AN Job No. 120-12151-000-100											
As of 8/1/24, CIP in 2023\$											
43 01 07 17 24, CIF III 20233											
		Project	ted Year when Fu	nds will be need	ed		Total Needs 2025 to	Unfunded Balance	Total Needs 2027 to	Total Needs 2026 to	
Item	2025	2026	2027	2028	2029	2030	2030	in 2026	2027 to	2020 10	Rounded
DISTRICT IMPROVEMENTS & REHABILITATION											
1 Surface Water Plant	\$3,277,000	\$0	\$3,115,000	\$0	\$0	\$476,000	\$6,868,000		\$3,591,000		
2 Ground Water Plants	\$2,485,000	\$0	\$864,000	\$0	\$0	\$206,000	\$3,555,000		\$1,070,000		
3 Water Distribution System	\$274,000	\$1,438,000	\$1,352,000	\$1,574,000	\$2,407,000	\$1,503,000	\$8,548,000		\$6,836,000		
4 Sanitary Sewer System	\$1,038,000	\$1,164,000	\$1,293,000	\$1,308,000	\$1,285,000	\$1,349,000	\$7,437,000		\$5,235,000		
5 Lift Station & Force Mains	\$583,000	\$134,000	\$355,000	\$0	\$159,000	\$151,000	\$1,382,000		\$665,000		
6 Wastewater Treatment Plant	\$0	\$6,580,000	\$19,618,000	\$26,905,000	\$0	\$4,561,000	\$57,664,000		\$51,084,000		
7 Detention Ponds	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$52,00 <del>4</del> ,000		
8 Administration Building	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
9 Water Line Ext. Phase 1 to serve Compass Tr Defined Area	\$210,000	1	70	70	70	70	\$210,000				
10 Water Line Ext. Phase 2 to serve Compass Tr Defined Area	\$298,000						\$298,000				
11 Force Main Phase 1 to serve Compass Tr Defined Area	\$519,000						\$519,000				
12 Force Main Phase 2 to serve Compass Tr Defined Area	\$1,059,000						\$1,059,000				
13 Lift Station to serve Compass Tr. Defined Area	\$949,000						\$949,000				
DISTRICT IMPROVEMENTS & REHABILITATION TOTAL	\$10,692,000	\$9,316,000	\$26,597,000	\$29,787,000	\$3,851,000	\$8,246,000	\$88,489,000		\$68,481,000		
INFRASTRUCTURE EXPANSION											
1 Newport Section 4, PR 4 (DH Builders)	\$243,000						\$243,000				
INFRASTRUCTURE EXPANSION ITEMS TOTALS	\$243,000	\$0	\$0	\$0	\$0	\$0	\$243,000				
Contingencies											
1 Contingencies (10% of District Construction Costs)	<u>\$1,069,200</u>	\$931,600	\$2,659,700	<u>\$2,978,700</u>	\$385,100	<u>\$824,600</u>	\$8,848,900		\$6,848,100		
Contingencies Total	\$1,069,200	\$931,600	\$2,659,700	\$2,978,700	\$385,100	\$824,600	\$8,848,900		\$6,848,100		
Engineering											
1 Developer Engineering											
2 Engineering & Surveying (22% of Construction Costs)	\$2,352,240	\$2,049,520	\$5,851,340	\$6,553,140	\$847,220	\$1,814,120	\$19,467,580		\$15,065,820		
Engineering Total	\$2,352,240	\$2,049,520	\$5,851,340	\$6,553,140	\$847,220	\$1,814,120	\$19,467,580		\$15,065,820		
CONSTRUCTION COSTS	\$14,356,440	\$12,297,120	\$35,108,040	\$39,318,840	\$5,083,320	\$10,884,720	\$117,048,480	\$3,040,560	\$90,394,920	\$93,435,480	\$94,000,0
	1-										
NON-CONSTRUCTION COSTS (Normally 15 % of Total BIR)	\$2,533,489	\$2,170,080	<u>\$6,195,536</u>	\$6,938,61 <u>9</u>	<u>\$897,056</u>	\$1,920,833	\$20,655,613	<u>\$536,569</u>	\$15,952,044	\$16,488,613	\$16,000,0
TOTAL BOND ISSUE AMOUNT	\$16,889,929	\$14,467,200	\$41,303,576	\$46,257,459	\$5,980,376	\$12,805,553	\$137,704,093	\$3,577,130	\$106,346,964	\$109,924,094	\$110,000
WSD Bond Capacity											
Previous WSD Bond Capacity	\$27,780,000	\$10,890,070	\$106,422,870	\$65,119,294	\$18,861,835	\$12,881,459					
Proposed Bond Issues during the year	\$16,889,929	\$14,467,200	\$41,303,576	\$46,257,459	\$5,980,376	\$12,805,553					
Remaining WSD Bond Capacity Balance	\$10,890,070	-\$3,577,130	\$65,119,294	\$18,861,835	\$12,881,459	\$75,906	1				
2024 Bond Authorization Amount	\$0	\$110,000,000	\$0	\$0	\$0	\$0	1				

Newport MUD			Comple																			$\longrightarrow$	
Surface Water Treatment Plan As of 8/1/24	nt			nger applicable ed but not requ		function						+ +											-
1.0.0.0,0,0												Bond Author	ization Prior	r to 2020	Bond F	unds from 2020 Bond Election	n		Ye	ear Anticipated			
											Bond		Bond			Bond	Bond					$\Box$	
			Vhen	Cost	Cost	Cost	LAN		Bid	Operations	Issue #4		Issue #6	Frankria Fran	a de	Issue #7 \$20.84M	Issue #8 \$12.43M						
No. Project	Description of Problem, Project and Information			(2019\$)	Cost (2022\$)	Cost (2023\$)	Project Number	Status (as of 8/1/24)	Amount	Funds 2020	\$5.5M 2016	\$4.225M 2018	-	Surplus Fur Funds Nee	ded 20			2024 20	125	2026 2027	2028	2029	2030
Projects required to prevent I	ļ	<u>Justineation</u> (ty	rears) 1	(20159)	(LULLY)	1202371	Number	<u> </u>	Amount	2020	2010	2010	2015	Tunus Nec	20	2021 2021	2023	2024 20	2.5	2020 2027	2020	2023	2030
	It is believed that the Scraper Arm is out of alignment and is rubbing holes in the center column near bottom of the clarifier. A portion of the aeration feed to the clarifier is not passing through the center well and is not being properly clarified.	scraner arms becomes lodged	\$1	\$100,000	,	1	12195	Completed 5/21/20	\$24,955	\$24,995	-	'	,	,	' '		'	'	, ,	'			
Replace Existing Hydro Tank	The 20,000 gallon hydro-tank has only ~20% of its interior coating remaining and some metal has corroded. After the design began, the compressor was found to be at the end of its useful life and the controls were inoperable. Both were replaced.	Improved safety and operation	\$	\$70,000			12194	Completed 9/1/20	\$163,500		\$50,000	;	\$45,000										
Elevated Storage Tank 3 Interior & Exterior Recoating	600,000 gallon, composite tank. Exterior and interior recoating required.	The EST was coated in 2006. It should be recoated every 8-10 years or 2014-2016.	\$4	\$425,000			12197	Completed 8/20/20	\$351,500	1		\$	425,000	\$73,500	1.1	, ,				_			
Projects required for existing	plant to meet inspections, permit or regulations																					-	
																						$\longrightarrow$	
1 Ground Storage Tank Exterior Coating	The existing GST has mold buildup on the exterior of the tank. The Operator tried power washing but the buildup does not come off.	Prior to project inspect tanks to verify integrity of both tanks at SWTP	2027 \$1	\$120,000		\$150,000														\$150,000			
Projects required due to proje																							
Expand SWTP from 2.4 to 4 MGD	Will need to expand the SWTP to meet buildout projections and HGSD requirements beginning in 2025. Need to model the Water System to confirm. Hydraulic Modeling is \$40,000. Low range cost is \$4/gpd and high range is \$7/gpd. Projects #1 thru #9 below would be included in this expansion.	Meet buildout projects and HGSD requirements beginning in 2025			\$4,000,000 - \$5,000,000	\$7,000,000	12263	Project is in design and projected to bid Q3 2024; delay with Purifics and TCEQ coordination.									\$4,000,000	\$3,00	0,000				
2 New Generator	Existing generator is 350 kW and is almost 25 yrs. old. The generator will be under-sized for the future needs (additional onsite 1300 gpm well with 200 Hp motor/pump). Need 700 kW Diesel Generator or 750 kW Natural Gas Generator. This assumes there is an adequate natural gas supply.			\$800,000- \$900,000	\$900,000	\$950,000	125-10043	To be included in the well replacement project.															
