

2015 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 Water Quality Improvement 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 Water Quality Improvement 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 Water Quality Improvement Fund. Permitted facilities must complete and report all trades to DEQ by June 1, 2016. DEQ will publish notice of all credit exchanges for the previous calendar year by July 1, 2016.

2015 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)	2015 Discharged TN (lbs)	2015 Delivered TN (lbs)	2015 Delivered TN Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Front Royal STP	VA0062812	VAN010010	500	4.00	48,729	0.67	32,648	95,980	64,307	31,659	--
Town of Broadway Regional WWTF	VA0090263	VAN010062	500	2.93	29,481	0.67	19,752	61,690	41,332	21,580	--
Strasburg STP	VA0020311	VAN010102	500	0.98	11,939	0.67	7,999	33,339	22,337	14,338	--
Massanutten PSC STP	VA0024732	VAN010039	500	1.50	18,273	0.44	8,040	23,019	10,128	2,088	0
Merck (Outfall 101) ^A	VA0002178	VAN010007	500	1.20	43,835	0.44	19,287	28,450	12,518	0	0
King George Co - Potomac River Aggregate	--	VAN010060	500	--	--	--	12,060		10,406	-1,654	--
Dahlgren S.D. WWTP	VA0026514	--	501	1.00	9,137	1.00		8,030			
Purkins Corner WWTP	VA0070106	--	502	0.12	1,096	1.00		1,884			
Fairview Beach STP	VA0092134	--	503	0.20	1,827	1.00		492			
Boyce STP	VA0085171	VAN010107	500	0.099	2,848	0.74	2,107	146	108	-1,999	--
Mt. Jackson STP	VA0026441	VAN010012	500	0.70	8,528	0.67	5,713	5,162	3,459	-2,254	--
Stoney Creek S.D. STP	VA0028380	VAN010015	500	0.60	8,259	0.67	5,534	4,221	2,828	-2,706	--
Middletown STP	VA0020982	VAN010121	500	0.40	14,238	0.67	9,539	8,130	5,447	-4,092	--
VA Poultry Growers Cooperative-Hinton	VA0002313	VAN010009	500	1.50	27,410	0.44	12,060	17,887	7,870	-4,190	--
Berryville STP	VA0020532	VAN010040	500	0.70	8,528	0.67	5,713	1,452	973	-4,740	--
USNSWC-Dahlgren WWTF	VA0021067	VAN010041	500	0.72	6,578	1.00	6,578	1,508	1,508	-5,070	--
Round Hill WWTP	VA0026212	VAN010093	500	0.75	9,137	0.83	7,583	2,747	2,280	-5,303	--
FCW&SA-Vint Hill WWTF	VA0020460	VAN010020	500	0.95	11,573	0.58	6,712	1,312	761	-5,951	--
Middleburg	VA0024775	VAN010120	500	0.25	7,973	0.83	6,618	540	448	-6,170	--
Luray STP	VA0062642	VAN010006	500	1.60	19,492	0.44	8,576	3,871	1,703	-6,873	--
Alma Plant	VA0001961	VAN010008	500	1.00	18,273	0.44	8,040	0	0	-8,040	--
Lovettsville	VA0023183	VAN010129	500	0.38	14,238	0.82	11,675	2,235	1,833	-9,842	--
Purcellville-Basham Simms WWTF	VA0022802	VAN010016	500	1.50	18,273	0.83	15,167	2,623	2,177	-12,990	
Georges Chicken	VA0077402	VAN010011	500	1.70	31,065	0.67	20,813	9,908	6,638	-14,175	--
Woodstock STP	VA0026468	VAN010094	500	2.00	24,364	0.67	16,324	2,516	1,686	-14,638	--
Colonial Beach STP	VA0026409	VAN010099	500	2.00	18,273	1.00	18,273	3,300	3,300	-14,973	--
USMC-Quantico Mainside WWTF	VA0028363	VAN010043	500	2.20	20,101	1.00	20,101	4,447	4,447	-15,654	--
Waynesboro STP	VA0025151	VAN010098	500	4.00	48,729	0.44	21,441	9,215	4,055	-17,386	--
MillerCoors LLC	VA0073245	VAN010096	500	4.50	54,820	0.44	24,121	12,134	5,339	-18,782	--

