

WATER

St. Mary's County Metropolitan Commission

Capital Improvements Budget
FY 2020 - 2025 Water

With Escalation i=2.5%

Project Name	Status	Project ID	Prior Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY2020 - 2025 TOTAL
Water Lines										
Shangri-La Dr. & S. Essex Dr. Water Main Replacement	2	8171WR	\$185,000		\$1,159,442 ^A	\$1,188,509 ^A				\$2,347,951
FDR Boulevard Water Main Phase 3 (MD237 to Pegg Road)	2	8173WM	\$560,775	\$520,245						\$520,245
Southampton Water System Rehabilitation	1			\$280,617		\$1,798,642		\$1,635,301		\$3,714,560
St. Clements Shores Water System Replacement	4	2101WR	\$3,602,859	\$3,687,434						\$3,687,434
Breton Bay Water System Replacement	1			\$315,300		\$3,572,158		\$3,753,354		\$7,640,812
Town Creek Water System Phase 1-4	4	8081WR	\$3,344,500		\$2,842,742		\$463,795		\$3,079,421 ^B	\$6,385,958
Hollywood Water Systems Connector & Ph 2 Replacement	1	8141WM			\$152,820		\$1,899,144			\$2,051,964
MD247 Loveville Road Water Main Replacement								\$116,000	\$1,070,100 ^C	\$1,186,100
Various Water and Service Line Rehabilitation					\$64,620 ^D		\$67,860 ^D			\$132,480
FY2020 CIB (FY20-FY25) Water Lines Subtotal =			\$7,693,134	\$4,803,596	\$4,219,624	\$6,559,309	\$2,430,799	\$5,504,655	\$4,149,521	\$27,667,504
Approved FY2019 CIB (FY19 - FY24)				\$4,803,596	\$4,155,004	\$6,559,309	\$2,362,939	\$5,504,655	\$0	\$23,385,503
Change to Program Difference from FY2019 CIB				\$0	\$64,620	\$0	\$67,860	\$0	\$4,149,521	\$4,282,001

Status:

- 1 Planning Phase
- 2 Design Phase
- 3 Contract Phase
- 4 Construction Phase
- 5 Close-out Phase

- A) Split evenly into 2 Phases
- B) Added Phase 4 to FY2025
- C) Added Construction funds to FY2025
- D) Added as Semi-annual Program

Property Acquisition (to be initiated after Planning)

St. Mary's County Metropolitan Commission

Capital Improvements Budget
FY 2020 - 2025 Water

FY2020 CIB Summary
CSMC Approved 5/21/19

With Escalation i=2.5%

Project Name	Status	Project ID	Prior Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY2020 - 2025 TOTAL
Wells										
Bay Ridge Well Replacement and Upgrade	1	8091WL	\$175,160		\$2,017,966					\$2,017,966
FY2020 CIB (FY20-FY25) Well Subtotal =			\$175,160	\$0	\$2,017,966	\$0	\$0	\$0	\$0	\$2,017,966
Approved FY2019 CIB (FY19 - FY24)				\$0	\$2,017,966	\$0	\$0	\$0	\$0	\$2,017,966
Change to Program Difference from FY2019 CIB				\$0	\$0	\$0	\$0	\$0	\$0	\$0

Water Storage Tanks (WST)										
Greenbrier WST	2	8161WT	\$200,000	\$582,499						\$582,499
St. Clements Shores WST (timed with water system)	1	2121WT	\$249,075		\$2,233,698					\$2,233,698
Water Tank Inspections, Painting, Replacement/Upgrades	4	WO1917	\$75,000 ^B	\$655,509	\$80,775	\$688,565	\$84,825	\$723,492	\$89,175 ^A	\$2,322,341
FY2020 CIB (FY20-FY25) Water Storage Tanks (WST) Subtotal =			\$524,075	\$1,238,008	\$2,314,473	\$688,565	\$84,825	\$723,492	\$89,175	\$5,138,538
Approved FY2019 CIB (FY19 - FY24)				\$1,238,008	\$2,314,473	\$688,565	\$84,825	\$723,492	\$0	\$5,049,363
Change to Program Difference from FY2019 CIB				\$0	\$0	\$0	\$0	\$0	\$89,175	\$89,175

Status:

- 1 Planning Phase
- 2 Design Phase
- 3 Contract Phase
- 4 Construction Phase
- 5 Close-out Phase

A) Added Project to FY2025

B) FY19 Funds Only

Property Acquisition (to be initiated after Planning)

St. Mary's County Metropolitan Commission

Capital Improvements Budget
FY 2020 - 2025 Water

FY2020 CIB Summary
CSMC Approved 5/21/19

With Escalation i=2.5%

Project Name	Status	Project ID	Prior Approved	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY2020 - 2025 TOTAL
Miscellaneous										
Industrial Park Water Station Upgrades	1			\$248,299						\$248,299
FY2020 CIB (FY20-FY25) Miscellaneous Subtotal =			\$0	\$248,299	\$0	\$0	\$0	\$0	\$0	\$248,299
Approved FY2019 CIB (FY19 - FY24)				\$248,299	\$0	\$0	\$0	\$0	\$0	\$248,299
Change to Program Difference from FY2019 CIB				\$0	\$0	\$0	\$0	\$0	\$0	\$0

