

**Wastewater Reclamation Authority
CIP Spending by Project and Category**

WRA 2015 Amended

<u>Expenditures from CIP sheets</u>		2014	2015	2016	2017	2018	2019	2020	subtotal Spending
WRA Projects - Expansion Category									
85	Ph 24 Four Mile Interceptor Ext.	\$ 869,035.0							\$ 869,035.0
97	Ph 23 Four Mile Interceptor CLOSED								-
82	Ph 13 WDM Outfall	55,523.0							55,523.0
92	Ph 18 WDM Outfall Ext. CLOSED								-
99	Ph 19 Mud Creek	7,606,259.0	1,850,092.0						9,456,351.0
100	Corridor Preservation	57,368.0	\$ 25,000.0						82,368.0
107	Ph 10 Southern Tier Improvements	\$ 41,600.0	\$ 430,400.0	\$ 238,450.0		\$ 115,500.0	\$ 1,520,000.0		2,345,950.0
Expansion Funding Ttl		\$ 8,588,185.0	\$ 1,916,692.0	\$ 430,400.0	\$ 238,450.0	\$ -	\$ 115,500.0	\$ 1,520,000.0	\$ 12,809,227.0
WRA Projects - SW Area Div. Category									
81	P21,22 SW Area Diversion Project	13,977,105.0	\$ 1,272,710.0						15,249,815.0
101	a / b Sponsored Project w Polk Co	189,000.0	\$ 2,511,000.0	\$ 548,300.0					3,248,300.0
102	Sponsored Project Streambanks		\$ 948,000.0	\$ 212,000.0					1,160,000.0
103	Ph 10 Southern Tier for SW ADF	4,278,701.0	\$ 7,028,580.0	\$ 2,412,220.0					13,719,501.0
SW Area Funding Ttl		\$ 18,444,806.0	\$ 11,760,290.0	\$ 3,172,520.0	\$ -	\$ -	\$ -	\$ -	\$ 33,377,616.0
WRA Projects - Core Category									
86	Ph 17 DM River Outfall / Main Outfall	\$ 14,253,262.0							14,253,262.0
87	Ph 17 CSSS Facility	5,457,892.0							5,457,892.0
88	Ph 25 Ingersoll Run CSO	15,243.0	15,000.0						30,243.0
74	Ph 1 Digester Improvements	4,218,049.0							4,218,049.0
111	Grit Basin Improvements		2,600.0	275,800.0	934,500.0	5,757,900.0	1,204,320.0		8,175,120.0
93	Ph 25 Flow Monitoring Seg 3	337,234.0							337,234.0
105	Flood Improvements			70,300.0	517,440.0	\$ 3,712,580.0	\$ 1,674,690.0		5,975,010.0
104	Equalization Basin Improvement	89,547.0	300,000.0						389,547.0
110	Ph 10 Southern Tier Improvements				132,170.0	2,340,300.0	3,506,400.0		5,978,870.0
		\$ 24,371,227.0	\$ 317,600.0	\$ 346,100.0	\$ 1,584,110.0	\$ 11,810,780.0	\$ 6,385,410.0	\$ -	\$ 44,815,227.0
WRF Projects & projects w/Community Contributions									
69	Facility Plan update	\$ 200,000.0	\$ 200,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	1,025,000.0
77	Power Generation System	662,111.0			325,000.0	650,000.0			1,637,111.0
78	Facilities Rehabilitation	212,792.0	300,000.0	250,000.0	200,000.0	200,000.0	200,000.0	200,000.0	1,562,792.0
79	Special Projects (grant funded)	-							-
83	Sewer Maintenance Contracts	944,600.0	250,000.0	150,000.0	150,000.0	150,000.0	150,000.0	150,000.0	1,944,600.0
108	Eastside Interceptor		561,600.0	2,401,150.0	17,314,460.0	32,264,700.0	14,925,300.0		67,467,210.0
91	Small CIP & Studies	84,263.0	50,000.0	40,000.0	30,000.0	30,000.0	30,000.0	30,000.0	294,263.0
96	Transition Costs	37,646.0							37,646.0
98 & 106	Plant Projects, including Eq. R	7,117,881.0	\$ 3,485,000.0	\$ 3,095,000.0	\$ 3,135,000.0	\$ 3,235,000.0	\$ 3,240,000.0	\$ 3,665,000.0	26,972,881.0
		\$ 9,259,293.0	\$ 4,846,600.0	\$ 6,061,150.0	\$ 21,279,460.0	\$ 36,654,700.0	\$ 18,670,300.0	\$ 4,170,000.0	\$ 100,941,503.0
Revised Estimate for F14		\$ 60,663,511.0							
		2015	\$ 18,841,182.0						
		2016		\$ 10,010,170.0					
		2017			\$ 23,102,020.0				
		2018				\$ 48,465,480.0			
		2019					\$ 25,171,210.0		
		2020						\$ 5,690,000.0	
Summary of Costs, Six-Year-Period									\$ 131,280,062.0

Summary

Wastewater Reclamation Authority Improvements FY2015+ Amended in July 2014

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	TOTAL ESTIMATED COST	COST THROUGH F13	REVISED ESTIMATE F14	TOTAL ESTIMATED COST THROUGH	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2020
						F15	F16	F17	F18	F19	F20	
Expenses, detail on following page	578,255,356	312,412,613	60,662,768	373,075,381	131,280,062	18,841,182	10,010,170	23,102,020	48,465,480	25,171,210	5,690,000	73,899,913
Resources:												
Beginning Balance	0	0	29,041,344	0		(477,398)	4,559,320	65,000	(11,059,900)	20,939,710	34,500	0
Interest Earnings	5,555,557	4,589,461	876,096	5,465,557	90,000	10,000	10,000	15,000	15,000	20,000	20,000	0
Communties (Small CIP, R&R)	31,150,300	4,650,300	3,500,000	8,150,300	23,000,000	3,600,000	3,800,000	3,800,000	3,900,000	3,900,000	4,000,000	0
Communities (Major Projects)	21,608,393	12,353,393	0	12,353,393	9,255,000	42,600	285,400	172,000	59,000	8,646,000	50,000	0
Future Funding	170,210,573	0	450,000	450,000	96,700,660	15,173,500	670,450	8,090,120	78,941,090	(8,600,000)	2,425,500	73,059,913
Bond Proceeds	73,960,814	73,417,394	543,420	73,960,814	0	0	0	0	0	0	0	0
SRF Drawdowns	270,539,005	242,589,945	25,397,260	267,987,205	2,551,800	4,801,800	600,000	(250,000)	(2,600,000)	150,000	(150,000)	0
Other	5,230,714	3,853,464	377,250	4,230,714	1,000,000	250,000	150,000	150,000	150,000	150,000	150,000	0
Total Resources	578,255,356	341,453,957	60,185,370	372,597,983	132,597,460	23,400,502	10,075,170	12,042,120	69,405,190	25,205,710	6,530,000	73,059,913