2015 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)	2015 Discharged TN (lbs)	2015 Delivered TN (lbs)	2015 Delivered TN Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Invista-Waynesboro (Outfall 101)	VA0002160	VAN010050	500	1.44	78,941	0.44	34,734	4,836	2,128	-32,606	--
Virginia American Water Prince William - Aggregate	--	VAN010058	500	--	--	1.00	84,058		38,972	-45,086	--
Virginia American Water Prince William - Section 1	VA0024724	--	501	4.60	42,029	1.00		19,581			
Virginia American Water Prince William - Section 8	VA0024678	--	502	4.60	42,029	1.00		19,391			
Stafford Co-Aquia WWTP	VA0060968	VAN010023	500	8.00	73,093	1.00	73,093	20,528	20,528	-52,565	--
Leesburg WPCF	VA0092282	VAN010061	500	10.00	121,822	0.83	101,113	57,847	48,013	-53,100	25,278
HRRSA-North River WWTF	VA0060640	VAN010042	500	22.00	253,391	0.44	111,492	123,694	54,425	-57,067	--
Augusta Co. Service Authority Aggregate	--	VAN010092	500	--	--	--	97,047		34,289	-62,758	--
Fishersville STP	VA0025291	--	501	4.00	48,729	0.44		15,152			
Stuarts Draft WWT	VA0066877	--	502	4.00	48,729	0.44		8,081			
Middle River Regional STP	VA0064793	--	503	6.80	82,839	0.44		24,598			
Weyers Cave STP	VA0022349	--	504	0.50	6,091	0.44		15,999			
Greenville STP	VA0090417	--	505	0.25	14,238	0.44		5,010			
Mt. Sidney STP	VA0022322	--	506	0.15	8,543	0.44		7,208			
Vesper View STP	VA0067962	--	507	0.10	5,695	0.44		1,619			
Harriston STP	VA0027901	--	508	0.10	5,695	0.44		661			
LCSA-Broad Run WRF	VA0091383	VAN010017	500	11.00	134,005	0.83	111,224	27,832	23,101	-88,123	--
Frederick-Winchester SA Aggregate	--	VAN010057	500	--	--	--	135,244		43,243	-92,001	--
Opequon WRF	VA0065552	--	501	12.60	121,851	0.74		42,904			
Parkins Mills WWTP	VA0075191	--	502	5.00	60,911	0.74		15,578			
Alexandria S.A. WWTP	VA0025160	VAN010059	500	54.00	493,381	1.00	493,381	389,038	389,038	-104,343	--
PWCSA-H.L. Mooney WWTF	VA0025101	VAN010018	500	24.00	219,280	1.00	219,280	112,036	112,036	-107,244	--
Upper Occoquan S.A. WWTP	VA0024988	VAN010019	500	54.00	1,315,682	0.58	763,096	1,068,524	619,744	-143,352	--
Arlington Co. WPCF	VA0025143	VAN010021	500	40.00	365,467	1.00	365,467	93,371	93,371	-272,096	--
Fairfax Co.-Noman-Cole PCF	VA0025364	VAN010022	500	67.00	612,158	1.00	612,158	239,530	239,530	-372,628	--
Totals							3,533,861	1,936,306	-1,590,786	25,278	

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 6,086 delivered lbs of TN credits and 1,036 delivered lbs of TP credits for 2015.

2015 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)	2015 Discharged TP (lbs)	2015 Delivered TP (lbs)	2015 Delivered TP Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Front Royal STP	VA0062812	VAN010010	500	4	3,655	0.77	2,814	8,891	6,846	4,032	--
Massanutten PSC STP	VA0024732	VAN010039	500	1.5	1,371	0.77	1,055	5,202	4,006	2,951	0
Strasburg STP	VA0020311	VAN010102	500	0.98	895	0.77	689	4,127	3,178	2,489	--
VA Poultry Growers Cooperative-Hinton	VA0002313	VAN010009	500	1.5	1,371	0.77	1,055	1,489	1,147	92	--
Stoney Creek S.D. STP	VA0028380	VAN010015	500	0.6	667	0.77	514	787	606	92	--
Merck (Outfall 101) ^A	VA0002178	VAN010007	500	1.2	4,384	0.77	3,376	2,442	1,880	0	0
Boyce STP	VA0085171	VAN010107	500	0.099	381	0.77	293	13	10	-283	--
Berryville STP	VA0020532	VAN010040	500	0.7	640	0.77	492	203	156	-336	--
FCW&SA-Vint Hill WWTF	VA0020460	VAN010020	500	0.95	868	0.44	382	97	43	-339	--
Mt. Jackson STP	VA0026441	VAN010012	500	0.7	640	0.77	492	139	107	-385	--
USNSWC-Dahlgren WWTF	VA0021067	VAN010041	500	0.72	658	1.00	658	259	259	-399	--
Round Hill WWTP	VA0026212	VAN010093	500	0.75	685	0.77	528	75	58	-470	--
Middleburg WWTP	VA0024775	VAN010120	500	0.25	1,066	0.77	821	179	138	-683	--
Alma Plant	VA0001961	VAN010008	500	1	914	0.77	704	0	0	-704	--
Invista-Waynesboro (Outfall 101)	VA0002160	VAN010050	500	1.44	1,009	0.77	777	89	69	-708	--
King George Co - Potomac River Aggregate	--	VAN010060	500	--	--	--	1,207		485	-722	--
Dahlgren S.D. WWTP	VA0026514	--	501	1	914	1.00		357			
Purkins Corner WWTP	VA0070106	--	502	0.12	110	1.00		32			
Fairview Beach STP	VA0092134	--	503	0.2	183	1.00		96			
Georges Chicken	VA0077402	VAN010011	500	1.7	1,553	0.77	1,196	609	469	-727	--
Purcellville-Basham Simms WWTF	VA0022802	VAN010016	500	1.5	1,371	0.77	1,056	285	219	-837	--
Luray STP	VA0062642	VAN010006	500	1.6	1,462	0.77	1,126	366	282	-844	--
USMC-Quantico Mainside WWTF	VA0028363	VAN010043	500	2.2	1,206	1.00	1,206	172	172	-1,034	--
Town of Broadway Regional WWTF	VA0090263	VAN010062	500	2.932	2,211	0.77	1,703	764	588	-1,115	--
Lovettsville WWTP	VA0023183	VAN010129	500	0.375	1,903	0.77	1,465	436	336	-1,129	--
Middletown STP	VA0020982	VAN010121	500	0.4	1,903	0.77	1,465	382	294	-1,171	--
Woodstock STP	VA0026468	VAN010094	500	2	1,827	0.77	1,407	158	122	-1,285	--
Colonial Beach STP	VA0026409	VAN010099	500	2	1,827	1.00	1,827	315	315	-1,512	--
MillerCoors LLC	VA0073245	VAN010096	500	4.5	4,112	0.77	3,166	1,714	1,320	-1,846	--

