



Utilities - Water

Aquifer, Storage and Recovery - Permanent Facilities (N)

NEW

PROJECT INFORMATION

PROJECT RANKING

1

STRATEGIC GOAL(S) Maintained/Upgraded/Expanded City Infrastructure

PROJECT DESCRIPTION AND JUSTIFICATION

This project is permitting and installation of permanent facilities following completion of Cycle Test 5. SWFWMD has preliminarily approved funding for this project at 50%. Obtaining this continued level of funding for this project was a significant achievement. Diversifying raw water sources is important for water supply reliability. With respect to costs of treatment, the treatment of brackish groundwater sources is more costly than for surface water. With respect to availability, surface waters are readily available during the summer rainy season as opposed to the winter dry season when seasonal populations and water demands are at their highest. An ASR system allows for the storage of surface water during the rainy season and recovery of that water during the dry season, when demands are at their highest.



Aquifer Storage & Recovery Piping

OPERATING BUDGET IMPACT

Operation of ASR well adds maintenance and operations costs. Electrical costs increase with pumping water into storage and when withdrawing water out of storage. Pre-treatment chemicals, if determined to be needed, will increase chemical costs. Chemical costs will be more initially and anticipated to decrease over time with maturity of aquifer bubble.

TOTAL ESTIMATED COST: \$ 1,625,525

Capital Improvement Element of Comprehensive Plan

Part of Capital Improvement Element (CIE) Level of Service (LOS) Restored  
 Project to go to DEO Consistent with MPO long-range plan  
 Proportionate Fair Share shown Meets FS 163.3164

Carryover

Cumulative Project Budget at 10/01/15	Cumulative Project Expenditures	Current YTD Encumbrances	Current Remaining Balance	Estimated Carryover at 09/30/16
\$ -	\$ -	-	-	\$ -

Funding Source	Prior Years	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5 Yr Total	FY 22-26
423-Water Capacity Fees	-	\$ 755,525	\$ 530,000	\$ -	\$ -	\$ -	\$ 1,285,525	\$ -
Grants	-	110,000	230,000	-	-	-	340,000	-
<b>TOTAL FUNDING</b>	<b>\$ -</b>	<b>\$ 865,525</b>	<b>\$ 760,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,625,525</b>	<b>\$ -</b>

Expenditure Type	Prior Years	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5 Yr Total	FY 22-26
Planning & Design	\$ -	\$ 160,000	\$ 208,525	\$ -	\$ -	\$ -	\$ 368,525	\$ -
Construction	-	705,525	551,475	-	-	-	1,257,000	-
<b>TOTAL COST</b>	<b>\$ -</b>	<b>\$ 865,525</b>	<b>\$ 760,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,625,525</b>	<b>\$ -</b>

Operating Impacts	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	5 Yr Total	FY 22-26
Repairs & Maintenance	\$ 25,000	\$ 26,250	\$ 27,563	\$ 28,941	\$ 30,388	\$ 138,141	\$ 178,600.00
Supplies	5,100	5,150	5,200	5,225	\$ 5,486	\$ 26,161	\$ 33,600.00
Utilities	15,120	15,876	16,670	17,503	\$ 18,378	\$ 83,548	\$ 108,000.00
<b>TOTAL OPERATING IMPACTS</b>	<b>\$ 45,220</b>	<b>\$ 47,276</b>	<b>\$ 49,432</b>	<b>\$ 51,669</b>	<b>\$ 54,252</b>	<b>\$ 247,850</b>	<b>\$ 320,200</b>

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

2017-32 Exhibit B

FY 2017 - 2026 Capital Improvement Plan  
Summary of ALL Capital Projects by Funding Type

