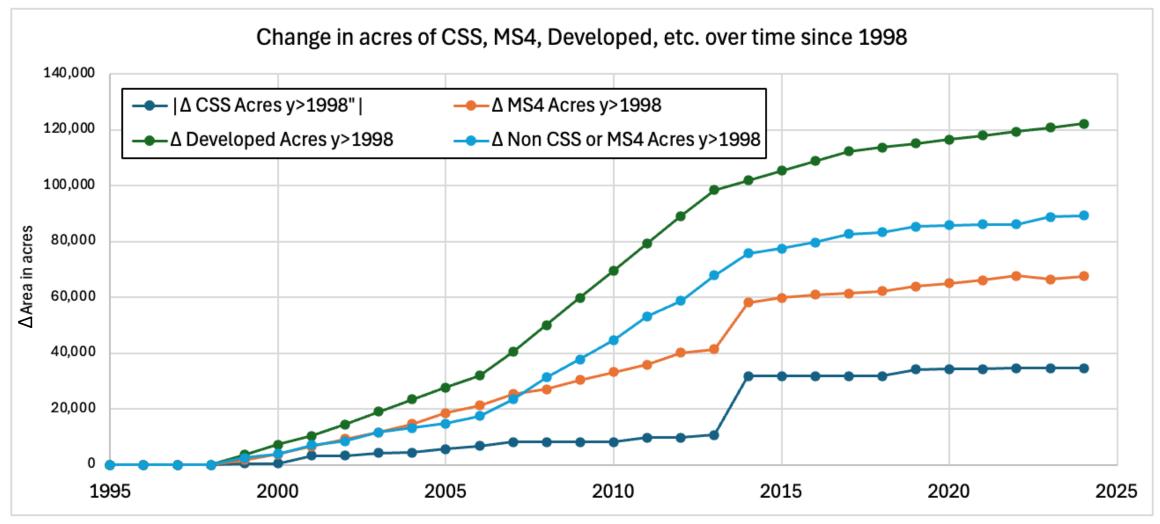
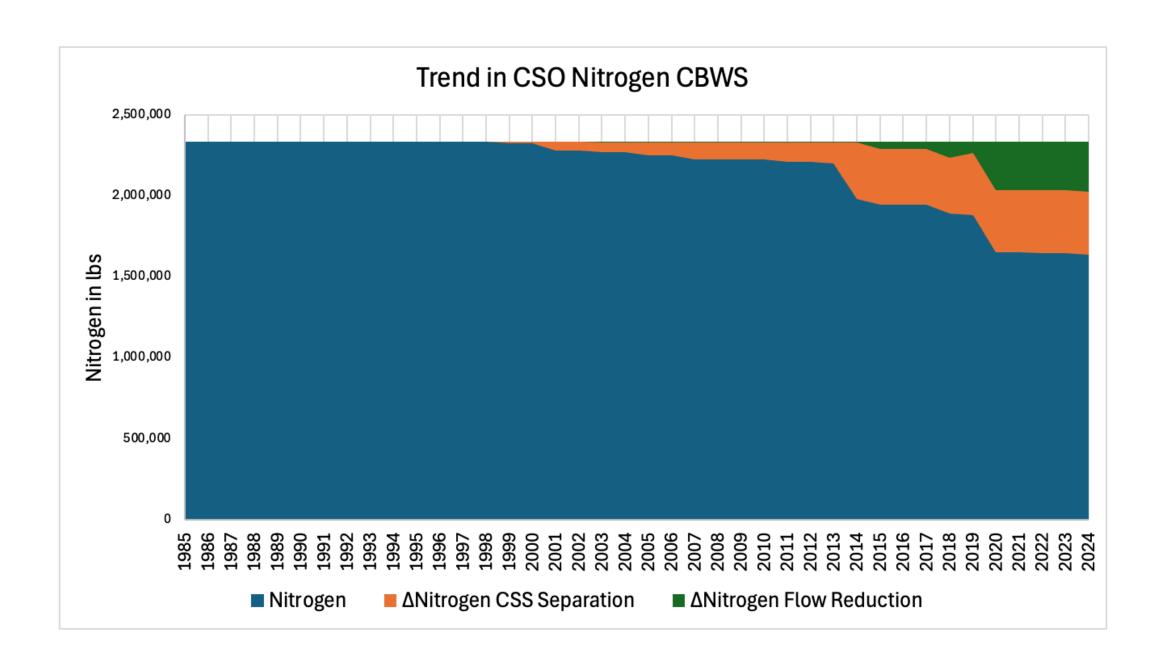
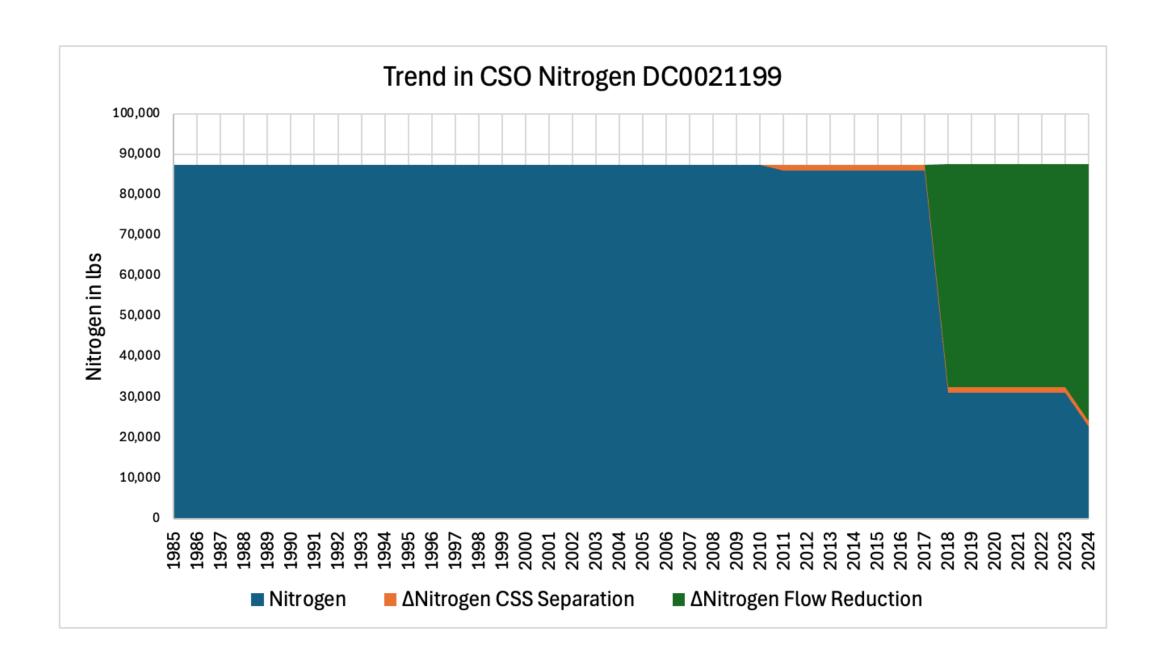