2015 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)	2015 Discharged TP (lbs)	2015 Delivered TP (lbs)	2015 Delivered TP Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Waynesboro STP	VA0025151	VAN010098	500	6	3,655	0.77	2,814	734	565	-2,249	--
LCSA-Broad Run WRF	VA0091383	VAN010017	500	11	3,350	0.77	2,580	391	301	-2,279	--
Stafford Co-Aquia WWTP	VA0060968	VAN010023	500	8	4,386	1.00	4,386	1,481	1,481	-2,905	--
Dale Service Corporation Aggregate	--	VAN010058	500	--	--	--	5,044		1,430	-3,614	--
DSC Section #1 WWTF	VA0024724	--	501	4.6	2,522	1.00		753			
DSC Section #8 WWTF	VA0024678	--	502	4.6	2,522	1.00		677			
Upper Occoquan S.A. WWTP	VA0024988	VAN010019	500	54	16,446	0.44	7,236	5,454	2,400	-4,836	--
Leesburg WPCF	VA0092282	VAN010061	500	10	9,137	0.77	7,035	2,713	2,089	-4,946	1,759
HRRSA-North River WWTF	VA0060640	VAN010042	500	22	19,004	0.77	14,633	9,501	7,316	-7,317	--
Frederick-Winchester SA Aggregate	--	VAN010057	500	--	--	--	12,382		3,816	-8,566	--
Opequon WRF	VA0065552	--	501	12.6	11,512	0.77		2,970			
Parkins Mills WWTP	VA0075191	--	502	5.0	4,568	0.77		1,986			
Augusta Co. Service Authority Aggregate	--	VAN010092	500	--		--	14,281		4,571	-9,710	--
Fishersville STP	VA0025291	--	501	4.0	3,655	0.77		632			
Stuarts Draft WWT	VA0066877	--	502	4.0	3,655	0.77		371			
Middle River Regional STP	VA0064793	--	503	6.8	6,213	0.77		1,105			
Weyers Cave STP	VA0022349	--	504	0.5	457	0.77		1,664			
Greenville STP	VA0090417	--	505	0.25	1,903	0.77		689			
Mt. Sidney STP	VA0022322	--	506	0.15	1,142	0.77		789			
Vesper View STP	VA0067962	--	507	0.1	761	0.77		422			
Harriston STP	VA0027901	--	508	0.1	761	0.77		262			
PWCSA-H.L. Mooney WWTF	VA0025101	VAN010018	500	24	13,157	1.00	13,157	2,294	2,294	-10,863	--
Arlington Co. WPCF	VA0025143	VAN010021	500	40	21,928	1.00	21,928	2,798	2,798	-19,130	--
Alexandria S.A. WWTP	VA0025160	VAN010059	500	54	29,603	1.00	29,603	8,231	8,231	-21,372	--
Fairfax Co.-Noman-Cole PCF	VA0025364	VAN010022	500	67	36,729	1.00	36,729	5,615	5,615	-31,114	--
Totals							199,413	55,158	-142,759	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 6,086 delivered lbs of TN credits and 1036 delivered lbs of TP credits for 2015.

