

2016 Nutrient Load Analysis

§ 62.1-44.19:18.D. of the State Water Control Law requires that by April 1st of each year, 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, 2017. DEQ will publish notice of all credit exchanges for the previous calendar year by July 1, 2017.

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Front Royal STP	VA0062812	VAN010010	500	4.00	48,729	0.61	29,725	95,216	58,082	28,357	--
Strasburg STP	VA0020311	VAN010102	500	0.98	11,939	0.43	5,134	26,880	11,558	6,424	--
Town of Broadway Regional WWTF	VA0090263	VAN010062	500	2.92	29,481	0.19	5,601	35,260	6,699	1,098	--
Merck (Outfall 101) ^A	VA0002178	VAN010007	500	1.20	43,835	0.33	14,466	3,576	1,180	0	0
Middletown STP	VA0020982	VAN010121	500	0.40	14,238	0.43	6,122	13,924	5,987	-135	--
Middleburg	VA0024775	VAN010120	500	0.25	7,973	0.05	399	585	29	-370	--
Massanutten PSC STP	VA0024732	VAN010039	500	1.50	18,273	0.33	6,030	16,816	5,549	-481	481
FCW&SA-Vint Hill WWTF	VA0020460	VAN010020	500	0.95	11,573	0.05	579	1,544	77	-502	--
Mt. Jackson STP	VA0026441	VAN010012	500	0.70	8,528	0.34	2,900	5,628	1,914	-986	--
VA Poultry Growers Cooperative-Hinton	VA0002313	VAN010009	500	1.50	27,410	0.13	3,563	16,465	2,140	-1,423	--
Stoney Creek S.D. STP	VA0028380	VAN010015	500	0.60	8,259	0.35	2,891	3,764	1,317	-1,574	--
Boyce STP	VA0085171	VAN010107	500	0.099	2,848	0.63	1,794	319	201	-1,593	--
USNSWC-Dahlgren WWTF	VA0021067	VAN010041	500	0.72	6,578	1.00	6,578	2,876	2,876	-3,702	--
Berryville STP	VA0020532	VAN010040	500	0.70	8,528	0.63	5,373	2,443	1,539	-3,834	--
Round Hill WWTP	VA0026212	VAN010093	500	0.75	9,137	0.72	6,579	2,563	1,845	-4,734	--
Waynesboro STP	VA0025151	VAN010098	500	4.00	48,729	0.14	6,822	6,466	905	-5,917	--

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Alma Plant	VA0001961	VAN010008	500	1.00	18,273	0.33	6,030	0	0	-6,030	--
Luray STP	VA0062642	VAN010006	500	1.60	19,492	0.42	8,187	3,582	1,504	-6,683	--
Georges Chicken	VA0077402	VAN010011	500	1.70	31,065	0.35	10,873	9,498	3,324	-7,549	--
King George Co - Potomac River Aggregate	--	VAN010060	500	--	--	--	12,060		4,384	-7,676	--
Dahlgren S.D. WWTP	VA0026514	--	501	1.00	9,137	1.00		2,252			
Purkins Corner WWTP	VA0070106	--	502	0.12	1,096	1.00		1,573			
Fairview Beach STP	VA0092134	--	503	0.20	1,827	1.00		559			
Woodstock STP	VA0026468	VAN010094	500	2.00	24,364	0.35	8,527	1,778	622	-7,905	--
Lovettsville	VA0023183	VAN010129	500	0.38	14,238	0.85	12,102	3,320	2,822	-9,280	--
Invista-Waynesboro (Outfall 101)	VA0002160	VAN010050	500	1.44	78,941	0.14	11,052	2,441	342	-10,710	--
Augusta Co. Service Authority Aggregate	--	VAN010092	500	--	--	--	21,383		9,696	-11,687	--
Fishersville STP	VA0025291	--	501	4.00	48,729	0.10		13,033			
Stuarts Draft WWT	VA0066877	--	502	4.00	48,729	0.05		8,585			
Middle River Regional STP	VA0064793	--	503	6.80	82,839	0.10		22,345			
Weyers Cave STP	VA0022349	--	504	0.50	6,091	0.24		16,076			
Greenville STP	VA0090417	--	505	0.25	14,238	0.10		3,902			
Mt. Sidney STP	VA0022322	--	506	0.15	8,543	0.10		8,756			
Vesper View STP	VA0067962	--	507	0.10	5,695	0.18		2,843			
Harriston STP	VA0027901	--	508	0.10	5,695	0.18		515			
Purcellville-Basham Simms WWTF	VA0022802	VAN010016	500	1.50	18,273	0.72	13,157	1,915	1,379	-11,778	