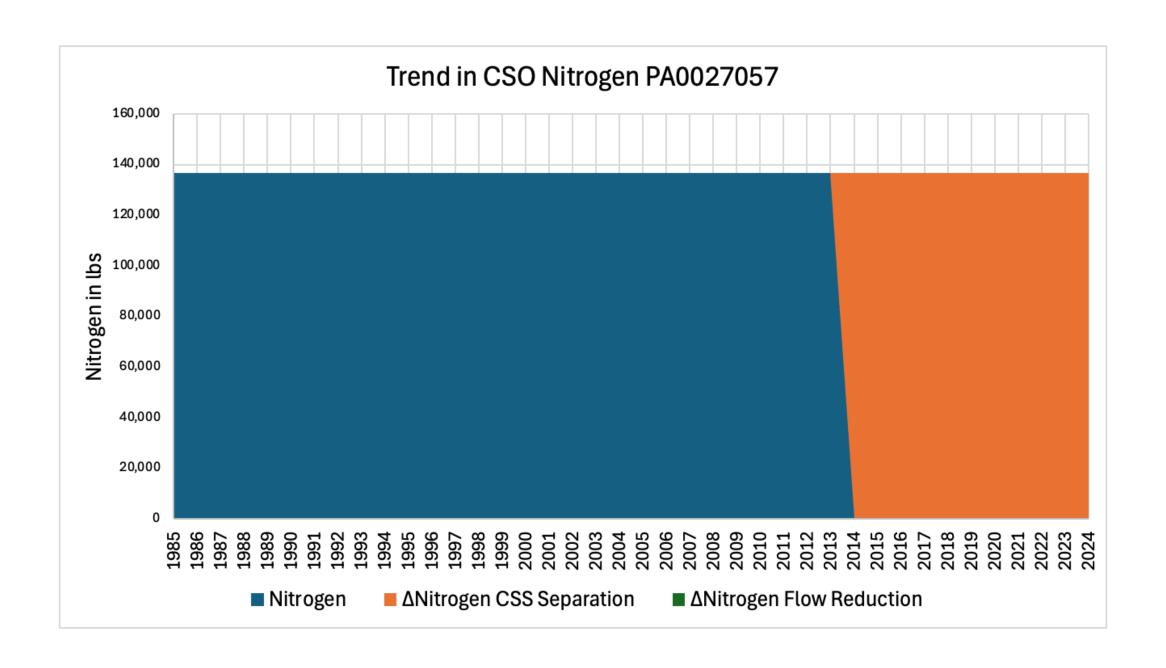
Figure shows Δ MS4 Acres > | Δ CSS Acres |

[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.