2015 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)	2015 Discharged TN (lbs)	2015 Delivered TN (lbs)	2015 Delivered TN Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Fredericksburg WWTF	VA0025127	VAN020095	500	3.5	54,820	1.00	54,820	89,745	89,745	34,925	--
Urbanna WWTP	VA0026263	VAN020034	500	0.1	1,218	1.00	1,218	4,685	4,685	3,467	--
Montross-Westmoreland WWTP	VA0072729	VAN020032	500	0.13	1,584	1.00	1,584	4,498	4,498	2,914	--
Reedville S.D. WWTP	VA0060712	VAN020101	500	0.2	2,436	1.00	2,436	2,820	2,820	384	--
US Army -Ft. A.P. Hill WWTP	VA0032034	VAN020035	500	0.53	6,457	1.00	6,457	6,446	6,446	-11	--
Camp Red Arrow WWTF	VA0092452	VAN020162	500	0.0055	78	0.61	48	54	33	-15	
Rush River	VA0091651	VAN020108	500	0.06	1,462	0.61	892	249	152	-740	--
Haynesville Correctional Ctr. WWTP	VA0023469	VAN020044	500	0.23	2,802	1.00	2,802	1,390	1,390	-1,412	633
Warsaw STP	VA0026891	VAN020036	500	0.3	3,655	1.00	3,655	1,438	1,438	-2,217	--
King George Co – Nutrient Aggregate		VAN020056	500	--	--	--	7,797		5,305	-2,492	1,523
Oakland Park STP	VA0086789	--	501	0.14	1706	1.00		3,270			
Hopyard Farms WWTF	VA0089338	--	502	0.5	6091	1.00		2,035			
Rapidan STP	VA0090948	VAN020026	500	0.6	7,309	0.61	4,459	2,724	1,662	-2,797	--
Kilmarnock WWTP	VA0020788	VAN020038	500	0.5	6,091	1.00	6,091	3,141	3,141	-2,950	--
Wilderness Shores WWTP	VA0083411	VAN020029	500	1.25	15,228	0.61	9,289	4,554	2,778	-6,511	--
Haymount WWTF	VA0089125	VAN020030	500	0.58	7,066	1.00	7,066	0	0	-7,066	7,066
Culpeper County Nutrient Aggregate	--	VAN020054	500	--	--	--	7,509		370	-7,139	--
Greens Corner WWTP	VA0092002	--	503	--	0	0.61		0			
Clevengers Village WWTP	VA0080527	--	505	0.90	10,964	0.61		443			
Airpark WWTP	VA0068586	--	506	0.025	1346	0.61		85			
Warrenton STP	VA0021172	VAN020028	500	2.5	30,456	0.61	18,578	18,598	11,345	-7,233	--
Tappahannock WWTP	VA0071471	VAN020033	500	0.8	9,746	1.00	9,746	2,209	2,209	-7,537	--
Fauquier Co. WSA Nutrient Aggregate	--	VAN020053	500	--	--	--	19,618		6,012	-13,606	--
Remington WWTP	VA0076805	--	501	2	24,364	0.61		6,436			
Marshall WWTP	VA0031763	--	502	0.64	7,797	0.61		3,420			
Orange STP	VA0021385	VAN020025	500	3	36,547	0.61	22,293	6,129	3,739	-18,554	--
Omega Protein	VA0003867	VAN020037	500	3.21	21,213	1.00	21,213	2,271	2,271	-18,942	--
Culpeper WWTP	VA0061590	VAN020024	500	6.0	73,093	0.61	44,587	9,175	5,597	-38,990	--
Spotsylvania Co. Nutrient Aggregate	--	VAN020055	500	--	--	--	163,242		116,202	-47,040	--
FMC WWTF	VA0068110	--	501	4	48,737	1.00		45,811			
Massaponax WWTF	VA0025658	--	502	8	114,505	1.00		70,391			
Stafford Co.-Little Falls Run WWTF	VA0076392	VAN020031	500	8	97458	1.00	97,458	46,378	46,378	-51,080	--
Totals							512,858		318,215	-194,643	9,222