Designation of the state of the		and the support of																				$\vdash$	
Projects to improve the treatr	ment process and operational efficiencies, if chosen individually fro																						
1 Treatability Study	This study would evaluate the most efficient mix of filter media and membrane filters to produce the optimum water quality at minimum operational costs	Improve the operational efficiencies	\$2	\$250,000				No longer applicable due to Purifics															
1A Purifics Filter Pilot Study	This study would evaluate the performance effectiveness and y efficiency of the Purfics Filter to the treat/remove Total Organic Carbon (TOC) and Pathogens within the purification process	Improve the operational efficiencies	\$15,0	000- \$25,000			12151	Completed November 2020	\$23,000	\$23,000									, ,				
2 Add Membrane Filters	After determination of treatability study	Improve the operational efficiencies			\$7,038,000- \$7,820,000		12210/ 12263	PER for Pilot Study completed 2/21 and sent to TCEQ 7/21. Board purchased filters 9/22. Filters included in SWTP expansion	\$7,820,000							\$7,820,000							
Add Streaming Current/Zeta 3 Potentiometer for coagulant dosage control. Add online monitoring of	Adding equipment to monitor water quality and allow more accuracy in chemical dosing. Chemical dosing is a function of both water flow rate and water quality.	Improve the operational efficiencies	\$	\$40,000				No longer applicable due to Purifics															
pH (D3), 4 Monochloramine, Total Cl2, NTU & Nitrate/Nitrite	Adding equipment to allow online analysis of water quantity and disinfectant concentrations	Improve the operational efficiencies	\$	\$80,000				No longer applicable due to Purifics															
Add online monitoring of pH (D2), Monochloramine, Total Cl2, Free Ammonia	Adding equipment to allow online analysis of water quantity and	Ensures chemical dosing is adequate and prevents overdosing	\$	\$75,000				No longer applicable due to Purifics															
Add Inline Mixers at  Clarifiers for Chlorine and Liquid Ammonia Sulphate	Plant does not meet current TAC Ch 290.42e7 regulations to flash mix Chloramines but did meet the regulations in place at the time of design & construction. These changes will be required with a plant expansion. An inline mixer would be added to fully disperse disinfecting chemicals.	Include with SWTP Expansion	\$	\$20,000				No longer applicable due to Purifics															
Change Filter Media from Powder Activated Carbor to Sand and Granular Activated Carbon	n The current Powder Activated Carbon Filter Media is very messy to	Improve operations	\$2	\$200,000				No longer applicable due to Purifics															
Add Pretreatment Basin 8 to add Chlorine and Aerate the Water		Improve the operational efficiencies	\$5	\$500,000				No longer applicable due to Purifics															
Add equipment to mix 9 water within the Water Storage Tanks	Pulsed air. Red Valve, Pipeflex, or SolarBee. Will help keep nitrification down when using chloramine. Could potentially remove this project.	Improve water quality 2	2030 \$3	\$350,000	\$350,000	\$370,000		Desired but not required for plant function (PUS 12/22)															\$370,000
	Water well at WP#2 is not used due to taste & odor issues. A TV di inspection shows the well casing is in bad condition. Recommend abandoning and plugging the well at WP#2 and drill new well at SWTP.	A second well is needed 2			\$1,800,000- \$2,200,000	\$2,500,000	125-10043	Began preliminary layout of proposed well Q4 2023. BI7 Funds Reallocated to purchase Purifics Filters. Plan to replace WP2, see Water Plant Tab.												\$2,500,000			
Surface Water Treatmen	nt Plant Projects Total					\$10,970,000					\$50,000	\$0 \$	470,000	\$	0 \$	\$7,820,000 \$0	\$4,000,000	\$0 \$3,00	0,000	\$0 \$2,650,000	\$0	\$0	\$370,000
TOTAL INCLUDING TOTAL	ATION VALUES (59/ nonvious from 2024 2025 and 20/ nonvious	037 3030\									\$50.000	ec -	470 000	***		0 67 000 000	¢4 000 000	60 600	7 000	60 60 445 600	¢o.	60	6476 000
TOTAL INCLUDING INFLA	ATION VALUES (5% per year from 2024-2026 and 3% per year from 2	027-2030]								+	\$50,000	\$0 \$	\$470,000	\$0 \$	0 \$	0 \$7,820,000 \$0	\$4,000,000	\$0 \$3,27	7,000	\$0 \$3,115,000	\$0	\$0 \$	p+1 0,000
<u> </u>	<u> </u>	1						1		1				1	1 1		- 1			1			

Newpo	rt MUD			Desired but	not require	d for plant fun	ction	1																	$\overline{}$	
Water				Further Inv	-																					-
As of 8	1/24																									
													Bond Auti	orization Pi	ior to 2020	Bon	l Funds f	rom May 20	20 Bond Election	1		Year Anti	cipated			
												Bond	Bond	Bond				Bond	Bond							
				When				LAN				Issue #4	Issue #5	Issue #6			l:	ssue #7	Issue #8	3						
				Needed	Cost	Cost	Cost	Project			Operations	\$5.5M	\$4.225M	\$7.5M	Surplus	Funds	\$	20.84M	\$12.43	1						
No.	<u>Project</u>	Description of Problem, Project and Information	<u>Justification</u>	(years)	(2019\$)	(2022\$)	(2023\$)	Number	Status (as of 8/1/24)	<b>Bid Amount</b>	<u>Funds</u>	2016	2018	2019	<u>Funds</u>	Needed 2	020	2021	2022 2023	2024	2025	2026	2027 2	028	2029	2030
	Water Plant No. 1 (Constructed in 1978)																									
	Replace the two existing submersible pump	One pump is 60 HP and the other is 75 HP. Every 8 - 10 years the motor																								
1	motors (combined 1800 gpm) in with one	and pump require rehab. Consider replacing the pumps with a single	Reduce rehab cost	2026	\$300,000	\$400,000	\$350,000	125-10035	i														\$400,000			
	vertical turbine motor and pump	pump and turbine motor for ease of rehab.																								