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
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	35	2,318	290	37,662	-	-	-	-	100% in 2001	-
MD0020249	13	900	112	14,617	-	-	-	-	100% in 2003	-
MD0021571	0	16	2	265	-	-	-	-	100% in 2006	-
MD0021598	111	5,435	404	78,598	111	5,435	404	78,598	-	-
MD0021601	151	10,100	1,263	164,128	-	-	-	-	100% in 2007	-
MD0021636	25	1,697	212	27,584	-	-	-	-	100% in 2014	-
MD0022764	26	1,711	214	27,808	-	-	-	-	100% in 2006	-
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	41	2,736	342	44,465	-	-	-	-	100% in 2004	-
PA0021237	86	5,747	718	93,391	34	2,299	287	37,357	60% in 2020	-
PA0021539	28	1,836	229	29,832	-	-	-	-	100% in 2007	
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	293	19,535	2,442	317,436	-	-	-	-	100% in 2005	
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	193	12,877	1,610	209,247		-		-	100% in 2007	-
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	638	42,560	5,320	691,595		-	-	-	100% in 2001	-
PA0070041	101	6,738	842	109,486	24	1,603	200	26,049		76.2% 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	125	8,318	1,040	135,175					100% in 1999	
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	48	3,226	403	52,427		-	-		100% in 2003	-
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 #1b: 1995 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
DE00201199	35	2,318	290	37.662	100% in 2001	72.4701112010
MD0020249			112	,	100% in 2003	-
	13	900	2	14,617	100% in 2006	-
MD0021571		16		265	100% 1 2006	- :
MD0021598	111	5,435	404	78,598		-
MD0021601	151	10,100	1,263	164,128	100% in 2007	-
MD0021636	25	1,697	212	27,584	100% in 2014	
MD0022764	26	1,711	214	27,808	100% in 2006	-
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	41	2,736	342	44,465	100% in 2004	-
PA0021237	86	5,747	718	93,391	60% in 2020	-
PA0021539	28	1,836	229	29,832	100% in 2007	
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	293	19,535	2,442	317,436	100% in 2005	
PA0024406	81	5,410	676	87,918	100% in 2013	
PA0024400	2,980	198,924	79,048	3,569,449	100701112013	
PA0026191	321	21,452	2,681	348,593	- :	-
PA0026310	216	14,434	1,804	234,560		
						- :
PA0026361	2,380	101,677 86.149	12,489	1,914,405		-
PA0026492	1,291 244	,	10,769	1,399,918		-
PA0026557		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	193	12,877	1,610	209,247	100% in 2007	
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	638	42,560	5,320	691,595	100% in 2001	
PA0070041	101	6,738	842	109,486		76.2% 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	125	8,318	1,040	135.175	100% in 1999	
VA0023342	3,113	207,786	25,973	3,376,518	-	