2015 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)	TP Delivery Factor	Delivered TP Wasteload Allocation (lbs/yr)	2015 Discharged TP (lbs)	2015 Delivered TP (lbs)	2015 Delivered TP Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Urbanna WWTP	VA0026263	VAN020034	500	0.1	91	1.00	91	719	719	628	--
Reedville S.D. WWTP	VA0060712	VAN020101	500	0.2	183	1.00	183	742	742	559	--
Fredericksburg WWTF	VA0025127	VAN020095	500	3.5	4,112	1.00	4,112	4,316	4,316	204	--
Montross-Westmoreland WWTP	VA0072729	VAN020032	500	0.13	119	1.00	119	224	224	105	--
Camp Red Arrow WWTF	VA0092452	VAN020162	500	0.0055	10	1.00	10	6	6	-4	
King George Co. Nutrient Aggregate	--	VAN020056	500	--	--	1.00	585		485	-100	100
Oakland Park STP	VA0086789	--	501	0.14	128	1.00		99			
Hopyard Farms WWTF	VA0089338	--	502	0.5	457	1.00		386			
Haynesville Correctional Ctr. WWTP	VA0023469	VAN020044	500	0.23	210	1.00	210	67	67	-143	47
Rush River	VA0091651	VAN020108	500	0.06	183	1.00	183	5	5	-178	--
Warsaw STP	VA0026891	VAN020036	500	0.3	274	1.00	274	58	58	-216	--
Kilmarnock WWTP	VA0020788	VAN020038	500	0.5	457	1.00	457	240	240	-217	--
Rapidan STP	VA0090948	VAN020026	500	0.6	548	1.00	548	321	321	-227	--
US Army -Ft. A.P. Hill WWTP	VA0032034	VAN020035	500	0.53	484	1.00	484	79	79	-405	--
Haymount WWTF	VA0089125	VAN020030	500	0.58	530	1.00	530	0	0	-530	530
Tappahannock WWTP	VA0071471	VAN020033	500	0.8	731	1.00	731	54	54	-677	--
Wilderness Shores WWTP	VA0083411	VAN020029	500	1.25	1,142	1.00	1,142	238	238	-904	--
Culpeper County Nutrient Aggregate	--	VAN020054	500	--	--	--	1,002		24	-979	--
Greens Corner WWTP	VA0092002	--	503	--	0	1.00		0			
Clevengers Village WWTP	VA0080527	--	505	0.90	822	1.00		14			
Airpark WWTP	VA0068586	--	506	0.025	180	1.00		8			
Warrenton STP	VA0021172	VAN020028	500	2.5	2,284	1.00	2,284	1,072	1,072	-1,212	--
Omega Protein	VA0003867	VAN020037	500	3.21	1,591	1.00	1,591	16	16	-1,575	--
Fauquier Co. WSA Nutrient Aggregate	--	VAN020053	500	--	--	1.00	2,412		443	-1,969	--
Remington WWTP	VA0076805	--	501	2	1,827	1.00		251			
Marshall WWTP	VA0031763	--	502	0.64	585	1.00		192			
Orange STP	VA0021385	VAN020025	500	3	2,741	1.00	2,741	393	393	-2,348	--
Stafford Co.-Little Falls Run WWTF	VA0076392	VAN020031	500	8	7,309	1.00	7,309	2,439	2,439	-4,870	--
Culpeper WWTP	VA0061590	VAN020024	500	6	5,483	1.00	5,483	494	494	-4,989	--
Spotsylvania Co. Nutrient Aggregate	--	VAN020055	500	--	--	1.00	12,060		6,540	-5,520	--
FMC WWTF	VA0068110	--	501	5.4	3,655	1.00		1,201			
Massaponax WWTF	VA0025658	--	502	8	8,405	1.00		5,339			
Totals							44,541	18,975	-25,567	677	

2015 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)	2015 Discharged TN (lbs)	2015 Delivered TN (lbs)	2015 Delivered TN Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Gordonsville STP	VA0021105	VAN030046	500	0.94	17,177	0.01	172	1,722	17	-155	50
Shenandoah Crossing STP	VA0076678	VAN030119	500	0.1	2,848	0.51	1,452	228	116	-1,336	--
Land Or Utility	VA0060887	VAN030110	500	0.22	5,695	0.42	2,392	2,161	908	-1,484	--
Caroline Co. Regional STP	VA0073504	VAN030045	500	0.5	9,137	0.42	3,837	2,773	1,165	-2,672	--
WestRock CP LLC - West Point	VA0003115	VAN030049	500	23	259,177	1.00	259,177	248,607	248,607	-10,570	--
Bear Island Paper Company	VA0029521	VAN030133	500	4.2	47,328	0.51	24,137	25,934	13,226	-10,911	--
Parham Landing WWTP	VA0088331	VAN030048	500	2.0	36,547	1.00	36,547	2,800	2,800	-33,747	--
HRSD York River Aggregate	--	VAN030052	500	--	--	--	288,315		251,080	-37,235	--
York River STP	VA0081311	--	501	15	275,927	1.00		230,555			
West Point STP	VA0075434	--	502	0.6	10,964	1.00		20,418			
King William STP	VA0088102	--	504	0.025	1424	1.00		107			
Hanover County Aggregate	--	VAN030051	500	--	--	--	210,692		74,798	-135,894	54,820
Ashland WWTP	VA0024899	--	501	2	36,547	0.51		34,556			
Doswell WWTP (1)	VA0029521	--	502	1	18,273	0.51		15,291			
Totopotomoy WWTP	VA0089915	--	503	10	182,734	1.00		49,376			
Plains Marketing LP Yorktown	VA0003018	VAN030047	500	53.8	167,128	1.00	167,128	16	16	-167,112	--
Totals							993,849		592,733	-401,116	54,870