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Mud Creek Interceptor P 19								AG267 WRA990000 WRA099	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	20,927,420	3,327,150	8,143,919	11,471,069	7,606,259	19,077,328	1,850,092						
Beginning Balance					2,597,431		357,592						
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds	823,420	30,000	800,000	830,000	(6,580)	823,420							
SRF Drawdowns	19,104,000		12,238,500	12,238,500	5,373,000	17,611,500	1,492,500						
Other, Altoona	1,000,000	1,000,000		1,000,000		1,000,000							
Total Resources	20,927,420	1,030,000	13,038,500	14,068,500	7,963,851	19,434,920	1,850,092						
ENDING BALANCE	0	(2,297,150)	4,894,581	2,597,431	357,592	357,592	0	0	0	0	0	0	0

Description: Expansion project.
 This project will provide service to the Mud Creek area in Altoona and serve as the Bondurant connection to the WRA system.

City of Altoona provided funding to start the project.

Justification:
 Required to provide capacity for the Mud Creek area in Altoona and as an outlet for Bondurant.

Scheduling:
 Phase 1: Design-F08 started under 28E expedite, Construction-F12/15.

Relationship to General Plan and Other Projects:
 This project was included in the 2004 WRA Facility Plan Update. Construction began spring 2012.

Operating Budget Effect:
 Revenues and expenses will increase as flows increase.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA / Polk County Sponsored Project / Four Mile Acquisition - Part A								AG267 WRA990000 WRA 101a	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	2,189,000				189,000	189,000	2,000,000						
Beginning Balance							2,000,000						
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns	2,189,000				2,189,000	2,189,000							
Other													
Total Resources	2,189,000				2,189,000	2,189,000	2,000,000						
ENDING BALANCE	0	0	0	0	2,000,000	2,000,000	0	0	0	0	0	0	0

Description:

This project was awarded funding in the fall of 2013 through the Clean Water SRF Water Resource Restoration Sponsored Project Program.

The project includes the acquisition of 20 properties from Easton Boulevard to Hubbell Avenue in Des Moines. The scope includes the acquisition, demolition, grading, and vegetation of the properties. These properties represent the highest risk to flood damage and also are situated to develop a continuous stream corridor. These buyouts, coupled with the 153 properties previously acquired by Des Moines, will also create a continuous stream corridor to improve the conveyance of flow, provide a larger stream buffer for water quality, and ultimately create an educational and recreational component to the Fourmile Creek Watershed.

Justification:

This project includes the voluntary acquisition of properties along Fourmile Creek to restore the riparian buffer and floodplain. The acquisitions would eliminate point sources of contaminants, particularly during storm events when pollutant levels are elevated. Household chemicals and debris would be removed from the floodplain. In addition, the expanded floodplain can reduce velocities in the channel which reduces stress on the stream banks resulting in decreased erosion.

Finally, the elimination of the sewer services within the floodplain will reduce the flow to the WRA system as well as remove a potential location of sewage overflow.

Scheduling:

To begin Spring 2014 and continue for 12-15 months.

Relationship to General Plan and Other Projects:

Total Debt Service on SRF Loan 2012G will not change. WRA will ask the Iowa Finance Authority for an amendment to increase principal, reduce interest rate and lower Interest payments.

Operating Budget Effect:

Revenues and operations and maintenance costs will not be impacted with this additional project as Polk County will help sponsor.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY					PROJECT TITLE						ACCOUNT		
Wastewater Reclamation Authority Improvements					WRA / Polk County Sponsored Project / Four Mile Acquisition - Part B						AG267 WRA990000 WRA 101b		
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	1,059,300						511,000	548,300					
Beginning Balance								548,300					
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns	1,059,300						1,059,300						
Other													
Total Resources	1,059,300						1,059,300	548,300					
ENDING BALANCE	0	0	0	0	0	0	548,300	0	0	0	0	0	0

Description:

This project was awarded funding in the fall of 2013 through the Clean Water SRF Water Resource Restoration Sponsored Project Program. WRA will first use funding available in Part A, then proceed with Part B.

Justification:

This project continues the voluntary acquisition of properties along Fourmile Creek to restore the riparian buffer and floodplain.

Scheduling:

To begin Spring 2015 and continue for 5-10 months (until funds allowed are maximized).

Relationship to General Plan and Other Projects:

Total Debt Service on SRF Loan 2011D will not change. WRA will ask the Iowa Finance Authority for an amendment to increase principal, reduce interest rate and lower Interest payments.

Part 2 of 2

Operating Budget Effect:

Revenues and operations and maintenance costs will not be impacted with this additional project as Polk County will help sponsor.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Four Mile Creek Streambank Restoration Sponsored Project								AG267	
												WRA990000	
												WRA 1xx	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	1,160,000						948,000	212,000					
Beginning Balance								212,000					
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	1,160,000						1,160,000						
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	1,160,000						1,160,000	212,000					
ENDING BALANCE	0	0	0	0	0	0	212,000	0	0	0	0	0	0

Description:

This project was awarded funding in June 2014 through the Clean Water SRF Water Resource Restoration Sponsored Project Program.

The project will include approximately 5000 feet of stream bank restoration along the banks of Four Mile Creek in locations where the WRA Four Mile Interceptor needs protection from stream bank erosion.

Justification:

The project will protect the WRA Four Mile Interceptor from stream bank erosion caused by Four Mile Creek. The project will improve the condition of the Four Mile Creek stream bank which in turn will stabilize the area in the vicinity of the interceptor to minimize the risk of having the pipeline compromised.

Scheduling:

Design summer 2014. Easement acquisition fall 2014. Construction winter 2014-2015.

Relationship to General Plan and Other Projects:

Total debt service on SRF Loans for P10 Seg 15-17 will not change. WRA will ask the Iowa Finance Authority for an amendment to increase principal, reduce interest rate and lower Interest payments.

