

2024 Nutrient Load Analysis

§ 62.1-44.19:18.D. of the State Water Control Law requires that by April 1st of each year, the Virginia Department of Environmental Quality (DEQ) prepare a report containing the annual mass loads of Total Nitrogen and Total Phosphorus discharged by each permitted facility, the number of point source Nitrogen and Phosphorus credits generated or required by each facility in the previous calendar year, and to the extent there are insufficient point source credits available for exchange to provide for full compliance by every permittee, the number of credits to be purchased from the Nutrient Offset Fund.

Actual discharged and delivered loads are included for each discharger. The degree to which each discharge was over or under the wasteload allocation is listed in the next to last column of each spreadsheet. The bottom figure in that same column indicates the degree to which the basin as a whole was over or under the basin-wide delivered wasteload allocation. The final column reflects credits which are held by the Nutrient Offset Fund in accordance with Part I.J.2.e. of the watershed general permit.

Sufficient Nitrogen and Phosphorus credits are available in every basin. With adequate credits available from permitted facilities, no credits will be made available by the Nutrient Offset Fund. Permitted facilities must complete and report all trades to DEQ by June 1, 2025. DEQ will publish notice of all credit exchanges for the previous calendar year by July 1, 2025.

2024 Potomac Total Nitrogen Discharges

Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TN Wasteload Allocation (lbs/yr)	2024 TN Delivery Factor	2024 Delivered TN Wasteload Allocation (lbs/yr)	2024 Discharged TN (lbs)	2024 Delivered TN (lbs)	2024 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Stoney Creek Sanitary District STP	VA0028380	VAN010015	500	0.60	8,259	0.25	2,065	10,291	2,573	508	--
Town of Colonial Beach STP (Westmoreland County)	VA0026409	VAN010099	500	2.00	18,273	1.00	18,273	18,342	18,342	69	--
Fauquier Co Water & Sanitation Auth - Vint Hill WWTF	VA0020460	VAN010020	500	0.95	11,573	0.05	579	2,091	105	-474	--
VPGC LLC - Hinton	VA0002313	VAN010009	500	1.50	27,410	0.08	2,193	16,756	1,340	-853	--
Clarke County Sanitation Authority - Boyce STP	VA0085171	VAN010107	500	0.099	2,848	0.52	1,481	657	342	-1,139	--
Town of Mt. Jackson STP (Shenandoah County)	VA0026441	VAN010012	500	0.70	8,528	0.25	2,132	3,513	878	-1,254	--
Town of Strasburg STP (Shenandoah County)	VA0020311	VAN010102	500	2.00	11,939	0.34	4,059	6,663	2,265	-1,794	--
King George Co Service Auth-Potomac River Aggregate	--	VAN010060	500	--	--	--	12,060		9,650	-2,410	--
Dahlgren District WWTP	VA0026514		501	0.97	9,137	1.00		6,386			
Purkins Corner WWTP	VA0070106		502	0.12	1,096	1.00		2,320			
Fairview Beach STP	VA0092134		503	0.20	1,827	1.00		938			
Massanutten Public Service Corp. STP	VA0024732	VAN010039	500	1.50	18,273	0.22	4,020	6,214	1,367	-2,653	--
Town of Round Hill WWTP (Loudoun County)	VA0026212	VAN010093	500	0.75	9,137	0.46	4,203	3,033	1,395	-2,808	--
Town of Middleburg (Loudoun County)	VA0024775	VAN010120	500	0.25	7,973	0.46	3,668	1,407	647	-3,021	--
City of Waynesboro STP	VA0025151	VAN010098	500	4.00	48,729	0.08	3,898	9,740	779	-3,119	-3,991
Town of Broadway Regional WWTF (Rockingham Co)	VA0090263	VAN010062	500	2.92	29,481	0.12	3,538	3,462	415	-3,123	--
Town of Luray WWTP (Page County)	VA0062642	VAN010006	500	1.60	19,492	0.33	6,432	9,405	3,104	-3,328	--
Town of Berryville STP (Clarke County)	VA0020532	VAN010040	500	0.70	8,528	0.52	4,435	1,822	947	-3,488	--
US Naval Support Facility Dahlgren WWTF	VA0021067	VAN010041	500	0.72	6,578	1.00	6,578	2,542	2,542	-4,036	--
Town of Middletown STP (Frederick County)	VA0020982	VAN010121	500	0.40	14,238	0.34	4,841	2,162	735	-4,106	--
Town of Elkton STP	VA0026433	VAN010144	500	0.80	22,784	0.22	5,012	2,211	486	-4,526	--
Georges Chicken LLC	VA0077402	VAN010011	500	1.70	31,065	0.25	7,766	12,048	3,012	-4,754	--
Town of Woodstock STP (Shenandoah County)	VA0026468	VAN010094	500	2.00	24,364	0.25	6,091	4,194	1,049	-5,043	--
The LYCRA Company LLC - Waynesboro Plant	VA0002160	VAN010050	500	1.44	78,941	0.08	6,315	2,786	223	-6,092	--