2	Reduce odor and taste issues	System improvements to reduce H2S presence in groundwater	Sulfide removal		\$200,000	\$200,000	\$500,000	125-10035	PER completed 12/23								\$	200,000			\$ 300,000					
3	Remove & replace all valves	The site has 30 year old valves, which are difficult to operate				\$200,000	\$225,000																\$225,000			
4	Change the roof pitch and recoat of building	Existing roof is flat and doesn't drain well, possibly change to gable roof			\$50,000	\$50,000																				\$50,000
5	Add equipment to mix water within the 500,000 gallon Water Storage Tank	) Add mixing equipment to keep consistent water age throughout tank and provide uniform chlorine residual			\$110,000	\$110,000	\$110,000	125-10035																		\$110,000
6	Install one isolation valve on distribution pipe inside plant	The existing water plant does not have an isolation valve and one is needed for maintenance purposes.			\$15,000	\$15,000								\$15,000												
7	Replace booster pumps and concrete pads	There are four booster pumps that were installed in 1978. The booster pump pads sank due to 2023 drought causing issues with pipe connections.					\$1,500,000	125-10035																		
	Water Plant No. 2 (Constructed in 1973)																									
1	Cap and abandon existing Water Well at Water Plant #2 (1300 gpm).	Well is not used. A 2018 inspection shows casing in poor condition and water quality is not good. Investigating whether issues can be remediated to bring well back online or replacement well is required.		2026	\$40,000	\$150,000	\$150,000	125-10043	Well to be capped by fall 202 unless rehabilitated. Replacement well is included in Surface Water Plant Tab.	t							Ş	640,000					\$110,000			
2	Install 20,000 gallon Hydro Tank	Well may require a separate hydro tank if placed at water plant 2, otherwise place at water plant 1. Tank will provide pressure to system required for ACR.		2025			\$225,000														\$225,000					
								1					1												$\rightarrow$	
3	Install 400,000 gallon Ground Storage Tank	Well may require a ground storage tank if placed at water plant 2, otherwise place at water plant 1. Tank will provide water supply redundancy and pressure to system required for ACR.		2025			\$1,750,000														\$1,750,000					
Make	Next Prejects Total				Ć74 F 000	£1 13F 600	Ć4 010 000			+		ćo	ćo	Ć1F 000	ćo	Ć0	0 0	240.000	60 60	ćc.	¢2.275.000	ćc	¢735.000	ćo	ćo	Ć1C0 000
water	Plant Projects Total				\$/15,000	\$1,125,000	\$4,810,000	-		+		\$0	\$0	\$15,000	\$0	\$0	SU Ş	240,000	\$0 \$0	\$0	\$2,275,000	\$0	\$735,000	\$0	\$0	\$160,000
	TOTAL INCLUDING INFLATION VALUES (5% per y	year from 2024-2026 and 3% per year from 2027-2030)										\$0	\$0	\$15,000	\$0	\$0	\$0 \$	240,000	\$0 \$0	\$0	\$2,485,000	\$0	\$864,000	\$0	\$0	\$206,000
				1		1	1	1	I .	1		1	1	1	1	1 1 1				1	1		1	1		

Nev	vport MUD																		
Wate	r Distribution System - Inspection, Evaluation and Ro	ehabilitation																	
	8/1/24																		
						Bond Auth	orization Pri	ior to 2020	Bond Fund	s from May 20	20 Bond Electi	ion			Year Anticipat	ed			
						Bond	Bond	Bond		Bond		Bond							
						Issue #4	Issue #5	Issue #6		Issue #7		Issue #8							
			Year	Pipe	Rehab	\$5.5M	\$4.225M	\$7.5M		\$20.84M		\$12.43M							
No.	Subdivision	Status (as of 8/1/24)	Platted	Material	Cost	2016	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	Country Club Villas of Newport Section 1 & 2		1982		\$0														
	Deerpointe Section 1		1978	AC	\$0														
	Newport Country Club Estates Section 1		1979	AC	\$0														
	Newport Country Club Golf Club		1972	AC	\$0														
	Newport Court		2016	PVC	\$0														
	Newport Court .	\$600,000 of BI7 Funds Reallocated to	2010	FVC	γU														-
6	Newport Section 1	SDH Utility Reloc	1972	AC	\$2,740,000							\$550,000				\$530,000		\$530,000	\$530,000
7	Newport Section 2	3DH Othity Reloc	1972	AC	\$0														
	Newport Section 2	Adjustment due to increased	1372	AC	γU														
8	Newport Section 3	construction costs	1972	AC	\$1,590,000										\$480,000		\$510,000	\$600,000	
		Adjustment due to increased																	
9	Newport Section 4	construction costs	1972	AC	\$890,000														
10	Newport Section 4, Partial Replat 1	construction costs	2016	PVC	\$0														
	Newport Section 4, PR 4 (DH Builders)		2017	PVC	\$0														
	Newport Section 4, 1 N 4 (BIT Builders)	Adjustment due to increased	2017	1 4 6	Ç0														
12	Newport Section 5	construction costs, Additional needs	1972	AC	\$1,440,000										\$530,000	\$370,000	\$540,000		
12	Newport Section 5	identified.	1372	AC	71,440,000										7550,000	\$370,000	\$540,000		
		Adjustment due to increased																	
13	Newport Section 6	construction costs	1972	AC	\$940,000													\$550,000	\$390,000
14	Newport Section 6, Partial Replat 1	construction costs	2019	PVC	\$0														
	Newport Section 7		1972	AC	\$0														
	Newport Section 7  Newport Sec 7, Partial Replat No. 1		2018	PVC	\$0														
	Newport Sec 7, Partial Replat No. 3		2019	PVC	\$0														
	Newport Sec 7, Partial Replat No. 4		2019	PVC	\$0														
19	Newport Sec 7, Partial Replat No. 5	Adimeter and durant for the control of	2020	PVC	\$0														
20	Newport Section 8	Adjustment due to increased	1978	AC	\$600,000														
21	November Costion C. Doutini Doulet 1	construction costs	2015	D) (C	\$0														
	Newport Section 8, Partial Replat 1		2015	PVC															
	Newport Section 8, Partial Replat 3		2018	PVC	\$0														
	Newport Section 8, Partial Replat 4		2017	PVC	\$0														
	Newport Section 9		2017	PVC	\$0														
	Newport Section 10		1974	AC	\$0														
26	Newport Section 10, Partial Replat 1		2019	PVC	\$0														
27	Newport Section 11 (portion of Section 6 Res B)		2006 &		\$0														
			2010		,														
	Newport Section 12 (Newport Villas)		2016	PVC	\$0														
	Oaks at Newport Section 1		1981		\$0														
30	Patio Woods		1975	AC	\$0														
31	Seven Oaks North		2010	PVC	\$0														
32	Seven Oaks South		2014	PVC	\$0														
33	Union of Operating Engineers Training Fac.		2019	PVC	\$0														
34	Villas at Newport		2014	PVC	\$0														
35	Water Meter Replacement Program	Est. 20 year battery life, est. 2038	2018		\$1,500,000														
36	S. Diamondhead Utility Relocation (Water)	Construction Start 2023	2023							\$970,000									
37	Valve Survey and Replacement Program (Replace	\$120,000 of BI7 Funds Reallocated to								ćo	ćΩ	ćo	ćo	\$250,000	\$350,000	\$250,000	\$350,000	\$250,000	\$250,000
3/	approximately 50 valves per year)	SDH Utility Reloc								<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$250,000</u>	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
	Water Distribution Projects Total					\$0	\$0	\$0	\$0	\$970,000	\$0	\$550,000	\$0	\$250,000	\$1,260,000	\$1,150,000	\$1,300,000	\$1,930,000	\$1,170,000
	TOTAL INCLUDING INFLATION VALUES (5% per year	r from 2024-2026 and 3% per year from 2	2027-203	(0)		\$0	\$0	\$0	\$0	\$970,000	\$0	\$550,000	\$0	\$274,000	\$1,438,000	\$1,352,000	\$1,574,000	\$2,407,000	\$1,503,000

Newport MUD						*All T	V Costs from I	BI 4-6*											
Sanitary Sewer System - Inspection, Evaluation and Rehabilit	ation						horization Pri		Bond Funds	s from May 202	20 Bond Electi				Year Anticipat	ed			·
As of 8/1/24							\$1,142,900			\$2,720,000		\$2,000,000							
						Bond Issue #4	Bond Issue #5	Bond Issue #6		Bond Issue #7		Bond Issue #8							ļ
				Year	Pipe	\$5.5M	\$4.225M	\$7.5M		\$20.84M		\$12.43M			Assum	ing 1 Line Reha	b and 1 MH R	ehab Project p	er Year
No. <u>Subdivision</u>	% CA 4s and 5s	Status (as of 8/1/2	4)	Platted	Material	2016	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
		Through Phase 3 Rehab	% Rehab in Ph. 4			2010	2010	2013	2020		2022	2020	2021	2023	2020	2027	2020	2023	2030
1 Country Club Villas of Newport Section 1 & 2	20% to be rehabilitated	100% TV	0.0%	1982	Truss & Conc			\$4,000											
Country Club Villas of Newport Section 1 & 2 MHs	1	100% TV		1			I			,		1	ı	1		1	ļ.	ı	\$12,000
2 Deerpointe Section 1	40% to be rehabilitated	100% TV	0.0%	1978	Truss & Conc			\$10,000											1
Deerpointe Section 1 MHs	,	100% TV		'															\$11,000
3 Newport Country Club Estates Section 1	50% to be rehabilitated	100% TV	0.0%	1979	Truss			\$10,000											
Newport Country Club Estates Section 1 MHs	,	100% TV														,	•	,	\$8,000
4 Newport Country Club Golf Club	50% to be rehabilitated	100% TV	0.0%	1972	Concrete			\$10,000											
Newport Country Club Golf Club MHs		100% TV																\$5,000	
5 Newport Court (Defined Area)				2016	PVC														
6 Newport Section 1	50% to be rehabilitated	100% TV; 8.2% rehabilitated	7.7%	1972	Concrete		\$231,509	\$120,000		\$50,000		\$362,250		\$200,000	Ш.				