VA0083177	117	5,735	761	68,759		
	37					95% in 2020
WV0020150	48	2,496	312	40,567	100% in 2003	85% in 2020
WV0021792		3,226	403	52,427	100% IN 2003	95% in 2017
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		

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

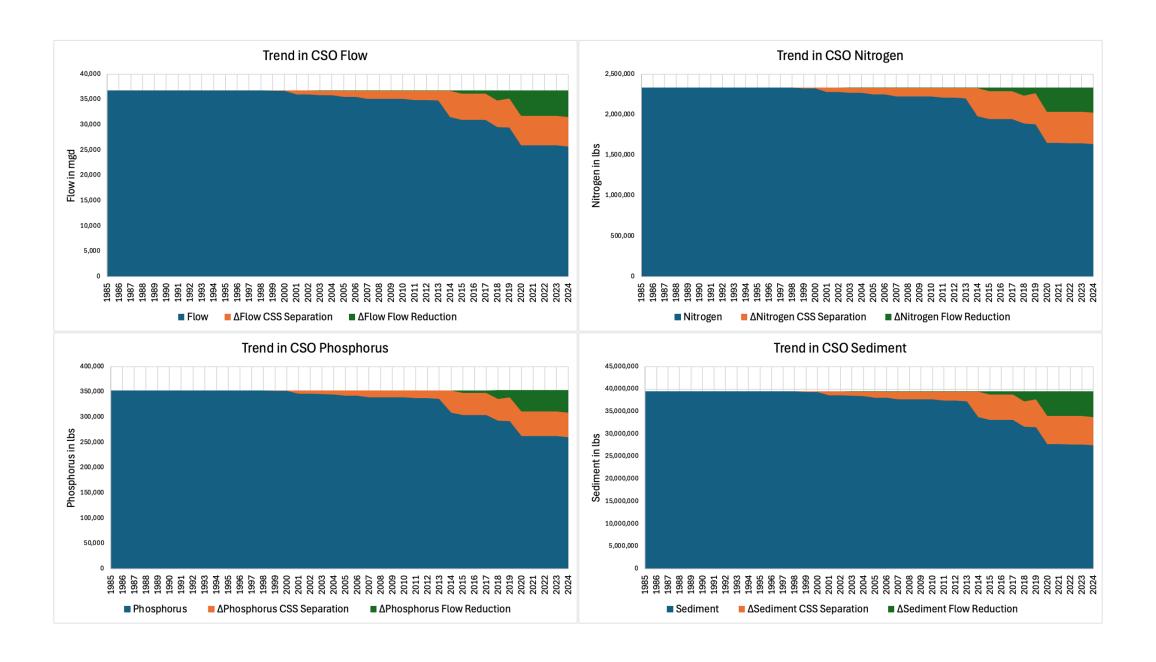
Option #2a: 2010 loads, 2024 loads, type of treatment

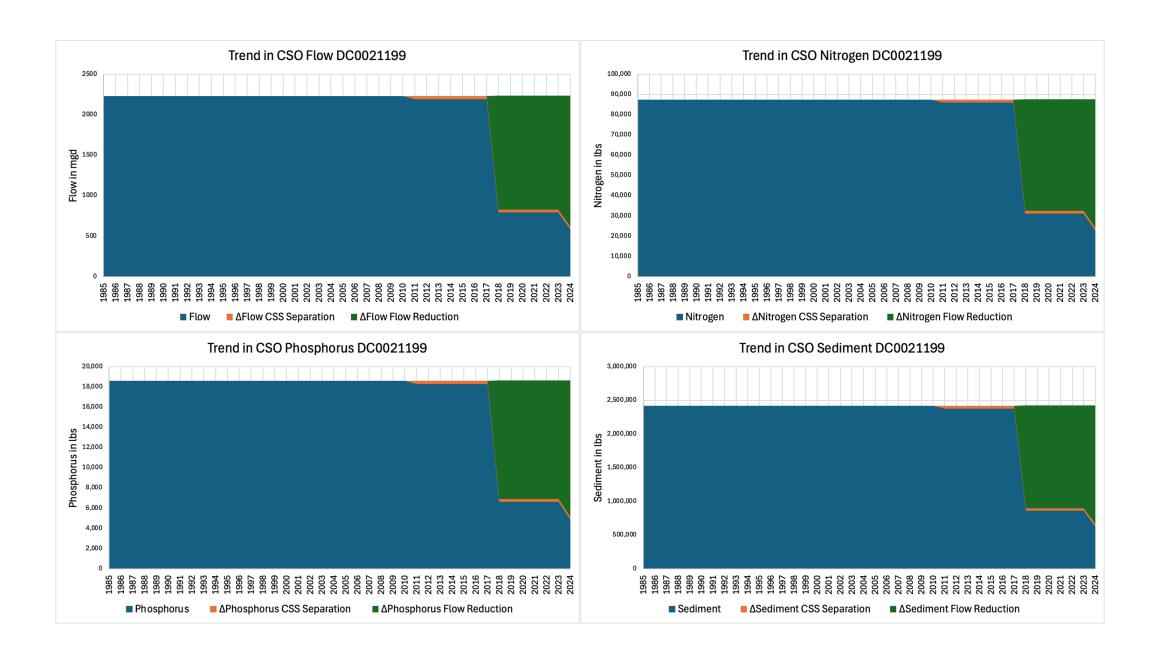
NPDES	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
DC0021199	2,229	87,414	18,599	2,417,821	584	22,901	4,873	633,438	1.63% in 2011	72.4% in 2018
DE0020265	-	-	-			-	-	-		-
MD0020249		-		-		-	-	-		-
MD0021571	-	-	-		-	-	-	-		-
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		2,007		27,004					100701112014	
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		
MD0067423	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	1,510	531	-	100% in 2020
NY0023961	617	41,160	5,145		52	3,482	435			91.5% in 2020
				668,852	190			56,585	- :	
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		-		-	-		-	-	4004//	
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		
PA0027030	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		
PA0027324 PA0028631	60	4,014	502	65,221	60	4,014	502	65,221		
PA0028673	50	3,354	419	54,499		4,014	502	05,221	100% in 2022	
PA0028673	50	3,354	419	54,499	-			-	10070 111 2022	
	100	12 420	1 554	201 000			-	-	100% in 2011	
PA0037711	186	12,429	1,554	201,966	-				100% in 2011	
PA0038920	49	3,286	411	53,397				20.674	100% in 2013	
PA0043273	36	2,380	297	38,671	36	2,380	297	38,671		
PA0046159	-	4.000	-			4 600	-			0000//
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

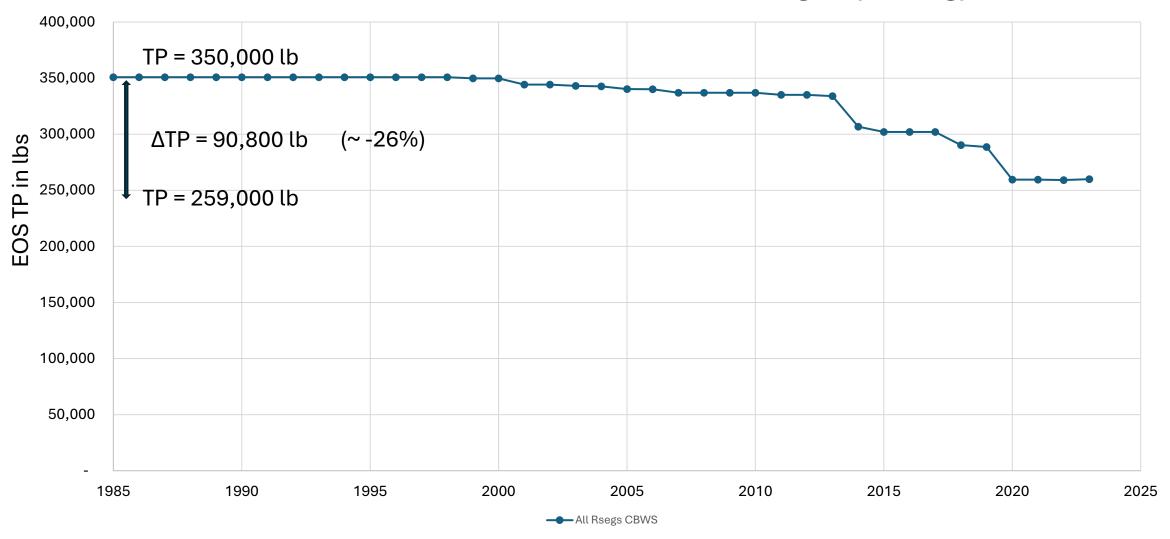
NPDES	Flow (mgd)	Nitrogen (lbs)	Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
DC0021199	2,229	87,414	18,599	2,417,821	1.63% in 2011	72.4% in 2018
DE0020265	2,225	07,414	10,555	2,417,021	1.00 /0 1 2011	72.4701112010
MD0020249	-	-		-		-
	-	-			-	-
MD0021571	-	F 425	404	70.500	- :	- :
MD0021598	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	130	15,205	1,001	214,045	- :	
PA0024406	81	5,410	676	87,918	100% in 2013	
PA0024406	2,980	198,924	79,048	3,569,449	100%1112013	-
					- :	-
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		320701112003
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	· ·	<u> </u>
VA0025542				0.070.510		
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 WV0105279	119	7,949	994	129,170		85% in 2020
	121	8,082	1,010	131,338		1

Potomac 2.229		I							
Decomposition Company	NPDES	Name	River	Flow (mgd)		Phosphorus (lbs)	Sediment (lbs)	Separation	Flow Control
Mod0021571 City of Sabbury WWTP		5 /					, ,		72.4% in 2018
