



Bay Restoration Fund

Wastewater Treatment Facilities Upgrades Impact on Growth

Maryland Department of the Environment
Maryland Department of Planning
Submitted January 27, 2026
Maryland General Assembly
Reporting Period Fiscal Year 2025



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Purpose

Chapter 257 (HB 893) of 2007 - *Bay Restoration Fund - Wastewater Treatment Facilities Upgrades - Reporting Requirements* requires that “Beginning January 1, 2009, and every year thereafter, MDE and Planning shall jointly report on the impact that a wastewater treatment facility that was upgraded to enhanced nutrient removal during the calendar year before the previous calendar year with funds from the Bay Restoration Fund had on growth within the municipality or county in which the wastewater treatment facility is located.”

As required by this law, Planning and MDE have advised the BRFAC with the best available information and data analysis to address this mandate.

Available Capacity

This report addresses the following funded facilities that were upgraded to ENR with BRF, and completed prior to January 1, 2024, and operational for one full calendar year:

Facility	County	Design Capacity (MGD)		Flow in CY24 (MGD)
		Original	At Upgrade	
John J. Difonzo	Allegany	15	15	9.850
George’s Creek	Allegany	0.6	0.6	0.847
North Branch	Allegany	2	2	1.353
Annapolis	Anne Arundel	13	13	8.146
Broadneck	Anne Arundel	6	6	3.908
Broadwater	Anne Arundel	2	2	0.917
Cox Creek	Anne Arundel	15	15	10.526
Maryland City	Anne Arundel	2.5	2.5	1.528
Patuxent	Anne Arundel	7.5	7.5	5.791
Back River	Baltimore City	180	180	134.8
Patapsco	Baltimore City	73	81	50.7
Chesapeake Beach	Calvert	1.32	1.5	0.644
Denton	Caroline	0.8	0.8	0.5
Federalburg	Caroline	0.75	0.75	0.29
Greensboro	Caroline	0.28	0.332	0.193
Preston	Caroline	0.115	0.115	0.066
Freedom District	Carroll	3.5	3.5	2.05
Hampstead	Carroll	0.9	0.9	0.31
Mount Airy	Carroll	1.2	1.2	0.712
Taneytown	Carroll	1.1	1.1	0.878
Westminster	Carroll	5	5	4.153
Chesapeake City	Cecil	0.163	0.2	0.112
Elkton	Cecil	2.7	3.05	1.83
Harbour View	Cecil	.065	.065	0.02

Facility	County	Design Capacity (MGD)		Flow in CY24 (MGD)
		Original	At Upgrade	
Northeast River	Cecil	2	2	1.262
Perryville	Cecil	1.65	2	0.77
Port Deposit	Cecil	0.15	0.15	0.1
Rising Sun	Cecil	0.275	0.5	0.247
Indian Head	Charles	0.5	0.5	0.432
La Plata	Charles	1.5	1.5	1.22
Cambridge	Dorchester	8.1	8.1	3.228
Hurlock	Dorchester	2	1.65	1.337
Ballenger Creek	Frederick	6	15	7.65
Brunswick	Frederick	0.7	1.4	0.522
Emmitsburg	Frederick	0.75	0.75	0.54
Frederick	Frederick	8	8	6.274
Thurmont	Frederick	1	1	0.647
Victor Cullen	Frederick	0.05	0.05	0.005
Aberdeen	Harford	4	4	1.69
Havre De Grace	Harford	1.89	3.03	1.721
Joppatowne	Harford	0.95	0.95	0.749
Sod Run	Harford	20	20	10.206
Little Patuxent	Howard	25	29	18.66
Betterton	Kent	0.2	0.146	0.026
Chestertown	Kent	0.9	0.9	0.688
Galena	Kent	0.08	0.11	0.023
Damascus (WSSC)	Montgomery	1.5	1.5	0.876
Poolesville	Montgomery	0.75	0.75	0.55
Seneca (WSSC)	Montgomery	26	26	14.609
Blue Plains	Regional	169.6	169.6	127.55
Bowie	Princes George's	3.3	3.3	1.48
Parkway (WSSC)	Prince George's	7.5	7.5	6.554
Piscataway (WSSC)	Prince George's	30	30	21.419
Western Branch (WSSC)	Prince George's	30	30	23.18
Kent Narrows	Queen Anne's	2	3	2.54
Queenstown	Queen Anne's	0.085	0.2	0.086
Sudlersville	Queen Anne's	0.20	0.2	0.122
Crisfield	Somerset	1	1	0.79
Leonardtown	St. Mary's	0.68	0.68	0.67
Marlay Taylor	St. Mary's	6	6	3.26
Easton	Talbot	2.35	4	2.381
Oxford	Talbot	0.15	0.15	0.121
Talbot Region II	Talbot	0.5	0.66	0.32
Boonsboro	Washington	0.46	0.53	0.356
Conococheague	Washington	4.1	4.5	2.5