2015 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)	2015 Discharged TP (lbs)	2015 Delivered TP (lbs)	2015 Delivered TP Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Shenandoah Crossing STP	VA0076678	VAN030119	500	0.1	381	0.60	229	36	22	-207	--
Land Or Utility	VA0060887	VAN030110	500	0.22	761	0.45	343	89	40	-303	--
Caroline Co. Regional STP	VA0073504	VAN030045	500	0.5	1,066	0.44	469	155	68	-401	--
Gordonsville STP	VA0021105	VAN030046	500	0.94	2,004	0.60	1,202	650	390	-812	349
Parham Landing WWTP	VA0088331	VAN030048	500	2.0	4,264	1.00	4,264	157	157	-4,107	--
Bear Island Paper Company	VA0029521	VAN030133	500	4.2	12,791	0.60	7,675	3,830	2,298	-5,377	--
HRSD York River Aggregate	--	VAN030052	500	--	--	--	33,660		22,432	-11,228	--
York River STP	VA0081311	--	501	15	31,978	1.00		19,018			
West Point STP	VA0075434	--	502	0.6	1,279	1.00		3,407			
King William STP	VA0088102	--	504	0.025	190	1.00		7			
WestRock CP LLC- West Point	VA0003115	VAN030049	500	23	56,038	1.00	56,038	42,088	42,088	-13,950	--
Hanover County Aggregate	--	VAN030051	500	--	--	--	25,156		5,152	-20,004	6,396
Ashland WWTP	VA0024899	--	501	2	4,264	0.60		5,680			
Doswell WWTP (1)	VA0029521	--	502	1	2,132	0.60		1,466			
Totopotomoy WWTP	VA0089915	--	503	10	21,319	1.00		864			
Plains Marketing LP Yorktown	VA0003018	VAN030047	500	53.8	22,111	1.00	22,111	3	3	-22,108	--
Totals							151,147		72,650	-78,497	6,745

2015 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)	2015 Discharged TN (lbs)	2015 Delivered TN (lbs)	2015 Delivered TN Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Upper/Middle James											
Richmond WWTP	VA0063177	VAN040085	500	45	1,093,652	1.00	1,093,652	1,265,843	1,265,843	172,191	--
So. Central Wastewater Authority WWTF	VA0025437	VAN040087	500	23	350,239	1.00	350,239	441,022	441,022	90,783	--
Hopewell RWTF	VA0066630	VAN040083	500	50	1,827,336	1.00	1,827,336	1,887,328	1,887,328	59,992	--
Lake Monticello STP	VA0024945	VAN040074	500	1	18,182	0.61	11,091	71,889	43,852	32,761	0
Greif Inc.	VA0006408	VAN040073	500	6.5	73,246	0.61	44,680	106,946	65,237	20,557	--
Covington STP	VA0025542	VAN040065	500	3	54,820	0.30	16,446	80,231	24,069	7,623	--
Buena Vista STP	VA0020991	VAN040063	500	2.25	41,115	0.30	12,335	49,681	14,904	2,569	--
E. I. DuPont-Spruance	VA0004669	VAN040079	500	23.33	201,080	1.00	201,080	203,530	203,530	2,450	--
Crewe WWTP	VA0020303	VAN040100	500	0.5	9,137	0.38	3,472	2,809	1,067	-2,405	--
Amherst-Rutledge Creek WWTP	VA0031321	VAN040071	500	0.6	10,964	0.61	6,688	2,864	1,747	-4,941	--
Powhatan Correctional Center STP	VA0020699	VAN040077	500	0.47	8,588	0.80	6,871	1,962	1,570	-5,301	--
Tyson Foods-Glen Allen	VA0004031	VAN040089	500	1.07	19,552	1.00	19,552	12,759	12,759	-6,793	--
Mohawk Industries, Inc.	VA0004677	VAN040067	500	2	30,456	0.30	9,137	3,129	939	-8,198	--
Farmville WWTP	VA0083135	VAN040097	500	2.4	43,856	0.38	16,665	16,477	6,261	-10,404	--
Lex.-Rock. Regional WQCF	VA0088161	VAN040068	500	3	54,820	0.30	16,446	7,992	2,398	-14,048	--
GP Big Island LLC	VA0003026	VAN040066	500	10.87	122,489	0.30	36,747	69,942	20,983	-15,764	--
WestRock Virginia Corporation- Covington	VA0003646	VAN040070	500	35	394,400	0.30	118,320	339,200	101,760	-16,560	--
Alleghany County Aggregate	--	VAN040069	500	--	--	--	21,928		4,983	-16,945	4,934
Low Moor WWTP	VA0027979	--	501	0.5	9,137	0.30		2,004			
Lower Jackson River WWTP	VA0090671	--	502	1.5	63,957	0.30		14,606			
The Sustainability Park LLC (001)	VA0002780	VAN040078	500	2.1	25,583	1.00	25,583	1,227	1,227	-24,356	--
BWX Technologies, Inc.	VA0003697	VAN040072	500	1	187,000	0.61	114,070	137,836	84,080	-29,990	--
Philip Morris USA-Park 500	VA0026557	VAN040084	500	2.9	139,724	1.00	139,724	34,527	34,527	-105,197	--
RWSA-Moores Creek Regional STP	VA0025518	VAN040076	500	15	282,831	0.61	172,527	44,840	27,352	-145,175	--
Lynchburg STP	VA0024970	VAN040075	500	22	536,019	0.61	326,971	225,151	137,342	-189,629	--
Chesterfield County Aggregate	--	VAN040080	500	--	--	--	564,952		337,663	-227,289	
Falling Creek WWTP	VA0024996	--	501	10.1	153,801	1.00		122,747			
Proctors Creek WWTP	VA0060194	--	502	27	411,151	1.00		214,916			
Dominion-Chesterfield	VA0004146	VAN040086	500	--	352,036	1.00	352,036	55,949	55,949	-296,087	--
Honeywell-Hopewell	VA0005291	VAN040082	500	121	1,090,798	1.00	1,090,798	767,200	767,200	-323,598	--
Henrico Co. WWTP	VA0063690	VAN040081	500	75	1,142,085	1.00	1,142,085	477,797	477,797	-664,288	--
Upper/Middle James Subtotals							6,647,779	4,757,547	4,757,547	-1,890,232	4,934