2024 Potomac Total Nitrogen Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TN Wasteload Allocation (lbs/yr)	2024 TN Delivery Factor	2024 Delivered TN Wasteload Allocation (lbs/yr)	2024 Discharged TN (lbs)	2024 Delivered TN (lbs)	2024 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Augusta Co. Service Authority Aggregate	--	VAN010092	500	--	--	--	12,889		6,141	-6,748	--
Fishersville STP	VA0025291		501	4.00	48,729	0.06		11,857			
Stuarts Draft WWT	VA0066877		502	4.00	48,729	0.03		5,191			
Middle River Regional STP	VA0064793		503	6.80	82,839	0.06		22,680			
Weyers Cave STP	VA0022349		504	0.50	6,091	0.15		15,491			
Greenville STP	VA0090417		505	0.25	14,238	0.06		7,058			
Mt. Sidney STP	VA0022322		506	0.15	8,543	0.06		9,165			
Vesper View STP	VA0067962		507	0.10	5,695	0.11		4,959			
Harriston STP	VA0027901		508	0.10	5,695	0.11		641			
Purcellville-Basham Simms WWTF	VA0022802	VAN010016	500	1.50	18,273	0.46	8,406	1,194	549	-7,857	--
Merck Sharp & Dohme Corp. (Outfall 101)	VA0002178	VAN010007	500	1.20	43,835	0.22	9,644	6,604	1,453	-8,191	--
Town of Lovettsville (Loudoun County)	VA0023183	VAN010129	500	0.38	14,238	0.73	10,394	2,663	1,944	-8,450	--
Molson Coors Beverage Co USA LLC	VA0073245	VAN010096	500	4.50	54,820	0.22	12,060	15,930	3,505	-8,555	--
Harrisonburg-Rockingham RSA-North River WWTF	VA0060640	VAN010042	500	23.0	260,226	0.14	36,166	161,789	22,650	-13,516	--
Town of Front Royal STP (Warren County)	VA0062812	VAN010010	500	5.30	48,729	0.50	24,365	20,494	10,247	-14,118	--
US Marine Corps - Quantico Mainside WWTF	VA0028363	VAN010043	500	2.20	20,101	1.00	20,101	3,672	3,672	-16,429	--
Frederick-Winchester Service Authority Aggregate	--	VAN010057	500	--	--	--	38,380		16,243	-22,137	--
Opequon Water Reclamation Facility	VA0065552		501	12.60	121,851	0.21		60,967			
Parkins Mills WWTP	VA0075191		502	5.00	60,911	0.21		16,382			
Upper Occoquan Service Authority - Centreville	VA0024988	VAN010019	500	54.00	1,315,682	0.23	302,607	1,192,993	274,388	-28,219	--
Virginia American Water - Aggregate	--	VAN010058	500	--	--	--	84,058		42,712	-41,346	--
Prince William Wastewater District Section #1 Plant	VA0024724		501	4.60	42,029	1.00		21,468			
Prince William Wastewater District Section #8 Plant	VA0024678		502	4.60	42,029	1.00		21,244			
Stafford County - Aquia WWTP	VA0060968	VAN010023	500	10.00	73,093	1.00	73,093	27,291	27,291	-45,802	--
Loudoun Co Sanitation Authority - Broad Run WRF	VA0091383	VAN010017	500	11.00	134,005	0.82	109,884	66,508	54,537	-55,347	--
Town of Leesburg WPCF (Loudoun County)	VA0092282	VAN010061	500	10.00	119,717	0.64	76,619	21,307	13,636	-62,982	19,494
Prince William Co Service Auth - H.L. Mooney WWTF	VA0025101	VAN010018	500	24.00	219,259	1.00	219,259	100,601	100,601	-118,658	--
Arlington County WPCF	VA0025143	VAN010021	500	40.00	365,284	1.00	365,284	187,603	187,603	-177,681	--
Alexandria Renew Enterprises WWTP	VA0025160	VAN010059	500	54.00	493,381	1.00	493,381	234,674	234,674	-258,707	--
Fairfax County - Noman-Cole PCF	VA0025364	VAN010022	500	67.00	612,158	1.00	612,158	317,275	317,275	-294,883	--
Potomac River Basin Totals							2,618,387	2,686,684	1,371,319	-1,247,068	15,503

2024 Potomac Total Phosphorus Discharges

Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TP Wasteload Allocation (lbs/yr)	2024 TP Delivery Factor	2024 Delivered TP Wasteload Allocation (lbs/yr)	2024 Discharged TP (lbs)	2024 Delivered TP (lbs)	2024 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Merck Sharp & Dohme Corp. (Outfall 101)	VA0002178	VAN010007	500	1.20	4,384	0.47	2,060	11,348	5,334	3,274	--
Stoney Creek Sanitary District STP	VA0028380	VAN010015	500	0.60	667	0.47	313	1,341	630	317	--
Fauquier Co Water & Sanitation Auth - Vint Hill WWTF	VA0020460	VAN010020	500	0.95	868	0.17	148	193	33	-115	--
Town of Round Hill WWTP (Loudoun County)	VA0026212	VAN010093	500	0.75	685	0.47	322	363	199	-123	--
Clarke County Sanitation Authority - Boyce STP	VA0085171	VAN010107	500	0.099	381	0.47	179	27	13	-166	--
Town of Mt. Jackson STP (Shenandoah County)	VA0026441	VAN010012	500	0.70	640	0.47	301	130	61	-240	--
Town of Strasburg STP (Shenandoah County)	VA0020311	VAN010102	500	2.00	895	0.47	421	335	157	-264	--
Town of Berryville STP (Clarke County)	VA0020532	VAN010040	500	0.70	640	0.47	301	72	34	-267	--
US Naval Support Facility Dahlgren WWTF	VA0021067	VAN010041	500	0.72	658	1.00	658	321	321	-337	--
Town of Middleburg (Loudoun County)	VA0024775	VAN010120	500	0.25	1,066	0.47	501	285	134	-367	--
Town of Luray STP (Page County)	VA0062642	VAN010006	500	1.60	1,462	0.47	687	637	299	-388	--
The LYCRA Company LLC - Waynesboro Plant	VA0002160	VAN010050	500	1.44	1,009	0.47	474	47	22	-452	--
Purcellville-Basham Simms WWTF	VA0022802	VAN010016	500	1.50	1,371	0.47	644	392	184	-460	--
VPGC LLC - Hinton	VA0002313	VAN010009	500	1.50	1,371	0.47	644	357	168	-476	--
Massanutten Public Service Corp. STP	VA0024732	VAN010039	500	1.50	1,371	0.47	644	237	111	-533	--
Georges Chicken LLC	VA0077402	VAN010011	500	1.70	1,553	0.47	730	344	162	-568	--
Town of Lovettsville (Loudoun County)	VA0023183	VAN010129	500	0.375	1,903	0.47	894	507	238	-656	--
King George Co Service Auth-Potomac River Aggregate	--	VAN010060	500	--	--	--	1,207		498	-709	--
Dahlgren District WWTP	VA0026514		501	1.00	914	1.00		432			
Purkins Corner WWTP	VA0070106		502	0.12	110	1.00		25			
Fairview Beach STP	VA0092134		503	0.20	183	1.00		41			
Town of Middletown STP (Frederick County)	VA0020982	VAN010121	500	0.40	1,903	0.47	894	387	182	-712	--
Molson Coors Beverage Co USA LLC	VA0073245	VAN010096	500	4.50	4,112	0.47	1,933	2,424	1,139	-794	--
Town of Woodstock STP (Shenandoah County)	VA0026468	VAN010094	500	2.00	1,827	0.47	859	83	39	-820	--
Town of Front Royal STP (Warren County)	VA0062812	VAN010010	500	5.30	3,655	0.47	1,718	1,762	828	-890	--