Facility	County	Design Capacity (MGD)		Flow in CY24 (MGD)
		Original	At Upgrade	
Hagerstown	Washington	8	8	6.15
MCI	Washington	1.6	1.6	0.692
Winebrenner	Washington	1	0.6	0.188
Delmar	Wicomico	0.65	0.85	0.687
Fruitland	Wicomico	0.8	0.8	0.562
Salisbury	Wicomico	6.8	8.5	5.5
Pocomoke City	Worcester	1.47	1.47	0.663
Snow Hill	Worcester	0.5	0.5	0.35

2025 BRF Analysis Findings

Methodology

MDP conducts a BRF analysis for each calendar year (CY) as directed by Chapter 257 (HB 893) of the 2007 - *Bay Restoration Fund - Wastewater Treatment Facilities Upgrades - Reporting Requirements*. The purpose is to provide the BRAC and legislature with information on the impact that ENR-upgraded WWTPs may have on growth in the municipalities and counties in which the facility is located.

Growth is measured before and after ENR upgrades within existing sewer service area boundaries and PFAs using Geographical Information System (GIS) mapping software. These findings help assess changes in growth patterns, the capacity of the upgraded facility to meet the demands of current and future users, and possible changes in development patterns that may be influenced by upgrades.

MDP works with every county and many municipalities to maintain and annually update the Statewide Sewer Service Data layer to ensure as accurate a representation as possible. MDP has successfully conducted a BRF analysis each year since 2009 by utilizing the most recently published data from Maryland Property View and MDP's Sewer Service Data layers. It should be noted that data for each of these datasets affects the annual findings. MDP is committed to continuous improvement to its processes as important factors contributing to the state's overarching goal of restoring water quality in the Chesapeake Bay.

Available Capacity

An ENR upgrade can create the possibility for capacity expansion beyond the capacity of the original design. However, the limitations of the WWTP nutrient discharge caps established by Maryland's Point Source Policy for the Bay¹ heavily influence whether such

¹ Annual nutrient load caps for major WWTPs were based on an annual average concentration of 3 mg/l total nitrogen and 0.3 mg/l total phosphorus, at the approved design capacity of the plant. Design capacity for major WWTPs met both of the following two conditions: (1) A discharge permit was issued based on the

expansion is realized, notwithstanding new treatment technologies, or the use of multiple means of discharge, or wastewater reuse. As required by state regulations that guide county water and sewer plans, to date, all ENR upgrades and plant expansions have been found to be consistent with locally adopted and approved comprehensive plans. Our analyses show that the nutrient discharge caps following the ENR upgrades have not had any notable compromising effects on development.

MDP's Findings

For this year's reporting period, MDP reviewed development served by 74 major and minor WWTPs with ENR upgrades completed within the timeframe specified in Chapter 257 (HB 893) of 2007 - *Bay Restoration Fund - Wastewater Treatment Facilities Upgrades - Reporting Requirements*. The selection of ENR upgrades to be analyzed in this annual report is based on the following criteria: (1) ENR upgrades completed before January 1, 2024, and (2) have been operational for one calendar year. Four new ENR WWTP upgrades are included in this year's report: one major WWTP in Westminster (Carroll County), which became operational on 7/1/2023; and three minor WWTPs, including: Chesapeake City (Cecil County) which became operational on 8/1/2023; Harbour View (Cecil County) became operational on 12/31/2023; and Victor Cullen (Frederick County) became operational on 6/1/2023. Table 1 (Attachment 1) summarizes the ENR upgrades that are completed, operational, and meet the criteria.