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
MillerCoors LLC	VA0073245	VAN010096	500	4.50	54,820	0.33	18,091	14,836	4,896	-13,195	--
Colonial Beach STP	VA0026409	VAN010099	500	2.00	18,273	1.00	18,273	2,339	2,339	-15,934	--
USMC-Quantico Mainside WWTF	VA0028363	VAN010043	500	2.20	20,101	1.00	20,101	3,622	3,622	-16,479	--
Frederick-Winchester SA Aggregate	--	VAN010057	500	--	--	--	47,518		18,523	-28,995	--
Opequon WRF	VA0065552	--	501	12.60	121,851	0.26		51,349			
Parkins Mills WWTP	VA0075191	--	502	5.00	60,911	0.26		19,894			
HRRSA-North River WWTF	VA0060640	VAN010042	500	22.0	253,391	0.22	55,746	103,219	22,708	-33,038	--
Upper Occoquan S.A. WWTP	VA0024988	VAN010019	500	54.00	1,315,682	0.23	302,607	1,148,940	264,256	-38,351	--
Virginia American Water Prince William - Aggregate	--	VAN010058	500	--	--	1.00	84,058		43,707	-40,351	--
Virginia American Water Prince William - Section 1	VA0024724	--	501	4.60	42,029	1.00		20,791			
Virginia American Water Prince William - Section 8	VA0024678	--	502	4.60	42,029	1.00		22,916			
Leesburg WPCF	VA0092282	VAN010061	500	10.00	121,822	0.80	97,458	60,408	48,326	-49,132	25,278
Stafford Co-Aquia WWTP	VA0060968	VAN010023	500	10.00	73,093	1.00	73,093	21,642	21,642	-51,451	--
LCSA-Broad Run WRF	VA0091383	VAN010017	500	11.00	134,005	0.89	119,264	40,899	36,400	-82,864	--
PWCSA-H.L. Mooney WWTF	VA0025101	VAN010018	500	24.00	219,280	1.00	219,280	122,447	122,447	-96,833	--
Arlington Co. WPCF	VA0025143	VAN010021	500	40.00	365,467	1.00	365,467	152,738	152,738	-212,729	--
Alexandria S.A. WWTP	VA0025160	VAN010059	500	54.00	493,381	1.00	493,381	269,145	269,145	-224,236	--
Fairfax Co.-Noman-Cole PCF	VA0025364	VAN010022	500	67.00	612,158	1.00	612,158	246,815	246,815	-365,343	--
Totals							2,734,422		1,383,539	-1,337,597	25,759

^A In any year when credits are available after all other exchanges within the Potomac Basin are completed in accordance with § 62.1-44.19:18 of the Code of Virginia, Merck shall acquire credits for TN discharged in excess of 14,619 lbs/yr and TP discharged in excess of 1,096 lbs/yr. Credits are only generated if discharged loads are less than these same loads. This equates to the need for 0 delivered pounds of TN credits and 597 pounds of TP credits for 2016.

2016 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2016 Discharged TP (lbs)	2016 Delivered TP (lbs)	2016 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Front Royal STP	VA0062812	VAN010010	500	4.00	3,655	0.54	1,974	9,146	4,939	2,965	--
Massanutten PSC STP	VA0024732	VAN010039	500	1.50	1,371	0.53	727	5,188	2,750	2,023	0
Strasburg STP	VA0020311	VAN010102	500	0.98	895	0.53	474	3,266	1,731	1,257	--
VA Poultry Growers Cooperative-Hinton	VA0002313	VAN010009	500	1.50	1,371	0.53	727	1,419	752	91	--
Stoney Creek S.D. STP	VA0028380	VAN010015	500	0.60	667	0.53	354	672	356	2	--
Merck (Outfall 101) ^A	VA0002178	VAN010007	500	1.20	4,384	0.54	2,367	2,202	1,189	0	0
USNSWC-Dahlgren WWTF	VA0021067	VAN010041	500	0.72	658	0.99	651	556	550	-101	--
FCW&SA-Vint Hill WWTF	VA0020460	VAN010020	500	0.95	868	0.17	148	74	13	-135	--
Middleburg WWTP	VA0024775	VAN010120	500	0.25	1,066	0.17	181	169	29	-152	--
Boyce STP	VA0085171	VAN010107	500	0.099	381	0.54	206	21	11	-195	--
Mt. Jackson STP	VA0026441	VAN010012	500	0.70	640	0.53	339	220	117	-222	--
Berryville STP	VA0020532	VAN010040	500	0.70	640	0.53	339	145	77	-262	--
Round Hill WWTP	VA0026212	VAN010093	500	0.75	685	0.53	363	115	61	-302	--
Alma Plant	VA0001961	VAN010008	500	1.00	914	0.53	484	0	0	-484	--
King George Co - Potomac River Aggregate	--	VAN010060	500	--	--	--	1,199		696	-503	--
Dahlgren S.D. WWTP	VA0026514	--	501	1.00	914	1.00		226			
Purkins Corner WWTP	VA0070106	--	502	0.12	110	0.96		234			
Fairview Beach STP	VA0092134	--	503	0.20	183	0.98		236			
Middletown STP	VA0020982	VAN010121	500	0.40	1,903	0.54	1,028	962	519	-509	--
Invista-Waynesboro (Outfall 101)	VA0002160	VAN010050	500	1.44	1,009	0.54	545	60	32	-513	--
Georges Chicken	VA0077402	VAN010011	500	1.70	1,553	0.54	839	585	316	-523	--
Luray STP	VA0062642	VAN010006	500	1.60	1,462	0.54	789	452	244	-545	--
Purcellville-Basham Simms WWTF	VA0022802	VAN010016	500	1.50	1,371	0.53	727	322	171	-556	--
Town of Broadway Regional WWTF	VA0090263	VAN010062	500	2.92	2,211	0.53	1,172	1,101	584	-588	--
Lovettsville WWTP	VA0023183	VAN010129	500	0.375	1,903	0.54	1,028	570	308	-720	--
MillerCoors LLC	VA0073245	VAN010096	500	4.50	4,112	0.54	2,220	2,420	1,307	-913	--
Woodstock STP	VA0026468	VAN010094	500	2.00	1,827	0.54	987	100	54	-933	--
USMC-Quantico Mainside WWTF	VA0028363	VAN010043	500	2.20	1,206	1.00	1,206	92	92	-1,114	--
Colonial Beach STP	VA0026409	VAN010099	500	2.00	1,827	1.00	1,827	388	388	-1,439	--
LCSA-Broad Run WRF	VA0091383	VAN010017	500	11.00	3,350	0.54	1,809	487	263	-1,546	--