Totals										
Water Lines			\$7,693,134	\$4,803,596	\$4,219,624	\$6,559,309	\$2,430,799	\$5,504,655	\$4,149,521	\$27,667,504
Wells			\$175,160	\$0	\$2,017,966	\$0	\$0	\$0	\$0	\$2,017,966
Water Storage Tanks (WST)			\$524,075	\$1,238,008	\$2,314,473	\$688,565	\$84,825	\$723,492	\$89,175	\$5,138,538
Miscellaneous			\$0	\$248,299	\$0	\$0	\$0	\$0	\$0	\$248,299
Subtotal			\$8,392,369	\$6,289,903	\$8,552,063	\$7,247,874	\$2,515,624	\$6,228,147	\$4,238,696	\$35,072,307
Capital Reserves		7.5%	\$629,000	\$472,000	\$641,000	\$544,000	\$189,000	\$467,000	\$318,000	\$2,631,000
FY2020 CIB (FY20-FY25) Total=			\$9,021,369	\$6,761,903	\$9,193,063	\$7,791,874	\$2,704,624	\$6,695,147	\$4,556,696	\$37,703,307
Approved FY2019 CIB (FY19 - FY24)				\$6,761,903	\$9,124,443	\$7,791,874	\$2,631,764	\$6,695,147	\$0	\$33,005,131
Change to Program Difference from FY2019 CIB				\$0	\$68,620	\$0	\$72,860	\$0	\$4,556,696	\$4,698,176

Status:

- 1 Planning Phase
- 2 Design Phase
- 3 Contract Phase
- 4 Construction Phase
- 5 Close-out Phase

Property Acquisition (to be initiated after Planning)

PROJECT DETAIL SHEETS
FY2020 – FY2025

WATER LINES

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Shangri-La Drive & S. Essex Drive Water Main Replacement	8171WR	Water Lines

DESCRIPTION:

This is a water facilities renewal project. The water system was originally constructed as part of Patuxent Park by the U.S. Navy and is in need of rehabilitation and replacement. The water system is in need of upgrading, mains, valves and fire hydrants and service laterals. The project will replace and the water system on Shangri-La Drive from MD 235 to South Essex Drive and on South Essex Drive from Great Mills Road to Shangri-La Drive. The work consists of the replacement of approximately 4,300 linear feet of water line and 16 fire hydrants, including water service connections to the existing services. The project will affect service and traffic in the area. No new service connections will result from the project. No additional land acquisition, right-of-way or easements will be required. It is anticipated that the project should be completed in two phases. Begin design: Spring 2019 (10 months)

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The Water Facilities Capital Project Plan has identified areas within the existing infrastructure for replacement. The water system has exceeded life expectancy. Repair costs to replace the water service saddles are excessive and has made the system is unreliable. Operations and Maintenance are to be included in the design. The construction costs are based on a class 4 estimate provided by the consultant, in 2017 dollars plus 2.5% escalation per year.

LOCATION:

8th Election District, 8th Sanitary District, Lexington Park.

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$0	\$0	\$41,731	\$41,731	\$0	\$0	\$0	\$83,462
PLANNING/DESIGN (11%)	\$185,000	\$0	\$0	\$0	\$0	\$0	\$0	\$185,000
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$0	\$834,617	\$834,617	\$0	\$0	\$0	\$1,669,234
INSPECTION (10%)	\$0	\$0	\$100,100	\$100,100	\$0	\$0	\$0	\$200,200
CONTINGENCIES (10%)	\$0	\$0	\$100,100	\$100,100	\$0	\$0	\$0	\$200,200
ESCALATION (2.5%)	\$0	\$0	\$82,894	\$111,961	\$0	\$0	\$0	\$194,855
TOTAL COSTS	\$185,000	\$0	\$1,159,442	\$1,188,509	\$0	\$0	\$0	\$2,532,951

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$2,532,951	\$185,000		\$1,159,442	\$1,188,509				
REVOLVING LOAN FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
OTHER SOURCES	\$0								
TOTAL FUNDS	\$2,532,951	\$185,000	\$0	\$1,159,442	\$1,188,509	\$0	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$2,532,951
TOTAL	100%	\$2,532,951

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
FDR Boulevard Water Main Phase 3 (MD 237 to Pegg Road)	8173WM	Water Lines

DESCRIPTION:

This is a water facilities reliability and relocation project. The project includes water system improvements and relocation work relating to the Department of Public Works and Transportation's FDR Boulevard Extended (Neighborhood Connector) Phase 3 Roadway Project. This phase includes installation of new water mains and relocation of existing water mains along the FDR Boulevard alignment from Chancellor's Run Road to Pegg Road. The County has scheduled the road construction for this phase and the water system work will proceed with the road work. Phase 3 betterment and relocation work consists of installation of approximately 2,000 linear feet of water mains, and installation of approximately 7 fire hydrants. The project will provide no new connections and category changes. Land acquisition, additional right-of-way or easements will not be required on behalf of the Commission. The County has divided the project into two phases, Phase 3A and Phase 3B. The County has funds allocated for design and the utilization of the same Consultant will be pursued. Design: 95% complete; Construction: Phase 3A Spring 2020 (15 months); Phase 3B Fall 2020 (18 months).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - System reliability and relocation of the water lines initiated by the County Road Project; the water line is necessary to improve system reliability, and maximize efficiency of wells and elevated storage. Construction costs are based on a class 4 estimate provided by consultant plus 2.5% escalation per year.