Table 1 depicts growth activity by the number of connections before and after an ENR upgrade. The starting point for each plant's reporting is the CY prior to the start of ENR funding; the year in which the ENR upgrade was completed and became operational is included. The number of connections before ENR funding and the current number of connections, which includes connections to new development on sewer as well as connections of existing septic systems to sewer, is summarized for each WWTP. Existing sewer service area boundaries are depicted as "S1" in Table 1 and are typically defined by counties as areas where a sewer system is existing, the system is under construction, or an area that is in the final planning stages and service is anticipated to begin within two years.

The table compares development in and outside PFAs (see Columns D, G, and K). BRF funding is not restricted to PFAs, but PFAs provide a useful geographic frame of reference for reviewing possible effects of BRF upgrades on growth as required by law.

Table 1 distinguishes new ENR upgrades since the last reporting period. Columns J and K in the table show the difference between last year's data and this year's data. This indicates how many improved parcels were connected within each sewershed and how many improved parcels within the PFA were connected in the sewershed within the last year.

MDP's analysis shows the Blue Plains WWTP has had the largest total increase of

plant capacity, or MDE issued a letter to the jurisdiction with design effluent limits based on the new capacity as of April 30, 2003; (2) Planned capacity was either consistent with the MDE-approved County Water and Sewer Plan as of April 30, 2003, or shown in the locally-adopted Water and Sewer Plan Update or Amendment to the County Water and Sewer Plan, which was under review by MDE as of April 30, 2003 and subsequently approved by MDE.

connections since conversion to ENR (completed in 2015), with an increase of 10,928 connections (see Column I in Table 1). Overall, the Baltimore region had the largest regional increase of new connections since conversion of WWTPs to ENR with 39,844 total connections. Statewide, there was an increase of 10,866 additional improved parcels within “S1” (areas having existing sewerage) connected during this year’s reporting period. Overall, 82,809 improved parcels have been connected since WWTPs statewide have been upgraded to ENR.

Regarding connections to parcels within PFAs, MDP expresses concern about those WWTPs that have connected relatively few parcels within PFAs since being upgraded to ENR, compared to the majority of WWTPs. These WWTPs include: Western Branch in Prince George’s County (only 83.0 % of connected parcels within the PFA); Kent Island in Queen Anne’s County (85.1%), Talbot Region II in Talbot County (69.5%); Broadwater in Anne Arundel County (83.0%); and Chesapeake Beach in Calvert County (81.1%). The newly added WWTPs – Victor Cullen in Frederick County and Harbour View in Cecil County – both have zero parcels within PFAs.

State funding for WWTP improvements is not as effectively spent when it supports low density growth that consumes more farmland and forest land, compared to higher density growth supported by PFAs. It should be noted that, in some cases, connected parcels outside of a PFA may qualify under the requirements of the PFA law, but the local government may not have formally designated the area as a PFA. MDP notes that the Available Capacity table shows that design capacity will not increase for either the Victor Cullen or Harbour View WWTPs. This means that the ENR upgrade has not increased the potential for more dwelling units to be served by those facilities.

State-funded ENR upgrades did create the possibility for capacity expansion beyond their original design capacity at several WWTPs (Available Capacity table, Chapter 257 Implementation section). Some of those WWTPs that received a capacity expansion opportunity are serving a relatively low percentage of lots within Priority Funding Areas (PFAs). Although not currently required by law, MDP recommends that all lots receiving service from the new capacity obtained by those WWTPs be within PFAs, with the exception of existing homes previously served by septic systems.

According to MDP's State Data & Analysis Center, the state’s population is projected to grow by 1 million between 2020 and 2050. Optimizing the use of Maryland's land is critical as the population continues to grow while striving to minimize loss of remaining farm and forest lands. Land that qualifies as a PFA indicates that local planning and zoning support compact development and sustainable growth.