2016 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2016 Discharged TP (lbs)	2016 Delivered TP (lbs)	2016 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Waynesboro STP	VA0025151	VAN010098	500	6.00	3,655	0.54	1,974	515	278	-1,696	--
Leesburg WPCF	VA0092282	VAN010061	500	10.00	9,137	0.54	4,934	5,452	2,944	-1,990	1,759
Stafford Co-Aquia WWTP	VA0060968	VAN010023	500	8.00	4,386	1.00	4,386	1,366	1,366	-3,020	--
Virginia American Water Prince William - Aggregate	--	VAN010058	500	--	--	--	5,044		1,854	-3,190	--
Virginia American Water Prince William - Section 1	VA0024724	--	501	4.60	2,522	1.00		912			
Virginia American Water Prince William - Section 8	VA0024678	--	502	4.60	2,522	1.00		942			
Upper Occoquan S.A. WWTP	VA0024988	VAN010019	500	54.00	16,446	0.30	4,934	5,151	1,545	-3,389	--
HRRSA-North River WWTF	VA0060640	VAN010042	500	22.0	19,004	0.54	10,262	8,807	4,756	-5,506	--
Frederick-Winchester SA Aggregate	--	VAN010057	500	--	--	--	8,684		2,454	-6,230	--
Opequon WRF	VA0065552	--	501	12.60	11,512	0.54		3,079			
Parkins Mills WWTP	VA0075191	--	502	5.00	4,568	0.54		1,466			
Augusta Co. Service Authority Aggregate	--	VAN010092	500	--	--	--	10,012		3,739	-6,273	--
Fishersville STP	VA0025291	--	501	4.00	3,655	0.54		445			
Stuarts Draft WWT	VA0066877	--	502	4.00	3,655	0.54		531			
Middle River Regional STP	VA0064793	--	503	6.80	6,213	0.54		1,727			
Weyers Cave STP	VA0022349	--	504	0.50	457	0.53		1,927			
Greenville STP	VA0090417	--	505	0.25	1,903	0.54		653			
Mt. Sidney STP	VA0022322	--	506	0.15	1,142	0.54		866			
Vesper View STP	VA0067962	--	507	0.10	761	0.54		520			
Harriston STP	VA0027901	--	508	0.10	761	0.54		290			
PWCSA-H.L. Mooney WWTF	VA0025101	VAN010018	500	24.00	13,157	1.00	13,157	2,682	2,682	-10,475	--
Arlington Co. WPCF	VA0025143	VAN010021	500	40.00	21,928	1.00	21,928	5,671	5,671	-16,257	--
Alexandria S.A. WWTP	VA0025160	VAN010059	500	54.00	29,603	1.00	29,603	5,400	5,400	-24,203	--
Fairfax Co.-Noman-Cole PCF	VA0025364	VAN010022	500	67.00	36,729	1.00	36,729	8,173	8,173	-28,556	--
Totals								176,357	58,410	-116,703	1,759

Footnotes

^A In any year when credits are available after all other exchanges within the Potomac Basin are completed in accordance with § 62.1-44.19:18 of the Code of Virginia, Merck shall acquire credits for TN discharged in excess of 14,619 lbs/yr and TP discharged in excess of 1,096 lbs/yr. Credits are only generated if discharged loads are less than these same loads. This equates to the need for 0 delivered pounds of TN credits and 597 pounds of TP credits for 2016.