LOCATION:

8th Election District, 8th Sanitary District, FDR Boulevard

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$38,400	\$15,000	\$0	\$0	\$0	\$0	\$0	\$53,400
PLANNING/DESIGN (10%)	\$153,000	\$0	\$0	\$0	\$0	\$0	\$0	\$153,000
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$300,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$700,000
INSPECTION (10%)	\$30,000	\$40,000	\$0	\$0	\$0	\$0	\$0	\$70,000
CONTINGENCIES (10%)	\$30,000	\$40,000	\$0	\$0	\$0	\$0	\$0	\$70,000
ESCALATION (2.5%)	\$9,375	\$25,245	\$0	\$0	\$0	\$0	\$0	\$34,620
TOTAL COSTS	\$560,775	\$520,245	\$0	\$0	\$0	\$0	\$0	\$1,081,020

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$0								
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$1,081,020	\$560,775	\$520,245						
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$1,081,020	\$560,775	\$520,245	\$0	\$0	\$0	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$1,081,020
TOTAL	100%	\$1,081,020

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Southampton Water System Rehabilitation		Water Lines

DESCRIPTION:

DPW&T has identified the Southampton Subdivision for infrastructure improvements to sidewalks, curb and gutter, storm drainage, utilities and streets. The Water System Rehabilitation is a water facilities renewal project proposed in conjunction with DPW&T's neighborhood revitalization project. The Water System Rehabilitation project will affect the approximately 97 dwellings by providing them with a more reliable water system. The project will replace or rehabilitate the water system on Southampton Drive, Windsor Drive, Brighton Ave, Cambridge Ave and Lincoln Ave. The work consists of the replacement of approximately 5,200 linear feet of 8"water line (including water service connections to the meter). No new connections will be provided and no additional land, rights-of-way, or easements are anticipated. The project is anticipated to be designed at one time but constructed in two phases. Evaluate loop system for improved resiliency. Begin Design: Spring 2020 (12 months)

FY 2022 - Phase 1 includes a portion of Lincoln Avenue and Southampton Drive, Bristol Avenue, and Windsor Drive.

FY 2024 - Phase 2 includes a portion of Lincoln Avenue and Southampton Drive, Cambridge Avenue, Brighton Avenue.

There is no waterline replacement required in Phase 3.

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The condition assessments of the infrastructure are as follows: exceeded life expectancy of the facilities, excessive leakage, excessive repair costs, and inadequate system reliability. Operations and Maintenance are included in the design of the project. The construction costs are based on a class 4 estimate provided by consultant, in 2017 dollars plus 2.5% escalation per year.

LOCATION:

8th Election District, 8th Sanitary District, Southampton Subdivision

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$0	\$50,000	\$0	\$8,431	\$0	\$8,431	\$0	\$66,862
PLANNING/DESIGN (10%)	\$0	\$217,000	\$0	\$16,080	\$0	\$16,080	\$0	\$249,160
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$0	\$0	\$1,337,245	\$0	\$1,154,359	\$0	\$2,491,604
INSPECTION (10%)	\$0	\$0	\$0	\$133,725	\$0	\$115,436	\$0	\$249,160
CONTINGENCIES (10%)	\$0	\$0	\$0	\$133,725	\$0	\$115,436	\$0	\$249,160
ESCALATION (2.5%)	\$0	\$13,617	\$0	\$169,437	\$0	\$225,559	\$0	\$408,613
TOTAL COSTS	\$0	\$280,617	\$0	\$1,798,642	\$0	\$1,635,300	\$0	\$3,714,560

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
DHCD/MDE LOAN	\$3,714,560		\$280,617		\$1,798,642		\$1,635,301		
REVOLVING LOAN FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
OTHER SOURCES	\$0								
	\$0								
TOTAL FUNDS	\$3,714,560	\$0	\$280,617	\$0	\$1,798,642	\$0	\$1,635,301	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$3,714,560
TOTAL	100%	\$3,714,560

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
St. Clements Shores Water System Replacement	2101WR (Ph 1) 2151WL (Ph 2)	Water Lines

DESCRIPTION:

This project will replace the St. Clement Shores Water System which was originally built in the 1950s as a stand-alone water system. MetCom later took over operation of this system that serves approximately 230 customers. The water mains do not meet current MetCom specifications and are 60 years old and reaching the end of their useful life. Additionally, due to the layout of many of the water services serving the existing homes, individual water meters cannot be installed and water usage cannot be accurately tracked. The existing galvanized steel water mains will need to be abandoned and new water mains will be engineered and constructed. Approximately 5,575 linear feet of 12-inch diameter and 24,100 linear feet of 8-inch diameter new mains will be installed within the existing County maintained right- of- way. This project was first approved as part of the FY2009 CIP. The Project will be completed in two phases. The St. Clements Shores elevated water storage tower project is planned to be timed with the water system. Phase 1: Construction NTP 4/1/18 with MDE bid concurrence 6/30/2017. Phase 2: Design underway. Construction Spring 2020 (13 months).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The existing water infrastructure has reached the end its useful life and are undersized. Frequent breaks reduce system reliability. Due to the undersized mains, fire flow is currently not provided in many areas currently served by public water. The reconfiguration of the water mains will provide adequate fire protection. Operations and Maintenance have indicated that the system breaks frequently and results in chasing leaks once returned to service. The cost estimate is based on a class 2/4 estimate provided by consultant plus 2.5% escalation per year.