Although every effort is made to ensure data is current and correct, there can be significant increases or decreases of new connections from year-to-year. For example, the number of total improved parcels with existing sewer (Column F) may appear to decrease from one year to the next. However, the reason for the decrease may not be related to the number of improved parcels no longer having sewer connections, but rather adjustments in the MDProperty View data, the PFA layer, or the sewer layer. MDP evaluates many factors that play a part in source data and findings, and makes adjustments or corrections, where necessary. This year’s report used August 2025 Statewide Points and Polygons from MDProperty View data available on the MDP open data downloads site.

Table 1: Connections to Wastewater Treatment Facilities Upgraded to ENR

			Connections Before ENR Funding					Total Connections Upgraded since Conversion to ENR				Upgraded Connections Since Last Reporting Period	
ENR WWTP	County	ENR Upgrade Completed and Operational (Month-Year)	Column A: Reporting Year before ENR Funding	Column B: Number of Improved Parcels in the Sewer-shed	Column C: Number of Improved Parcels in Existing Service Area ("S1")	Column D: Number of Improved Parcels in "S1" within PFA	Column E: % of Connections Located in "S1" & PFA (Column D ÷ C)	Column F: Total Improved Parcels in Existing Service Area ("S1")	Column G: Total Improved Parcels in S1 & PFA	Column H: % Total Improved Parcels Located in "S1" within PFA (Column G ÷ F)	Column I: Total Increase Improved Parcels in S1 (Total Number New Connections)	Column J: Difference in Improved Parcels in S1	Column K: Difference in Improved Parcels in S1 & PFA
Western Region													
North Branch	ALLE	Nov-06	2005	1,913	1,801	1,794	99.6%	1,855	1,838	99.1%	54	6	6
Boonsboro	WASH	Oct-09	2008	1,350	1,139	1,137	99.8%	1,178	1,176	99.8%	39	4	4
George's Creek	ALLE	Nov-10	2009	2,069	1,938	1,876	96.8%	2,009	1,945	96.8%	71	0	-4
City of Cumberland	ALLE	Feb-11	2010	17,656	16,412	16,243	99.0%	16,900	16,736	99.0%	488	58	50
City of Hagerstown	WASH	Dec-10	2009	21,975	18,825	17,769	94.4%	20,995	20,717	98.7%	2,170	105	103
Winebrenner	FRED/ WASH	Feb-17	2016	455	455	446	98.0%	468	459	98.1%	13	12	12
Conococheague	WASH	Mar-18	2017	6,550	5,980	5,980	100.0%	6,476	6,476	100.0%	496	66	66
Western Region Total				51,968	46,550	45,245	97%	49,881	49,347	98.9%	3,331	251	237

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Washington Region													
City of Brunswick	FRED	Sep-08	2007	2,446	1,957	1,957	100.0%	2,298	2,298	100.0%	341	10	10
Town of Thurmont	FRED	Apr-13	2012	2,385	2,345	2,204	94.0%	2,433	2,306	94.8%	88	36	36
Town of Poolesville	MONT	Jul-10	2009	1,742	1,719	1,651	96.0%	2,028	1,957	96.5%	309	-1	-1
Damascus	MONT	Feb-13	2012	3,997	3,793	3,437	90.6%	3,823	3,462	90.6%	30	0	0
City of Bowie	PRIN	Feb-11	2010	20,712	20,559	20,269	98.6%	21,019	20,781	98.9%	460	124	122
Parkway	PRIN	Jul-13	2012	15,470	15,394	15,383	99.9%	15,995	15,912	99.5%	601	36	36
Piscataway	PRIN	May-13	2012	56,296	55,007	51,954	94.4%	59,438	54,430	91.6%	4,431	557	523
Western Branch (WSSC)	PRIN	Apr-16	2015	45,533	43,438	38,554	88.8%	49,810	41,367	83.0%	6,372	1,398	985