Operating Budget Effect:

Revenues, operations and maintenance costs, and debt service will not be impacted with the addition of this project.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE						ACCOUNT			
Wastewater Reclamation Authority Improvements				WRF Flood Improvements						AG267 WRA990000 WRA 105			
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	5,975,010							70,300	517,440	3,712,580	1,674,690		
Beginning Balance									179,700	(312,740)	1,649,690		
Interest Earnings													
Repair and Replacement Fund Communities	80,000								25,000	30,000	25,000		
Future Funding	5,895,010									5,895,010			
Bond Proceeds													
SRF Drawdowns / P& D loan								250,000		(250,000)			
Other													
Total Resources	5,975,010							250,000	204,700	5,362,270	1,674,690		
ENDING BALANCE	0	0	0	0	0	0	0	179,700	(312,740)	1,649,690	0	0	0

Description:

The project will construct multiple improvements to the WRF to reduce flood vulnerability and to provide improved protection against elevated river levels.

Justification:

The WRF is currently located adjacent to the Des Moines River, and as such, is vulnerable to elevated river levels. Many of the facility's electrical transformers and buildings are at an elevation that is vulnerable to inundation. The purpose of the project is to reduce the flood vulnerability of the WRF, and to protect the WRA's existing assets located within the WRF.

Scheduling:

Project design in F16/F17; Construction in F18/F19.

Relationship to General Plan and Other Projects:

These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation Authority.

Operating Budget Effect:

This project will reduce the risk of flooding at the WRF which could effect the cost of flood insurance to the WRA.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Southern Tier Interceptor P10, Segments 1,3,4,7,8 (Expansion Debt)								AG267 WRA990000 WRA107	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2021-26
							F15	F16	F17	F18	F19	F20	
Expenses	9,885,950						41,600	430,400	238,450		115,500	1,520,000	7,540,000
Beginning Balance								8,400	238,450			34,500	
Interest Earnings													
Repair and Replacement Fund Communities	90,000							40,000				50,000	
Future Funding	9,795,950							670,450				2,425,500	6,700,000
Bond Proceeds													
SRF Drawdowns (P&D Loans)							50,000	(50,000)			150,000	(150,000)	
Other													
Total Resources	9,885,950						50,000	668,850	238,450		150,000	2,360,000	6,700,000
ENDING BALANCE	0	0	0	0	0	0	8,400	238,450	0	0	34,500	840,000	0

Description: Expansion Project.

Construction of approximately 27,000 feet of 30 to 36-inch diameter sewer pipeline extending from the Southern Tier Pump Station & Equalization Basin (Area 'B') westerly and paralleling and connecting to the existing Southern Tier Interceptor east of Iowa Highway 28.

Justification:

To increase the flow capacity in the western reach of the Southern Tier Interceptor to accommodate the increase in population growth in the service area.

Scheduling:

Design F16/F17; Construction F18/F19.

Relationship to General Plan and Other Projects:

Phase 10 Segments 1, 4, 3,7-8

These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation Authority.

Operating Budget Effect:

The new facilities constructed for this project will increase operations and maintenance costs to the WRA.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Eastside Interceptor								AG267 WRA990000 WRA108	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	67,467,210						561,600	2,401,150	17,314,460	32,264,700	14,925,300		
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities (28E agreement)	9,000,000						40,000	240,000	120,000			8,600,000	
Future Funding	58,467,210									67,067,210		(8,600,000)	
Bond Proceeds													
SRF Drawdowns / P& D loan							2,200,000			(2,200,000)			
Other													
Total Resources	67,467,210						2,240,000	1,918,400	(362,750)	47,190,000	14,925,300		
ENDING BALANCE	0	0	0	0	0	0	1,678,400	(482,750)	(17,677,210)	14,925,300	0	0	0

Description:

This project conveys wastewater flow from the existing WRA Westside Interceptor to the WRA Wastewater Reclamation Facility. The new Eastside Interceptor pipeline will be constructed through the eastside of Des Moines. The project will construct a force main and gravity sewer pipe that starts at the WRF and continues northwesterly to a point directly east of the existing Westside pump station.

The project would include modifications to the existing Westside Pump Station to include an expansion for high flow pumping.

Justification:

The project provides relief to the overloaded Westside Interceptor that serves the Cities of Des Moines, Johnston, Ankeny, Polk City, Polk County, and a portion of the Urbandale Sanitary Sewer District. As outlined in the 28E agreement for the Rock Creek Interceptor project the communities of Polk County, Polk City, and Ankeny will contribute \$8,600,000 towards the funding of this project.

Scheduling:

Project design F15/F16; Construction F17/F18/F19.

Relationship to General Plan and Other Projects:

These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation Authority.

Operating Budget Effect:

The new facilities constructed for this project will increase operations and maintenance costs to the WRA.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRA Southern Tier Interceptor Improvements (Segment 6)								AG267 WRA990000 WR110
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST Beyond FY2020
							F15	F16	F17	F18	F19	F20	
Expenses	5,978,870								132,170	2,340,300	3,506,400		
Beginning Balance										17,830	3,506,400		
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	5,978,870									5,978,870			
Bond Proceeds													
SRF Drawdowns / P& D loan									150,000	(150,000)			
Other													
Total Resources	5,978,870								150,000	5,846,700	3,506,400		
ENDING BALANCE	0	0	0	0	0	0	0	0	0	17,830	3,506,400	0	0

Description:

An approximately 10,000 foot 48-inch diameter sewer pipeline extending from the Southern Tier Equalization Basin (Area 'C') northwesterly and paralleling the existing 54-inch diameter interceptor sewer pipeline and connecting to the Southside Des Moines River Interceptor.

Justification:

To increase the flow capacity in this reach of the Southern Tier Interceptor to accommodate the peak flows from the tributary service areas as well as the release flows from the Southwest Area Diversion Facility Phase 22 Segment 6 equalization basin.

Scheduling:

Design F16/F17; Construction F18/F19.

Relationship to General Plan and Other Projects:

Phase 10 Segment 6 only
 These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the Des Moines wastewater Reclamation Authority.

Operating Budget Effect:

The new facilities constructed for this project will increase operations and maintenance costs to the WRA.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Grit Basin Improvements								AG267 WRA99000 WR111	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST Beyond FY2020
							F15	F16	F17	F18	F19	F20	
Expenses	8,175,120						2,600	275,800	934,500	5,757,900	1,204,320		
Beginning Balance									129,600	6,912,220	1,183,320		
Interest Earnings													
Repair and Replacement Fund Communities, Non-eligible costs	85,000						2,600	5,400	27,000	29,000	21,000		
Future Funding	8,090,120								8,090,120				
Bond Proceeds								400,000	(400,000)				
SRF Drawdowns / P&D loan													
Other													
Total Resources	8,175,120						2,600	405,400	7,846,720	6,941,220	1,204,320		
ENDING BALANCE	0	0	0	0	0	0	0	129,600	6,912,220	1,183,320	0	0	0

Description: Core Project.

