Table 1. Summary of potential areas of oyster replenishment and restoration activity for the 2025 Oyster Replenishment Plan.

		Bushels Needed	Cost Estimate
	Acreage	(1,000	(\$4/bu)
Total Most in Need of			
Replenishment (Shell			
Volume less than 5L)	4,338	4,338,000	\$ 17,352,000
Total in Need of			
Replenishment (Shell			
volume less than 10L)	6,371	6,371,000	\$ 25,484,000
Total Targeted*	881	881,000	\$ 3,504,000

^{*} This includes the cost of seed, shell and rock plantings, it does not include any areas outline in Table 3

COLOR LEGEND								
Most in need	Shell volume less than 5L							
In need	Shell volume less than 10L							
Not in need unless open to harvest	Shell volume greater than 10L							
New Area								

Table 2. Areas available for oyster replenishment and restoration activity for the 2025 Oyster Replenishment Plan.

Notes:

- -The cost estimate is based on average estimated price of \$4 per bushel for shell, \$8 per bushel equivalent of stone, and \$12 per bushel for seed and may include both seed and shell in some locations.
- -These are average prices based on a range of work that has been conducted in the past, the price paid will vary depending on location and the size of the project.
- -The average markets and Brown Shell Volume are derived from the annual VIMS/VMRC Joint oyster assessment survey.
- -Areas are targeted based on criteria outlined in the ORP that include brown shell volume and open harvest status, this incorporates the input of SMAC and the Commission.

Area Name	Average Number of Markets	Average Brown Shell Volume (L)	Acreage	Minium Bushels Needed (750 bu/acre)	Maximum Bushels Needed (1,000 bu/ac)	Cost Estimate	Notes (S=Sanctuary, H=Harvest Area, O=Open Area 24/25, T=Target for 2025 planting,	Funding Source (GF = General Funds, NGF =Non General Funds)	Substrate Type (F=Fossil Shell, A= Alternative Substrate/ Rocks, S =Seed)
James River	4.0	4.0	450	440.500	450,000	# 000 000	ш о т	0.5	-
LOWER JAIL ISLAND	1.2	1.0	150	112,500	150,000	\$600,000		GF	F
UPPER JAIL ISLAND	0.8	1.4	612	459,000	612,000	\$2,448,000			
OFFSHORE SWASH	1.1 1.2	1.7	641	480,750	641,000	\$2,564,000			
SWASH MUD SLOUGH	2.6	1.7	1,230 1,017	922,500 762,750	1,230,000 1,017,000	\$4,920,000 \$4,068,000	, -		
OFFSHORE JAIL ISLAND DAYS POINT	1.4	2.0 3.2	275	206,250	275,000	\$4,068,000			
SWASH	1.4	3.2	201	150,750	201,000	\$1,100,000			
WRECK INSHORE	7.6	5.9	585	438,750	585,000	\$2,340,000	•		
LONG ROCK also Cross Rock	4.0	7.8	41	30,750	41,000	\$164,000			
CRUISER'S SHOAL	8.5	8.3	55	41,250	55,000	\$220,000	•	GF	F
NANSEMOND RIDGE	9.8	8.5	100	75,000	100,000	\$400,000		GF	F
SHANTY ROCK	5.5	8.5	3	2,250	3,000	\$12,000		OI .	
MULBERRY POINT	11.7	9.5	48	36,000	48,000	\$192,000	•		
White Shoal	14.6	9.8	26	19,500	26,000	\$104,000			
DOG SHOAL LOWER	21.4	10.6	35	26,250	35,000	\$140,000			
HIGH SHOAL	13.6	11.2	44	33,000	44,000	\$176,000			
THOMAS ROCK LOWER	21.4	11.2	93	69,750	93,000	\$372,000	H,O		
BALLARD'S MARSH	23.7	11.3	78	58,500	78,000	\$312,000	H,O		
UPPER DEEP WATER SHOAL	46.9	11.6	313	234,750	313,000	\$1,252,000	H,O		
HOTEL ROCK	8.8	12.6	14	10,500	14,000	\$56,000	H,O		
V-ROCK	20.1	13.3	76	57,000	76,000	\$304,000	H,O		
THOMAS ROCK UPPER	37.0	13.3	103	77,250	103,000	\$412,000	H,O		
Lower Brown Shoal	25.8	13.8	82	61,500	82,000	\$328,000	H,O		
LOWER HORSEHEAD	14.6	14.2	21	15,750	21,000	\$84,000	H,O		
SNYDER'S ROCK	26.7	14.3	9	6,750	9,000	\$36,000	H,O		
DRY LUMPS	29.0	16.0	6	4,500	6,000	\$24,000	H,O		
POINT OF SHOALS	31.5	16.0	155	116,250	155,000	\$620,000	Н,О		
DOG SHOAL UPPER	32.6	17.4	13	9,750	13,000	\$52,000	Н,О		