			Connections Before ENR Funding					Total Connections Upgraded since Conversion to ENR				Upgraded Connections Since Last Reporting Period	
ENR WWTP	County	ENR Upgrade Completed and Operational (Month-Year)	Column A: Reporting Year before ENR Funding	Column B: Number of Improved Parcels in the Sewer-shed	Column C: Number of Improved Parcels in Existing Service Area ("S1")	Column D: Number of Improved Parcels in "S1" within PFA	Column E: % of Connections Located in "S1" & PFA (Column D ÷ C)	Column F: Total Improved Parcels in Existing Service Area ("S1")	Column G: Total Improved Parcels in S1 & PFA	Column H: % Total Improved Parcels Located in "S1" within PFA (Column G ÷ F)	Column I: Total Increase Improved Parcels in S1 (Total Number New Connections)	Column J: Difference in Improved Parcels in S1	Column K: Difference in Improved Parcels in S1 & PFA
Blue Plains	PRIN/MONT	Apr-16	2015	330,121	327,437	319,529	97.6%	338,365	329,515	97.4%	10,928	758	731
Seneca (WSSC)	MONT	Apr-16	2015	60,161	57,387	56,911	99.2%	61,514	60,851	98.9%	4,127	226	226
Ballenger Creek	FRED	Apr-16	2015	21,554	17,110	17,105	100.0%	17,902	17,893	99.9%	792	330	326
Town of Emmitsburg	FRED	Mar-16	2015	927	824	791	96.0%	865	832	96.2%	41	1	1
Frederick	FRED	Jun-18	2017	24,627	22,666	22,666	100.0%	23,186	23,186	100.0%	520	114	114
Victor Cullen (New)	FRED	Jun-23	2022	3	3	0	0.0%	3	0	0.0%	0	NA	NA
Washington Region Total				585,974	569,639	552,411	97%	598,679	574,790	96.0%	29,040	3,592	3,109
Upper Eastern Shore Region													
Town of Elkton	CECI	Dec-09	2008	6,000	4,926	4,925	100.0%	5,172	5,169	99.9%	246	1	1

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Town of Perryville	CECI	Dec-10	2009	1,704	1,508	1,508	100.0%	1,574	1,573	99.9%	66	5	5
Rising Sun	CECI	Apr-16	2015	1,052	856	846	98.8%	868	861	99.2%	12	-1	-1
Town of Chestertown	KENT	Jun-08	2007	1,772	1,742	1,562	89.7%	2,050	1,821	88.8%	308	98	82
Kent Island (KNSG)	QUEE	Aug-07	2006	6,590	6,401	5,974	93.3%	9,447	8,042	85.1%	3,046	920	879
Town of Denton	CARO	May-12	2011	1,508	1,097	1,095	99.8%	1,599	1,592	99.6%	502	2	2
Town of Federalsburg	CARO	Aug-10	2009	881	827	817	98.8%	905	895	98.9%	78	42	42
Town of Easton	TALB	Jun-07	2006	5,810	5,831	5,822	99.8%	6,828	6,771	99.2%	997	631	631
Talbot Region II	TALB	Oct-08	2007	2,289	2,214	1,981	89.5%	3,276	2,276	69.5%	1,062	115	93
Centreville	QUEE	Jul-13	2012	1,643	1,641	1,310	79.8%	1,845	1,845	100.0%	204	9	9

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Northeast River	CECI	Oct-16	2015	5,714	4,459	3,931	88.2%	5,211	5,123	98.3%	752	338	337
Town of Queenstown	QUEE	Oct-16	2015	333	300	299	99.7%	334	334	100.0%	34	0	0
Greensboro	CARO	Jun-17	2016	727	687	687	100.0%	854	825	96.6%	167	20	20
Sudlersville	QUEE	Mar-18	2017	187	186	186	100.0%	190	189	99.5%	4	1	0
Galena	KENT	Dec-18	2017	374	296	274	92.6%	347	314	90.5%	51	39	39
Oxford WWTP	TALB	Mar-21	2020	581	579	579	100.0%	581	581	100.0%	2	5	5
Betterton	KENT	Mar-21	2020	258	258	256	99.2%	268	256	95.5%	10	2	3
Preston	CARO	Oct-22	2021	383	321	311	96.9%	333	324	97.3%	12	2	2
Port Deposit	CECI	Oct-22	2021	579	321	321	100.0%	336	336	100.0%	15	5	5