The project will construct additional grit basins, modify the existing grit conveyance facilities, and optimize the grit removal system in the existing basin layout. The project also includes a chemical enhancement system for the existing primary clarifiers to enhance settling during elevated flow conditions through chemical augmentation.

Justification:

The WRF currently has six identical grit basins, and the original concept plan for the WRF included space for two additional grit basins. Ideally, more than two additional grit basins would be constructed, but space constraints will not allow for the construction of more than two additional basins. The hydraulic detention time at peak flows is too short for optimum grit removal, so the improvement will improve the hydraulic detention time in the existing grit basins, modify the grit conveyance facilities, and make modifications to optimize the grit removal in the existing basins.

Scheduling:

Project design in F16; Construction in F17/F18/F19.

Relationship to General Plan and Other Projects:

These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation Authority.

Operating Budget Effect:

Operating and maintenance costs will increase with implementation of the facilities.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Southern Tier Interceptor & Pump Stn P10, Segments 14,15,16,17 (SW Area Diversion)								AG267 WRA990000 WRA103	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F15	F16	F17	F18	F19	F20	FY2020
Expenses	18,215,230	320,717	4,175,012	4,495,729	4,278,701	8,774,430	7,028,580	2,412,220					
Beginning Balance					(395,729)		(4,372,700)	2,412,220					
Interest Earnings	1,730				1,730	1,730							
Repair and Replacement Fund Communities													
Future Funding	13,813,500						13,813,500						
Bond Proceeds realloc 81	4,400,000	2,600,000	1,500,000	4,100,000	300,000	4,400,000							
SRF Drawdowns													
Other													
Total Resources	18,215,230	2,600,000	1,500,000	4,100,000	(93,999)	4,401,730	9,440,800	2,412,220					
ENDING BALANCE	0	2,279,283	(2,675,012)	(395,729)	(4,372,700)	(4,372,700)	2,412,220	0	0	0	0	0	0

Description:
 This project will increase the capacity of the Southern Tier Interceptor. F14/F15 improvements will increase the pipe line capacity from the Souther Tier pump station to the Area C equalization basin. This project also includes the construction of a high lift pump station at the existing Southern Tier pump station site.

Justification:
 The high lift pump station, parrallel force main, and gravity sewer will be used to accommodate the flow from the SWADF Equalization Basin at the old Norwalk treatment plant site.

Scheduling:
 This project has been re-scheduled to begin F11 from F19. Design in F11/14. Construction in F13/15.

Relationship to General Plan and Other Projects: Phase 10 Segments 14,15-17 Authority.

Operating Budget Effect:
 This project will increase operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE						ACCOUNT				
Wastewater Reclamation Authority Improvements				WRA Equalization Basin Improvements						AG267 WRA990000 WRA104				
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020	
							F15	F16	F17	F18	F19	F20		
Expenses	2,210,516	1,786,256	34,713	1,820,969	89,547	1,910,516	300,000							
Beginning Balance					89,547									
Interest Earnings														
Repair and Replacement Fund														
Communities														
Future Funding														
Bond Proceeds	1,410,516	710,516	700,000	1,410,516		1,410,516								
SRF Drawdowns														
Other, Grant Money & Small CIP	800,000	500,000		500,000		500,000	300,000							
Total Resources	2,210,516	1,210,516	700,000	1,910,516	89,547	1,910,516	300,000							
ENDING BALANCE	0	(575,740)	665,287	89,547	0	0	0	0	0	0	0	0	0	0

Description:

Improvements/Modifications/Abandonment of existing WRA equalization basins. This project will modify and upgrade the existing Area C and Beaver Creek Equalization Basins in order to begin utilizing these facilities in the conveyance system.

Justification:

An equalization utilization study was done in F09 indicating a benefit to WRA conveyance system would be achieved by utilizing Beaver Creek and Area C equalization basins.

Scheduling:

Improvements in AreaC: F11/12

Improvements in Beaver Creek: F11/12

Abandonment of Highland Hills: F14

Relationship to General Plan and Other Projects:

These improvements will be funded from I-Jobs Grant \$500,000 and Core bond funds.

Operating Budget Effect:

This project will increase revenues and operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Small Projects, & Process Equipment Repl for 2013, 2014, 2015, 2016								AG267 WRA990000 WRA106	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	11,523,584		5,973	5,973	4,937,611	4,943,584	3,485,000	3,095,000					
Beginning Balance					2,679,027		425,000	(300,000)					
Interest Earnings	35,000		5,000	5,000	10,000	15,000	10,000	10,000					
Repair/Replace, Commty SmCip Communities, Non-eligible Costs	14,200,000		3,300,000	3,300,000	3,500,000	6,800,000	3,600,000	3,800,000					
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(2,711,416)		(620,000)	(620,000)	(826,416)	(1,446,416)	(850,000)	(415,000)					
Total Resources	11,523,584		2,685,000	2,685,000	5,362,611	5,368,584	3,185,000	3,095,000					
ENDING BALANCE	0	0	2,679,027	2,679,027	425,000	425,000	(300,000)	0	0	0	0	0	0

Description:

Renewal and replacement of existing process equipment, includes small plant projects.

Justification:

Annual plant maintenance over \$5,000 in amount that reduces operating repair costs and extends the useful life of the asset.

Scheduling:

F13-14: Bar screen #2, #4, #5 repl. Unanticipated needs.

F14-15: Ferrous chloride chemical dosing system, Blast & coat two clarifiers. Unanticipated needs.

F15-16: Replace various pumps and VFD's. Add one additional Belt Filter Press. Unanticipated needs.

Relationship to General Plan and Other Projects:

This project will be funded with interest earnings from R&R reserve fund and community contributions. Transfers out will provide funding to other R&R projects.

Operating Budget Effect:

This project will maintain the current level of service and reduce operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY						PROJECT TITLE						ACCOUNT	
Wastewater Reclamation Authority Improvements						WRF Studies, Small Projects, & Process Equipment Replacement						AG267 WRA990000 WRA106	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	13,275,000								3,135,000	3,235,000	3,240,000	3,665,000	
Beginning Balance													
Interest Earnings	70,000								15,000	15,000	20,000	20,000	
Repair/Replace, Commty SmCip Communities, Non-eligible Costs	15,600,000								3,800,000	3,900,000	3,900,000	4,000,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(2,395,000)								(680,000)	(680,000)	(680,000)	(355,000)	
Total Resources	13,275,000								3,135,000	3,235,000	3,240,000	3,665,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

Renewal and replacement of existing process equipment, includes small plant projects.