Upper Brown Shoal	32.8	18.4	23	17,250	23,000	\$92,000	ПО		
MOON ROCK	24.7	19.0	3	2,250	3,000	\$12,000			
			7			\$12,000	•		
TRIANGLE ROCK	36.0	 	20	5,250	7,000	\$28,000			
LOWER DEEP WATER SHOAL	37.5			15,000	20,000		•		
MIDDLE HORSEHEAD	53.1	21.6	44	33,000	44,000	\$176,000			
UPPER HORSEHEAD	58.5	28.0	5	3,750	5,000	\$20,000	н,0		
							Notes		
							(S=Sanctuary,	Funding Source	Substrate Type
				Minium	Maximum		H=Harvest Area,	(GF = General	(F=Fossil Shell, A=
	Average	Average		Bushels	Bushels		O=Open Area	Funds, NGF	Alternative
	Number of	Brown Shell		Needed (750	Needed (1,000		24/25, T=Target for	=Non General	Substrate/ Rocks, S
Area Name	Markets	Volume (L)	Acreage	bu/acre)	bu/ac)	Cost Estimate	2025 planting)	Funds)	=Seed)
York and Mobjack									
Tow Stake East	4.0	2.8	6	4,500	6,000	\$24,000	Н,О		
Sarah's Creek 2	4.8	4.4	14	10,500	14,000	\$56,000	S		
PULTZ BAR	6.7	5.5	14	10,500	14,000	\$56,000	H,O		
Brown's Bay #2	6.6	5.7	22	16,500	22,000	\$88,000	S		
Tow Stake West	4.8	6.0	3	2,250	3,000	\$12,000	Н,О		
Timberneck	3.8	6.9	47	35,250	47,000	\$188,000	H,O,T	GF	F
Sarah's Creek 1	12.4	8.1	9	6,750	9,000	\$36,000	S		
Cheatham PG 1	8.0	8.5	2	1,500	2,000	\$8,000	S		
Brown's Bay #1	15.3	8.7	83	62,250	83,000	\$332,000	S		
Pages Rock	8.8	10.8	116	87,000	116,000	\$464,000	Н,О		
Aberdeen Rock	11.0	10.9	45	33,750	45,000	\$180,000	Н,О		
Indian Field PG 2	26.7	17.0	1	750	1,000	\$4,000	S		
							Notes		
							(S=Sanctuary,	Funding Source	Substrate Type
				Minium	Maximum		H=Harvest Area,	(GF = General	(F=Fossil Shell, A=
	Average	Average		Bushels	Bushels		O=Open Area	Funds, NGF	Alternative
	Number of	Brown Shell		Needed (750	Needed (1,000		24/25, T=Target for	=Non General	Substrate/ Rocks, S
Area Name	Markets	Volume (L)	Acreage	bu/acre)	bu/ac)	Cost Estimate	2025 planting)	Funds)	=Seed)
Piankatank/Deep Rock		ν- ν- ν-					1	,	
THOMPSONS	1.0	1.3	1	750	1,000	\$4,000	S		
SHIPLEYS EDGE	0.0		1	750	1,000	\$4,000			
5 LE10 LD 0L	0.0	1.0		, 30	1,000	Ψ-,000			