Newport Section 1 MHs	1	100% TV				1	\$10,804		1	1 .		\$200,000	ı	\$140,000	\$60,000	\$50,000	\$25,000		\$33,000
7 Newport Section 2	50% to be rehabilitated	100% TV; 6.6% rehabilitated	11.2%	1972	Truss & Conc	I	\$95,659	\$160,000	1	\$4,000		\$301,500	ļ	\$100,000		l	1	1	400.00
Newport Section 2 MHs	T	100% TV			- 00				1	1 4.0.00		\$60,000	ı	\$65,000		ı	\$25,000	\$35,000	\$38,000
8 Newport Section 3 Newport Section 3 MHs	60% to be rehabilitated	100% TV; 5.7% rehabilitated 100% TV	0.0%	1972	Truss & Conc	I	\$96,613	\$60,000	1	\$12,000		\$107,500	l	1	L I	\$50,000	\$25,000	l	1
	400/ to be rehabilitated	100% TV, 0.2% rehabilitated	2.6%	1972	Concrete		1	\$70,000	1	\$4,000		\$103,750	1	1		\$50,000	\$25,000		
9 Newport Section 4 Newport Section 4 MHs	40% to be rehabilitated	100% TV, 0.2% renabilitated	2.0%	19/2	Concrete	·		370,000	1	\$4,000		\$103,730	l	\$75,000		1	\$25,000	\$30,000	\$33,000
10 Newport Section 4, Partial Replat 1	I	100% 10		2016	PVC			1	1	1		T	1	\$75,000		I	\$25,000	\$30,000	\$55,000
11 Newport Section 4, PR 4 (DH Builders)				2017	PVC														
12 Newport Section 5	60% to be rehabilitated	100% TV, 0% rehabilitated	2.9%	1972	Concrete			\$40,000											
Newport Section 5 MHs	DO/O CO DE TENDOMENTOCO	100% TV		1			l	1 7,	-1			1	l	1		1	l .	\$40,000	
		100% TV; 30.6%			- 00					4				4				, ,,,,,,,	
13 Newport Section 6	55% to be rehabilitated	rehabilitated	14.9%	1972	Truss & Conc		\$266,461	\$80,669		\$400,000		\$297,500		\$350,000					
Newport Section 6 MHs		100% TV										\$90,000		\$20,000	\$60,000	\$50,000	\$25,000		
14 Newport Section 6, Partial Replat 1				2019	PVC														
15 Newport Section 7	30% to be rehabilitated	100% TV, 0% rehabilitated	0.0%	1972	Truss			\$50,000											
Newport Section 7 MHs	1	100% TV					1		1			1	1	1		ı	\$25,000	\$25,000	
16 Newport Sec 7, Partial Replat No. 1				2018	PVC														
17 Newport Sec 7, Partial Replat No. 3				2019	PVC														
18 Newport Sec 7, Partial Replat No. 4				2019	PVC														
19 Newport Sec 7, Partial Replat No. 5	200/ 4 - 1 1 - 1 - 1 - 1 - 1 - 1	4000/ T/ 4 40/	0.00/	2020 1978	PVC		646 206	\$50,000											
20 Newport Section 8	30% to be rehabilitated	100% TV; 1.4% rehabilitated 100% TV	0.0%	19/8	Truss		\$16,286 \$23,528	\$50,000	1			1					\$25,000	\$20,000	\$33,000
Newport Section 8 MHs 21 Newport Section 8, Partial Replat 1		100% 10		2015	PVC		\$23,528		1			1	ĺ			I	\$25,000	\$20,000	\$33,000
22 Newport Section 8, Partial Replat 3				2013	PVC														
23 Newport Section 8, Partial Replat 4				2017	PVC														
24 Newport Section 9				2017	PVC														
		100% TV; 27.5%					4												
25 Newport Section 10	45% to be rehabilitated	rehabilitated	1.7%	1974	Truss & Conc		\$189,729	\$50,000		\$280,000		\$427,500							
Newport Section 10 MHs		100% TV					\$49,563					\$50,000				\$50,000	\$25,000	\$20,000	\$21,000
26 Newport Section 10, Partial Replat 1				2019	PVC														
27 Newport Section 11 (portion of Section 6 Res B)				2006 & 2010															
28 Newport Section 12 (Newport Villas)				2016	PVC				1	1					<del>                                     </del>				<u> </u>
29 Oaks at Newport Section 1	30% to be rehabilitated	100% TV; 12% rehabilitated	0.0%	1981	Truss			\$10,000											
Oaks at Newport Section 1 MHs	1	100% TV		1			ı			,		1	ı	1		1	ļ.	ı	\$11,000
30 Patio Woods	30% to be rehabilitated	100% TV, 0% rehabilitated	0.0%	1975	Truss			\$10,000											
Patio Woods MHs		100% TV																\$5,000	
31 Seven Oaks North				2010	PVC														
32 Seven Oaks South			-	2014	PVC									1					
33 Union of Operating Engineers Training Fac.				2019	PVC														
34 Villas at Newport				2014	PVC														<u> </u>
S. Diamondhead Utility Relocation (Sanitary),																			
35 \$1,070,000 of SS Rehab BI7 Funds Reallocated to SDH Utility Reloc										\$1,970,000									
36 Sanitary Sewer TV & Rehabilitation		83% TV (100% TV)		Lines (So	ctions Built Prior	to 1990)	\$145,031	\$11,014	+	+					\$900,000	\$900,000	\$880,000	\$850,000	\$850,000
Sanitary Sewer Projects Total		80% TV (100% TV)			s (Sections Built I	,	\$1,125,183	\$745,683	\$0	\$2,720,000	\$0	\$2,000,000	\$0	\$950,000	\$1,020,000	\$1,100,000	\$1,080,000	\$1,030,000	\$1,050,000
					, , , , , , , , , , , , , , , , , , ,				7	7-,. 20,000	70	, _,_ ,,,,,,,,,	7-	7-1-0,000			, , , , , , , , , , , , , , , , , , , ,		
TOTAL INCLUDING INFLATION VALUES (5% per year fr	om 2024-2026 and 3% per y	ear from 2027-2030)				\$0	\$1,125,183	\$745,683	\$0	\$2,720,000	\$0	\$2,000,000	\$0	\$1,038,000	\$1,164,000	\$1,293,000	\$1,308,000	\$1,285,000	\$1,349,000
				<u> </u>		1							l				<u> </u>		

Newport MUD					Completed	1																
Lift Stations As of 8/1/24					No longer appl																	
AS 01 6/1/24					Further investi	gation																
											BA Prior to 2020	Bond Funds	from May 20	20 Bond Ele	-			Year Anticipated				
Surface inspection performed on all lift stations in	2019		When	Conceptual	Conceptual	Conceptual	LAN				Bond Issue #6		Bond Issue #7		Bond Issue #8							
Surface inspection performed on all life stations in	12015		Needed	Cost	Cost	Cost	Project	Status (as of		Operations	\$7.5M		\$20.84M		\$12.43M							
No. Project	Description and Information	<u>Justification</u>	(Year)	(2019\$)	(2022\$)	(2023\$)	Number	8/1/24)	Bid Amount	<u>Funds</u>	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1 Compass Bank Lift Station - 6011-1/2 FM 21	L00 Wet Well	Constructed in 2014. Minor aggregate showing	2030	\$20,000	\$40,000	\$50,000		Scheduled for 2030			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
1 Compass Bank Lift Station - 0011-1/2 Fivi 21	vvet weii	Constructed in 2014. Minor aggregate showing.	2030	\$20,000	340,000	\$30,000		(Pending Bond Authorization)			30	30	, JU	<b>3</b> 0	,50	50	, JU	,50	, JU	ŞU	<b>3</b> 0	\$30,000
								Scheduled for 2030														
2 Compass Bank Lift Station - 6011-1/2 FM 21	LOO Riser Pipes	Constructed 2014. PVC	2030	\$20,000	\$30,000	\$30,000		(Pending Bond Authorization)			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
								Scheduled for 2030														
3 Compass Bank Lift Station - 6011-1/2 FM 21	Valves/ Yard Piping	Constructed 2014. PVC	2030	\$10,000	\$20,000	\$37,000		(Pending Bond			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,000
4 Compass Bank Lift Station - 6011-1/2 FM 21	LOO MCC	Constructed 2014.	2036	\$80,000	\$90,000	\$125,000		Authorization) No work planned			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Compass Same Ent Station CO22 2, 2 m 22			2000	ψου,σσσ	<b>\$30,000</b>	Ų123,000		Tto Work planned			70	, ,	Ψ°	γo	, , ,	70	70	70	70	70	Ψ.	Ų.