MOD021591 City of Salabupy WWTP									
Modicage Modified Marker Potomac 111 5.435 404 78,989									
MODIZIAD Pampisco WWTP								100% in 2006	
Modurage WWTP								4000/ - 0007	
MODO2745 Membranock Son Eastern Shore 26 1,711 214 27,808 100+in 2006			_						-
ModosParda Metemport CSO									-
MODOSPTAZI FORDING SOS								100% in 2006	
Nonoring Footburg CSD		-							
NOD223981 Johnson City (1) Overflows Susquehanna 979 65.342 8.186 1.061.610 - 100% n 2020 N 200935742 Chemung Co Elimis SO SIP Susquehanna 1617 4.1100 5.145 668.522 - 91.51% in 2020 N 200935742 Chemung Co Elimis SO SIP Susquehanna 1.611 165.513 15.189 8.714.581 - 88% n 2020									
NYOUZEAND Binghamton (C) CSO									100% = 2000
NR0935742 Chemung Co Elimias D STP								-	
PAR0021937 Newport Born STP Susquehanna 41 2,736 342 44,465 1009 hr 2004 -								-	
APO201539 Milleraburg Municipal Authn. Susquehanna 28 1,836 229 29,832 100% no 2007								100% in 2004	
PARO21571 Maywille Brough WITP Susquehanna 228 1,836 229 29,832 100% n 2007 - PARO21571 Maywille Brough WITP Susquehanna 121 8,095 1,012 313,333 100% n 2019 - PARO21571 Maywille Brough WITP Susquehanna 85 5,644 705 91,714 85% n 2014 - PARO21281 Mansfeld Born WITP Susquehanna 101 6,770 846 110,017 PARO22362 Berkek Area Joint Swere Auth. WITP Susquehanna 101 6,770 846 110,017 PARO22363 Berkek Area Joint Swere Auth. WITP Susquehanna 50 3,340 417 54,271 - PARO22363 PARO4023534 PARO4023534 PARO4023534 PARO4023534 PARO4023545 PARO4023540									
PARO21517 Mayoville Brough WWTP									
PARO215181 Mansfeld Born WWTP									
PAROUZIAD Mansferid Born WWTP								- 10070 III 2019	
PARO022349 Bedfrort WMTP								85% in 2014	
PAR0023398 Ashinard WWTP			_					0070 m1 2014	-
PAR0023595 Ashtand WWTP			_					100% in 2019	
PAR0023736 Tri-Boro Municipal Authority WMTP Susquehanna 198 13,209 1,651 214,649								- 10070 III 2019	
PAROUZ2441 Canton Born Auth. WWIF			_					-	-
PA0026406 Mount Carmet WWTF Susquehanna 81 5,410 676 87,918 100% in 2013 - PA0026107 Wyoming Valley Sanitary Authority WWTP Susquehanna 2,980 199,924 79,048 3,569,449			_					100% in 2005	
PA0026307 Wyoming Valley Sanitary Authority WWTP Susquehanna 321 21,452 2,681 348,593			_						
PA0025919 Huntingdon Borough WWTF Susquehanna 321 21,452 2,681 348,593			_						
PAD025310 Clearfield Mun. Auth. WMTP Susquehanna 216 14,434 1,804 234,550 -			_						