PALACE BAR B also PALACE B	2.0	2.2	7	5,250	7,000	\$28,000	S		
DOCS VIEW	3.3	5.0	1	750	1,000	\$4,000			
Iron Point Reef - TNC	6.3	5.0	4	3,000	4,000	\$16,000			
BURTON POINT B	10.3	5.4	8	6,000	8,000	\$32,000			
ISLAND BAR	2.7	6.1	5	3,750	5,000	\$20,000			
Cape Toon NOAA Stone Plant	7.0	6.6	5	3,750	5,000	\$20,000			
Burton Point NOAA Stone Plar	9.5	7.0	16	12,000	16,000	\$64,000			
Fishing Point	8.6	7.0	2	1,500	2,000	\$8,000	S		
HERON ROCK	9.6	7.0	13	9,750	13,000	\$52,000	S		
COBBS CREEK	9.3	7.2	4	3,000	4,000	\$16,000	S		
DEEP ROCK 4	8.4	7.2	8	6,000	8,000	\$32,000	Н,О		
HILLS BAY	12.0	7.3	5	3,750	5,000	\$20,000	S,T	GF	F
BURTON POINT	10.4	7.5	39	29,250	39,000	\$156,000	H,O,T	GF	F
CAPE TUNE	6.9	7.5	41	30,750	41,000	\$164,000	S,T	GF	F
PALACE BAR also PALACE BAR	6.1	8.1	38	28,500	38,000	\$152,000	H,O		
STOVE POINT	8.4	8.8	5	3,750	5,000	\$20,000	S		
Palace Bar NOAA Stone Plant	8.3	9.0	9	6,750	9,000	\$36,000	S		
Island Bar NOAA Stone Plant	7.3	9.0	2	1,500	2,000	\$8,000	S		
Ginney Point NOAA Stone Plar	9.0	9.1	6	4,500	6,000	\$24,000	S		
BLAND POINT	6.4	9.6	11	8,250	11,000	\$44,000	S		
Stove Point NOAA Stone Plant	19.9	10.4	9	6,750	9,000	\$36,000	S		
GINNEY POINT	15.5	11.5	4	3,000	4,000	\$16,000	S		
Heron Rock NOAA Stone Plant	20.3	11.5	3	2,250	3,000	\$12,000	S		
Bland Point NOAA Stone Plant	14.1	13.0	11	8,250	11,000	\$44,000	S		
BEVERLYS 4	19.4	13.6	15	11,250	15,000	\$60,000			
BEVERLYS 3	20.8	14.3	7	5,250	7,000	\$28,000	Н		
BEVERLYS 1	24.0	14.7	14	10,500	14,000	\$56,000			
THREE BRANCHES	24.0	15.3	1	750	1,000	\$4,000			
BEVERLYS 2	26.8	15.4	7	5,250	7,000	\$28,000			
DEEP ROCK	24.8	15.6	38	28,500	38,000	\$152,000			
MILFORD HAVEN	50.0	18.7	1	750	1,000	\$4,000	Н		

							Notes		
							(S=Sanctuary,	Funding Source	
				Minium	Maximum		H=Harvest Area,	(GF = General	(F=Fossil Shell, A=
	Average	Average		Bushels	Bushels		O=Open Area	Funds, NGF	Alternative
	Number of	Brown Shell		•	Needed (1,000		24/25, T=Target for	=Non General	Substrate/ Rocks, S
Area Name	Markets	Volume (L)	Acreage	bu/acre)	bu/ac)	Cost Estimate	2025 planting)	Funds)	=Seed)
Rappahannock River									
Mosquito Island	0.7	0.2	2	1,500	2,000				
Drumming Ground sanctuary:	0.3	1.3	3	2,250	3,000		•	GF	Α
Mill Creek sanctuary	18.8	4.8	4	3,000	4,000		·	GF	Α
Bush Park	5.0	5.2	4	3,000	4,000				
Bush Park 2018 (Stone)	7.6	5.3	6	4,500	6,000	\$24,000			
Drumming Ground sanctuary	9.5	5.4	7	5,250	7,000	\$56,000		GF	A
Butler's Hole West	9.0	6.6	7	5,250	7,000	\$28,000		GF	F
Broad Creek Inshore	9.0	6.9	8	6,000	8,000	\$32,000	• •	GF	F
Ferry Rock	7.3	7.0	4	3,000	4,000	\$16,000			
Parrot Rock sanctuary	11.0	7.3	10	7,500	10,000	\$40,000	S,T	GF	F
Lower Edge Broad Creek Midd	9.9	7.4	13	9,750	13,000	\$52,000	H,O,T	GF	F
Larsons Bay	11.7	7.5	2	1,500	2,000	\$8,000	S		
Broad Creek	10.2	7.8	16	12,000	16,000	\$64,000	H,O,T	GF	F
Lower Edge Broad Creek West	13.7	8.1	22	16,500	22,000	\$88,000	H,O,T	GF	F
Sturgeon Bar West (S.P. 552)	14.4	8.2	8	6,000	8,000	\$32,000	Н		
Big Wicks B	7.3	8.3	24	18,000	24,000	\$96,000	Н		
Corrotoman Point C-3	10.4	8.4	8	6,000	8,000	\$32,000	Н		
MORATTICO BAR	7.2	8.6	121	90,750	121,000	\$484,000	Н,О		
Larson's Lower sanctuary	18.3	8.7	3	2,250	3,000	\$12,000	S		
Lower Edge Broad Creek East	11.7	9.6	18	13,500	18,000	\$72,000	H,O		
Temple Bay 5	15.0	9.6	18	13,500	18,000	\$72,000	H,O,T	GF	F
Spike B offshore	13.0	9.8	6	4,500	6,000	\$24,000	H,O		
Little Wicks A	14.0	10.0	6	4,500	6,000	\$24,000	H,O		
Little Wicks B	19.3	10.0	7	5,250	7,000	\$28,000	H,O		
STOVE POINT	15.5	10.2	30	22,500	30,000	\$120,000	H,O		
Whiting Creek	16.8	10.3	13	9,750	13,000	\$52,000	Н		
Corrotoman sanctuary	23.3	10.3	9	6,750	9,000	\$36,000	S		
Temple Bay sanctuary	12.3	10.3	9	6,750	9,000	\$36,000	S		
Corrotoman Point C-1	14.0	10.4	9	6,750	9,000	\$36,000	Н		