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Harbour View (New)	CECI	Dec-23	2022	171	133	0	0.0%	133	0	0.0%	0	NA	NA
Chesapeake City (New)	CECI	Aug-23	2022	506	385	383	99.5%	387	385	99.5%	2	NA	NA
Upper Eastern Shore Total				39,062	34,968	33,067	95%	42,538	39,512	93%	7,570	3,416	3,192
Lower Eastern Shore Region													
City of Cambridge	DORC	Dec-13	2012	5,861	5,418	5,293	97.7%	5,721	5,702	99.7%	303	130	130
Town of Hurlock	DORC	May-06	2005	769	703	703	100.0%	812	810	99.8%	109	7	7
Town of Delmar	WICO	Sep-11	2010	1,107	932	824	88.4%	1,074	963	89.7%	142	1	8
City of Pocomoke	WORC	Oct-11	2010	1,893	1,607	1,585	98.6%	1,653	1,633	98.8%	46	3	3
City of Crisfield	SOME	Aug-10	2009	2,495	2,044	1,735	84.9%	2,104	1,992	94.7%	60	17	14

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Town of Snow Hill	WORC	Jun-14	2013	900	930	882	94.8%	978	935	95.6%	48	2	2
City of Fruitland	WICO	Nov-16	2015	2,237	1,847	1,788	96.8%	2,102	1,953	92.9%	255	19	19
Salisbury	WICO	Jan-18	2017	10,794	10,705	10,500	98.1%	11,200	11,050	98.7%	495	56	117
Lower Eastern Shore Total				26,056	24,186	23,310	96%	25,644	25,038	97.6%	1,458	235	300
Baltimore Region													
Town of Mount Airy	CARR/FRED	Nov-10	2009	3,336	3,145	3,145	100.0%	3,515	3,513	99.9%	370	87	87
Joppatowne/Sod Run	HARF	Nov-13	2012	51,174	48,459	48,195	99.5%	52,435	52,060	99.3%	3,976	39	37
City of Havre De Grace	HARF	May-10	2009	5,098	4,898	4,782	97.6%	6,020	6,017	100.0%	1,122	155	155
Little Patuxent	HOWA	Sep-12	2011	56,997	50,848	50,833	100.0%	59,831	59,723	99.8%	8,983	427	393

			Connections Before ENR Funding					Total Connections Upgraded since Conversion to ENR				Upgraded Connections Since Last Reporting Period	
ENR WWTP	County	ENR Upgrade Completed and Operational (Month-Year)	Column A: Reporting Year before ENR Funding	Column B: Number of Improved Parcels in the Sewer-shed	Column C: Number of Improved Parcels in Existing Service Area ("S1")	Column D: Number of Improved Parcels in "S1" within PFA	Column E: % of Connections Located in "S1" & PFA (Column D ÷ C)	Column F: Total Improved Parcels in Existing Service Area ("S1")	Column G: Total Improved Parcels in S1 & PFA	Column H: % Total Improved Parcels Located in "S1" within PFA (Column G ÷ F)	Column I: Total Increase Improved Parcels in S1 (Total Number New Connections)	Column J: Difference in Improved Parcels in S1	Column K: Difference in Improved Parcels in S1 & PFA
City of Aberdeen	HARF	Mar-15	2014	5,098	4,524	4,443	98.2%	4,966	4,885	98.4%	442	6	6
Broadneck	ANNE	May-15	2014	30,847	21,172	20,454	96.6%	23,072	22,021	95.4%	1,900	113	105
Maryland City	ANNE	Mar-15	2014	4,522	4,394	4,376	99.6%	4,958	4,933	99.5%	564	131	131
Patuxent	ANNE	Mar-15	2014	24,037	22,886	22,440	98.1%	28,669	27,924	97.4%	5,783	299	298
City of Annapolis	ANNE	Apr-16	2015	31,823	28,384	27,466	96.8%	29,382	28,488	97.0%	998	166	154
Broadwater	ANNE	Apr-16	2015	4,919	4,694	3,902	83.1%	4,823	4,004	83.0%	129	24	24
City of Taneytown	CARR	Jul-16	2015	2,647	2,486	2,485	100%	3,036	3,033	99.9%	550	380	380
Back River	BACI/ BACO	Sep-17	2016	313,624	311,468	309,249	99%	321,022	318,838	99.3%	9,554	1,073	1,026
Mayo	ANNE	Oct-17	2016	3,410	3,316	3,066	92%	3,499	3,189	91.1%	183	53	47