		Existing PVC fence is not 6' tall, does not have barbed wire, does not have a 16 ft wide access gate.																				
	Misc Install fence, reset	Space within the fencing is limited and if possible be						Funds Reallocated														
5 Compass Bank Lift Station - 6011-1/2 FM 21	hatch, site lighting.	pushed out to provide more maneuverability.	2020	\$20,000	\$20,000	\$37,000		to SDH Utility			\$20,000	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$0	<u>\$0</u>
		Bottom of fence needs repair. Hatch does not close completely, leaving a couple inch gap open for						Reloc														
		storm water to get in. Add site lighting.																				
Compass Bank Lift Station Total											\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$117,000
Compass Sam and Station Total											<b></b>	70	ų.	ų.	Ų.	70	70	70	70	70	70	<b>4117,000</b>
6 Lift Station #1 - 514 Helmsman	Wet Well - Add Liner, Seal I/	Age (1972)	2025	\$30,000	\$50,000	\$50,000		Postponed until			\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0
7 1/6 5/11/2 1/4 54411-1-1-1	D'and B'and Barden	A (4072)	2025	ć25.000	¢20.000	ć20.000		Bond Issue 9 Postponed until			40	40	ćo.	ćo.	ćo.	ćo.	¢20.000	40	ćo.	40	40	ćo
7 Lift Station #1 - 514 Helmsman	Riser Pipes - Replace	Age (1972)	2025	\$25,000	\$30,000	\$30,000		Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0
9 Lift Station #1 E14 Holmsman	Valvos / Vard Dining Ponlace	Exterior pipe is chalking, dry pit pipes have signs of	2025	\$15,000	\$20,000	\$27,000		Postponed until			\$0	\$0	\$0	\$0	\$0	\$0	\$37,000	\$0	\$0	\$0	\$0	\$0
8 Lift Station #1 - 514 Helmsman	valves/ raid ripling - Replace	corrosion. Pipe supports need replacement. Valves in good condition, some need recoating.	2025	\$15,000	\$20,000	\$37,000		Bond Issue 9			30	30	, JU	<b>3</b> 0	,5U	50	\$37,000	,50	, JU	Ş0	<b>3</b> 0	,50
		Move to surface for safer access. Age (1972).						Coordinating with														
9 Lift Station #1 - 514 Helmsman	MCC - Replace and Raise	Replace Prior to SCADA. Add site lighting.	2021	\$80,000	\$80,000	\$200,000		operator to replace in 2024			\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Site currently does not have an access drive. COH LS				_		111 2024														
10 Lift Station #1 - 514 Helmsman	Misc Install Access Drive	design manual (2016), requires an all-weather	2025	\$16,000	\$16,000	\$16,000		Postponed until			\$0	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$16,000	<u>\$0</u>	<u>\$0</u>	\$0	<u>\$0</u>	<u>\$0</u>
		access drive to lift station such that the ROW is not blocked by a vehicle.		7-0,000	7-0,000	7=2,000		Bond Issue 9			7.5						1/					
Lift Station #1 Total		blocked by a verificie.									\$0	\$0	\$80,000	\$0	\$0	\$0	\$133,000	\$0	\$0	\$0	\$0	\$0
11 IUOE Lift Station 12 IUOE Lift Station	Wet Well Riser Pipes	Constructed 2018 Constructed 2018	2033 2033	\$0 \$0	\$0 \$0	\$0 \$0		No work planned No work planned			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
13 IUOE Lift Station	Valves/ Yard Piping	Constructed 2018	2033	\$0	\$0	\$0		No work planned			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14 IUOE Lift Station	MCC	Constructed 2018	2048	\$0	\$0	\$0		No work planned			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15 IUOE Lift Station IUOE Lift Station Total	Misc. Items	Constructed 2018	2033	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>		No work planned			\$0 <b>\$0</b>	\$0 \$0	\$0 \$0	<u>\$0</u> <b>\$0</b>	<u>\$0</u>	<u>\$0</u> <b>\$0</b>	\$0 \$0	\$0 \$0	\$0 \$0	<u>\$0</u> <b>\$0</b>	<u>\$0</u> <b>\$0</b>	<u>\$0</u>
100E EIR Station Total											30	30	70	70	70	70	70	30	70	70	γU	, JU
16 Lift Station #2 - 16062 Dunes Dr.	Wet Well - Add Liner, Seal I/	Age (1972)	2025	\$30,000	\$50,000	\$50,000		Postponed until			\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0
	, ,							Bond Issue 9 Postponed until			·						1 1				<u> </u>	
17 Lift Station #2 - 16062 Dunes Dr.	Riser Pipes - Replace	Age (1972)	2025	\$25,000	\$30,000	\$30,000		Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0
18 Lift Station #2 - 16062 Dunes Dr.	Vol / Vo I Birding Brother	Exterior pipe is chalking, dry pit pipes have signs of	2025	ć45 000	<b>\$30,000</b>	ć27.000		Postponed until			40	40	ćo.	40	40	40	¢27.000	40	40	40	ćo	ćo.
18 Lift Station #2 - 16062 Dunes Dr.	Valves/ Yard Piping - Replace	corrosion. Valves in good condition, some need recoating.	2025	\$15,000	\$20,000	\$37,000		Bond Issue 9			\$0	\$0	\$0	\$0	\$0	\$0	\$37,000	\$0	\$0	\$0	\$0	\$0
		Move to surface for safer access. Age (1972).						Coordinating with														
19 Lift Station #2 - 16062 Dunes Dr.	MCC - Replace and Raise	Replace Prior to SCADA. Add site lighting.	2021	\$80,000	\$80,000	\$200,000		operator to replace			\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Site currently does not have a driveway from ROW.						in 2024														
		Appears to have a crushed stone access. COH LS						Postponed until														
20 Lift Station #2 - 16062 Dunes Dr.	Misc Install Access Drive	design manual (2016), requires an all-weather access drive to lift station such that the ROW is not	2025	\$16,000	\$16,000	\$17,000		Bond Issue 9			\$0	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$17,000	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
		blocked by a vehicle.																				
Lift Station #2 Total											\$0	\$0	\$80,000	\$0	\$0	\$0	\$134,000	\$0	\$0	\$0	\$0	\$0
								Abandoned and														
21 Lift Station #3 - 1212 S. Diamondhead Blvd	Wet Well - Add Liner, Seal I/	Age (1972)	2038	\$60,000	\$0	\$0		replaced in 2024 in			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
								SDH Utility Reloc														
22 Lift Station #3 - 1212 S. Diamondhead Blvd	Riser Pipes - Replace	Signs of corrosion	2038	\$25,000	\$0	\$0		Abandoned and replaced in 2024 in			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	.aser ripes - Replace	3,513 07 007 031011	2030	725,000	Ţ.	Ų,		SDH Utility Reloc			70		Ţ.	Ų.	ŢŪ.	Ų.	70	70	Ų.	Ç.	Ģ0	Ų.