Justification:

Scheduling:

This sheet is for future WRF projects

Relationship to General Plan and Other Projects:

This project will be funded with interest earnings from R&R reserve fund and community contributions. Transfers out will provide funding to other R&R projects.

Operating Budget Effect:

This project will maintain the current level of service and reduce operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Facility Plan Update [commty funded from Small CIP]								AG267 WRA990000 WRA069	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	1,980,465	677,156	278,309	955,465	200,000	1,155,465	200,000	125,000	125,000	125,000	125,000	125,000	
Beginning Balance					(9)								
Interest Earnings	28,379	28,370		28,370	9	28,379							
Repair and Replacement Fund Communities	450,640	450,640		450,640		450,640							
Future Funding Bond Proceeds													
SRF Drawdowns													
Other (tsfr) WR098/WR106	1,501,446	198,146	278,300	476,446	200,000	676,446	200,000	125,000	125,000	125,000	125,000	125,000	
Total Resources	1,980,465	677,156	278,300	955,456	200,000	1,155,465	200,000	125,000	125,000	125,000	125,000	125,000	
ENDING BALANCE	0	0	(9)	(9)	0	0	0	0	0	0	0	0	0

Description:

This project provides for an update of the original ICA Facility Plan in anticipation of needs through the year 2020. Core projects and expansion projects are included in the facility plan. Funding in years F05 through F11 are discretionary for use in funding special studies and special assistance to the authority in implementing the facility plan including cost updates and bond projections. Funding in F07 and beyond includes financial planning and bond council.

This project funds a new Facility Plan update for the WRA which will be completed in late 2013.

Justification:

The original 201 and 208 studies were completed in 1978 and 1982, respectively, and current growth levels are beyond the expectations of those studies. The study will identify the needs of the WRA through 2020. To evaluate growth, conveyance and wastewater treatment needs of the WRA past 2020.

Scheduling:

The WRA Facility Plan was approved by the WRA Board and submitted to IDNR in March, 2004. Plan implementation started in F04.

The New Facility Plan will be reviewed by the IDNR in 2013/2014.

Relationship to General Plan and Other Projects:

Beginning F10 funding source will be a transfer from WRA098, R&R community funds.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Digester Improvements							AG267 WRA990000 WRA074		
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND 2,020	
							F15	F16	F17	F18	F19		F20
Expenses	24,213,000	16,429,770	3,565,181	19,994,951	4,218,049	24,213,000							
Beginning Balance					3,868,049								
Interest Earnings	388,000		388,000	388,000		388,000							
Repair and Replacement Fund Communities													
Future Funding	350,000				350,000	350,000							
Bond Proceeds	210,000	210,000		210,000		210,000							
SRF Drawdowns	23,265,000	23,265,000		23,265,000		23,265,000							
Other													
Total Resources	24,213,000	23,475,000	388,000	23,863,000	4,218,049	24,213,000							
ENDING BALANCE	0	7,045,230	(3,177,181)	3,868,049	0	0	0	0	0	0	0	0	0

Description:

F10 improvements will involve improving the mixing system, replacing the insulated covers with fixed concrete covers, and upgrading the digester gas system.

Justification:

Digester gas contains hydrogen sulfide which corrodes components necessitating replacement. The equipment must be replaced in order to maintain the current level of service and reduce maintenance costs. This project will result in delivery of higher quality gas to the engine generators. Some improvements are necessitated by the increase in gas production that will require larger piping and appurtenances.

Scheduling:

The study and design were completed in F09 with construction in F09 through F14. A study was done in F08 to investigate a method of increasing gas production and reducing solids with the results used in the design of these improvements. Change in estimate F10: Exhibit 31 estimates brought current.

Relationship to General Plan and Other Projects:

This project was included in the 2004 WRA Facility Plan Update. Bonding was scheduled for 2010.

Operating Budget Effect:

This project will result in a decrease in long term operations and maintenance costs with potential increased revenues.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Power Generation System								AG267 WRA990000 WRA077	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						F17
							F15	F16	F17	F18	F19	F20	
Expenses	4,700,052	2,758,516	304,425	3,062,941	662,111	3,725,052			325,000	650,000			
Beginning Balance					317,111						(325,000)		
Interest Earnings	12,543	12,543		12,543		12,543							
Repair and Replacement Fund	1,033,512	1,033,512		1,033,512		1,033,512							
Communities	273,118	273,118		273,118		273,118							
Future Funding													
Bond Proceeds	1,755,879	1,755,879		1,755,879		1,755,879							
SRF Drawdowns													
Other / comnty funds 098	1,625,000		305,000	305,000	345,000	650,000			325,000	325,000	325,000		
Total Resources	4,700,052	3,075,052	305,000	3,380,052	662,111	3,725,052			325,000	325,000			
ENDING BALANCE	0	316,536	575	317,111	0	0	0	0	0	(325,000)	0	0	0

Description:

F10 costs are for overhauling two generators. F12 costs are for a standard engine and generator rebuild plus replacement of one engine upper block. F14 costs are for two standard engine and generator rebuilds.

Justification:

The engines burn the bio-gas produced by the digesters to produce electricity saving more than \$500,000 annually. New technology offers lower O&M cost and produce more electricity. Engine overhauls are required every 25,000 hours. For budgeting purposes, the overhauls occur every 4 years at a cost of \$1,300,000. An annual collection assures adequate funds for overhauls.

Scheduling:

Past rebuilds were completed in F09-F10 and F13-F14.

Relationship to General Plan and Other Projects:

Community funding thru WRA098 will provide funding after bond issue.

Operating Budget Effect:

This project will result in a decrease in long-term operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Facilities Rehabilitation [commty funded from Small CIP]								AG267 WRA990000 WRA078	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	3,411,788	1,716,975	132,021	1,848,996	212,792	2,061,788	300,000	250,000	200,000	200,000	200,000	200,000	
Beginning Balance					12,792								
Interest Earnings	25,000	25,000		25,000		25,000							
Repair and Replacement Fund	316,788	316,788		316,788		316,788							
Communities	970,000	970,000		970,000		970,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr) WR098/WR106	2,100,000	410,000	140,000	550,000	200,000	750,000	300,000	250,000	200,000	200,000	200,000	200,000	
Total Resources	3,411,788	1,721,788	140,000	1,861,788	212,792	2,061,788	300,000	250,000	200,000	200,000	200,000	200,000	
ENDING BALANCE	0	4,813	7,979	12,792	0	0	0	0	0	0	0	0	0

Description:

These projects are for non-process repair and replacement projects at the WRF and off-site WRA facilities.