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Fredericksburg WWTF	VA0025127	VAN020095	500	4.50	54,820	1.00	54,820	74,127	74,127	19,307	--
Urbanna WWTP	VA0026263	VAN020034	500	0.10	1,218	1.00	1,218	2,954	2,954	1,736	--
Montross-Westmoreland WWTP	VA0072729	VAN020032	500	0.13	1,584	0.74	1,172	2,043	1,512	340	--
Reedville S.D. WWTP	VA0060712	VAN020101	500	0.20	2,436	1.00	2,436	2,538	2,538	102	--
Camp Red Arrow WWTF	VA0092452	VAN020162	500	0.0055	78	0.49	38	81	40	2	
Rush River	VA0091651	VAN020108	500	0.06	1,462	0.24	351	203	49	-302	--
Presidential Lakes Section 14 STP	VA0086720	VAN020109	500	0.07	1,994	1.00	1,994	1,496	1,496	-498	--
Rapidan STP	VA0090948	VAN020026	500	0.60	7,309	0.29	2,120	4,282	1,242	-878	--
King George Co – Nutrient Aggregate	--	VAN020056	500	--	--	--	7,797		6,502	-1,295	1,295
Oakland Park STP	VA0086789	--	501	0.14	1,706	1.00		3,738			
Hopyard Farms WWTF	VA0089338	--	502	0.50	6,091	1.00		2,764			
Haynesville Correctional Center WWTP	VA0023469	VAN020044	500	0.23	2,802	1.00	2,802	1,158	1,158	-1,644	633
Warsaw STP	VA0026891	VAN020036	500	0.30	3,655	1.00	3,655	1,519	1,519	-2,136	--
Culpeper County Nutrient Aggregate	--	VAN020054	500	--	--	--	2,743		552	-2,191	--
Greens Corner WWTP	VA0092002	--	503	--	0	0.49		0			
Clevengers Village WWTP	VA0080527	--	505	0.90	10,964	0.19		366			
Airpark WWTP	VA0068586	--	506	0.025	1346	0.49		539			
US Army -Ft. A.P. Hill WWTP	VA0032034	VAN020035	500	0.53	6,457	1.00	6,457	4,219	4,219	-2,238	--
Warrenton STP	VA0021172	VAN020028	500	2.50	30,456	0.19	5,787	17,635	3,351	-2,436	--
Kilmarnock WWTP	VA0020788	VAN020038	500	0.50	6,091	1.00	6,091	2,149	2,149	-3,942	--
Wilderness WWTP	VA0083411	VAN020029	500	2.00	15,228	0.41	6,243	3,923	1,608	-4,635	--
Haymount WWTF	VA0089125	VAN020030	500	0.58	7,066	1.00	7,066	0	0	-7,066	7,066
Tappahannock WWTP	VA0071471	VAN020033	500	0.80	9,746	1.00	9,746	2,165	2,165	-7,581	--
Orange STP	VA0021385	VAN020025	500	3.00	36,547	0.29	10,599	4,802	1,393	-9,206	--
Fauquier Co. WSA Nutrient Aggregate	--	VAN020053	500	--	--	--	13,419		3,122	-10,297	--
Remington WWTP	VA0076805	--	501	2.00	24,364	0.49		5,025			
Marshall WWTP	VA0031763	--	502	0.64	7,797	0.19		3,483			
Omega Protein	VA0003867	VAN020037	500	3.21	21,213	1.00	21,213	2,739	2,739	-18,474	--
Culpeper WPCF	VA0061590	VAN020024	500	6.00	73,093	0.49	35,816	11,340	5,557	-30,259	--
Spotsylvania County Nutrient Aggregate	--	VAN020055	500	--	--	--	163,242		124,609	-38,633	--
FMC WWTF	VA0068110	--	501	4.00	48,737	1.00		57,947			
Massaponax WWTF	VA0025658	--	502	9.40	114,505	1.00		66,662			
Stafford Co.-Little Falls Run WWTF	VA0076392	VAN020031	500	8.00	97,458	1.00	97,458	32,929	32,929	-64,529	--
Totals							464,283	277,528	-186,755	8,994	