2024 Potomac Total Phosphorus Discharges

Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TP Wasteload Allocation (lbs/yr)	2024 TP Delivery Factor	2024 Delivered TP Wasteload Allocation (lbs/yr)	2024 Discharged TP (lbs)	2024 Delivered TP (lbs)	2024 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Town of Broadway Regional WWTF (Rockingham Co)	VA0090263	VAN010062	500	2.92	2,211	0.47	1,039	260	122	-917	-
US Marine Corps - Quantico Mainside WWTF	VA0028363	VAN010043	500	2.20	1,206	1.00	1,206	154	154	-1,052	-
City of Waynesboro STP	VA0025151	VAN010098	500	6.00	3,655	0.47	1,718	1,218	572	-1,146	-
Loudoun Co Sanitation Authority - Broad Run WRF	VA0091383	VAN010017	500	11.00	3,350	0.47	1,575	842	396	-1,179	-
Town of Elkton STP	VA0026433	VAN010144	500	0.80	3,046	0.47	1,432	177	83	-1,349	-
Town of Colonial Beach STP (Westmoreland County)	VA0026409	VAN010099	500	2.00	1,827	1.00	1,827	415	415	-1,412	-
Stafford County - Aquia WWTP	VA0060968	VAN010023	500	10.00	4,386	1.00	4,386	1,290	1,290	-3,096	-
Town of Leesburg WPCF (Loudoun County)	VA0092282	VAN010061	500	10.00	8,411	0.47	3,953	1,718	807	-3,146	1,074
Upper Occoquan Service Authority - Centreville	VA0024988	VAN010019	500	54.00	16,446	0.31	5,098	5,538	1,717	-3,381	-
Virginia American Water - Aggregate	--	VAN010058	500	--	--	--	5,044		1,589	-3,455	-
Prince William Wastewater District Section #1 Plant	VA0024724		501	4.60	2,522	1.00		805			
Prince William Wastewater District Section #8 Plant	VA0024678		502	4.60	2,522	1.00		784			
Harrisonburg-Rockingham RSA-North River WWTF	VA0060640	VAN010042	500	23.0	19,574	0.47	9,132	10,866	5,107	-4,025	-
Frederick-Winchester Service Authority Aggregate	--	VAN010057	500	--	--	--	7,558		2,287	-5,271	-
Opequon Water Reclamation Facility	VA0065552		501	12.60	11,512	0.47		3,393			
Parkins Mills WWTP	VA0075191		502	5.00	4,568	0.47		1,473			
Augusta Co. Service Authority Aggregate	--	VAN010092	500	--		--	8,717		3,178	-5,539	-
Fishersville STP	VA0025291		501	4.00	3,655	0.47		512			
Stuarts Draft WWT	VA0066877		502	4.00	3,655	0.47		198			
Middle River Regional STP	VA0064793		503	6.80	6,213	0.47		496			
Weyers Cave STP	VA0022349		504	0.50	457	0.47		2,143			
Greenville STP	VA0090417		505	0.25	1,903	0.47		1,019			
Mt. Sidney STP	VA0022322		506	0.15	1,142	0.47		1,097			
Vesper View STP	VA0067962		507	0.10	761	0.47		839			
Harriston STP	VA0027901		508	0.10	761	0.47		458			
Prince William Co Service Auth - H.L. Mooney WWTF	VA0025101	VAN010018	500	24.00	13,154	1.00	13,154	4,136	4,136	-9,018	-
Arlington County WPCF	VA0025143	VAN010021	500	40.00	21,925	1.00	21,925	6,596	6,596	-15,329	-
Alexandria Renew Enterprises WWTP	VA0025160	VAN010059	500	54.00	29,603	1.00	29,603	8,346	8,346	-21,257	-
Fairfax County - Noman-Cole PCF	VA0025364	VAN010022	500	67.00	36,729	1.00	36,729	7,887	7,887	-28,842	-
Potomac River Basin Totals							170,628	84,750	55,470	-115,158	1,074