LOCATION:

2nd Sanitary District, 3rd Election District, St. Clements Shores

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION	\$81,617	\$100,060	\$0	\$0	\$0	\$0	\$0	\$181,677
PLANNING/DESIGN/CE (PH 1&2)	\$496,595	\$20,000	\$0	\$0	\$0	\$0	\$0	\$516,595
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$2,720,570	\$2,823,700	\$0	\$0	\$0	\$0	\$0	\$5,544,270
CM & INSPECTION	\$168,048	\$282,370	\$0	\$0	\$0	\$0	\$0	\$450,418
CONTINGENCIES	\$136,029	\$282,370	\$0	\$0	\$0	\$0	\$0	\$418,399
ESCALATION (2.5%)	\$0	\$178,934	\$0	\$0	\$0	\$0	\$0	\$178,934
TOTAL COSTS	\$3,602,859	\$3,687,434	\$0	\$0	\$0	\$0	\$0	\$7,290,293

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$7,290,293	\$3,602,859	\$3,687,434						
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$7,290,293	\$3,602,859	\$3,687,434	\$0	\$0	\$0	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$7,290,293
TOTAL	100%	\$7,290,293

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Breton Bay Water System Replacement		Water Lines

DESCRIPTION:

This project will replace the Breton Bay Water System located on the Eastern side of Society Hill Road South of Breton Inn which was originally built in the 1960s. This system serves approximately 200 Customers. The water mains do not meet current MetCom specifications and are 50 years old and reaching the end of their useful life. Additionally, the mains in the area are small (2, 4 and 6 inch diameter) and the area is not adequately served by fire hydrants. The existing water mains and water services up to the meter pits will need to be abandoned and new water mains and services will be engineered and constructed consisting of approximately 20,000 lf of 8-inch mains. The new mains will be installed in the existing County maintained right-of-ways. The project is anticipated to be completed in three phases. Design Spring 2020 (15 months) extends from existing well to Lake Drive. Construction: Phase 1 (FY22); Phase 2 (FY24) and Phase 3 (FY26) will extend from Lake Drive to the end of Port Place.

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The existing water infrastructure has reached the end its useful life and are undersized. Frequent breaks reduce system reliability. Due to the undersized mains, fire flow is currently not provided in many areas currently served by public water. The replacement of the water mains will provide adequate fire protection. Operations and Maintenance has recorded 14 water main and service line breaks between August 2014 and December 2016. Repairing these breaks involves shutting down portions of the water system which effects customers. The construction costs are based on a class 4 estimate provided by consultant, in 2017 dollars plus 2.5% escalation per year.

LOCATION:

3rd Election District, 2nd Sanitary District, Breton Bay

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$0	\$50,000	\$0	\$78,282	\$0	\$78,282	\$0	\$206,564
PLANNING/DESIGN (10%)	\$0	\$250,000	\$0	\$26,094	\$0	\$26,094	\$0	\$302,188
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$0	\$0	\$2,609,395	\$0	\$2,609,395	\$0	\$5,218,790
INSPECTION (10%)	\$0	\$0	\$0	\$260,940	\$0	\$260,940	\$0	\$521,879
CONTINGENCIES (10%)	\$0	\$0	\$0	\$260,940	\$0	\$260,940	\$0	\$521,879
ESCALATION (2.5%)		\$15,300	\$0	\$336,508	\$0	\$517,704	\$0	\$869,512
TOTAL COSTS	\$0	\$315,300	\$0	\$3,572,158	\$0	\$3,753,354	\$0	\$7,640,812

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$7,640,812		\$315,300		\$3,572,158		\$3,753,354		
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$7,640,812	\$0	\$315,300	\$0	\$3,572,158	\$0	\$3,753,354	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$7,640,812
TOTAL	100%	\$7,640,812

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Town Creek Water System Phase 1 - 4	8081WR	Water Lines

DESCRIPTION:

This project is a water facilities renewal project. The Town Creek Water System was originally built in the 1950s and as a stand-alone water system. MetCom later took over operation of this system and incorporated it into the Lexington Park Water System. The distribution system in Town Creek currently serves approximately 360 customers. The water mains do not meet current MetCom specifications, over are 60 years old, and reaching the end of their useful life. In July 2015, 900 feet of emergency waterline repairs were completed on Spruce Drive. Additionally, due to the layout of many of the water services serving the existing homes, individual water meters cannot be installed and water usage cannot be accurately tracked. Accurate drawings of the existing water system do not exist. The Project has prior design approval for Phases 1 & 2. Easements will be required. The Project is expected to have additional phases for a total of five proposed phases. Potential future service connections for the North side of Town Creek Drive have been identified for the following phases: Phase 1 - 8 connections, Phase 2 - 0 connections, and Phase 3 - 7 connections. Future connections for existing homes on private wells will be identified as the phases progress. Water lines will be increased in size from 2 inches to 8 inches to improve flow, reliability and level of service for domestic and fire use. This project will provide stub outs for the North side of Town Creek Drive which is currently served predominately by individual wells. Phase 1: Design completed with Construction NTP April 2019 (10 months). Phase 2: Design Spring 2018 with Construction (FY22). Phase 3: Design FY23 and Construction FY25. A public informational workshop was held on 1/17/2018.