PA0026361 Lower Lackawanna Valley San. Auth. WWTP Susquehanna 2,380 101,677 12,489 1,914,405 PA0026392 Scranton Sewer Authority WWTP Susquehanna 1,291 86,149 10,769 1,399,918 PA0026357 Subtuby City Mun. Auth. WWTP Susquehanna 244 16,309 2,039 265,016 PA0026743 Lancaster City WWTP Susquehanna 530 3,5360 4,220 574,595 PA0026925 Greater Hazelton Joint Sewer Authority WWTP Susquehanna 1,425 95,132 11,892 1,545,897 PA0027014 Altoona City Auth Easterly WWTP Susquehanna 1,425 95,132 11,892 1,545,897 PA0027014 Altoona City Auth Easterly WWTP Susquehanna 1,353 90,298 11,287 1,667,337 PA0027027 1,767,770 1,76			_			,			
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 PA0026821 Greater Hazelton Joint Sewer Authority WWTP Susquehanna 1,425 95,132 11,892 1,545,897 PA0027012 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 2,049 136,800 17,100 2,223,006 100% in 2014 PA0027055 LRSSA - Archbald WWTP Susquehanna 2,049 136,800 17,100 2,223,006 100% in 2014 PA0027065 LRSSA - Archbald WWTP Susquehanna 1,135 10,465 1,308 170,062 PA0027091 LRSSA - Clinton WWTP Susquehanna 1,166 11,405 1,308 170,062 PA0027091 LRSSA - Clinton WWTP Susquehanna 1,166 12,449 15,561 2,022,943 PA0027091 LRSSA - Throng WWTP Susquehanna 3,244 216,538 27,067 3,518,738 PA0027391 Harrisburg Advanced WWTF Susquehanna 3,244 216,538 27,067 3,518,738 PA0027324 Shamokin Coal Twp Joint Sewer Auth. Susquehanna 284 18,951 2,369 307,999 PA0026813 Mil-Cameron Authority Susquehanna 60 4,014 502 65,221 PA0026813 Mil-Cameron Authority Susquehanna 50 3,354 419 54,499 100% in 2012 - PA0036820 Galeton Borough Authority WWTP Susquehanna 193 12,677 1,610 209,247 100% in 2007 - PA0037711 Everet Area WWTP Susquehanna 49 3,286 411 53,397 100% in 2017 - PA0038713 Hollidaysburg STP Susquehanna 49 3,286 411 53,397 100% in 2011 - PA0046159 Houtzdale Boro Municipal Sewer Auth. WTP Susquehanna 61 1,49,433 6,179 803,284 PA0046159 Houtzdale Boro Municipal Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070368 Shenandoah Mun. Sewer Auth. WTP Susquehanna 63 42,560 5,320 691,595 100% in 2013 - PA0070371 Hollidaysburg STP Susquehanna 61 1,6738 842 109,486 - 76,2% in 2003 PA0070371 Hollidaysburg STP Susquehanna 61 1,6738 842 109,486 - 76,2% in 2003 PA0070371 Hollidaysburg STP Susquehanna 61 1,6738 842 109,486 - 76,2% in 2003 PA0070371 Hollidaysburg STP Susquehanna 61 1,6738 842 109,486 - 76,2% in 2003 PA00703		·	_						
PA0026921 Greater Hazelton Joint Sewer Authority WWTP Susquehanna 1,425 95,132 11,892 1,545,897			_						
PA0027014 Altoona City Auth Leasterly WWTP Susquehanna 1,353 90,298 11,287 1,467,337		-							