Corrotoman Point C-2	18.0	10.4	9	6,750	9,000	\$36,000	Н		
Temple Bay 2 (S.P. 136)	19.8	10.6	6	4,500	6,000	\$24,000	H,O,T	GF	F
Butler's Hole East	14.8	11.0	6	4,500	6,000	\$24,000	H,O		
Whitehouse East	15.6	11.0	13	9,750	13,000	\$52,000	S		
Sturgeon Bar East (S.P. 551)	21.0	11.3	11	8,250	11,000	\$44,000	Н		
Parrot's Rock West	16.0	11.3	9	6,750	9,000	\$36,000	H,O,T	GF	F
Monaskin Bluff	22.8	11.4	162	121,500	162,000	\$648,000	H,O		
Middle Ground	8.2	11.4	5	3,750	5,000	\$20,000	H,O,T	GF	F
Spike	19.8	11.6	7	5,250	7,000	\$28,000	H,O		
Parrot's Rock East	22.2	12.1	11	8,250	11,000	\$44,000	H,O,T	GF	F
Butler's Hole gravel plant	19.0	12.3	5	3,750	5,000	\$20,000	H,O		
Drumming Ground Inshore	16.8	12.8	29	21,750	29,000	\$116,000	Н		
North End S.P. 553	4.2	12.8	10	7,500	10,000	\$40,000	Н		
Butler's Hole sanctuary	25.5	13.3	2	1,500	2,000	\$8,000	S		
Broad Creek sanctuary	25.5	14.0	8	6,000	8,000	\$32,000	S		
Waterview C	14.8	14.0	19	14,250	19,000	\$76,000	H,O		
Smokey Point	21.2	14.2	26	19,500	26,000	\$104,000	H,O		
Big Wicks C	27.0	15.3	24	18,000	24,000	\$96,000	H,O		
Temple Bay 3	28.8	15.5	5	3,750	5,000	\$20,000	H,O,T	GF	F
Larson's Upper sanctuary	28.5	15.8	4	3,000	4,000	\$16,000	S		
Spike A	30.5	15.8	2	1,500	2,000	\$8,000	H,O		
Waterview B	24.0	16.0	20	15,000	20,000	\$80,000	H,O		
Whitehouse West	22.4	16.4	14	10,500	14,000	\$56,000	S		
Temple Bay 4	24.0	16.5	12	9,000	12,000	\$48,000	H,O,T	GF	F
Drumming Ground Offshore	39.8	18.2	28	21,000	28,000	\$112,000	Н		
Hog House Inshore	40.5	18.5	4	3,000	4,000	\$48,000	H,T	NGF/GF	S
Hog House Offshore	39.8	19.5	6	4,500	6,000	\$72,000	H,T	NGF/GF	S
Temple Bay 1 (S.P. 138)	33.0	19.5	6	4,500	6,000	\$24,000	H,O,T	GF	F
Lower Sturgeon sanctuary	48.7	20.7	1	750	1,000	\$4,000	S		
Drumming Ground Offshore A	76.0	22.6	7	5,250	7,000	\$28,000	Н		
Upper Sturgeon sanctuary	58.7	23.0	5	3,750	5,000	\$20,000	S		