PLANNING JUSTIFICATION

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The Water Facilities Capital Project Plan has identified areas within the existing water infrastructure in Town Creek which is within the Development District. The water system has the exceeded life expectancy of the facilities and is undersized in many areas. Additionally, water meters cannot be installed due to the configuration of the water services. The undersized mains do not provide domestic water pressure or fire flow. Operations and Maintenance has recorded 33 water main and service line breaks between June 2014, and December 2016. Repairing these breaks involves shutting down portions of the water system which effects customers. Construction costs are based on a class 2/4 estimate provided by the design consultant plus 2.5% escalation per year.

LOCATION:

8th Election District, 8th Sanitary District, Town Creek Subdivision

APPROPRIATION PHASE	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
	Prior Approval	Budget FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total Project
ADMINISTRATION (~5%)	\$80,500	\$0	\$119,500	\$0	\$107,915	\$0	\$95,923	\$403,838
PLANNING/DESIGN (~10%)	\$564,000	\$0	\$0	\$0	\$302,160	\$0	\$191,846	\$1,058,006
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$2,250,000	\$0	\$2,100,000	\$0	\$0	\$0	\$1,918,464	\$6,268,464
INSPECTION (10%)	\$225,000	\$0	\$210,000	\$0	\$0	\$0	\$191,846	\$626,846
CONTINGENCIES (10%)	\$225,000	\$0	\$210,000	\$0	\$0	\$0	\$191,846	\$626,846
ESCALATION (2.5%)	\$0	\$0	\$203,242	\$0	\$53,720	\$0	\$489,496	\$746,457
TOTAL COSTS	\$3,344,500	\$0	\$2,842,742	\$0	\$463,795	\$0	\$3,079,421	\$9,730,457

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Balance to Complete
MDE/DHCD LOAN	\$9,730,457	\$3,344,500		\$2,842,742		\$463,795		\$3,079,421	
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$9,730,457	\$3,344,500	\$0	\$2,842,742	\$0	\$463,795	\$0	\$3,079,421	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$9,730,457
TOTAL	100%	\$9,730,457

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Hollywood Water Systems Connector & Phase 2 Replacement	8141WM	Water Lines

DESCRIPTION:

The Water Systems Connector will install approximately 600 linear feet (LF) of 12-inch pipe along MD-235 from the Hollywood/Broad Creek water tower to the crossing to Dean Lumber Road and approximately 600 LF of 8-inch pipe across MD-235 to Mervell Dean Road. This portion of the project will affect all customers in the Broad Creek Subdivision and the Hollywood Town center by connecting them to the greater Lexington Park water system. Originally built in the 1980's, another portion of the project will replace approximately 1,500 LF of 4" water main with a proposed 8" main along Mervell Dean Road and connect to a new water main to be constructed under the Hollywood Water System Connector Project. Customers and traffic in the area will be affected by the construction. This project could provide one potential service connection. No additional land acquisition, right-of-way are required, but easements will be required. The project is anticipated to be completed under a single phase. Design: Spring 2021 (10 months). Construction (2023/2024).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The Systems Connector will provide water flow to link the Hollywood town center to the proposed elevated storage tank. This will provide more reliable service and provide a redundancy in supply and elevated storage. Phase 2 is identified in the Water Facility Plan as a pipe replacement project. This line has reached the end of its service life and replacement is necessary before repair costs escalate. The proposed main will meet current standards and provide improved reliability to customers. The construction costs are based on a class 4 estimate provided by consultant, in 2017 dollars plus 2.5% escalation per year.

LOCATION:

6th Election District, 8th Sanitary District, Hollywood

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$0	\$0	\$7,000	\$0	\$0	\$0	\$0	\$7,000
PLANNING/DESIGN (10%)	\$0	\$0	\$134,894	\$0	\$0	\$0	\$0	\$134,894
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$0	\$0	\$0	\$1,399,310	\$0	\$0	\$1,399,310
INSPECTION (10%)	\$0	\$0	\$0	\$0	\$139,931	\$0	\$0	\$139,931
CONTINGENCIES (10%)	\$0	\$0	\$0	\$0	\$139,931	\$0	\$0	\$139,931
ESCALATION (2.5%)	\$0	\$0	\$10,926	\$0	\$219,972	\$0	\$0	\$230,897
TOTAL COSTS	\$0	\$0	\$152,820	\$0	\$1,899,144	\$0	\$0	\$2,051,963

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$2,051,963			\$152,820		\$1,899,144			
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$2,051,963	\$0	\$0	\$152,820	\$0	\$1,899,144	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$2,051,963
TOTAL	100%	\$2,051,963

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
MD247 Loveville Road Water Main Replacement		Water Lines

DESCRIPTION:

This project will begin the evaluation and design for the upgrade and replacement of the existing failing 2" diameter galvanized waterline along Loveville Road built in the 1970s. The proposed upgrade will include approximately 1,900 linear feet (LF) of new 8" ductile iron pipe within State Highway right-of-way. The project may also include a 1,000 LF upgrade to the existing 4" diameter waterline that extends into the King and Kennedy Subdivision water station to provide increased fire protection (hydrants). Design: Fall 2023 (7 months).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. The system was not brought to current standards when taken over by MetCom. Operations and Maintenance have indicated that this system is deteriorating as it nears the end of its service life and is comprised of under size mains. Due to the undersized mains, fire flow is currently not provided in many areas currently served by public water. The replacement of the water mains will provide increased reliability and fire protection.