PA0027022 Altoona City Auth Westerly WWTF Susquehanna 1,353 90,298 11,287 1,252,462 100% in 2014 - PA0027059 Williamsport Sanitary Authority - West Plant Susquehanna 2,049 136,800 17,100 2,232,006 100% in 2014 - PA0027065 LRBSA - Archald WWTP Susquehanna 618 41,257 5,157 670,434 PA0027065 LRBSA - Clinton WWTP Susquehanna 1,865 124,489 15,561 2,022,943 PA0027091 LRBSA - Clinton WWTP Susquehanna 1,865 124,489 15,561 2,022,943 PA0027091 LRBSA - Throop WWTP Susquehanna 1,865 124,489 15,561 2,022,943 PA0027091 Harrisburg Advanced WWTF Susquehanna 2,844 216,538 27,067 3,518,738 PA0027324 Shamokin Coal Twp Joint Sewer Auth. Susquehanna 284 18,951 2,369 307,959 PA0028673 Gallitzin Borough Sew and Disp. Auth. Susquehanna 50 3,354 419 54,499 100% in 2022 - PA0036820 Galeton Borough Authority WWTP Susquehanna 50 3,354 419 54,499 100% in 2027 - PA0036820 Galeton Borough Authority WWTP Susquehanna 186 12,429 1,554 201,966 100% in 2011 - PA0033920 Burnham Borough Authority WWTP Susquehanna 186 12,429 1,554 201,966 100% in 2011 - PA0043273 Hollidaysburg STP Susquehanna 36 2,380 297 38,671 PA0043273 Hollidaysburg STP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. Susquehanna 638 42,560 5,320 691,595 100% in 2013 - PA0070365 Shenandoah Mun. Sewer Auth. Susquehanna 638 42,560 5,320 691,595 100% in 2			_						
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PA0038920 Burnham Borough Authority WWTP Susquehanna 49 3,286 411 53,397 100% in 2013 - PA0043273 Hollidaysburg STP Susquehanna 36 2,380 297 38,671 - - PA0046159 Houtzdale Boro Municipal Sewer Auth. WTP Susquehanna 638 42,560 5,320 691,595 100% in 2001 - PA0070041 Mahanoy Cfty 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 Steetton Boro Authority Susquehanna 741 49,433 6,179 803,284 - - - VA0024970 Lynchburg James 1,315 87,766 10,971 1,426,197 <td< td=""><td>PA0037711</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	PA0037711								
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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 - PA0062202 Lackawanna River Basin Sewer Auth. Susquehanna 597 39,881 4,985 648,072 - PA0062501 Steelton Boro Authority Susquehanna 741 49,433 6,179 803,284 - PA0062501 Steelton Boro Authority James 1,315 87,766 10,971 1,426,197 - PA0062502 Lynchburg James 1,315 87,766 10,971 1,426,197 - PA0062502	PA0046159		_		-,		,	100% in 2001	
PA0070386 Shenandoah Mun. Sewer Auth. WWTP Susquehanna 136 9,105 1,138 147,959	PA0070041								76.2% in 2003
PAG062202 Lackawanna River Basin Sewer Auth. Susquehanna 597 39,881 4,985 648,072 - - PAG063501 Steetton Boro Authority Susquehanna 741 49,433 6,179 803,284 - - VA0024970 Lynchburg James 1,315 87,766 10,971 1,426,197 - VA002542 Covington Sewage Treatment Plant James 125 8,318 1,040 135,175 100% in 1999 - VA0065177 Richmond James 3,113 207,786 25,973 3,376,518 - - VA0087068 Alexandria Potomac 117 5,735 761 68,759 - - WV00219792 City of Moorefield Potomac 37 2,496 312 40,567 - 85% in 2020 WV00219792 City of Petersburg Potomac 48 3,226 403 52,427 100% in 2003 - WV0023167 City of Meritinsburg Potomac 614	PA0070386			136		1,138			