Justification:

As buildings and infrastructure age, capital projects will be required to preserve facilities in a serviceable condition.

Scheduling:

F09: Roof Replacement on Building 35, HVAC Improvements.

F10: Roof Replacement on Buildings 70 & 94, HVAC Improvements.

F11: Replace Air handling units in Buildings 12, 26, 27 & 28, HVAC Improvements.

F14: Roof Replacement on Building 93; Building 12 Exhaust Air handling Modifications.

Relationship to General Plan and Other Projects:

Community funding thru WRA098 will provide future funding of WRA078 expense.

Operating Budget Effect:

These projects will reduce operations and maintenance costs in future years.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Special Projects [comnty funded portion from WRA098]								AG267 WRA990000 WRA079 1	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	426,699	158,204	268,495	426,699		426,699							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr) WR098/WR106	426,699	158,204	268,495	426,699		426,699							
Total Resources	426,699	158,204	268,495	426,699		426,699							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

WRA has received moneys from State and Federal program Grants. No money is available at present time for F14 or F15.

Justification:

Scheduling:

F11: Software updates

F12: Software updates

F 13: Motor Replacement and VFD Replacement

Relationship to General Plan and Other Projects:

this project sheet and the following will fully fund the listed projects

Operating Budget Effect:

This project will increase the current level of service and reduce operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Special Projects [Grant Funded portion]								AG267 WRA990000 WRA079 2	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	869,906	158,204	711,702	869,906		869,906							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other, Grant Money & Mid American	869,906	158,204	711,702	869,906		869,906							
Total Resources	869,906	158,204	711,702	869,906		869,906							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:
WRA has received or expects to receive the above Grants from State and Federal programs. Mid American also contributed \$210,000 towards the replacement of \$922,997 VFD's.

Justification:

Scheduling:
F11: Software updates
F12: Software updates
F 13: Motor Replacement and VFD Replacement

Relationship to General Plan and Other Projects:
this project sheet and the previous will fully fund the listed projects

Operating Budget Effect:
This project will increase the current level of service and reduce operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				Southwest Area Diversion Facilities Phase 21 and 22				AG267 WRA990000 WRA081					
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND 2,020	
							F15	F16	F17	F18	F19		F20
Expenses	97,804,505	62,480,443	20,074,247	82,554,690	13,977,105	96,531,795	1,272,710						
Beginning Balance					8,979,815		1,072,710						
Interest Earnings	2,447,620	1,280,963	1,166,657	2,447,620		2,447,620							
Repair and Replacement Fund Communities													
Future Funding	300,000				100,000	100,000	200,000						
Bond Proceeds	23,023,085	23,023,085		23,023,085		23,023,085							
SRF Drawdowns Available	72,033,800	44,173,800	21,890,000	66,063,800	5,970,000	72,033,800							
Other													
Total Resources	97,804,505	68,477,848	23,056,657	91,534,505	15,049,815	97,604,505	1,272,710						
ENDING BALANCE	0	5,997,405	2,982,410	8,979,815	1,072,710	1,072,710	0	0	0	0	0	0	0

Description: Core/expansion project.

Two thirds of the facilities support core communities and one third supports expansion communities. This project will divert flows from the Southwest Outfall Interceptor Sewer during wet weather and store in an equalization facility. Peak wet weather flows will be stored and then treated during low flow periods. Equalization will reduce the impact of wet weather events at the WRF. This project will also provide a connection for the City of Norwalk. Phase 21, segments 1 and 2, North River Interceptor will convey wastewater from the Norwalk wastewater treatment plant to the Southern Tier pump station. Phase 22, segments 1 through 6, will pump, convey, and store wastewater from the westside of the WRA service area.

Justification:

This project is necessary to provide flow equalization for the central and western WRA conveyance system.

Scheduling:

The time sensitive reach was designed in F08 and constructed in F08/F09. The North River Interceptor (Phase 21) was constructed in F08, and F09. The diversion sewer will be constructed in F10, F11, and F12. The pump station, force main, flow equalization and interceptors will be constructed in F11 through F14.

Phase 22, Segment 1 - F10, P22seg. 2 - F08/09, P22seg. 3 - F11

Phase 22, Segment 4 - F12, P22seg. 5 - F13, P22seg. 6 - F11/12

Relationship to General Plan and Other Projects:

This project was included in the 2004 WRA Facility Plan Update. Two thirds of these facilities support core communities and one third supports expansion communities.

Operating Budget Effect:

This project will increase revenues and operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY			PROJECT TITLE					ACCOUNT					
Wastewater Reclamation Authority Improvements			West Des Moines Outfall Phase13					AG267 WRA990000 WRA082					
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2015
							F15	F16	F17	F18	F19	F20	
Expenses	16,488,984	16,339,686	93,775	16,433,461	55,523	16,488,984							last time in cip
Beginning Balance					55,523								
Interest Earnings	216,905	67,607	149,298	216,905		216,905							
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds	1,368,394	1,368,394		1,368,394		1,368,394							
SRF Drawdowns	14,903,685	14,903,685		14,903,685		14,903,685							
Other													
Total Resources	16,488,984	16,339,686	149,298	16,488,984	55,523	16,488,984							
ENDING BALANCE	0	0	55,523	55,523	0	0	0	0	0	0	0	0	0

Description: Expansion Project. This project increases the capacity of the West Des Moines Outfall and provides service to new areas including the city of Waukee. The project will provide a connection to the Southwest Area Diversion Facility at it's east terminus and a connection to the West Des Moines Outfall Extension on it's west terminus.

Justification:

As service is provided to new customers the capacity of the sewer must be increased. This project will serve West Des Moines and Waukee and is necessary to increase conveyance capacity.

Scheduling:

F04:Construction from s 1st Street to S4th Street;F07:Design of entire project from Southwest Area Diversion Facility to South 60th Street;F08:Construction from S33rd street to S60th Street;F10:Construction from Southwest Area Diversion Facility to South 16th Street; Moved from F16 to F12 to take advantage of favorable bidding climate and avoid conflict with work planned at Raccoon River Park: Construction from South 16th Street to South 33rd Street.