LOCATION:

6th Election District, 3rd Sanitary District - MD247, King and Kennedy Subdivision

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PLANNING/DESIGN (10%)	\$0	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$0	\$0	\$0	\$0	\$0	\$900,000	\$900,000
INSPECTION (5%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONTINGENCIES (10%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ESCALATION (2.5%)	\$0	\$0	\$0	\$0	\$0	\$16,000	\$170,100	\$186,100
TOTAL COSTS	\$0	\$0	\$0	\$0	\$0	\$116,000	\$1,070,100	\$1,186,100

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD Loan	\$1,070,100							\$1,070,100	
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM CAP PROJ UPGRADE FUND	\$116,000						\$116,000		
DIRECT CHRGS - SYS IMP CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG									
TOTAL FUNDS	\$1,186,100	\$0	\$0	\$0	\$0	\$0	\$116,000	\$1,070,100	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$1,186,100
TOTAL	100%	\$1,186,100

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Various Water and Service Line Rehabilitation		Water Lines
PROGRAM		

<p>DESCRIPTION: Continuing various projects to replace and rehabilitate water lines: saddles, flow monitoring and water line inspection services. Components of water systems particularly mains, gate valves and saddles are manufactured of materials susceptible to deterioration by corrosive soils, persistent moisture, stray currents, temperature differentials and shifting ground conditions.</p> <p>This capital project will address areas in need throughout the county. Funds will be used for both proactively and for emergencies. Improvements may be made to the following aging water systems, but are not limited to: Lexington Park – Mains and Valves Cedar Cove - Saddles Spring Valley - Saddles Town Creek – Upgrade substandard utilities Esperanza Farms – Upgrade substandard utilities Hollywood – Mains and Valves Leonardtown - Saddles Mechanicsville - Saddles</p> <p>PLANNING JUSTIFICATION: Replacement and rehabilitation of aging water line distribution infrastructure. Improvements performed under this Capital project will be capitalized.</p> <p>LOCATION: All Sanitary Districts</p>
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APPROPRIATION PHASE	Prior Approval	Budget FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total Project
ADMINISTRATION (5%)			\$5,000		\$5,000			\$10,000
PLANNING/DESIGN (10%)								\$0
LAND ACQUISITION								\$0
CONSTRUCTION			\$50,000		\$50,000			\$100,000
INSPECTION (10%)			\$5,000		\$5,000			\$10,000
CONTINGENCIES (10%)								\$0
ESCALATION			\$4,620		\$7,860			\$12,480
TOTAL COSTS	\$0	\$0	\$64,620	\$0	\$67,860	\$0	\$0	\$132,480

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Balance to Complete
MDE/DHCD LOAN	\$0								
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$132,480			\$64,620		\$67,860			
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$132,480	\$0	\$0	\$64,620	\$0	\$67,860	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	
FACILITIES EXPANSION	0%	
REHAB/REPLACEMENT	100%	\$132,480
TOTAL	100%	\$132,480

WELLS

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Bay Ridge Well Replacement and Upgrade	8091WL	Water Wells

DESCRIPTION:

This project will construct a new Patapsco Aquifer production well. This well will replace the existing well that failed in 2012, affecting all customers in the Lexington Park water system. The proposed well will be designed to balance production, and increase efficiency in the Lexington Park System. Easements from the County are required prior to construction. No new connections are required as a result of this project. Survey & Design is underway. Design has been delayed as the project requires an easement through the County's Great Mills pool site which requires State Program Open Space (POS) approval. Temporary access concurrence from POS was received on 10/3/2017 and will be processed in FY2020. Construction: Winter 2020 (8 months).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - Currently the production wells in the area are running approximately 17 hours per day. This results in system wide pressure loss in times of peak demand as well as use exceeding current Groundwater Appropriation Permits (GAP). The cost estimate is based on a class 4 estimate provided by the design consultant plus 2.5% escalation per year. A proposed well will replace the failed well in the Great Mills area and will support existing customers as well as potential future customers. Please refer to the Water and Sewer Facilities Plan for Pine Hill Run Sanitary District 8 and Piney Point Sanitary District 5; Executive Summary 1.6; Section 5; and Attachment C (TM 5)

LOCATION:

8th Election District, 8th Sanitary District, Bay Ridge Subdivision

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$9,260	\$0	\$66,058	\$0	\$0	\$0	\$0	\$75,318
PLANNING/DESIGN (11%)	\$165,900	\$0	\$0	\$0	\$0	\$0	\$0	\$165,900
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$0	\$1,506,362	\$0	\$0	\$0	\$0	\$1,506,362
INSPECTION (10%)	\$0	\$0	\$150,636	\$0	\$0	\$0	\$0	\$150,636
CONTINGENCIES (10%)	\$0	\$0	\$150,636	\$0	\$0	\$0	\$0	\$150,636
ESCALATION (2.5%)	\$0	\$0	\$144,274	\$0	\$0	\$0	\$0	\$144,274
TOTAL COSTS	\$175,160	\$0	\$2,017,967	\$0	\$0	\$0	\$0	\$2,193,127