22 1/6 5/1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	Wil a fee to a	Pipes and valves have signs of corrosion, valve vault		400.0	4.5	4.0		Abandoned and			40		4.0	40	4.5	4-	4.5		4-	4.0	4.5	4.0
23 Lift Station #3 - 1212 S. Diamondhead Blvd	valves/ Yard Piping - Replace	e is brick with no working space. Move to surface and fill vault.	2038	\$20,000	\$0	\$0		replaced in 2024 in SDH Utility Reloc			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
								Abandoned and														
24 Lift Station #3 - 1212 S. Diamondhead Blvd	MCC	Replaced in 2018	2053	\$0	\$0	\$0		replaced in 2024 in			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
								SDH Utility Reloc														

Newport MUD					Completed														工二	
Lift Stations As of 8/1/24					No longer appli Further investig														_	
A3 01 0/ 1/24					r ur trier irrvestig	Julion														
										BA Prior to 2020 Bond	Bond Funds	from May 20: Bond	20 Bond Elect	Bond			Year Anticipated			
Surface inspection performed on all lift stations in	n 2019		When	Conceptual	Conceptual	Conceptual	LAN			Issue #6		Issue #7		Issue #8						+
No Project	Description and Information	ldification	Needed	Cost (2010¢)	Cost (2022¢)	Cost (2022¢)	Project	Status (as of	Operations	\$7.5M	2020	\$20.84M	2022	\$12.43M	2024	2025	2026	2027 20	2020	2020
No. Project	Description and Information		(Year)	(2019\$)	(2022\$)	<u>(2023\$)</u>	Number	8/1/24) Bid Amou Abandoned and	nt <u>Funds</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	2023	2024	2025	<u>2026</u>	2021 20	28 2029	2030
25 Lift Station #3 - 1212 S. Diamondhead Blvd	Misc Install Fence	Existing fence is not min. 6' tall, does not encompass the valve vault. Add site lighting.	2038	\$20,000	<u>\$0</u>	<u>\$0</u>		replaced in 2024 in SDH Utility Reloc		\$0	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>		<u>\$0</u>	<u>\$0</u>
Lift Station #3 Total										\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 :	\$0 \$0	\$0
26 Lift Station #4 - 931 Flying Bridge Way	Wet Well - Reline, Seal I/I	Coal tar liner is showing signs of deterioration.	2025	\$30,000	\$50,000	\$50,000		Postponed until Bond Issue 9		\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0 \$0	\$0
27 Lift Station #4 - 931 Flying Bridge Way	Riser Pipes - Replace	Signs of corrosion	2025	\$25,000	\$30,000	\$30,000		Postponed until Bond Issue 9		\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0 !	\$0 \$0	\$0
28 Lift Station #4 - 931 Flying Bridge Way	Valves/ Yard Piping - Replace		2025	\$15,000	\$20,000	\$37,000		Postponed until Bond Issue 9		\$0	\$0	\$0	\$0	\$0	\$0	\$37,000	\$0	\$0	\$0 \$0	\$0
29 Lift Station #4 - 931 Flying Bridge Way	MCC - Replace	Experiencing ongoing electrical issues with the service from the main. Age (1978). Replace prior to SCADA. Provide more site lighting. High volume lift station. Located in the 500-year floodplain.	2020	\$80,000	\$80,000	\$260,000		Funds Reallocated to SDH Utility Reloc		\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 :	\$0 \$0	\$0
30 Lift Station #4 - 931 Flying Bridge Way	Misc Install Fence	Minor rust, fencing is close to electrical pole and if possible be pushed out to provide more maneuverability.	2020	\$10,000	\$10,000	\$10,000		to SDH Utility Reloc		\$10,000	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$0 \$0	<u>\$0</u>
Lift Station #4 Total										\$90,000	\$0	\$0	\$0	\$0	\$0	\$117,000	\$0	\$0 :	\$0 \$0	\$0
31 Lift Station #5 - 1310-1/2 Stem Way	Wet Well - Add Liner, Seal I/I	Age (1974). Minor deficiencies observed.	2026	\$30,000	\$50,000	\$50,000				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000		\$0 \$0	\$0
32 Lift Station #5 - 1310-1/2 Stem Way 33 Lift Station #5 - 1310-1/2 Stem Way	Riser Pipes - Replace Valves/ Yard Piping - Replace	Signs of corrosion Signs of corrosion	2026 2026	\$25,000 \$15,000	\$30,000 \$20,000	\$30,000 \$37,000				\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$30,000 \$37,000		\$0 \$0 \$0 \$0	\$0 \$0
	variesy rara riping replace	Age (1974). Located in the 100-year floodplain. To	2020	<b>\$13,000</b>	ψ20,000	ψ3.7,000		Coordinating with					Ţ.							
34 Lift Station #5 - 1310-1/2 Stem Way	MCC - Replace	be elevated. Replace Prior to SCADA. Provide more site lighting	2021	\$80,000	\$80,000	\$200,000		operator to replace in 2024		\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0 !	\$0 \$0	\$0
35 Lift Station #5 - 1310-1/2 Stem Way	Misc Install Fence	Existing wooden fence is not 8' tall, does not have barbed wire, does not have a 16 ft wide access gate. Space within the fencing is limited and if possible relocate fence to provide more manueverability.	2021	\$10,000	\$10,000	\$10,000		Coordinating with operator to replace in 2024		\$0	<u>\$0</u>	\$10,000	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$0 \$0	<u>\$0</u>
Lift Station #5 Total										\$0	\$0	\$90,000	\$0	\$0	\$0	\$0	\$117,000	\$0	\$0 \$0	\$0
36 Lift Station #6 - 818 Handspike Way	Wet Well - Add Liner	Minor aggregate showing from aboveground inspection. Age (1977)	2025	\$30,000	\$50,000	\$50,000		Postponed until Bond Issue 9		\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0 \$0	\$0
37 Lift Station #6 - 818 Handspike Way	Riser Pipes - Replace	Age (1977)	2025	\$25,000	\$30,000	\$30,000		Postponed until Bond Issue 9		\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0 \$0	\$0
38 Lift Station #6 - 818 Handspike Way	Valves/ Yard Piping - Replace	Exterior pipe is chalking, dry pit pipes have signs of corrosion. Valves in good condition, some need recoating.	2025	\$15,000	\$20,000	\$37,000		Postponed until Bond Issue 9		\$0	\$0	\$0	\$0	\$0	\$0	\$37,000	\$0	\$0 :	\$0 \$0	\$0
39 Lift Station #6 - 818 Handspike Way	MCC - Replace	Move to surface for safer access. Age (1977).  Replace Prior to SCADA. Add site lighting.	2021	\$80,000	\$80,000	\$0		Completed		\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0
40 Lift Station #6 - 818 Handspike Way	Misc Install Access Drive and Fence	Site currently does not have an access drive. COH LS design manual requires an all-weather access drive to lift station such that the ROW is not blocked by a vehicle. Existing fence is not min. 6' tall. Add Odor Control.		\$20,000	\$20,000	\$32,000		Postponed until Bond Issue 9		\$0	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$32,000	<u>\$0</u>	<u>\$0</u>	<u>\$0</u> <u>\$0</u>	<u>\$0</u>
Lift Station #6 Total										\$0	\$0	\$80,000	\$0	\$0	\$0	\$149,000	\$0	\$0	\$0 \$0	\$0
41 Lift Station #7 - 15727 Via Dora	Wet Well - Add Liner, Seal I/I	Age (1978). Radial crack around the exterior of the wet well. Walls look good, joints have cracks nearby.	2027	\$30,000	\$50,000	\$50,000		Scheduled for 2027 (Pending Bond Authorization)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0 \$0	\$0
42 Lift Station #7 - 15727 Via Dora	Riser Pipes - Replace	Signs of corrosion	2027	\$25,000	\$30,000	\$30,000		Scheduled for 2027 (Pending Bond Authorization)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000	\$0 \$0	\$0
43 Lift Station #7 - 15727 Via Dora	Valves/ Yard Piping - Recoat	Coating is chalky. Concrete pipe support is cracked, needs replacement.	2027	\$15,000	\$20,000	\$51,000		Scheduled for 2027 (Pending Bond Authorization)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51,000	\$0 \$0	\$0
44 Lift Station #7 - 15727 Via Dora	MCC - Replace	Age (1978). Located in the 100-year floodplain. Add site lighting. Rotate generator hook up for easier access.	2027	\$80,000	\$150,000	\$125,000		Scheduled for 2027 (Pending Bond Authorization)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000	\$0 \$0	\$0
45 Lift Station #7 - 15727 Via Dora	Misc Replace stairs, handrail and fencing	Bolt securing stairs is exposed and corroded	2027	\$15,000	\$15,000	\$46,000		Scheduled for 2027 (Pending Bond Authorization)		\$0	\$0	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$46,000	\$0 \$0	<u>\$0</u>
Lift Station #7 Total								7		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$302,000	\$0 \$0	\$0
46 Seven Oaks Lift Station - 16146-1/2 Golf Clu	ub Dr Wet Well	Constructed 2006, reline wet well	2029	\$30,000	\$50,000	\$50,000		Scheduled for 2029 (Pending Bond Authorization)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$50,000	00 \$0
47 Seven Oaks Lift Station - 16146-1/2 Golf Clu	ub Dr Riser Pipes	Constructed 2006, recoat piping	2029	\$15,000	\$15,000	\$26,000		Scheduled for 2029 (Pending Bond Authorization)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,000	00 \$0
48 Seven Oaks Lift Station - 16146-1/2 Golf Clu	ub Dr Valves/ Yard Piping	Constructed 2006, recoat piping	2029	\$15,000	\$15,000	\$51,000		Scheduled for 2029 (Pending Bond Authorization)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$51,000	00 \$0

Newport MUD					Completed																
Lift Stations					No longer appli	cable															