							Notes		
							(S=Sanctuary,	Funding Source	Substrate Type
				Minium	Maximum		H=Harvest Area,	(GF = General	(F=Fossil Shell, A=
	Average	Average		Bushels	Bushels		O=Open Area	Funds, NGF	Alternative
	Number of	Brown Shell		Needed (750	Needed (1,000		24/25, T=Target for	=Non General	Substrate/ Rocks, S
Area Name	Markets	Volume (L)	Acreage	bu/acre)	bu/ac)	Cost Estimate	2025 planting)	Funds)	=Seed)
Great Wicomico/Black Berry									
VMRC 12/GW Corps 17	0.0	0.0	2	1,500	2,000	\$8,000	S		
Mill Creek East	1.3	0.6	2	1,500	2,000	\$8,000	H,O		
VMRC 15/GW Corps 21	2.3	1.3	3	2,250	3,000	\$12,000	S		
Cockrell Creek Expansion Sto	15.8	3.8	10	7,500	10,000	\$40,000	S		
VMRC 10/GW Corps 12, 13	10.3	5.3	5	3,750	5,000	\$20,000	S		
VMRC 8/GW Corps 9	3.1	5.4	14	10,500	14,000	\$56,000	S		
VMRC 9/GW Corps 10	6.3	5.5	7	5,250	7,000	\$28,000	S		
VMRC 3/GW Corps 4	1.7	5.7	3	2,250	3,000	\$12,000	S		
VMRC 13/GW Corps 18 & 19	2.0	6.3	6	4,500	6,000	\$24,000	S		
VMRC 11/GW Corps 14,15 & 1	4.8	6.7	14	10,500	14,000	\$56,000	S		
HILLY WASH	7.6	7.1	3	2,250	3,000	\$12,000	S		
HARCUM FLATS	7.5	7.5	6	4,500	6,000	\$24,000	S		
Dameron Marsh East	14.5	7.8	12	9,000	12,000	\$48,000	S		
ROGUE POINT	5.8	7.8	3	2,250	3,000	\$12,000	S		
INGRAM'S Bay South	9.2	10.0	9	6,750	9,000	\$36,000	H,O		
SANDY POINT	10.6	10.4	12	9,000	12,000	\$48,000	H,O		
VMRC 4/GW Corps 5	18.7	11.3	3	2,250	3,000	\$12,000	S		
Rogue Point Expansion Stone	9.3	11.5	5	3,750	5,000	\$20,000	S		
Shell Creek Expansion Stone 2	34.8	12.3	5	3,750	5,000	\$20,000	S		
Back Yard Stone 2021	6.3	12.5	5	3,750	5,000	\$20,000	S		
SHELL BAR	12.7	12.6	18	13,500	18,000	\$72,000	H,O		
VMRC 1/GW Corps 1&2	17.3	12.8	6	4,500	6,000	\$24,000	S		
CRANES CREEK also WHALEY	16.8	12.8	13	9,750	13,000	\$52,000	H,O		
Cockrell Creek	33.3	13.0	4	3,000	4,000	\$16,000	H,O		
HAYNIE POINT	23.4	13.0	5	3,750	5,000	\$20,000	H,O		
FLEET POINT	32.0	13.3	15	11,250	15,000	\$60,000	H,O		
VMRC 16/GW Corps 22, 23 & :	20.0	14.0	7	5,250	7,000	\$28,000	S		
BLACKBERRY HANG	43.7	15.3	11	8,250	11,000	\$44,000	H,O		
INGRAM'S Bay North	15.0	18.0	22	16,500	22,000	\$88,000	H,O		