Fund # Name	Carryover	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FYs 22-26
<b>IMPACT FEE FUNDS</b>							
150 Law Enforcement	\$ -	\$ 105,040	\$ 159,950	\$ -	\$ -	\$ -	-
Law Enforcement-WVID	-	-	-	-	-	-	-
151 Fire Rescue	526,387	32,500	-	400,000	-	-	5,893,378
Fire Rescue-WVID	-	-	-	450,000	75,000	75,000	375,000
152 Parks & Recreation	-	830,000	-	300,000	-	-	-
Parks & Recreation-WVID	-	-	-	-	-	-	-
153 Transportation	-	2,510,000	3,575,000	-	-	-	-
156 Solid Waste	-	-	-	-	-	-	-
157 General Government	-	-	-	-	-	-	-
General Government-WVID	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>\$ 526,387</b>	<b>\$ 3,477,540</b>	<b>\$ 3,734,950</b>	<b>\$ 1,150,000</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ 6,268,378</b>
<b>CAPITAL FUNDS</b>							
305 Surtax II	\$ 2,505,000	\$ -	\$ -	\$ -	\$ -	\$ -	-
306 Surtax III	7,232,842	9,640,270	16,068,529	3,874,424	3,724,119	7,973,659	22,586,746
325 Capital Acquisition	-	1,328,270	4,933,473	2,640,899	3,993,538	3,735,314	17,390,409
330 Bond-Road Reconstruction	14,112,531	-	-	-	-	-	-
<b>Sub-total</b>	<b>\$ 23,850,373</b>	<b>\$ 10,968,540</b>	<b>\$ 21,002,002</b>	<b>\$ 6,515,323</b>	<b>\$ 7,717,657</b>	<b>\$ 11,708,973</b>	<b>\$ 39,977,155</b>
<b>ENTERPRISE FUNDS</b>							
420 Utility Revenue Fund	\$ 1,121,657	\$ 800,000	\$ 2,400,000	\$ 1,100,000	\$ 800,000	\$ 250,000	\$ 1,000,000
423 Water Capacity Fees	961,143	1,653,755	1,410,000	750,000	750,000	50,000	250,000
424 Sewer Capacity Fees	1,988,005	707,140	1,100,000	2,075,000	50,000	50,000	2,560,000
431 Utility Construction Fund	555,752	-	-	-	-	-	-
<b>Sub-total</b>	<b>\$ 4,626,557</b>	<b>\$ 3,160,895</b>	<b>\$ 4,910,000</b>	<b>\$ 3,925,000</b>	<b>\$ 1,600,000</b>	<b>\$ 350,000</b>	<b>\$ 3,810,000</b>
<b>OTHER FUNDS</b>							
001 General Fund	\$ 30,795	\$ 199,000	\$ -	\$ -	\$ -	\$ -	-
107 Road & Drainage District	5,729,745	2,841,760	8,970,771	7,618,781	7,426,501	7,549,221	25,313,165
110 Fire Rescue District	200,000	317,000	85,000	-	-	-	-
115 Tree Fund	50,000	357,070	200,000	-	-	-	-
120 Solid Waste District	-	-	-	-	-	120,000	3,490,000
144 Escheated Lots	1,850,000	46,000	-	-	-	-	-
146 Escheated Lots-Parks	-	20,000	-	-	-	-	-
170 DEP	525,375	-	-	-	-	-	-
<b>Sub-total</b>	<b>\$ 8,385,915</b>	<b>\$ 3,780,830</b>	<b>\$ 9,255,771</b>	<b>\$ 7,618,781</b>	<b>\$ 7,426,501</b>	<b>\$ 7,669,221</b>	<b>\$ 28,803,165</b>
<b>Grand Total</b>	<b>\$ 37,389,232</b>	<b>\$ 21,387,805</b>	<b>\$ 38,902,723</b>	<b>\$ 19,209,104</b>	<b>\$ 16,819,158</b>	<b>\$ 19,803,194</b>	<b>\$ 78,858,698</b>
<b>Total FY 2017 Funding</b>		<b>\$ 58,777,037</b>					

**FY 2017 - 2026 Capital Improvement Plan  
Fund and Project Summary**

<b>423 - Capacity Fees - Utility Water Systems</b>		<b>Category: Utility</b>						
		<b>FY 16-17</b>	<b>FY 17-18</b>	<b>FY 18-19</b>	<b>FY 19-20</b>	<b>FY 20-21</b>	<b>FYs 22-26</b>	
<b>Estimated Available Beginning Balance:</b>		<b>\$ 2,188,760</b>	<b>\$ 1,354,005</b>	<b>\$ 879,005</b>	<b>\$ 616,105</b>	<b>\$ 353,205</b>	<b>\$ 790,305</b>	
<b>REVENUE</b>								
Capacity Fees		690,000	690,000	472,100	472,100	472,100	2,360,500	
Investment Income		19,000	15,000	15,000	15,000	15,000	75,000	
Grants	229,250	110,000	230,000					
Developer Agreement		-	-	-	-	-	-	
<b>Total Revenue:</b>	<b>\$ 229,250</b>	<b>819,000</b>	<b>935,000</b>	<b>487,100</b>	<b>487,100</b>	<b>487,100</b>	<b>2,435,500</b>	
<b>CAPITAL PROJECT EXPENSES</b>	<b>Carryover</b>	<b>New Funding</b>						
<b><i>New Assets</i></b>								
U13WPP	Pipeline coming from the MCWTP (N)	309,475	217,690	-	-	-	-	
U15ASR	Aquifer, Storage and Recovery - Partially Treated (N)	397,102	-	-	-	-	-	
NEW	Aquifer, Storage and Recovery - Permanent Facilities (N)	-	865,525	760,000	-	-	-	
NEW	Water Transmission from MCWTP to Ortiz - Phase 1 (N)	-	250,000	-	-	-	-	
NEW	Water Transmission Oversizing (N)	-	100,000	-	-	-	-	
PROGRAM	Water Transmission from Ortiz to MCWTP (N)	-	-	600,000	700,000	700,000	-	
PROGRAM	Water Transmission Oversizing (N)	-	-	50,000	50,000	50,000	250,000	
<b><i>Improvement of Existing Assets</i></b>								
U15WTP	MCWTP Reliability Project (I)	254,566	-	-	-	-	-	
NEW	Ammonia Upgrade at Booster Pump Stations (I)	-	50,000	-	-	-	-	
<b><i>Replacement of Existing Assets</i></b>								
U15WT2	Water Transmission Service Improvements (R)	-	170,540	-	-	-	-	
<b>Sub-total - New, Existing, Replacement Assets</b>	<b>961,143</b>	<b>1,653,755</b>	<b>1,410,000</b>	<b>750,000</b>	<b>750,000</b>	<b>50,000</b>	<b>250,000</b>	
<b>Total Capital Project Expenses:</b>		<b>1,653,755</b>	<b>1,410,000</b>	<b>750,000</b>	<b>750,000</b>	<b>50,000</b>	<b>250,000</b>	
<b>Estimated Ending Balance:</b>	<b>\$ 229,250</b>	<b>\$ 1,354,005</b>	<b>\$ 879,005</b>	<b>\$ 616,105</b>	<b>\$ 353,205</b>	<b>\$ 790,305</b>	<b>\$ 2,975,805</b>	