2024 Rappahannock Total Nitrogen Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TN Wasteload Allocation (lbs/yr)	2024 TN Delivery Factor	2024 Delivered TN Wasteload Allocation (lbs/yr)	2024 Discharged TN (lbs)	2024 Delivered TN (lbs)	2024 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
City of Fredericksburg WWTF	VA0025127	VAN020095	500	4.50	54,820	1.00	54,820	72,905	72,905	18,085	--
Hampton Roads Sanitation District -Urbanna WWTP	VA0026263	VAN020034	500	0.10	1,218	1.00	1,218	2,819	2,819	1,601	--
Childrens Bible Ministries - Camp Red Arrow WWTP	VA0092452	VAN020162	500	0.0055	204	0.49	100	386	189	89	--
Westmoreland Co - Montross-Westmoreland WWTP	VA0072729	VAN020032	500	0.13	1,584	0.63	998	1,398	881	-117	--
Town of Washington - Rush River WWTP	VA0091651	VAN020108	500	0.06	1,462	0.22	322	224	49	-273	--
Greene County - Rapidan WWTP	VA0090948	VAN020026	500	0.60	7,309	0.21	1,535	5,889	1,237	-298	--
Town of Warrenton WWTP (Fauquier County)	VA0021172	VAN020028	500	2.50	30,456	0.19	5,787	28,375	5,391	-396	--
American Water Oper & Maint Inc -Fort Walker-Warrior Caroline County	VA0032034	VAN020035	500	0.53	6,457	1.00	6,457	5,586	5,586	-871	--
Aqua Virginia Inc. - Presidential Lakes Section 14 STP	VA0086720	VAN020109	500	0.07	1,994	1.00	1,994	690	690	-1,304	--
Northumberland Co - Reedville Sanitary District WWTP	VA0060712	VAN020101	500	0.20	2,436	1.00	2,436	495	495	-1,941	--
VDOC Haynesville Correctional Center WWTP	VA0023469	VAN020044	500	0.23	2,802	1.00	2,802	1,015	1,015	-1,787	634
Town of Warsaw WWTP (Richmond County)	VA0026891	VAN020036	500	0.30	3,655	1.00	3,655	1,479	1,479	-2,176	--
Culpeper County Nutrient Aggregate	--	VAN020054	500	--	--	--	2,781		128	-2,653	--
Clevengers Village WWTP	VA0080527		505	0.90	10,964	0.19		472			
Airpark WWTP	VA0068586		506	0.025	1,424	0.49		79			0
Rapidan Service Authority - Wilderness WWTP	VA0083411	VAN020029	500	2.00	15,228	0.45	6,853	6,320	2,844	-4,009	--
Town of Kilmarnock WWTP (Lancaster County)	VA0020788	VAN020038	500	0.50	6,091	1.00	6,091	1,409	1,409	-4,682	--
King George County Service Authority – Aggregate	--	VAN020056	500	--	--	--	7,797		1,679	-6,118	1,523
Oakland Park STP	VA0086789		501	0.14	1,706	1.00		742			
Hopyard Farms WWTF	VA0089338		502	0.50	6,091	1.00		937			
Town of Orange STP (Orange County)	VA0021385	VAN020025	500	3.00	36,547	0.21	7,675	6,330	1,329	-6,346	--
Town of Tappahannock WWTP (Essex County)	VA0071471	VAN020033	500	0.80	9,746	1.00	9,746	2,921	2,921	-6,825	--
Fauquier County WSA Nutrient Aggregate	--	VAN020053	500	--	--	--	13,419		4,148	-9,271	--
Remington WWTP	VA0076805		501	2.00	24,364	0.49		7,355			
Marshall WWTP	VA0031763		502	0.64	7,797	0.19		2,864			
Omega Protein Inc.	VA0003867	VAN020037	500	3.21	21,113	1.00	21,113	1,540	1,540	-19,573	--
Town of Culpeper WPCF (Culpeper County)	VA0061590	VAN020024	500	6.00	73,093	0.49	35,816	9,845	4,824	-30,992	--
Spotsylvania County Nutrient Aggregate	--	VAN020055	500	--	--	--	163,242		111,833	-51,409	--
FMC WWTF	VA0068110		501	4.00	48,737	1.00		60,240			
Massaponax WWTF	VA0025658		502	9.40	114,505	1.00		51,593			
Stafford County - Little Falls Run WWTF	VA0076392	VAN020031	500	8.00	97,458	1.00	97,458	30,962	30,962	-66,496	--
Rappahannock River Basin Totals							454,115	304,870	256,354	-197,761	2,157