Relationship to General Plan and Other Projects:

This project was included in the 2004 WRA Facility Plan Update. Bonding was scheduled for 2007,2010,2015.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase as flows increase.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE									ACCOUNT
Wastewater Reclamation Authority Improvements				WRA Sewer Maintenance (Inspections & Repairs)									AG267 WRA990000 WRA083
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F19
							F15	F16	F17	F18	F19	F20	
Expenses	2,000,000	55,271	129	55,400	944,600	1,000,000	250,000	150,000	150,000	150,000	150,000	150,000	
Beginning Balance					200								
Interest Earnings	800,000				800,000	800,000							
Repair and Replacement Fund Communities Future Funding Bond Proceeds SRF Drawdowns													
Funding from O&M budget	1,200,000	55,500	100	55,600	144,400	200,000	250,000	150,000	150,000	150,000	150,000	150,000	
Total Resources	2,000,000	55,500	100	55,600	944,600	1,000,000	250,000	150,000	150,000	150,000	150,000	150,000	
ENDING BALANCE	0	229	(29)	200	0	0	0	0	0	0	0	0	0

Description:
 This project provides funding for annual engineering investigation for portions of the WRA interceptor sewer system and for specific maintenance/repairs of those sewers. Maintenance and repairs will include: Sewer televising, sewer cleaning, sewer lining, manhole rehabilitation and rebuilding, sewer spot repairs, sinkhole repairs, replacement of manhole lids and castings, etc.

In F14 a River Bank Stabilization project is needed to place rip-rap along the north bank of the Raccoon River to protect the WRA Southwest Outfall Sewer from eroding the supporting material around the pipeline.

Justification:
 Portions of the WRA Conveyance system are over fifty years old and there is a need to investigate, evaluate and determine maintenance on the overall interceptor sewer system. This project sets aside funding for planned and unanticipated sewer repairs in the conveyance system.

Scheduling:
 F14, Investigate the Westside/Beaver Creek interceptor sewer. F15, Investigate the western portion of the So Tier interceptor sewer.

Relationship to General Plan and Other Projects:
 This project is funded with Operating Money.

Operating Budget Effect:
 These investigations will identify repairs that will increase operating costs in future budgets on a proactive basis rather than reactive spending.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY			PROJECT TITLE					ACCOUNT					
Wastewater Reclamation Authority Improvements			WRA Four Mile Interceptor Extension Phase 24					AG267 WRA990000 WRA085					
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND 2,020	
							F15	F16	F17	F18	F19		F20
Expenses	20,801,073	18,802,547	1,129,491	19,932,038	869,035	20,801,073							
Beginning Balance					845,203								
Interest Earnings	469,296	445,464		445,464	23,832	469,296							
Repair and Replacement Fund Communities Future Funding													
Bond Proceeds	10,467,988	10,247,988	220,000	10,467,988		10,467,988							
SRF Drawdowns	9,835,860	8,415,000	1,420,860	9,835,860		9,835,860							
Other / POLK CO. & Core97	27,929	27,929		27,929		27,929							
Total Resources	20,801,073	19,136,381	1,640,860	20,777,241	869,035	20,801,073							
ENDING BALANCE	0	333,834	511,369	845,203	0	0	0	0	0	0	0	0	0

Description: Expansion Project.

Segment 1: Construction of an interceptor sewer from Broadway to NE 29th Street south of Oralabor Road.

Segment 2: Construction of an interceptor sewer from NE 29th Street south of Oralabor Road to Southeast Ankeny wastewater pollution control plant.

Justification:

This project is necessary to provide service to the City of Ankeny.

Scheduling:

Segment 1&2: Design-F04/05, Construction-F05/06. Segment 3&4: Design-F09/10, Construction-F10/14.

Relationship to General Plan and Other Projects:

The Four Mile Interceptor Extension will provide a full size downstream connection for Ankeny. This project was included in the 2004 WRA Facility Plan Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Des Moines River Outfall / New Main Outfall Phase 17										AG267 WRA990000 WRA086	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	63,899,635	25,769,035	23,877,338	49,646,373	14,253,262	63,899,635							
Beginning Balance			814,600		5,717,352								
Interest Earnings	375,156	337,356			37,800	375,156							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	11,703,279	11,703,279		11,703,279		11,703,279							
SRF Drawdowns	51,457,860	1,461,720	41,730,880	43,192,600	8,265,260	51,457,860							
Other / Utility credits, CDM	363,340	130,490		130,490	232,850	363,340							
Total Resources	63,899,635	13,632,845	42,545,480	55,363,725	14,253,262	63,899,635							
ENDING BALANCE	0	(12,136,190)	18,668,142	5,717,352	0	0	0	0	0	0	0	0	0

Description: Core Project.

This project provides for construction of a large outfall sewer along the west side of the Des Moines River from 3rd Street and Watson Powell Drive to south of Elm Street and along the east side of the Des Moines River from Raccoon Street to the south side of Scott Avenue. This will help to meet the nine minimum requirements in the current NPDES permit.

The Main Outfall project will begin at the newly constructed DM River Outfall sewer siphon structure and proceed east/southeasterly across the DM River and will continue in a southeasterly direction. It will replace the existing Main Outfall terminating upstream of the WRF at a proposed CSSS Facility (see WRA087).

Justification:

This project is included in the long term control plan presented to the IDNR.

Scheduling:

Stage 1: Design-F04, Construction F04/05. Stage 2: Design-F05, Construction-F06/09.

Main Outfall Design: F08/09, Construction of six segments F10 through F14.

Relationship to General Plan and Other Projects:

This project was included in the 2004 WRA Facility Plan Update. Bonding for the new main outfall are scheduled for 2008, 2011, 2012, 2013.

Operating Budget Effect:

This project will increase operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Combined Sewer Solids Separation Facility Phase 17										AG267 WRA990000 WRA087	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	51,776,995	30,426,995	15,892,108	46,319,103	5,457,892	51,776,995							
Beginning Balance					1,607,892								
Interest Earnings	54,995	54,995		54,995		54,995							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	800,000	550,000		550,000	250,000	800,000							
SRF Drawdowns	50,922,000	3,600,000	43,722,000	47,322,000	3,600,000	50,922,000							
Other													
Total Resources	51,776,995	4,204,995	43,722,000	47,926,995	5,457,892	51,776,995							
ENDING BALANCE	0	(26,222,000)	27,829,892	1,607,892	0	0	0	0	0	0	0	0	0

Description: Core Project.

This project provides for solids separation of wet weather combined sewer flow at the Wastewater Reclamation Facility. Flow will be discharged to the Des Moines River after primary treatment and disinfection.

Justification:

This project is included in the long term control plan presented to the IDNR and will be required to meet the nine minimum requirements in the long term control plan.

Scheduling:

Design-F08 through F10, Construction F10 through F14.

Relationship to General Plan and Other Projects:

This project was included in the 2004 WRA Facility Plan Update. Bonding was scheduled for 2011.