							Notes		
							(S=Sanctuary,	Funding Source	Substrate Type
				Minium	Maximum		H=Harvest Area,	(GF = General	(F=Fossil Shell, A=
	Average	Average		Bushels	Bushels		O=Open Area	Funds, NGF	Alternative
	Number of	Brown Shell		Needed (750	Needed (1,000		24/25, T=Target for	=Non General	Substrate/ Rocks, S
Area Name	Markets	Volume (L)	Acreage	bu/acre)	bu/ac)	Cost Estimate	2025 planting)	Funds)	=Seed)
Tangier/Pocomoke									
Public Ground #10 H-2	0.8	0.9	21	15,750	21,000	\$84,000	H,O		
Public Ground #10 H-1	4.0	3.8	70	52,500	70,000	\$280,000	H,O		
PG17 Parker's Rock A	2.2	4.4	34	25,500	34,000	\$136,000	Н		
Public Ground #9 H-2	4.6	4.7	32	24,000	32,000	\$24,000	H,O,T	NGF/GF	S
Marshalls Rock	9.3	5.8	40	30,000	40,000	\$160,000	H,T	GF	F
Public Ground 11-1	6.7	6.1	37	27,750	37,000	\$148,000	H,O,T	GF	F
PG13 H-2	8.6	6.5	40	30,000	40,000	\$160,000	H,O,T	GF	F
PG13 H-5	6.0	6.5	19	14,250	19,000	\$76,000	H,O,T	GF	F
Public Ground #9 H-1	6.3	6.8	21	15,750	21,000	\$24,000	H,O	NGF/GF	S
PG07 H-3 Thoroughfare	10.8	6.9	26	19,500	26,000	\$104,000	H,O		
PG13 H-1	6.7	8.6	31	23,250	31,000	\$124,000	H,O,T	GF	F
PG13 H-4	9.8	8.8	28	21,000	28,000	\$112,000	H,O,T	GF	F
PG18 Onancock Rock A	5.3	9.0	10	7,500	10,000	\$40,000	Н		
Byrd Rock	4.8	9.5	65	48,750	65,000	\$260,000	Н		
PG08-H4 California Rock	15.0	10.0	15	11,250	15,000	\$60,000	H,O		
Island Rock	20.1	10.8	47	35,250	47,000	\$188,000	Н		
PG13 H-3	19.8	10.8	24	18,000	24,000	\$104,000	H,O,T	NGF/GF	F/S
PG08-H2 California Rock	17.8	11.0	9	6,750	9,000	\$36,000	H,O		
PG07 H-5 Thoroughfare	14.8	11.8	9	6,750	9,000	\$36,000	H,O		
PG07 H-1 Thoroughfare	22.0	11.8	14	10,500	14,000	\$56,000	H,O		
PG04 Johnson's Rock	10.5	12.0	40	30,000	40,000	\$160,000	Н		
PG05 H-1 Fox Island Rock	14.5	12.0	6	4,500	6,000	\$24,000	Н		
PG08-H3 California Rock	10.3	12.3	7	5,250	7,000	\$28,000	H,O		
PG07 H-2 Thoroughfare	28.2	12.6	15	11,250	15,000	\$60,000	H,O		
PG08-H1 California Rock	24.0	13.3	9	6,750	9,000	\$36,000	H,O		
PG01 Hurley's	19.3	13.3	7	5,250	7,000	\$28,000	H,O		
PG07 H-4 Thoroughfare	23.0	14.3	4	3,000	4,000	\$16,000	H,O		
Cod Harbor	32.8	15.2	5	3,750	5,000	\$20,000	S		

 $Table \ 3. \ Additional \ areas \ with \ planned \ replenishment \ and \ restoration \ activity \ for \ the \ 2025 \ Oyster \ Replenishment \ Plan.$

Note:

These are new areas that are not currently surveyed as part of the VIMS/VMRC survey.

Area Name	Acreage	Cost Estimate	Funding Source (GF = General Funds, NGF =Non General Funds, F =Federal)	Substrate Type (D=Dredge Shell, A= Alternative Substrate/ Rocks)
Eastern Shore Seaside	~15	\$200,000	,	D
	~13			U
Eastern Shore Bayside	~15	\$225,000	NGF/GF	D
Mobjack Bay (2023 Project)	~20	\$750,000	F/NGF	A
Pocomoke	~40	\$160,000	GF	F
Black Berry Hangs	~10	\$24,000	GF/NGF	S