2024 Rappahannock Total Phosphorus Discharges

Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TP Wasteload Allocation (lbs/yr)	2024 TP Delivery Factor	2024 Delivered TP Wasteload Allocation (lbs/yr)	2024 Discharged TP (lbs)	2024 Delivered TP (lbs)	2024 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
City of Fredericksburg WWTF	VA0025127	VAN020095	500	4.50	4,112	1.00	4,112	5,572	5,572	1,460	--
Greene County - Rapidan WWTP	VA0090948	VAN020026	500	0.60	548	0.75	411	1,516	1,137	726	--
Hampton Roads Sanitation District -Urbanna WWTP	VA0026263	VAN020034	500	0.10	91	1.00	91	662	662	571	--
Westmoreland Co - Montross-Westmoreland WWTP	VA0072729	VAN020032	500	0.13	119	0.88	105	181	159	54	--
Childrens Bible Ministries - Camp Red Arrow WWTP	VA0092452	VAN020162	500	0.0055	27	0.75	20	43	32	12	--
VDOC Haynesville Correctional Center WWTP	VA0023469	VAN020044	500	0.23	210	1.00	210	73	73	-137	48
Town of Washington - Rush River WWTP	VA0091651	VAN020108	500	0.06	244	0.75	183	40	30	-153	--
Northumberland Co - Reedville Sanitary District WWTP	VA0060712	VAN020101	500	0.20	183	1.00	183	24	24	-159	--
Town of Warsaw WWTP (Richmond County)	VA0026891	VAN020036	500	0.30	274	1.00	274	86	86	-188	--
Aqua Virginia Inc. - Presidential Lakes Section 14 STP	VA0086720	VAN020109	500	0.07	267	1.00	267	65	65	-202	--
Rapidan Service Authority - Wilderness WWTP	VA0083411	VAN020029	500	2.00	1,142	0.75	857	713	535	-322	--
Town of Kilmarnock WWTP (Lancaster County)	VA0020788	VAN020038	500	0.50	457	1.00	457	84	84	-373	--
American Water Oper & Maint Inc -Fort Walker-Warrior Caroline County	VA0032034	VAN020035	500	0.53	484	1.00	484	17	17	-467	--
King George County Service Authority – Aggregate	--	VAN020056	500	--	--	--	585		63	-522	114
Oakland Park STP	VA0086789		501	0.14	128	1.00		13			0
Hopyard Farms WWTF	VA0089338		502	0.50	457	1.00		50			
Town of Tappahannock WWTP (Essex County)	VA0071471	VAN020033	500	0.80	731	1.00	731	35	35	-696	--
Culpeper County Nutrient Aggregate	--	VAN020054	500	--	--	--	760		13	-747	--
Clevengers Village WWTP	VA0080527		505	0.90	822	0.75		9			
Airpark WWTP	VA0068586		506	0.025	190	0.75		9			
Town of Warrenton WWTP (Fauquier County)	VA0021172	VAN020028	500	2.50	2,284	0.75	1,713	555	416	-1,297	--
Fauquier County WSA Nutrient Aggregate	--	VAN020053	500	--	--	--	1,809		287	-1,522	--
Remington WWTP	VA0076805		501	2.00	1,827	0.75		311			
Marshall WWTP	VA0031763		502	0.64	585	0.75		72			
Omega Protein Inc.	VA0003867	VAN020037	500	3.21	1,571	1.00	1,571	46	46	-1,525	--
Town of Orange STP (Orange County)	VA0021385	VAN020025	500	3.00	2,741	0.75	2,056	95	71	-1,985	--
Town of Culpeper WPCF (Culpeper County)	VA0061590	VAN020024	500	6.00	5,483	0.75	4,112	458	344	-3,769	--
Stafford County - Little Falls Run WWTF	VA0076392	VAN020031	500	8.00	7,309	1.00	7,309	1,091	1,091	-6,218	--
Spotsylvania County Nutrient Aggregate	--	VAN020055	500	--	--	--	12,060		4,729	-7,331	--
FMC WWTF	VA0068110		501	4.00	3,655	1.00		1,870			
Massaponax WWTF	VA0025658		502	9.40	8,588	1.00		2,859			
Rappahannock River Basin Totals							40,360	16,548	15,572	-24,788	162

2024 York Total Nitrogen Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TN Wasteload Allocation (lbs/yr)	2024 TN Delivery Factor	2024 Delivered TN Wasteload Allocation (lbs/yr)	2024 Discharged TN (lbs)	2024 Delivered TN (lbs)	2024 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
WestRock CP LLC - West Point	VA0003115	VAN030049	500	23.00	259,177	1.00	259,177	312,745	312,745	53,568	- -
Leisure Capital Corp - Shenandoah Crossing STP	VA0076678	VAN030119	500	0.10	2,848	0.21	598	2,874	604	6	- -
Rapidan Service Authority - Gordonsville STP	VA0021105	VAN030046	500	0.94	17,177	0.06	1,031	3,901	234	-797	299
Aqua Virginia Inc. - Lake Land' Or WWTP	VA0060887	VAN030110	500	0.22	5,695	0.65	3,702	2,447	1,591	-2,111	- -
Caroline County Regional STP	VA0073504	VAN030045	500	1.50	9,137	0.65	5,939	4,032	2,621	-3,318	- -
Louisa County Water Authority Aggregate	- -	VAN030154	500	- -	- -	- -	5,980		1,136	-4,844	- -
Louisa Regional WWTP	VA0067954		501	0.80	22,780	0.21		4,522			
Zion Crossroads WWTP	VA0090743		502	0.311	5,695	0.21		886			
Cascades Containerboard Packaging - Bear Island	VA0077763	VAN030133	500	4.20	47,328	0.50	23,664	28,877	14,439	-9,226	- -
New Kent County - Parham Landing WWTP	VA0088331	VAN030048	500	2.00	36,547	1.00	36,547	5,039	5,039	-31,508	- -
Hampton Roads Sanitation District - York R Aggregate	- -	VAN030052	500	- -	- -	- -	288,315		210,912	-77,403	- -
York River STP	VA0081311		501	15.00	275,927	1.00		188,773			
West Point STP	VA0075434		502	0.60	10,964	1.00		21,681			
King William STP	VA0088102		504	0.10	1,424	1.00		458			
Hanover County Aggregate	- -	VAN030051	500	- -	- -	- -	211,994		84,832	-127,162	54,827
Ashland WWTP	VA0024899		501	2.00	36,547	0.55		23,241			
Doswell WWTP	VA0029521		502	1.00	18,273	0.50		12,395			
Totopotomoy WWTP	VA0089915		503	10.00	182,756	1.00		65,852			
York River Basin Totals							836,947	677,723	634,151	-202,796	55,126