2015 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 Deliver y Factor	Delivered TN Wasteload Allocation (lbs/yr)	2015 Discharged TN (lbs)	2015 Delivered TN (lbs)	2015 Delivered TN Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Lower James											
Lawnes Point WWTP (4)	VA0091952	VAN040117	500	0.05	0	1.00	0	0	0	0	0
J.H. Miles & Co.(4)	VA0003263	VAN040091	500	0.35	153,500	1.00	153,500	14,839	14,839	-138,661	--
HRSD James River Aggregate	--	VAN040090	500	--	--	--	6,000,000		4,492,891	-1,507,109	--
Boat Harbor STP (3)(4)	VA0081256	--	501	25	740,000	1.00		762,189			
James River STP (3)(4)	VA0081272	--	502	20	1,250,000	1.00		247,533			
Williamsburg STP (3)(4)	VA0081302	--	503	22.5	800,000	1.00		172,094			
Nansemond STP (3)(4)	VA0081299	--	504	30	750,000	1.00		387,240			
Army Base STP (3)(4)	VA0081230	--	505	18	610,000	1.00		512,980			
Virginia Initiative STP (3)(4)	VA0081281	--	506	40	750,000	1.00		873,834			
Chesapeake-Elizabeth STP (3)(4)	VA0081264	--	507	24	1,100,000	1.00		1,537,021			
					Lower James Subtotals		6,153,500		4,507,730	-1,645,770	0
					James River Basin Total		12,801,279		9,265,277	-3,536,002	4,934

2015 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)	2015 Discharged TP (lbs)	2015 Delivered TP (lbs)	2015 Delivered TP Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Upper/Middle James											
E. I. DuPont-Spruance	VA0004669	VAN040079	500	23.33	7,816	1.00	7,816	16,582	16,582	8,766	--
Buena Vista STP	VA0020991	VAN040063	500	2.25	3,426	1.00	3,426	7,043	7,043	3,617	--
Lake Monticello STP	VA0024945	VAN040074	500	1	1,515	1.00	1,515	4,921	4,921	3,406	0
Dominion-Chesterfield	VA0004146	VAN040086	500	--	210	1.00	210	2,146	2,146	1,936	--
Tyson Foods-Glen Allen	VA0004031	VAN040089	500	1.07	409	1.00	409	258	258	-151	--
Crewe WWTP	VA0020303	VAN040100	500	0.5	761	0.43	327	104	45	-282	--
Amherst-Rutledge Creek WWTP	VA0031321	VAN040071	500	0.6	914	1.00	914	488	488	-426	--
Powhatan Corr. Center STP	VA0020699	VAN040077	500	0.47	716	1.00	716	360	360	-356	--
Philip Morris USA-Park 500	VA0026557	VAN040084	500	2.9	2,650	1.00	2,650	1,677	1,677	-973	--
Farmville WWTP	VA0083135	VAN040097	500	2.4	3,655	0.43	1,572	642	276	-1,296	--
BWX Technologies, Inc.	VA0003697	VAN040072	500	1	1,523	1.00	1,523	449	449	-1,074	--
The Sustainability Park LLC (001)	VA0002780	VAN040078	500	2.1	1,919	1.00	1,919	403	403	-1,516	--
Covington STP	VA0025542	VAN040065	500	3	4,568	1.00	4,568	2,337	2,337	-2,231	--
Lex.-Rock. Regional WQCF	VA0088161	VAN040068	500	3	4,568	1.00	4,568	593	593	-3,975	--
Alleghany County Aggregate	--	VAN040069	500	--	--	--	6,091		1,308	-4,783	1,371
Low Moor WWTP	VA0027979	--	501	0.5	761	1.00		882			
Lower Jackson River WWTP	VA0090671	--	502	1.5	5,330	1.00		426			
So. Central Wastewater Authority WWTF	VA0025437	VAN040087	500	23	35,024	1.00	35,024	30,153	30,153	-4,871	--
Mohawk Industries, Inc.	VA0004677	VAN040067	500	2	12,182	1.00	12,182	136	136	-12,046	--
RWSA-Moores Creek Regional STP	VA0025518	VAN040076	500	15	23,895	1.00	23,895	9,639	9,639	-14,256	--
Lynchburg STP	VA0024970	VAN040075	500	22	33,501	1.00	33,501	18,379	18,379	-15,122	--
Hopewell RWTF	VA0066630	VAN040083	500	50	76,139	1.00	76,139	60,461	60,461	-15,678	--
Greif Inc.	VA0006408	VAN040073	500	6.5	29,694	1.00	29,694	11,112	11,112	-18,582	--
Honeywell-Hopewell	VA0005291	VAN040082	500	121	51,592	1.00	51,592	28,233	28,233	-23,359	--
Chesterfield County Aggregate	--	VAN040080	500	--	--	--	56,495		30,303	-26,192	--
Falling Creek WWTP	VA0024996	--	501	10.1	15,380	1.00		12,445			
Proctors Creek WWTP	VA0060194	--	502	27	41,115	1.00		17,858			
Richmond WWTP	VA0063177	VAN040085	500	45	68,250	1.00	68,250	35,896	35,896	-32,354	--
GP Big Island LLC	VA0003026	VAN040066	500	10.87	49,658	1.00	49,658	13,201	13,201	-36,457	--
Henrico Co. WWTP	VA0063690	VAN040081	500	75	114,209	1.00	114,209	20,906	20,906	-93,303	--
WestRock Virginia Corporation- Covington	VA0003646	VAN040070	500	35	159,892	1.00	159,892	56,750	56,750	-103,142	--
Upper/Middle James Subtotals							748,755	354,055	-394,700	1,371	