2016 Rapphannock 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2016 Discharged TP (lbs)	2016 Delivered TP (lbs)	2016 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Fredericksburg WWTF	VA0025127	VAN020095	500	4.50	4,112	1.00	4,112	5,154	5,154	1,042	--
Urbanna WWTP	VA0026263	VAN020034	500	0.10	91	0.96	87	652	626	539	--
King George Co. Nutrient Aggregate	--	VAN020056	500	--	--	--	576		1,069	493	0
Oakland Park STP	VA0086789	--	501	0.14	128	0.97		281			
Hopyard Farms WWTF	VA0089338	--	502	0.50	457	0.99		789			
Reedville S.D. WWTP	VA0060712	VAN020101	500	0.20	183	0.98	179	523	513	334	--
Montross-Westmoreland WWTP	VA0072729	VAN020032	500	0.13	119	0.92	109	156	144	35	--
Camp Red Arrow WWTF	VA0092452	VAN020162	500	0.0055	10	0.78	8	10	8	0	
Rapidan STP	VA0090948	VAN020026	500	0.60	548	0.77	422	536	413	-9	--
Haynesville Correctional Center WWTP	VA0023469	VAN020044	500	0.23	210	1.00	210	67	67	-143	47
Presidential Lakes Section 14 STP	VA0086720	VAN020109	500	0.07	267	1.00	267	103	103	-164	
Rush River	VA0091651	VAN020108	500	0.06	235	0.78	183	15	12	-171	--
Warsaw STP	VA0026891	VAN020036	500	0.30	274	0.99	271	72	71	-200	--
Kilmarnock WWTP	VA0020788	VAN020038	500	0.50	457	0.99	452	169	167	-285	--
US Army -Ft. A.P. Hill WWTP	VA0032034	VAN020035	500	0.53	484	0.99	479	33	33	-446	--
Haymount WWTF	VA0089125	VAN020030	500	0.58	530	0.99	525	0	0	-525	525
Wilderness WWTP	VA0083411	VAN020029	500	2.00	1,142	0.77	879	358	276	-603	--
Culpeper County Nutrient Aggregate	--	VAN020054	500	--	--	--	773		108	-665	--
Greens Corner WWTP	VA0092002	--	503	--	0	0.78		0			
Clevengers Village WWTP	VA0080527	--	505	0.90	822	0.77		17			
Airpark WWTP	VA0068586	--	506	0.025	180	0.78		90			
Tappahannock WWTP	VA0071471	VAN020033	500	0.80	731	1.00	731	62	62	-669	--
Warrenton STP	VA0021172	VAN020028	500	2.50	2,284	0.78	1,782	1,185	924	-858	--
Fauquier Co. WSA Nutrient Aggregate	--	VAN020053	500	--	--	--	1,876		394	-1,482	--
Remington WWTP	VA0076805	--	501	2.00	1,827	0.78		285			
Marshall WWTP	VA0031763	--	502	0.64	585	0.77		222			
Omega Protein	VA0003867	VAN020037	500	3.21	1,591	1.00	1,591	63	63	-1,528	--
Orange STP	VA0021385	VAN020025	500	3.00	2,741	0.78	2,138	348	271	-1,867	--
Culpeper WWTP	VA0061590	VAN020024	500	6.00	5,483	0.78	4,277	330	257	-4,020	--
Stafford Co.-Little Falls Run WWTF	VA0076392	VAN020031	500		7,309	1.00	7,309	1,809	1,809	-5,500	--
Spotsylvania Co. Nutrient Aggregate	--	VAN020055	500	--	--	--	12,060		5,917	-6,143	--
FMC WWTF	VA0068110	--	501	4.00	3,655	1.00		1,305			
Massaponax WWTF	VA0025658	--	502	9.40	8,405	1.00		4,712			
Totals							41,296	18,461	-22,835	572	

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 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	339,016	339,016	79,839	--
Shenandoah Crossing STP	VA0076678	VAN030119	500	0.10	2,848	0.26	740	110	29	-711	--
Gordonsville STP	VA0021105	VAN030046	500	0.94	17,177	0.05	859	1,059	53	-806	249
Lake Land' Or WWTP	VA0060887	VAN030110	500	0.22	5,695	0.58	3,303	4,111	2,384	-919	--
Bear Island Paper Company	VA0029521	VAN030133	500	4.20	47,328	0.51	24,137	42,901	21,880	-2,257	--
Caroline County Regional STP	VA0073504	VAN030045	500	1.50	9,137	0.58	5,299	3,651	2,118	-3,181	--
Louisa County Water Authority Aggregate	--	VAN030154	500	--	--	--	7,404		1,749	-5,655	--
Louisa Regional WWTP	VA0067954	--	501	0.80	22,780	0.26		6,291			
Zion Crossroads WWTP	VA0090743	--	502	0.311	5,695	0.26		436			
Parham Landing WWTP	VA0088331	VAN030048	500	2.00	36,547	1.00	36,547	3,084	3,084	-33,463	--
HRSD York River Aggregate	--	VAN030052	500	--	--	--	288,315		202,983	-85,332	--
York River STP	VA0081311	--	501	15.00	275,927	1.00		180,137			
West Point STP	VA0075434	--	502	0.60	10,964	1.00		22,795			
King William STP	VA0088102	--	504	0.10	1,424	1.00		51			
Hanover County Aggregate	--	VAN030051	500	--	--	--	192,054		79,688	-112,366	54,820
Ashland WWTP	VA0024899	--	501	2.00	36,547	0.62		38,581			
Doswell WWTP	VA0029521	--	502	1.00	18,273	0.57		15,747			
Totopotomoy WWTP	VA0089915	--	503	10.00	182,734	0.87		53,709			
Plains Marketing LP Yorktown	VA0003018	VAN030047	500	53.80	167,128	1.00	167,128	585	585	-166,543	--
Totals							984,963		653,568	-331,395	55,069