2024 York Total Phosphorus Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TP Wasteload Allocation (lbs/yr)	2024 TP Delivery Factor	2024 Delivered TP Wasteload Allocation (lbs/yr)	2024 Discharged TP (lbs)	2024 Delivered TP (lbs)	2024 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Rapidan Service Authority - Gordonsville STP	VA0021105	VAN030046	500	0.94	1,145	0.53	607	1,627	862	255	--
Leisure Capital Corp - Shenandoah Crossing STP	VA0076678	VAN030119	500	0.10	381	0.65	210	382	248	38	--
Caroline County Regional STP	VA0073504	VAN030045	500	1.50	609	0.72	438	206	148	-290	--
Aqua Virginia Inc. - Lake Land' Or WWTP	VA0060887	VAN030110	500	0.22	761	0.72	548	247	178	-370	--
New Kent County - Parham Landing WWTP	VA0088331	VAN030048	500	2.00	2,436	1.00	2,436	461	461	-1,975	--
Louisa County Water Authority Aggregate	--	VAN030154	500	--	--	--	2,375		305	-2,070	--
Louisa Regional WWTP	VA0067954		501	0.80	3,045	0.65		444			
Zion Crossroads WWTP	VA0090743		502	0.311	609	0.65		25			
Cascades Containerboard Packaging - Bear Island	VA0077763	VAN030133	500	4.20	10,233	0.65	6,651	3,437	2,234	-4,417	--
Hampton Roads Sanitation District - York R Aggregate	--	VAN030052	500	--	--	--	19,316		14,689	-4,627	--
York River STP	VA0081311		501	15.00	18,395	1.00		10,723			
West Point STP	VA0075434		502	0.60	731	1.00		3,921			
King William STP	VA0088102		504	0.10	190	1.00		45			
WestRock CP LLC - West Point	VA0003115	VAN030049	500	23.00	56,038	1.00	56,038	51,076	51,076	-4,962	--
Hanover County Aggregate	--	VAN030051	500	--	--	--	14,559		7,614	-6,945	3,655
Ashland WWTP	VA0024899		501	2.00	2,436	0.65		6,192			
Doswell WWTP	VA0029521		502	1.00	1,218	0.65		1,167			
Totopotomoy WWTP	VA0089915		503	10.00	12,184	1.00		2,831			
York River Basin Totals							103,178	82,784	77,816	-25,362	3,655

2024 James Total Nitrogen Discharges

Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TN Wasteload Allocation (lbs/yr)	2024 TN Delivery Factor	2024 Delivered TN Wasteload Allocation (lbs/yr)	2024 Discharged TN (lbs)	2024 Delivered TN (lbs)	2024 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Upper/Middle James											
South Central Wastewater Authority WWTF	VA0025437	VAN040087	500	23.00	350,239	1.00	350,239	389,596	389,596	39,357	--
Buena Vista Public Service Authority-Buena Vista STP	VA0020991	VAN040063	500	2.25	41,115	0.55	22,613	52,391	28,815	6,202	--
City of Covington STP	VA0025542	VAN040065	500	3.00	54,820	0.21	11,512	70,042	14,709	3,197	--
DuPont Specialty Products USA LLC - Spruance Plant	VA0004669	VAN040079	500	23.33	201,080	1.00	201,080	202,375	202,375	1,295	--
Greif Packaging LLC	VA0006408	VAN040073	500	6.50	73,246	0.64	46,877	73,661	47,143	266	--
Craigsville WWTP	VA0091821	VAN040118	500	0.44	4,020	0.20	804	946	189	-615	--
Town of Crewe WWTP (Nottoway County)	VA0020303	VAN040100	500	0.50	9,137	0.25	2,284	1,906	477	-1,808	--
Aqua Virginia Aggregate		VAN040178	500	--	--	--	12,574		10,007	-2,567	--
Aqua Virginia Inc - Lake Monticello STP	VA0024945		501	0.995	14,164	0.64		13,314			
Aqua Virginia Inc - Manakin Farms WWTP	VA0027910		502	0.100	3,987	0.88		1,689			
Buckingham County / Dillwyn WWTP	VA0027294	VAN040104	500	0.20	5,695	0.65	3,702	454	295	-3,407	--
Tyson Foods Inc - Glen Allen	VA0004031	VAN040089	500	1.07	19,552	0.18	3,519	0	0	-3,519	--
Town of Amherst - Amherst-Rutledge Creek WWTP	VA0031321	VAN040071	500	0.60	10,964	0.43	4,715	2,293	986	-3,729	--
GP Big Island LLC	VA0003026	VAN040066	500	10.87	122,489	0.60	73,493	114,941	68,965	-4,528	3,753
VA Dept of Corrections - Powhatan Correctional Center	VA0020699	VAN040077	500	0.47	8,588	0.88	7,557	2,630	2,314	-5,243	--
Town of Farmville WWTP (Prince Edward County)	VA0083135	VAN040097	500	2.40	43,856	0.29	12,718	19,628	5,692	-7,026	--
WestRock Virginia LLC - Covington	VA0003646	VAN040070	500	35.00	394,400	0.11	43,384	322,150	35,437	-7,948	--
Alleghany County Aggregate	--	VAN040069	500	--	--	--	15,296		4,599	-10,697	--
Low Moor WWTP	VA0027979		501	0.50	9,137	0.27		2,243			
Lower Jackson River WWTP	VA0090671		502	3.50	47,516	0.27		14,789			
Maury Service Auth-Lexington-Rockbridge Regional WQCF	VA0088161	VAN040068	500	3.00	54,820	0.31	16,994	8,642	2,679	-14,315	--
Aladdin Manufacturing Corporation	VA0004677	VAN040067	500	2.00	30,456	0.58	17,644	1,384	803	-16,841	--
BWXT Nuclear Operations Group Inc	VA0003697	VAN040072	500	1.00	187,000	0.64	119,680	85,461	54,695	-64,985	--
City of Lynchburg - Lynchburg Regional WWTP	VA0024970	VAN040075	500	22.00	536,019	0.64	343,052	381,911	244,423	-98,629	--
Philip Morris USA Inc - Park 500 Wastewater Plant	VA0026557	VAN040084	500	2.90	139,724	1.00	139,724	34,347	34,347	-105,377	--
Rivanna Water & Sewer Authority - Moores Cr WRRF	VA0025518	VAN040076	500	15.00	282,994	0.64	181,116	114,342	73,179	-107,937	--
City of Richmond WWTP	VA0063177	VAN040085	500	45.00	1,093,652	1.00	1,093,652	887,966	887,966	-205,686	--
Chesterfield County Aggregate	--	VAN040080	500	--	--	--	593,889		333,740	-260,149	--
Falling Creek WWTP	VA0024996		501	12.00	182,738	1.00		107,213			
Proctors Creek WWTP	VA0060194		502	27.00	411,151	1.00		226,527			
AdvanSix Resins and Chemicals LLC	VA0005291	VAN040082	500	121.00	1,090,798	1.00	1,090,798	712,081	712,081	-378,717	--
Henrico County Water Reclamation Facility	VA0063690	VAN040081	500	75.00	1,142,085	1.00	1,142,085	491,246	491,246	-650,839	--
City of Hopewell - Hopewell Water Renewal	VA0066630	VAN040083	500	50.00	1,827,336	1.00	1,827,336	1,066,528	1,066,528	-760,808	--
Upper/Middle James Subtotals							7,378,337	5,402,696	4,713,285	-2,665,052	3,753