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$2,193,126	\$175,160		\$2,017,966					\$0
MDE LOAD FUNDS	\$0								\$0
DHCD LOAN	\$0								\$0
BONDS	\$0								\$0
STATE GRANT	\$0								\$0
COUNTY FUNDS	\$0								\$0
METCOM FUNDS	\$0								\$0
DIRECT CHRGS - SYS IMPR CHG	\$0								\$0
DIRECT CHRGS - CAP CONTR CHG	\$0								\$0
TOTAL FUNDS	\$2,193,126	\$175,160	\$0	\$2,017,966	\$0	\$0	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$2,193,127
TOTAL	100%	\$2,193,127

WATER STORAGE TANKS

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Greenbrier Water Storage Tank	8161WT	Water Storage Tanks

DESCRIPTION:

This project will provide a water storage tank to meet the capacity requirements for the Greenbrier Subdivision service area. The proposed ground storage tank is necessary because the existing tank, installed in the early 90's, is only 8,000 gallons and is inadequate to meet demand and provide fire flow to this 426 EDU community. In addition, interconnecting water mains to the subdivision are not scheduled to be constructed at this time based on slower than anticipated growth. The new ground storage tank, projected to be approximately 200K gallons, and will be analyzed during design of the project. The project will require land transfer from an HOA per a prior Public Works Agreement to provide an area to construct the new water storage tank. It is anticipated that the project will be completed in a single phase. Design: Winter 2019 (8 months). Currently addressing infrastructure (i.e., existing well) that may be on property not owned by MetCom. A boundary line adjustment plat (BLAP) is underway to include additional area to accommodate the size of the new storage tank. Construction: Fall 2020 (9 months).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The current water system consists of one 210 gpm well in the Aquia aquifer, one 240 gpm well in the Patapsco aquifer, and an 8,000 gallon storage tank. A new ground storage tank is needed to ensure adequate water supply to meet domestic demand and fire suppression needs. The project is identified as Water Facilities Plan Capital Project ID D. Operations and Maintenance will be included in the design of this project. The construction costs are based on a class 4 estimate provided by consultant, in 2017 dollars plus 2.5% escalation per year.

LOCATION:

8th Election District, 8th Sanitary District, Greenbrier Subdivision

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$20,000	\$2,584	\$0	\$0	\$0	\$0	\$0	\$22,584
PLANNING/DESIGN	\$180,000	\$0	\$0	\$0	\$0	\$0	\$0	\$180,000
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$451,681	\$0	\$0	\$0	\$0	\$0	\$451,681
INSPECTION (5%)	\$0	\$54,800	\$0	\$0	\$0	\$0	\$0	\$54,800
CONTINGENCIES (10%)	\$0	\$45,168	\$0	\$0	\$0	\$0	\$0	\$45,168
ESCALATION (2.5%)	\$0	\$28,266	\$0	\$0	\$0	\$0	\$0	\$28,266
TOTAL COSTS	\$200,000	\$582,499	\$0	\$0	\$0	\$0	\$0	\$782,499

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$782,499	\$200,000	\$582,499						
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$782,499	\$200,000	\$582,499	\$0	\$0	\$0	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$782,499
TOTAL	100%	\$782,499

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
St. Clements Shores Water Storage Tank	2121WT	Water Storage Tanks

DESCRIPTION:

This elevated storage is necessary because the existing 44,500 gallon storage tank will be inadequate to efficiently meet daily demand and provide fire flow for this community. Project includes the extension of approximately 1,500 linear feet of 12" waterline to the storage tank site along Long Leaf Lane. To meet the storage requirement in the St. Clements Shores service area, it is necessary to install approximately 200K gallons of storage to meet projected demand and fire flow. This elevated storage is necessary because the existing ground storage will be inefficient. The project will include land acquisition (FY 2020) to provide sufficient area to construct the new water storage tank. It is anticipated that the project will be completed after Phase 2 of the St. Clements Shores Water System Replacement project. Design: Fall 2020 (9 months). Construction: Summer 2021 (13 months).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The current St. Clements Shores Water System consists of one 180gpm well, one 200gpm well and a 44,500 gallon ground storage tank. Due to infill and the imperative need to upgrade the water mains, a new elevated storage tank is needed to ensure adequate water supply to meet domestic demand and fire suppression needs. Operations and Maintenance will be included in the design of the water storage tower. The construction costs are based on a class 4 estimate provided by consultant, in 2017 dollars plus 2.5% escalation per year.