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 - - - WV0021792 City of Moorefield Potomac 37 2,496 312 40,567 - 85% in 2020 WV0021792 City of Moorefield Potomac 48 3,226 403 52,427 100% in 2003 - WV0021792 City of Moorefield Potomac 614 40,998 5,125 666,222 - 85% in 2015 WV0024392 City of Keyser Potomac	PAG062202								
VA0024970 Lynchburg James 1,315 87,766 10,971 1,426,197	PAG063501			741	49,433				
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 VA0087088 Alexandria Potomac 117 5,735 761 68,759 VA0087088 Alexandria Potomac 37 2,496 312 40,567 - 85% in 2020 VA0020150 City of Morefield Potomac 48 3,226 403 52,427 100% in 2003 - VA0020167 City of Martinsburg Potomac 614 40,998 5,125 666,222 - 85% in 2015 VA0024392 City of Keyser Potomac 119 7,949 994 129,170 - 85% in 2020 VA0024392 VA0024392 City of Keyser Potomac 119 7,949 994 129,170 - 85% in 2020 VA0024392 VA00243	VA0024970								
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	VA0025542	, ,		125				100% in 1999	
VA0087068 Alexandria Potomac 117 5,735 761 68,759 - - WV002150 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	VA0063177								
AW0021792 City of Petersburg Potomac 48 3,226 403 52,427 100% in 2003 - AW0023167 City of Martinsburg Potomac 614 40,998 5,125 666,222 - 85% in 2015 AW0024392 City of Keyser Potomac 119 7,949 994 129,170 - 85% in 2020	VA0087068	Alexandria	Potomac						-
AW0021792 City of Petersburg Potomac 48 3,226 403 52,427 100% in 2003 - AW0023167 City of Martinsburg Potomac 614 40,998 5,125 666,222 - 85% in 2015 AW0024392 City of Keyser Potomac 119 7,949 994 129,170 - 85% in 2020	WV0020150	City of Moorefield	Potomac	37	2,496	312	40,567		85% in 2020
AVV0023167 City of Martinsburg Potomac 614 40,998 5,125 666,222 - 85% in 2015 AVV0024392 City of Keyser Potomac 119 7,949 994 129,170 - 85% in 2020	WV0021792			48	3,226	403	52,427	100% in 2003	
WV0024392 City of Keyser Potomac 119 7,949 994 129,170 - 85% in 2020	WV0023167			614		5,125			85% in 2015
WV0105279 City of Piedmont Potomac 121 8,082 1,010 131,338	WV0024392	City of Keyser	Potomac	119	7,949	994		-	85% in 2020
	WV0105279	City of Piedmont	Potomac	121	8,082	1,010	131,338	-	-

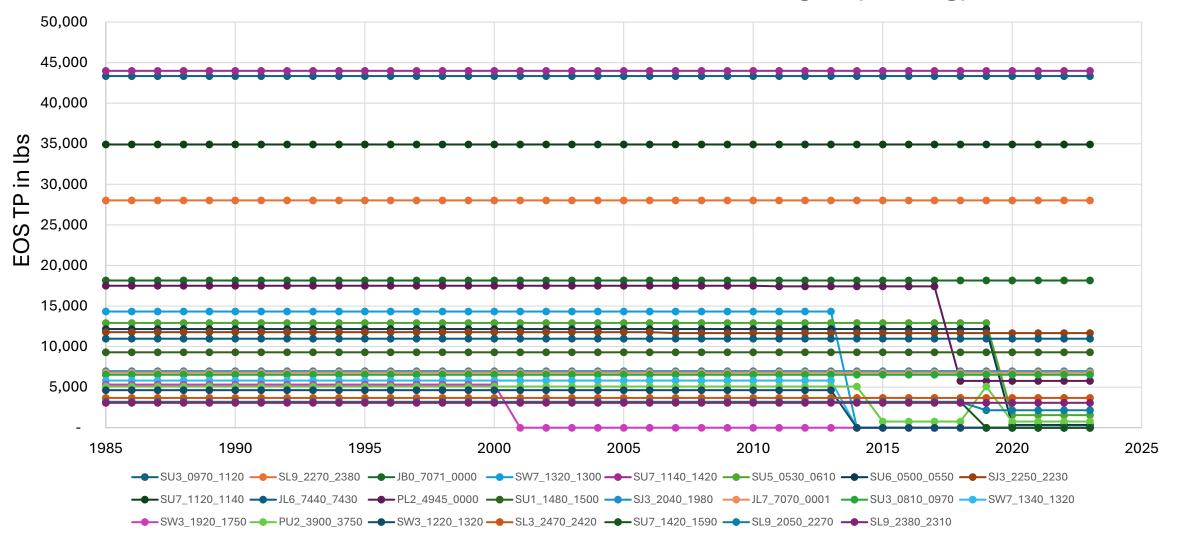




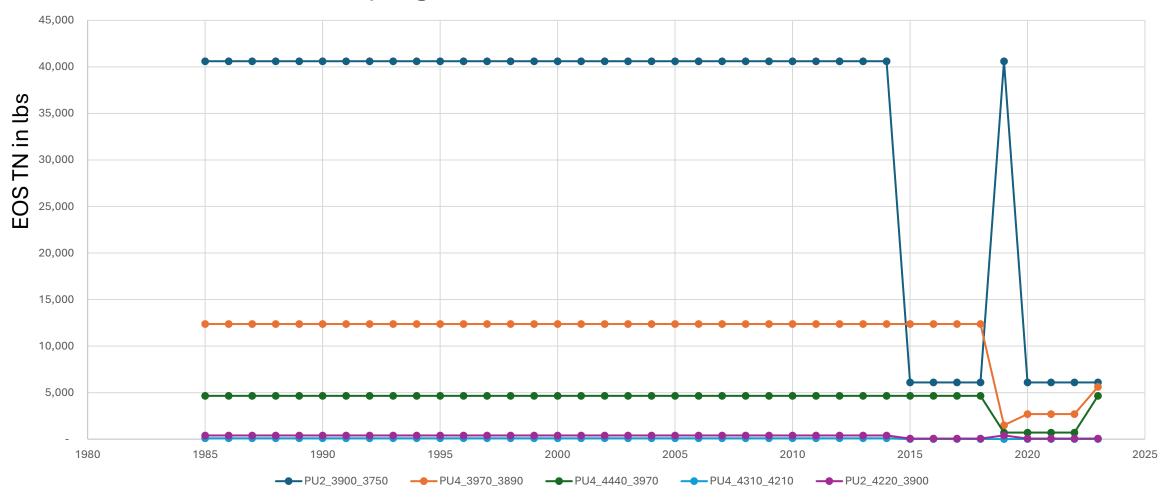
CSO EOS TP Load under 1991-2000 Average Hydrology



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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