2016 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2016 Discharged TP (lbs)	2016 Delivered TP (lbs)	2016 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
WestRock CP LLC- West Point	VA0003115	VAN030049	500	23.00	56,038	1.00	56,038	58,635	58,635	2,597	--
Gordonsville STP	VA0021105	VAN030046	500	0.94	1,145	0.18	206	515	93	-113	113
Shenandoah Crossing STP	VA0076678	VAN030119	500	0.10	381	0.55	210	20	11	-199	--
Caroline County Regional STP	VA0073504	VAN030045	500	1.50	609	0.68	414	193	131	-283	--
Lake Land' Or WWTP	VA0060887	VAN030110	500	0.22	761	0.69	525	215	148	-377	--
Louisa County Water Authority Aggregate	--	VAN030154	500	--	--	--	2,010		171	-1,839	--
Louisa Regional WWTP	VA0067954	--	501	0.80	3,045	0.55		280			
Zion Crossroads WWTP	VA0090743	--	502	0.311	609	0.55		31			
Parham Landing WWTP	VA0088331	VAN030048	500	2.00	2,436	1.00	2,436	188	188	-2,248	--
Bear Island Paper Company	VA0029521	VAN030133	500	4.20	10,233	0.55	5,628	4,135	2,274	-3,354	--
HRSD York River Aggregate	--	VAN030052	500	--	--	--	19,315		14,941	-4,374	--
York River STP	VA0081311	--	501	15.00	18,395	1.00		10,924			
West Point STP	VA0075434	--	502	0.60	731	1.00		3,991			
King William STP	VA0088102	--	504	0.10	190	1.00		26			
Hanover County Aggregate	--	VAN030051	500	--	--	--	11,390		3,895	-7,495	6,396
Ashland WWTP	VA0024899	--	501	2.00	2,436	0.55		4,039			
Doswell WWTP	VA0029521	--	502	1.00	1,218	0.55		1,610			
Totopotomoy WWTP	VA0089915	--	503	10.00	12,182	0.77		1,024			
Plains Marketing LP Yorktown	VA0003018	VAN030047	500	53.80	17,689	1.00	17,689	47	47	-17,642	--
Totals							115,861	80,535	-35,326	6,509	

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Upper/Middle James											
So. Central Wastewater Authority WWTF	VA0025437	VAN040087	500	23.00	350,239	1.00	350,239	480,597	480,597	130,358	--
Lake Monticello STP	VA0024945	VAN040074	500	0.995	18,182	0.67	12,182	73,833	49,468	37,286	0
Greif Inc.	VA0006408	VAN040073	500	6.50	73,246	0.65	47,610	126,488	82,217	34,607	--
E. I. DuPont-Spruance	VA0004669	VAN040079	500	23.33	201,080	1.00	201,080	227,597	227,597	26,517	--
Buena Vista STP	VA0020991	VAN040063	500	2.25	41,115	0.56	23,024	53,901	30,185	7,161	--
Covington STP	VA0025542	VAN040065	500	3.00	54,820	0.21	11,512	87,821	18,442	6,930	--
GP Big Island LLC	VA0003026	VAN040066	500	10.87	122,489	0.60	73,493	132,527	79,516	6,023	--
Augusta Correctional Center	VA0091821	VAN040126	500	0.44	4,020	0.21	844	3,411	716	-128	--
Tyson Foods-Glen Allen	VA0004031	VAN040089	500	1.07	19,552	0.16	3,128	12,343	1,975	-1,153	--
Crewe WWTP	VA0020303	VAN040100	500	0.50	9,137	0.29	2,650	2,509	728	-1,922	--
Amherst-Rutledge Creek WWTP	VA0031321	VAN040071	500	0.60	10,964	0.34	3,728	2,491	847	-2,881	--
Powhatan Correctional Center STP	VA0020699	VAN040077	500	0.47	8,588	0.89	7,643	1,154	1,027	-6,616	--
Farmville WWTP	VA0083135	VAN040097	500	2.40	43,856	0.26	11,403	11,842	3,079	-8,324	--
WestRock Virginia Corporation- Covington	VA0003646	VAN040070	500	35.00	394,400	0.11	43,384	310,949	34,204	-9,180	--
Lex.-Rock. Regional WQCF	VA0088161	VAN040068	500	3.00	54,820	0.32	17,542	12,035	3,851	-13,691	--
Alleghany County Aggregate	--	VAN040069	500	--	--	--	19,005		4,696	-14,309	4,934
Low Moor WWTP	VA0027979	--	501	0.50	9,137	0.26		1,796			
Lower Jackson River WWTP	VA0090671	--	502	2.60	63,957	0.26		13,320			
Mohawk Industries, Inc.	VA0004677	VAN040067	500	2.00	30,456	0.59	17,969	2,455	1,448	-16,521	--
The Sustainability Park LLC (001)	VA0002780	VAN040078	500	2.10	25,583	1.00	25,583	749	749	-24,834	--
BWX Technologies, Inc.	VA0003697	VAN040072	500	1.00	187,000	0.65	121,550	95,056	61,786	-59,764	--
Hopewell RWTF	VA0066630	VAN040083	500	50.00	1,827,336	1.00	1,827,336	1,740,534	1,740,534	-86,802	--
Philip Morris USA-Park 500	VA0026557	VAN040084	500	2.90	139,724	1.00	139,724	39,855	39,855	-99,869	--
RWSA-Moores Creek Regional STP	VA0025518	VAN040076	500	15.00	282,831	0.67	189,497	57,331	38,412	-151,085	--
Lynchburg STP	VA0024970	VAN040075	500	22.00	536,019	0.65	348,412	251,556	163,511	-184,901	--
Chesterfield County Aggregate	--	VAN040080	500	--	--	--	564,952		362,982	-201,970	--
Falling Creek WWTP	VA0024996	--	501	10.10	153,801	1.00		137,078			
Proctors Creek WWTP	VA0060194	--	502	27.00	411,151	1.00		225,904			
Dominion-Chesterfield	VA0004146	VAN040086	500	--	352,036	1.00	352,036	55,136	55,136	-296,900	--
AdvanSix Resins and Chemicals LLC	VA0005291	VAN040082	500	121.00	1,090,798	1.00	1,090,798	689,184	689,184	-401,614	--
Henrico Co. WWTP	VA0063690	VAN040081	500	75.00	1,142,085	1.00	1,142,085	559,067	559,067	-583,018	--
Richmond WWTP	VA0063177	VAN040085	500	45.00	1,093,652	1.00	1,093,652	337,780	337,780	-755,872	--
Upper/Middle James Subtotals							7,742,061	5,069,591	-2,672,470	4,934	

