

State Of Maryland

2022 Bond Initiative Fact Sheet

1. Name Of Project		
Boonsboro WWTP Sludge Dewatering Facility		
2. Senate Sponsor	3. House Sponsor	
Corderman		
4. Jurisdiction (County or Baltimore City)	5. Requested Amount	
Washington County	\$500,000	
6. Purpose of Bond Initiative		
the acquisition, planning, design, construction, repair, renovation, reconstruction, site improvement, and capital equipping of the Boonsboro WWTP Sludge Dewatering Facility		
7. Matching Fund		
Requirements:	Type:	
Grant		
8. Special Provisions		
<input type="checkbox"/> Historical Easement	<input checked="" type="checkbox"/> Non-Sectarian	
9. Contact Name and Title	Contact Ph#	Email Address
Sen. Paul Corderman		paul.corderman@senate.state.md.us
Paul Mantello, Town Manager		301-473-3123
10. Description and Purpose of Organization (Limit length to visible area)		
<p>The Town owns and operates a 0.860 million gallon per day (MGD) design capacity wastewater treatment plant (WWTP) that uses Enhanced Nutrient Removal (ENR) treatment technology for the removal of nitrogen and phosphorus. The treatment facility currently serves a population of approximately 3,600 residents. Accounting for projected population growth in the next 20 years, the WWTP is expected to serve 6,000 residents. The WWTP utilizes advanced treatment technology for the removal of nitrogen and phosphorus, in support of Maryland's efforts to meet the Chesapeake Bay restoration goals. The WWTP generates a liquid sludge (1-2% solids) that is currently being transported to another WWTP for further treatment and disposal. This method of sludge management is costly and comprises approximately 12% of the WWTP's annual operating expense.</p>		

11. Description and Purpose of Project (Limit length to visible area)

To reduce the high costs of hauling mostly water and external dewatering treatment, the Town desires to install sludge dewatering press and storage facility. Utilizing a special press to remove much of the water from the liquid sludge, the sludge is pressed into a solid or cake, and stored for later land application, as a fertilizer. By adding a dewatering phase to our wastewater treatment processes, the Town anticipates a 93% reduction in sludge tonnage produced by the WWTP, from the current 7,018 tons of liquid sludge per year, to 468 tons/year of dewatered sludge. This process is expected to reduce the cost of treating biosolids, from approximately \$180,000/year to \$36,000/year; equal to an estimated 10% reduction in wastewater annual operating costs. Additionally, the Town will change its end use protocols to land apply the treated sludge (biosolids) to agricultural land, thus beneficially recycling the material.

Round all amounts to the nearest \$1,000. The totals in Items 12 (Estimated Capital Costs) and 13 (Proposed Funding Sources) must match. The proposed funding sources must not include the value of real property unless an equivalent value is shown under Estimated Capital Costs.

12. Estimated Capital Costs

Acquisition	
Design	\$130,000
Construction	\$620,000
Equipment	\$400,000
Total	\$1,150,000

13. Proposed Funding Sources - (List all funding sources and amounts.)

Appalachian Regional Commission Grant (Awarded, 1/20)	\$325,000
Town of Boonsboro	\$325,000
FY23 Bond Initiative Request	\$500,000
Total	\$1,150,000

14. Project Schedule (Enter a date or one of the following in each box. N/A, TBD or Complete)			
Begin Design	Complete Design	Begin Construction	Complete Construction
10/01/2021	01/31/2022	08/01/2022	10/31/2022
15. Total Private Funds and Pledges Raised	16. Current Number of People Served Annually at Project Site	17. Number of People to be Served Annually After the Project is Complete	
650000.00	3600	3600	
18. Other State Capital Grants to Recipients in the Past 15 Years			
Legislative Session	Amount	Purpose	
FY20	\$25,000	Boonsboro Parking Lot	
FY22	\$115,000	Keedysville Spring Weir Wall Repair & Renovation	
19. Legal Name and Address of Grantee		Project Address (If Different)	
Mayor & Council of Boonsboro 21 N. Main Street Boonsboro, MD 21713		Boonsboro WWTP 6927 Monroe Road Boonsboro, MD 21713	
20. Legislative District in Which Project is Located	2A - Washington County		
21. Legal Status of Grantee (Please Check One)			
Local Govt.	For Profit	Non Profit	Federal
[X]	[]	[]	[]
22. Grantee Legal Representative		23. If Match Includes Real Property:	
Name:	Paul Mantello	Has An Appraisal Been Done?	Yes/No
Phone:	3014733123		
Address:		If Yes, List Appraisal Dates and Value	
Boonsboro Town Hall 21 N. Main St. Boonsboro, MD 21713			

24. Impact of Project on Staffing and Operating Cost at Project Site			
Current # of Employees	Projected # of Employees	Current Operating Budget	Projected Operating Budget
4	4	1488623.00	1353283.00
25. Ownership of Property (Info Requested by Treasurer's Office for bond purposes)			
A. Will the grantee own or lease (pick one) the property to be improved?			Own
B. If owned, does the grantee plan to sell within 15 years?			No
C. Does the grantee intend to lease any portion of the property to others?			No
D. If property is owned by grantee any space is to be leased, provide the following:			
Lessee	Terms of Lease	Cost Covered by Lease	Square Footage Leased
E. If property is leased by grantee - Provide the following:			
Name of Leaser	Length of Lease	Options to Renew	
26. Building Square Footage:			
Current Space GSF			
Space to be Renovated GSF			
New GSF	12000		

27. Year of Construction of Any Structures Proposed for Renovation, Restoration or Conversion	
28. Comments	
<p>The Towns Sewer Fund recorded a net operating loss, for FY2021. This project will significantly lower operating expenses, lessen the Sewer Funds dependence on General Fund subsidies, and move the Sewer Fund in the direction of solvency. One of the Town's long term goals is to return the sewer fund to the black. Recently, we completed a chemical storage project that saves the Town \$35k/year in chemical costs. Also, we partnered with a non-profit to complete a sewer rate analysis, to better understand our costs and the level of revenues we need to responsibly operate our collections and treatment systems. Lastly, we're exploring options to optimize the energy savings produced by the WWTP's solar field. Installing a sludge dewatering facility will offer significant operating cost efficiencies, now, but especially in the future, as the Town's expected to almost double in the next 20 years.</p> <p>Early in 2021, the Town was awarded a \$325,000 Appalachian Regional Commission (ARC) grant to assist with design and construction of the project. In the current economic environment, long lead times and high inflation have quickly increased the project cost, by approximately 30%, and we are requesting additional funds to fill the gap. The Town must match ARCs \$325k, so an additional \$500k from the State would ensure the project moves forward and on budget. We recently completed the design phase and were ready to begin procurement. Construction is expected, Fall 2022.</p>	