LOCATION:

3rd Election District ,2nd Sanitary District, St. Clements Shores

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$43,000	\$0	\$52,000	\$0	\$0	\$0	\$0	\$95,000
PLANNING/DESIGN (10%)	\$100,000	\$0	\$54,000	\$0	\$0	\$0	\$0	\$154,000
LAND ACQUISITION	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
CONSTRUCTION	\$0	\$0	\$1,640,000	\$0	\$0	\$0	\$0	\$1,640,000
INSPECTION (10%)	\$0	\$0	\$164,000	\$0	\$0	\$0	\$0	\$164,000
CONTINGENCIES (10%)	\$0	\$0	\$164,000	\$0	\$0	\$0	\$0	\$164,000
ESCALATION (2.5%)	\$6,075	\$0	\$159,698	\$0	\$0	\$0	\$0	\$165,773
TOTAL COSTS	\$249,075	\$0	\$2,233,698	\$0	\$0	\$0	\$0	\$2,482,773

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$2,233,698			\$2,233,698					
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$249,075	\$249,075							
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$2,482,773	\$249,075	\$0	\$2,233,698	\$0	\$0	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	10%	\$248,277
REHAB/REPLACEMENT	90%	\$2,234,496
TOTAL	100%	\$2,482,773

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Water Tank Inspections, Painting and Replacement/Upgrades	WO1917	Water Storage Tanks

PROGRAM

DESCRIPTION:
 Inspections, painting and rehabilitation or replacement of ground, pressure and elevated water storage tanks to prevent deterioration of these structures due to weathering, exposure and age. Ongoing project to inspect approximately 20% of the total tanks annually. In some cases, it is more economical to replace small tanks than to rehabilitate and paint. To include upgrades to various water storage tanks, such as but not limited to: St. Clements Shores, Wild Goose Crest, and Villages of Leonardtown.

PLANNING JUSTIFICATION:
 Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - Maintenance of infrastructure through a continuing program of inspection and rehabilitation. Estimates include 2.5% escalation per year.

LOCATION:
 All Sanitary Districts

APPROPRIATION PHASE	FY19	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$0	\$23,100	\$0	\$23,100	\$0	\$23,100	\$0	\$69,300
PLANNING/DESIGN (10%)	\$0	\$46,200	\$0	\$46,200	\$0	\$46,200	\$0	\$138,600
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$75,000	\$462,000	\$75,000	\$462,000	\$75,000	\$462,000	\$75,000	\$1,686,000
INSPECTION (10%)	\$0	\$46,200	\$0	\$46,200	\$0	\$46,200	\$0	\$138,600
CONTINGENCIES (10%)	\$0	\$46,200	\$0	\$46,200	\$0	\$46,200	\$0	\$138,600
ESCALATION (2.5%)	\$0	\$31,809	\$5,775	\$64,865	\$9,825	\$99,792	\$14,175	\$226,241
TOTAL COSTS	\$75,000	\$655,509	\$80,775	\$688,565	\$84,825	\$723,492	\$89,175	\$2,397,341

FUNDING SOURCE	Total Project	FY19	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$2,322,341		\$655,509	\$80,775	\$688,565	\$84,825	\$723,492	\$89,175	
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$0								
DIRECT CHRGS - SYS IMPR CHG	\$75,000	\$75,000							
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$2,397,341	\$75,000	\$655,509	\$80,775	\$688,565	\$84,825	\$723,492	\$89,175	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$2,397,341
TOTAL	100%	\$2,397,341

WATER MISCELLANEOUS

CAPITAL IMPROVEMENT BUDGET and PROGRAM

FISCAL YEAR 2020

Approved for CSMC 5/21/2019

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
Industrial Park Water Station Upgrades		Water Misc.

DESCRIPTION:

This project will rehabilitate/replace the existing control building and piping for the Industrial Park water station. The project will replace necessary building components, provide new piping, and reconfigure the piping. There are no new connections anticipated as a result of this project. No property acquisition or easements are anticipated for the completion of this project. This project is anticipated to be completed in a single phase. Hollywood tower and well project was placed into operation on 12/27/2017 and should be in service prior to this project. Estimated Construction: Spring 2020 (4 months).

PLANNING JUSTIFICATION:

Comprehensive Plan 7.4.2.A.i.b - Upgrade community water systems to appropriate standards. - The existing condition of the water station and the components are to be modified based on the new elevated storage serving the area. Operations has indicated that the existing station and piping is in need of replacement. The cost estimate is based on a class 5 cost estimate provided by MetCom Operations plus 2.5% escalation per year.

LOCATION:

6th Election District, 5th Sanitary District, Hollywood, Md

APPROPRIATION PHASE	Prior Approval	Budget FY 2020	Five Year Capital Program					Total Project
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
ADMINISTRATION (5%)	\$0	\$8,750	\$0	\$0	\$0	\$0	\$0	\$8,750
PLANNING/DESIGN (10%)	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$17,500
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$175,000	\$0	\$0	\$0	\$0	\$0	\$175,000
INSPECTION (10%)	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$17,500
CONTINGENCIES (10%)	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$17,500
ESCALATION (2.5%)	\$0	\$12,049	\$0	\$0	\$0	\$0	\$0	\$12,049
TOTAL COSTS	\$0	\$248,299	\$0	\$0	\$0	\$0	\$0	\$248,299

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2020	Five Year Capital Program					Balance to Complete
				FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	
MDE/DHCD LOAN	\$248,299		\$248,299						
REVOLVING LOAN FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
METCOM FUNDS	\$248,299								\$248,299
OTHER SOURCES	\$0								
	\$0								
TOTAL FUNDS	\$496,598	\$0	\$248,299	\$0	\$0	\$0	\$0	\$0	\$248,299

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	0%	\$0
REHAB/REPLACEMENT	100%	\$248,299
TOTAL	100%	\$248,299