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Lower James											
Lawnes Point WWTP	VA0091952	VAN040117	500	0.05	0	1.00	0	0	0	0	--
J.H. Miles & Co.	VA0003263	VAN040091	500	0.35	153,500	1.00	153,500	996	996	-152,504	--
HRSD James River Aggregate	--	VAN040090	500	--	--	--	6,000,000		4,450,052	-1,549,948	--
Boat Harbor STP	VA0081256	--	501	25.00	740,000	1.00		773,188			
James River STP	VA0081272	--	502	20.00	1,250,000	1.00		311,477			
Williamsburg STP	VA0081302	--	503	22.50	800,000	1.00		160,592			
Nansemond STP	VA0081299	--	504	30.00	750,000	1.00		428,949			
Army Base STP	VA0081230	--	505	18.00	610,000	1.00		247,291			
Virginia Initiative STP	VA0081281	--	506	40.00	750,000	1.00		837,575			
Chesapeake-Elizabeth STP	VA0081264	--	507	24.00	1,100,000	1.00		1,690,980			
					Lower James Subtotals		6,153,500		4,451,048	-1,702,452	0
					James River Basin Total		13,895,561		9,520,639	-4,374,922	4,934

2016 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2016 Discharged TP (lbs)	2016 Delivered TP (lbs)	2016 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
E. I. DuPont-Spruance	VA0004669	VAN040079	500	23.33	7,816	1.00	7,816	12,017	12,017	4,201	--
Buena Vista STP	VA0020991	VAN040063	500	2.25	3,426	0.66	2,261	9,338	6,163	3,902	--
Lake Monticello STP	VA0024945	VAN040074	500	0.995	1,515	0.66	1,000	6,832	4,509	3,509	0
Dominion-Chesterfield	VA0004146	VAN040086	500	--	210	1.00	210	2,454	2,454	2,244	--
Hopewell RWTF	VA0066630	VAN040083	500	50.00	76,139	1.00	76,139	77,584	77,584	1,445	--
Tyson Foods-Glen Allen	VA0004031	VAN040089	500	1.07	409	0.46	188	228	105	-83	--
Amherst-Rutledge Creek WWTP	VA0031321	VAN040071	500	0.60	914	0.66	603	669	442	-161	--
Augusta Correctional Center	VA0091821	VAN040118	500	0.44	402	0.66	265	62	41	-224	--
Crewe WWTP	VA0020303	VAN040100	500	0.50	761	0.46	350	70	32	-318	--
Powhatan Corr. Center STP	VA0020699	VAN040077	500	0.47	716	0.66	473	88	58	-415	--
BWX Technologies, Inc.	VA0003697	VAN040072	500	1.00	1,523	0.66	1,005	833	550	-455	--
Farmville WWTP	VA0083135	VAN040097	500	2.40	3,655	0.46	1,681	707	325	-1,356	--
Philip Morris USA-Park 500	VA0026557	VAN040084	500	2.90	2,650	1.00	2,650	1,287	1,287	-1,363	--
The Sustainability Park LLC (001)	VA0002780	VAN040078	500	2.10	1,919	1.00	1,919	249	249	-1,670	--
Covington STP	VA0025542	VAN040065	500	3.00	4,568	0.66	3,015	1,797	1,186	-1,829	--
Lex.-Rock. Regional WQCF	VA0088161	VAN040068	500	3.00	4,568	0.66	3,015	659	435	-2,580	--
Alleghany County Aggregate	--	VAN040069	500	--	--	--	4,020		1,233	-2,787	1,371
Low Moor WWTP	VA0027979	--	501	0.50	617	0.66		407			
Lower Jackson River WWTP	VA0090671	--	502	1.50	4,323	0.66		2,853			
Lynchburg STP	VA0024970	VAN040075	500	22.00	33,501	0.66	22,111	28,673	18,924	-3,187	--
Mohawk Industries, Inc.	VA0004677	VAN040067	500	2.00	12,182	0.66	8,040	154	102	-7,938	--
So. Central Wastewater Authority WWTF	VA0025437	VAN040087	500	23.00	35,024	1.00	35,024	26,959	26,959	-8,065	--
AdvanSix Resins and Chemicals LLC	VA0005291	VAN040082	500	121.00	51,592	1.00	51,592	39,771	39,771	-11,821	--
RWSA-Moores Creek Regional STP	VA0025518	VAN040076	500	15.00	22,842	0.66	15,076	4,768	3,147	-11,929	--
Greif Inc.	VA0006408	VAN040073	500	6.50	29,694	0.66	19,598	11,201	7,393	-12,205	--
GP Big Island LLC	VA0003026	VAN040066	500	10.87	49,658	0.66	32,774	24,159	15,945	-16,829	--
Chesterfield County Aggregate	--	VAN040080	500	--	--	--	56,495		32,711	-23,784	--
Falling Creek WWTP	VA0024996	--	501	10.10	15,380	1.00		13,840			
Proctors Creek WWTP	VA0060194	--	502	27.00	41,115	1.00		18,871			
Richmond WWTP	VA0063177	VAN040085	500	45.00	68,525	1.00	68,525	30,288	30,288	-38,237	--
WestRock Virginia Corporation- Covington	VA0003646	VAN040070	500	35.00	159,892	0.66	105,529	41,262	27,233	-78,296	--
Henrico Co. WWTP	VA0063690	VAN040081	500	75.00	114,209	1.00	114,209	25,942	25,942	-88,267	--
Upper/Middle James Subtotals							635,583	337,084	-298,499	1,371	