2015 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)	2015 Discharged TP (lbs)	2015 Delivered TP (lbs)	2015 Delivered TP Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Lower James											
Lawnes Point WWTP (3)	VA0091952	VAN040117	500	0.05	0	1.00	0	0	0	0	--
G. Robert House, Jr. WTP (3)	VA0076473	VAN040127	500	--	12,739	1.00	12,739	6,042	6,042	-6,697	--
J.H. Miles & Co.(3)	VA0003263	VAN040091	500	0.35	21,500	1.00	21,500	4,705	4,705	-16,795	--
HRSD James River Aggregate	--	VAN040090	500	--	--	--	373,247		304,135	-69,112	
Boat Harbor STP (3)	VA0081256	--	501	25	53,239	1.00		26,531			
James River STP (3)	VA0081272	--	502	20	42,591	1.00		26,220			
Williamsburg STP (3)	VA0081302	--	503	22.5	47,915	1.00		26,406			
Nansemond STP (3)	VA0081299	--	504	30	63,887	1.00		59,921			
Army Base STP (3)	VA0081230	--	505	18	38,332	1.00		25,775			
Virginia Initiative STP (3)	VA0081281	--	506	40	85,183	1.00		88,004			
Chesapeake-Elizabeth STP (3)	VA0081264	--	507	24	51,110	1.00		51,278			
Lower James Subtotal							407,486		314,882	-92,604	0
James River Basin Total							1,156,241		668,937	-487,304	1,371

2015 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)	2015 Discharged TN (lbs)	2015 Delivered TN (lbs)	2015 Delivered TN Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Tangier Island WWTP	VA0067423	VAN050004	500	0.1	1,218	1.00	1,218	1,615	1,615	397	--
Shore Memorial Hospital	VA0027537	VAN050003	500	0.1	1,218	1.00	1,218	2,609	2,609	1,391	--
Cape Charles WWTP	VA0021288	VAN050001	500	0.25	3,046	1.00	3,046	1,232	1,232	-1,814	--
Onancock WWTP	VA0021253	VAN050002	500	0.75	9,137	1.00	9,137	1,537	1,537	-7,600	--
Tyson Foods-Temperanceville	VA0004049	VAN050005	500	1.25	22,842	1.00	22,842	6,716	6,716	-16,126	--
Totals							37,461	13,709	13,709	-23,752	0

2015 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)	2015 Discharged TP (lbs)	2015 Delivered TP (lbs)	2015 Delivered TP Exceedance/ (Credit) (lbs)	WQIF Held Credits (lbs)
Tangier Island WWTP	VA0067423	VAN050004	500	0.1	91	1.00	91	272	272	181	--
Shore Memorial Hospital	VA0027537	VAN050003	500	0.1	91	1.00	91	123	123	32	--
Cape Charles WWTP	VA0021288	VAN050001	500	0.25	228	1.00	228	227	227	-1	--
Onancock WWTP	VA0021253	VAN050002	500	0.75	685	1.00	685	59	59	-626	--
Tyson Foods-Temperanceville	VA0004049	VAN050005	500	1.25	1,142	1.00	1,142	360	360	-782	--
Totals								2,237	1,041	-1,196	0