As of 8/1/24					Further investig	gation															1
											BA Prior to 2020	Bond Funds	from May 20	20 Bond Elec	ction		+	Year Anticipated	+		+
											Bond		Bond		Bond						
Surface inspection performed on all lift stations in 2019	)		When	Conceptual	Conceptual	Conceptual	LAN				Issue #6		Issue #7		Issue #8						
			Needed	Cost	Cost	Cost	Project	Status (as of		Operations	\$7.5M		\$20.84M		\$12.43M						
No. Project	Description and Information	<u>Justification</u>	(Year)	(2019\$)	(2022\$)	(2023\$)	Number	8/1/24)	Bid Amount	<u>Funds</u>	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028 2029	2030
49 Seven Oaks Lift Station - 16146-1/2 Golf Club Dr	MCC	Constructed 2006	2036	\$0	\$0			No work planned			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0
50 Seven Oaks Lift Station - 16146-1/2 Golf Club Dr	Misc. Items	Constructed 2006	2029	<u>\$0</u>	<u>\$0</u>			No work planned			<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$0	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$0 \$0	\$0
Seven Oaks Lift Station Total											\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$127,000	) \$0
Lift Station Projects Total					\$1,517,000						\$110,000	\$0	\$330,000	\$0	\$0	\$0	\$533,000	\$117,000	\$302,000	\$0 \$127,000	0 \$117,00
TOTAL INCLUDING INFLATION VALUES (5% per y	ear from 2024-2026 and 3% per y	rear from 2027-2030)									\$110,000	\$0	\$330,000	\$0	\$0	\$0	\$583,000	\$134,000	\$355,000	\$0 \$159,000	0 \$151,00
	·	•															1		+		1

Newport MUD		1.0 MGD WWTP constructed in 1972			Completed						1											1			
Wastewater Treatment Plant		0.3 MGD Expansion in 2008, 1.3 MGD Total Currently permitted for 1.3 MGD			No longer applica																				
As of 8/1/24		currently permitted for 1.5 mob			Desired but not r Further Investiga	tion	it idiletion																		
				Conceptual							Bond	Bond Auti Bond	norization Pri Bond	or to 2020		Bond Funds fr	rom May 202 Bond	0 Bond Election Be	ond			Year Anticipated			
			When Needed	Cost Range	Cost	Cost	LAN Project			Operations	Issue #4 \$5.5M	Issue #5 \$4.225M	Issue #6 \$7.5M	Surplus	Funds		Issue #7 \$20.84M		ue #8 2.43M						
No. Project	Description of Problem & Information	<u>Justification</u>	(years)	(2019\$)		(2023\$)	Number	Status (as of 8/1/24)	Bid Amount	<u>Funds</u>	2016		2019		Needed	2020	2021	2022 20	023	2024	2025	2026	2027	2028	2029 2030
Projects Needed to Prevent Immine	I .																								
Projects not yet completed from pro 1 Rehabilitate Clarifier #1 2 Aeration System Improvements	evious bond funds			\$245,000 \$150,000			12190 12191	Completed 5/20/21 Completed 12/16/21	\$377,500 \$137,000		\$245,000 \$150,000				\$132,500							1			
Projects related to Flood Prevention	n																								
Remap Site out of 100-yr Floodway-Engineering	Rerun San Jacinto Floodplain/Floodway model with updated info. Submit to reviewing agencies for a LOMR	Without being remapped out of the Floodway, Harris County will not allow construction permits for a WWTP Expansion that extends above natural ground		\$40,000			12192	Completed; LOMR approved with effective date of 2/1/21	ı		_	1		,	, ,	,				1	,	,	,		
Remap Site out of 100-yr and possibly 500-yr Flood Plain - Engineering	If the WWTP site is in the Flood Plain, FP Mitigation measures are required with building permits adding to the cost of the project	Could potentially reduce FEMA Insurance Premiums by \$75,000 per year, and reduce project costs by eliminating flood plain mitigation measures  The berm does not require USACE certification to be approved by	After berm is constructed	\$40,000	\$40,000	\$45,000																		\$45,000	
Apply to FEMA/HCFCD for a  3 Certification of WWTP Berm - Engineering	Certify that the existing Berm meets the US Corps Criteria. This could take 5 years to approve.	FEMA as it is not attached to a navigable water body. However, FEMA prefers to have the US Army Corp review the berm for compliance.	After berm is constructed	\$140,000- \$340,000	\$300,000	\$325,000		Authorized Engineering on 12/16/21																\$325,000	
4 Remove all trees from the Berm	Required by the U.S. Army Corps of Engineer	s Required by USACE for berm maintenance		\$85,000	\$85,000			Will be incorporated with construction of berm																	
5 Raise Flood Protection Berm	vertical feet to elevation 38.0	cannot be raised until the site is remapped out of the flood plain.	As soon as updated FEMA maps and associated regulations are released.	\$3,700,000	\$5,700,000- \$22,000,000	\$22,200,000	12313	Per HCFCD Regulations, detention and mitigation is required.														\$5,700,000	\$16,500,000		
Effluent & Storm Water Pump 6 Station Improvements - Phase 1	Motor Starters & VFD Controllers Replace	Proper operation during a flood or loss of power		\$500,000- \$1,000,000			12158	Completed 2/17/22	\$819,583		I		\$819,583	l I											
Fffluent & Storm Water Pump  This is a station Improvements - Phase  2	Relocate Ex. Pumps/Motors, Add 2 New Pumps/Motors, Piping, Flow Control, Electrical	Described for MANTO execution devices a flood on law of secure	At time of WWTP expansion	\$1,000,000	\$1,500,000	\$1,600,000		Will be constructed at the same time as the WWTP expansion																\$1,600,000	
New Elevated Operations Building (Approx 1,500 SF footprint at Elevation 39.0, 14 feet high)	At 5/16/19 meeting FEMA discussed reimbursement for up to \$500,000. The building could be sized for future MCC panels, for expansion and if another flood event occurs	Required for WWTP operation during a flood or loss of power. Harris County can permit construction at an elevation 2 ft above 500-yr flood elevation. The site will need to be remapped out of the flood way first.	2023	\$400,000- \$800,000	\$800,000		12157	Bids collected 11/8/22; \$835,390 FEMA reimbursable	\$1,295,000	=change order total-FEMA reimbursable															
Projects required for existing plant to Replace Air Lift Pumps from Clarifier to Digestors with Dry/Pit Submersible Pumps	to meet inspections, permit or regulations  TCEQ requires measuring the flow	Cannot accurately measure flow with an air lift pump, Would prefer to have dry pit submersible pumps in the case of flooding -		\$500,000		\$500,000		Funding included in BI7; project will be included in the overall plant expansion									\$500,000								
Projects required due to projected b	<u>buildout</u>																								
Preliminary Engineering 1 Report for WWTP Expansion- Engineering	\$109,757 available in Bond Issue 2018	To accommodate projected buildout		\$100,000- \$200,000			12193	PER completed 4/15/20. Summary letter presented at the 4/1/20 Board Meeting				\$109,757													
2 WWTP Expansion	Will need to expand the WWTP from 0.5 to 0.7 MGD for a total of 1.8 to 2.0 MGD	To accommodate projected buildout	As soon as berm is constructed	\$8,400,000	\$9,000,000- \$17,500,000	\$20,000,000	12193	Project is in design. May recommend construction be separated into two phases.																\$20,000,000	
Projects to improve operational effi	ficiencies										+								_						
1 SCADA System for WWTP	Ability to control the plant via Supervisory Control And Data Acquisition System (SCADA			\$1,200,000	\$1,200,000	\$1,200,000		Not included in WWTP expansion.																	\$1,200,000
2 SCADA System for Lift Stations	Ability to monitor LS operations. Would s prefer to have installed at the same time as the WWTP SCADA.	A SCADA system will allow operational data collection from on-line instrumentation to be recorded electronically. Information such as pump run time, pressure, flow, wet well level, current (amp) draw, etc. will allow operational staff to detect some pump problems prior to pump failure and damage. SCADA monitoring will also allow operators to respond in a timely fashion helping to reduce sanitary sewer overflows (SSOs).		\$500,000- \$1,300,000	\$1,500,000	\$1,560,000		Not included in WWTP expansion.																	\$1,560,000
3 Online instrumentation	Online instrumentation with control capability for Dissolved Oxygen, Chlorine & Ammonia.	Online instrumentation for dissolved oxygen will allow energy savings. Electrical power for aeration is the most expensive operating cost in the WWTP. Typically, plants reduce energy use by 30% when they shift from uncontrolled aeration to controlled aeration. Online instrumentation is the first step. Other improvements will also be required to attain these savings, including: addition of automated aeration valves, blower replacement, and possibly diffuser changes. An online ammonia analyzer will ensure that the lowest amount of air is being used while still meeting ammonia limits.	2-10	\$100,000		\$122,000		In the basin improvement project, they installed DO monitors to assist manual control. May be included in expansion if not cost prohibitive. Need to evaluate cost/benefit ratio.																	