2024 James Total Nitrogen Discharges												
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TN Wasteload Allocation (lbs/yr)	2024 TN Delivery Factor	2024 Delivered TN Wasteload Allocation (lbs/yr)	2024 Discharged TN (lbs)	2024 Delivered TN (lbs)	2024 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)	
Lower James												
Hampton Roads Bridge Tunnel I-64 Expansion	VA0093084	VAN040176	500	1.13	4000	1.00	4000	4,957	4,957	957	-	
Dragados USA Inc - CBBT Parallel Thimble Shoal Tunnel	VA0093009	VAN040175	500	0.72	100	1.00	100	158	158	58	-	
HRSD James River Aggregate	--	VAN040090	500	--	--	--	3,549,213	854,355	2,071,438	-1,477,775	--	
Boat Harbor STP	VA0081256		501	25.00	473,524	1.00						
James River STP	VA0081272		502	20.00	378,819	1.00						
Williamsburg STP	VA0081302		503	22.50	426,171	1.00						
Nansemond STP	VA0081299		504	30.00	568,228	1.00						
Army Base STP	VA0081230		505	18.00	340,937	1.00						
Virginia Initiative STP	VA0081281		506	40.00	757,638	1.00						
Chesapeake-Elizabeth STP	VA0081264		507	24.00	454,596	1.00						
Lawnes Point WWTP	VA0091952		508	0.05	0	1.00						
				Lower James Subtotals			3,553,313					2,076,553
				James River Basin Totals			10,931,650	7,479,249	6,789,838	-4,141,812	3,753	

2024 James Total Phosphorus Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TP Wasteload Allocation (lbs/yr)	2024 TP Delivery Factor	2024 Delivered TP Wasteload Allocation (lbs/yr)	2024 Discharged TP (lbs)	2024 Delivered TP (lbs)	2024 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Upper/Middle James											
City of Hopewell - Hopewell Water Renewal	VA0066630	VAN040083	500	50.00	61,749	1.00	61,749	86,471	86,471	24,722	--
DuPont Specialty Products USA LLC - Spruance Plant	VA0004669	VAN040079	500	23.33	6,339	1.00	6,339	19,381	19,381	13,042	--
City of Lynchburg - Lynchburg Regional WWTP	VA0024970	VAN040075	500	22.00	27,169	0.71	19,290	32,534	23,099	3,809	--
Buena Vista Public Service Authority-Buena Vista STP	VA0020991	VAN040063	500	2.25	2,778	0.71	1,972	7,681	5,454	3,482	--
Aqua Virginia Aggregate		VAN040178	500	--	--	--	1,058		2,775	1,717	--
Aqua Virginia Inc - Lake Monticello STP	VA0024945		501	0.995	957	0.71		3,794			
Aqua Virginia Inc - Manakin Farms WWTP	VA0027910		502	0.10	533	0.71		114			
Town of Amherst - Amherst-Rutledge Creek WWTP	VA0031321	VAN040071	500	0.60	741	0.71	526	615	437	-89	--
Craigsville WWTP	VA0091821	VAN040118	500	0.44	402	0.71	285	225	160	-125	--
Tyson Foods Inc - Glen Allen	VA0004031	VAN040089	500	1.07	424	0.36	153	0	0	-153	--
BWXT Nuclear Operations Group Inc	VA0003697	VAN040072	500	1.00	1,235	0.71	877	978	694	-183	--
Town of Crewe WWTP (Nottoway County)	VA0020303	VAN040100	500	0.50	617	0.53	327	23	12	-315	--
Philip Morris USA Inc - Park 500 Wastewater Plant	VA0026557	VAN040084	500	2.90	2,149	1.00	2,149	1,810	1,810	-339	--
VA Dept of Corrections - Powhatan Correctional Center	VA0020699	VAN040077	500	0.47	581	0.71	413	101	72	-341	-2,970
Buckingham County / Dillwyn WWTP	VA0027294	VAN040104	500	0.20	761	0.71	540	47	33	-507	--
City of Covington STP	VA0025542	VAN040065	500	3.00	3,705	0.71	2,631	1,968	1,397	-1,234	--
Town of Farmville WWTP (Prince Edward County)	VA0083135	VAN040097	500	2.40	2,964	0.53	1,571	509	270	-1,301	--
Alleghany County Aggregate	--	VAN040069	500	--	--	--	2,718		1,127	-1,591	--
Low Moor WWTP	VA0027979		501	0.50	617	0.71		1,039			
Lower Jackson River WWTP	VA0090671		502	3.50	3,211	0.71		549			
South Central Wastewater Authority WWTF	VA0025437	VAN040087	500	23.00	28,404	1.00	28,404	26,606	26,606	-1,798	--
Maury Service Auth-Lexington-Rockbridge Regional WQCF	VA0088161	VAN040068	500	3.00	3,705	0.71	2,631	282	200	-2,431	--
AdvanSix Resins and Chemicals LLC	VA0005291	VAN040082	500	121.00	40,541	1.00	40,541	36,716	36,716	-3,825	--
WestRock Virginia LLC - Covington	VA0003646	VAN040070	500	35.00	96,771	0.71	68,707	88,560	62,878	-5,829	--
Aladdin Manufacturing Corporation	VA0004677	VAN040067	500	2.00	9,880	0.71	7,015	182	28	-6,987	--
Rivanna Water & Sewer Authority - Moores Cr WRRF	VA0025518	VAN040076	500	15.00	19,637	0.71	13,942	4,798	3,407	-10,535	--
Greif Packaging LLC	VA0006408	VAN040073	500	6.50	24,082	0.71	17,098	4,957	3,519	-13,579	--
GP Big Island LLC	VA0003026	VAN040066	500	10.87	40,273	0.71	28,594	13,193	9,367	-19,227	--
Chesterfield County Aggregate	--	VAN040080	500	--	--	--	45,817		26,576	-19,241	--
Falling Creek WWTP	VA0024996		501	10.10	12,473	1.00		11,889			
Proctors Creek WWTP	VA0060194		502	27.00	33,344	1.00		14,687			
City of Richmond WWTP	VA0063177	VAN040085	500	45.00	55,299	1.00	55,299	24,865	24,865	-30,434	--
Henrico County Water Reclamation Facility	VA0063690	VAN040081	500	75.00	92,623	1.00	92,623	26,447	26,447	-66,176	--
Upper/Middle James Subtotals							503,269	411,021	363,801	-139,468	-2,970