			Connections Before ENR Funding					Total Connections Upgraded since Conversion to ENR				Upgraded Connections Since Last Reporting Period	
ENR WWTP	County	ENR Upgrade Completed and Operational (Month-Year)	Column A: Reporting Year before ENR Funding	Column B: Number of Improved Parcels in the Sewer-shed	Column C: Number of Improved Parcels in Existing Service Area ("S1")	Column D: Number of Improved Parcels in "S1" within PFA	Column E: % of Connections Located in "S1" & PFA (Column D ÷ C)	Column F: Total Improved Parcels in Existing Service Area ("S1")	Column G: Total Improved Parcels in S1 & PFA	Column H: % Total Improved Parcels Located in "S1" within PFA (Column G ÷ F)	Column I: Total Increase Improved Parcels in S1 (Total Number New Connections)	Column J: Difference in Improved Parcels in S1	Column K: Difference in Improved Parcels in S1 & PFA
Cox Creek	ANNE	Jan-18	2017	48,105	42,688	41,792	98%	45,441	44,318	97.5%	2,753	138	134
Freedom District	CARR	Mar-18	2017	8,535	7,336	7,336	100%	7,743	7,721	99.7%	407	151	149
Patapsco	BACI/ BACO	Jan-20	2019	152,850	148,409	147,691	100%	150,366	149,495	99.4%	1,957	616	587
Hampstead	CARR	Apr-2022	2021	2,585	2,525	2,143	85%	2,534	2,523	99.6%	9	5	4
Westminster (New)	CARR	Jul-2023	2022	9,281	9,124	9,104	100%	9,288	9,265	99.8%	164	NA	NA
Baltimore Region Total				758,888	720,756	712,902	99%	760,600	751,950	98.9%	39,844	3,242	3,126
Southern Maryland Region													
Town of Indian Head	CHAR	Jan-09	2008	1,409	1,317	1,317	100.0%	1,565	1,565	100.0%	248	4	4
Town of La Plata	CHAR	Dec-14	2013	3,164	3,213	3,132	97.5%	3,884	3,883	100.0%	671	47	47

			Connections Before ENR Funding					Total Connections Upgraded since Conversion to ENR				Upgraded Connections Since Last Reporting Period	
ENR WWTP	County	ENR Upgrade Completed and Operational (Month-Year)	Column A: Reporting Year before ENR Funding	Column B: Number of Improved Parcels in the Sewer-shed	Column C: Number of Improved Parcels in Existing Service Area ("S1")	Column D: Number of Improved Parcels in "S1" within PFA	Column E: % of Connections Located in "S1" & PFA (Column D ÷ C)	Column F: Total Improved Parcels in Existing Service Area ("S1")	Column G: Total Improved Parcels in S1 & PFA	Column H: % Total Improved Parcels Located in "S1" within PFA (Column G ÷ F)	Column I: Total Increase Improved Parcels in S1 (Total Number New Connections)	Column J: Difference in Improved Parcels in S1	Column K: Difference in Improved Parcels in S1 & PFA
Marlay Taylor	STMA	Aug-16	2015	12,420	7,996	7,984	99.8%	8,606	8,595	99.9%	610	82	83
Chesapeake Beach	CALV	Nov-17	2016	4,041	3,320	2,694	81.1%	3,353	2,720	81.1%	33	5	2
Leonardtown	STMA	Aug-17	2016	1,640	1,089	936	86.0%	1,093	940	86.0%	4	-8	-7
Southern Maryland Total				22,674	16,935	16,063	95%	18,501	17,703	95.7%	1,566	130	129
Statewide													
New Facilities Upgraded During Reporting Period				9,961	9,645	9,487	98.4%	9,811	9,650	98.4%	166	N/A	N/A
Statewide Totals				1,484,622	1,413,034	1,382,998	98%	1,495,843	1,458,340	97.5%	82,809	10,866	10,093

Notes:

(new) = Facilities upgraded to ENR during the reporting period.

There are a few instances since reporting began in 2009 where the total number of improved parcels in Column C varied slightly due to service boundary discrepancies. MDP has worked diligently to resolve this issue.