4 New control valves on aeration and digestors	Operational efficiency and safety	Operational efficiency and safety for operators during lightning storms	1					Not applicable for the digester in the WWTP Expansion. Will be included for the aeration in the WWTP Expansion.																	
New Automated Control  Valves throughout the plant to control flows	Currently gate valves are operated manually	Operational efficiency and safety for operators during lightning storms	2-10																						
"	There is a buildup of approximately 2.5 feet of sludge in the line	Restricting wastewater from reaching the WWTP					12261	Included in Sanitary Sewer Phase 2 TV project		,									·	,					
7 Grease Control through system	Vapex Grease Control System	Help grease move through the system and prevent clogging. Field testing of the equipment is recommended prior to purchase.	5-10	\$600,000		\$732,000		This item is part of the collection system.																	
		, , , , , , , , , , , , , , , , , , , ,		ı															•						

New	port MUD		1.0 MGD WWTP constructed in 1972		C	ompleted																					
Was	tewater Treatment Plant		0.3 MGD Expansion in 2008, 1.3 MGD Total			lo longer applicat	ble																				
As o	f 8/1/24		Currently permitted for 1.3 MGD		D	esired but not re	quired for plar	nt function																			
						urther Investigati																					
													Bond Aut	horization Pri	ior to 2020		Bond Funds	from May 20	20 Bond Ele	ection			Year Anticipated				
					Conceptual							Bond	Bond	Bond				Bond		Bond							
				When	Cost			LAN				Issue #4	Issue #5	Issue #6				Issue #7		Issue #8							
				Needed	Range	Cost	Cost	Project			Operations	\$5.5M	\$4.225M	\$7.5M	Surplus	Funds		\$20.84M		\$12.43M							
No.	<u>Project</u>	Description of Problem & Information	<u>Justification</u>	(years)	(2019\$)	(2022\$)	(2023\$)	Number	Status (as of 8/1/24)	Bid Amount	<u>Funds</u>	2016	2018	<u>2019</u>	<u>Funds</u>	Needed	2020	2021	2022	2023	2024	2025	<u>2026</u>	2027	2028	2029	2030
8	Add a Blower system for the Chlorine System	Disconnect the air line from the main plant aeration system and construct separate blower to provide the required air.	A dedicated blower will simplify aeration control. A small blower can be used to supply this air to the clarifier.		\$200,000		\$245,000	12193	Blower system for Chlorine will be included in WWTP Expansion Phase 2.																		
9	Blower Modifications for Aeration and Digestor Basins	new blower controlled by a VED to add air to	Improve operational efficiency. The system needs DO and/or ORP sensors connected to motor actuated valves for the air system in the basins to control air flow in each basin. The sensors will be connected to a PLC to read the measurements and send data to a VFD connected to a new blower to help regulate the amount of air.	,	\$1,200,000			'	Intended to be addressed through other improvements included in WWTP expansion.		'				'				•	'	•		•				
10	Chlorine Rapid- Mix System	TCEQ requirements	The existing system met the TCEQ requirements at the time of dedexisting and construction but does not meet the current requirements. Refer to TCEQ \$217.281(a)(2) "Chlorine and Sodium Hypochlorite Application. A disinfection system must apply the chlorine gas or solution in a highly turbulent flow regime created by in-line diffusers, mechanical mixers, or jet mixers. Effective initial mixing for the mean velocity gradient (6 value) in the area of turbulent flow must exceed 500 per second."		\$320,000		\$395,000	12193	Included in WWTP Expansion Phase 2 with disinfection improvements.																		
11	RAS/WAS system	TCEQ requirements	The existing system met the TCEQ requirements at the time of design and construction but does not meet the current requirements. Refer to TCEQ §217.158(a)(2) "A monitoring and control system must provide a means to control return and waste sludge flows from each clarifier, to control return sludge flows into each aeration basin, to meter return sludge flows, and to measure waste sludge flows. The present system using air lift pumps cannot be metered or adequately controlled to meet these requirements. In addition, air pumping is one of the most expensive ways to pump fluids		\$350,000		\$430,000	12193	Replacement of air lift pumps with self-priming pumps is included in WWTP Expansion Phase 1.																		
12	Screw Dewater System		Improves operational efficiency. District may be able to reduce dewatering costs.		\$750,000		1		Review cost/benefit ratio.		1	1	1	1			II	1		II	1			1	1		\$750,000
Was	tewater Treatment Plant Projec	cts Total	2000				\$48,284,000					\$395,000	\$109,757	\$819,583		1	\$0	\$500,000	\$0	\$0	\$0	\$0	\$5,700,000	\$16,500,000	\$21,970,000	\$0	\$3,510,000
												1,	1			1		,							,		
	TOTAL INCLUDING INFLATION	I VALUES (5% per year from 2024-2026 and 3%	per year from 2027-2030)									\$395,000	\$109,757	\$819,583	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$6,580,000	\$19,618,000	\$26,905,000	\$0	\$4,561,000
			· ·																							+	

New	port MUD													
Dete	ntion Ponds													
As of	8/1/24													
	Detention Ponds	Amount	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>
1	Newport Court - Detention Pond													
2	Newport Section 7 - Detention Pond													
3	Newport Section 8 - Detention Pond													
4	Newport Section 9 - Detention Pond													
5	Newport Section 10, PR1 - Detention Pond													
<u>6</u>	Seven Oaks Detention Pond													
	Detention Pond Projects Total		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total Bond Issue Requirement (1)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	(1) Total Bond Issue Requirement = Construction Cos	sts + Contingencies+ E	ngineering	+ Bond Issu	ance Costs									

Newport MUD														
Facilities														
As of 8/1/24		Bond												
		Issue #7												
	Cost	<u>2020</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	
Admin Bldg	\$250,000	\$250,000												
Facilities Total		\$250,000	\$0	\$0	\$0	\$0	\$0	\$0						
Total Bond Issue Requirement (1)		\$388,235	\$0	\$0	\$0	\$0	\$0	\$0						
(1) Total Bond Issue Red	guirement = Constru	uction Costs + Conti	ngencies+ Engine	ering + Bono	l Issuance C	osts								