2024 James Total Phosphorus Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TP Wasteload Allocation (lbs/yr)	2024 TP Delivery Factor	2024 Delivered TP Wasteload Allocation (lbs/yr)	2024 Discharged TP (lbs)	2024 Delivered TP (lbs)	2024 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Lower James											
Dragados USA Inc - CBBT Parallel Thimble Shoal Tunnel	VA0093009	VAN040175	500	0.72	550	1.00	550	9	9	-541	-
Hampton Roads Bridge Tunnel I-64 Expansion	VA0093084	VAN040176	500	1.13	2,000	1.00	2000	55	55	-1,945	-
G. Robert House, Jr. WTP	VA0076473	VAN040127	500	-	12,739	1.00	12,739	3,472	3,472	-9,267	-
HRSD James River Aggregate	-	VAN040090	500	-	-	-	315,865		223,681	-92,184	-
Boat Harbor STP	VA0081256		501	25.00	43,175	1.00		32,097			
James River STP	VA0081272		502	20.00	34,540	1.00		22,786			
Williamsburg STP	VA0081302		503	22.50	38,858	1.00		24,192			
Nansemond STP	VA0081299		504	30.00	51,811	1.00		67,967			
Army Base STP	VA0081230		505	18.00	31,086	1.00		17,523			
Virginia Initiative STP	VA0081281		506	40.00	69,081	1.00		59,116			
Chesapeake-Elizabeth STP	VA0081264		507	24.00	41,448	1.00		0			
Lawnes Point WWTP	VA0091952		508	0.05	0	1.00		0			
Lower James Subtotal							331,154	227,217	227,217	-103,937	-
James River Basin Totals							834,423	638,238	591,018	-243,405	-2,970

2024 Eastern Shore Total Nitrogen Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TN Wasteload Allocation (lbs/yr)	2024 TN Delivery Factor	2024 Delivered TN Wasteload Allocation (lbs/yr)	2024 Discharged TN (lbs)	2024 Delivered TN (lbs)	2024 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Town of Tangier WWTP (Accomack County)	VA0067423	VAN050004	500	0.10	1,218	1.00	1,218	873	873	-345	-
Shore Health Services-Riverside Shore Memorial Hospital	VA0027537	VAN050003	500	0.10	1,218	1.00	1,218	0	0	-1,218	-
Town of Cape Charles WWTP (Northampton County)	VA0021288	VAN050001	500	0.25	3,046	1.00	3,046	952	952	-2,094	-
Town of Onancock WWTP (Accomack County)	VA0021253	VAN050002	500	0.75	9,137	1.00	9,137	2,281	2,281	-6,856	-
Tyson Farms Inc - Temperanceville	VA0004049	VAN050005	500	1.25	22,842	1.00	22,842	12,267	12,267	-10,575	-
Eastern Shore River Basin Totals							37,461	16,373	16,373	-21,088	-

2024 Eastern Shore Total Phosphorus Discharges											
Facility	Individual VPDES Permit No.	General Permit Registration No.	General Permit Outfall No.	Design Flow (MGD)	Discharged TP Wasteload Allocation (lbs/yr)	2024 TP Delivery Factor	2024 Delivered TP Wasteload Allocation (lbs/yr)	2024 Discharged TP (lbs)	2024 Delivered TP (lbs)	2024 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Town of Tangier WWTP (Accomack County)	VA0067423	VAN050004	500	0.10	91	1.00	91	131	131	40	- -
Shore Health Services-Riverside Shore Memorial Hospital	VA0027537	VAN050003	500	0.10	91	1.00	91	0	0	-91	- -
Town of Cape Charles WWTP (Northampton County)	VA0021288	VAN050001	500	0.25	228	1.00	228	84	84	-144	- -
Tyson Farms Inc - Temperanceville	VA0004049	VAN050005	500	1.25	1,142	1.00	1,142	852	852	-290	- -
Town of Onancock WWTP (Accomack County)	VA0021253	VAN050002	500	0.75	685	1.00	685	140	140	-545	- -
Eastern Shore River Basin Totals							2,237	1,207	1,207	-1,030	- -