2016 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2016 Discharged TP (lbs)	2016 Delivered TP (lbs)	2016 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Lower James											
Lawnes Point WWTP	VA0091952	VAN040117	500	0.05	0	1.00	0	0	0	0	--
G. Robert House, Jr. WTP	VA0076473	VAN040127	500	--	12,739	1.00	12,739	4,189	4,189	-8,550	--
J.H. Miles & Co.	VA0003263	VAN040091	500	0.35	21,500	1.00	21,500	208	208	-21,292	--
HRSD James River Aggregate	--	VAN040090	500	--	--	--	382,258		355,006	-27,252	--
Boat Harbor STP	VA0081256	--	501	25.00	53,240	1.00		26,467			
James River STP	VA0081272	--	502	20.00	42,591	1.00		31,549			
Williamsburg STP	VA0081302	--	503	22.50	47,915	1.00		18,075			
Nansemond STP	VA0081299	--	504	30.00	63,887	1.00		73,120			
Army Base STP	VA0081230	--	505	18.00	38,332	1.00		26,525			
Virginia Initiative STP	VA0081281	--	506	40.00	85,183	1.00		96,972			
Chesapeake-Elizabeth STP	VA0081264	--	507	24.00	51,110	1.00		82,298			
Lower James Subtotal							416,497		359,403	-57,094	0
James River Basin Total							1,052,080		696,487	-355,593	1,371

2016 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)	TN Delivery Factor	Delivered TN Wasteload Allocation (lbs/yr)	2016 Discharged TN (lbs)	2016 Delivered TN (lbs)	2016 Delivered TN Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Shore Memorial Hospital	VA0027537	VAN050003	500	0.10	1,218	1.00	1,218	2,659	2,659	1,441	--
Tangier Island WWTP	VA0067423	VAN050004	500	0.10	1,218	1.00	1,218	1,883	1,883	665	--
Cape Charles WWTP	VA0021288	VAN050001	500	0.25	3,046	1.00	3,046	417	417	-2,629	--
Onancock WWTP	VA0021253	VAN050002	500	0.75	9,137	1.00	9,137	960	960	-8,177	--
Tyson Foods-Temperanceville	VA0004049	VAN050005	500	1.25	22,842	1.00	22,842	7,815	7,815	-15,027	--
Totals							37,461	13,734	13,734	-23,727	0

2016 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2016 Discharged TP (lbs)	2016 Delivered TP (lbs)	2016 Delivered TP Exceedance/ (Credit) (lbs)	Nutrient Offset Fund Held Credits (lbs)
Tangier Island WWTP	VA0067423	VAN050004	500	0.10	91	0.96	87	288	276	189	--
Shore Memorial Hospital	VA0027537	VAN050003	500	0.10	91	0.96	87	141	135	48	--
Cape Charles WWTP	VA0021288	VAN050001	500	0.25	228	0.99	226	33	33	-193	--
Onancock WWTP	VA0021253	VAN050002	500	0.75	685	0.99	678	70	69	-609	--
Tyson Foods-Temperanceville	VA0004049	VAN050005	500	1.25	1,142	1.00	1,142	311	311	-831	--
Totals							2,220	825	825	-1,395	0