Operating Budget Effect:

This project will increase operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Ingersoll Run Combined Sewer Overflow Phase 25								AG267 WRA99000 WRA088	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	2,597,954	2,567,711		2,567,711	15,243	2,582,954	15,000						
Beginning Balance					30,243		15,000						
Interest Earnings	201,401	201,401		201,401		201,401							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	2,396,553	2,396,553		2,396,553		2,396,553							
SRF Drawdowns													
Other													
Total Resources	2,597,954	2,597,954		2,597,954	30,243	2,597,954	15,000						
ENDING BALANCE	0	30,243	0	30,243	15,000	15,000	0	0	0	0	0	0	0

Description: Core Project.
 This project provides for the relocation of a combined sewer overflow in the 2100 block of High Street in the Ingersoll Run Combined Sewer System. This will provide adequate sewer capacity in this reach of the combined sewer system to eventually eliminate the combined sewer overflow in the area of Eighth Street and Keo Way to help meet the minimum requirements included in the current NPDES permit.

Justification:
 Needed to conform to NPDES requirements.

Scheduling:
 Design-F06/F07, Construction-F07/F08, project being held open through F11.

Relationship to General Plan and Other Projects:
 These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation Authority.

Operating Budget Effect:
 None.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY		PROJECT TITLE											ACCOUNT
Wastewater Reclamation Authority Improvements					WRF Small Capital Projects 2006-2009 & WRA Studies [commty funded]							AG267 WRA990000 WRA091	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	2,412,153	1,892,153	225,737	2,117,890	84,263	2,202,153	50,000	40,000	30,000	30,000	30,000	30,000	
Beginning Balance					2,847								
Interest Earnings													
Repair and Replacement Fund Communities	2,850,000	2,850,000		2,850,000		2,850,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr) WR098/WR106	(437,847)	(930,000)	200,737	(729,263)	81,416	(647,847)	50,000	40,000	30,000	30,000	30,000	30,000	
Total Resources	2,412,153	1,920,000	200,737	2,120,737	84,263	2,202,153	50,000	40,000	30,000	30,000	30,000	30,000	
ENDING BALANCE	0	27,847	(25,000)	2,847	0	0	0	0	0	0	0	0	0

Description:

This project funds process and safety improvement studies at the WRF and WRA conveyance system.

Justification:

These studies are necessary to reduce operations and maintenance costs and facilitate a safer working environment at the WRF.

Scheduling:

F11: Bar Screen repairs moved to WRA098; Biosolids thermal drying evaluation; Unanticipated needs.

F11-12: WRA Operating Plan development; WRF Flood Inundation study.

F13-19: Studies, as needed, including Phosphorus process recovery study.

Relationship to General Plan and Other Projects:

Funds collected prior to F10 where transferred to WRA098 for Bar Screen Replacement.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				West Des Moines Outfall Extension Phase 18				AG267					
								WRA990000					
								WRA092					
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	9,840,035	6,881,157	2,958,878	9,840,035		9,840,035							last time in cip
Beginning Balance													
Interest Earnings	208,582	250,000	(41,418)	208,582		208,582							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	7,325,953	4,325,953	3,000,000	7,325,953		7,325,953							
SRF Drawdowns	2,305,500	2,305,500		2,305,500		2,305,500							
Other													
Total Resources	9,840,035	6,881,453	2,958,582	9,840,035		9,840,035							
ENDING BALANCE	0	296	(296)	0	0	0	0	0	0	0	0	0	0

Description: Expansion Project.
 This project will increase the service area and capacity of the West Des Moines Outfall.
 Segment 1-South 60th Street to South 74th Street. Segment 2- South 74th Street to Sugar Creek.
 Segment 3 -Sugar Creek to Boonevill Road. Segment 4 -Booneville Road to Mills Civic Parkway.
 Segment 5 -Mills Civic Parkway to I-80

This project was done as Expedited project.

Justification:
 This project will provide service to the cities of West Des Moines and Waukee.

Scheduling:
 Segment 1: Design-F05, Construction-F06/F07. Segment 2,3,4: Design-F07. Segment 2: Construction-F07. Segment 3: Construction-F07. Segment 4: Construction F07/F08.
 Segment 5: Design-F07.F08, Construction F08/F09.

Relationship to General Plan and Other Projects:
 This project was included in the 2004 WRA Facility Plan Update.

Operating Budget Effect:
 Revenues and operations and maintenance costs will increase as flows increase.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Flow Monitoring System Improvements								AG267 WRA990000 WRA093	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	6,743,433	6,383,878	22,321	6,406,199	337,234	6,743,433							
Beginning Balance					337,234								
Interest Earnings	168,969	168,969		168,969		168,969							
Repair and Replacement Fund Communities Future Funding													
Bond Proceeds (reallocated)	6,574,464	6,574,464		6,574,464		6,574,464							
SRF Drawdowns Other													
Total Resources	6,743,433	6,743,433		6,743,433	337,234	6,743,433							
ENDING BALANCE	0	359,555	(22,321)	337,234	0	0	0	0	0	0	0	0	0

Description: Core Project. This project will upgrade the existing system and implement new meters for flow metering and real time operational control. Flow meters will be used for flow allocation to communities and for operating the collection system during wet weather events. Flow meters will be installed to meter the majority of Des Moines flow into the conveyance system.

Justification:
Existing flow monitors will be in operation for fifteen years when replaced. New meters will be required as existing meters are not supported by the manufacturer.

Scheduling:
Design in F08/09, Replacement to begin in F09 and continue through F11. Installation continues through F13 as interceptor sewers are completed.

Relationship to General Plan and Other Projects:
This project was included in the 2004 WRA Facility Plan Update. Real time flow information will be required to operate the Southwest Outfall Diversion Facilities

Operating Budget Effect:
None.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY					PROJECT TITLE						ACCOUNT		
Wastewater Reclamation Authority Improvements					WRA Transition Costs						AG267 WRA99000 WRA096		
	TOTAL	COST	ACTUAL	COST	Revised	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
	ESTIMATED	THROUGH	COST IN	THROUGH	BUDGET	COST THROUGH	F15	F16	F17	F18	F19	F20	BEYOND
	COST	F12	F13	F13	F14	F14							2,020
Expenses	310,000	272,114	240	272,354	37,646	310,000							
Beginning Balance					37,646								
Interest Earnings	10,000	10,000		10,000		10,000							
Repair and Replacement Fund													
Communities	430,000	430,000		430,000		430,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / WRA091	(130,000)	(80,000)	(50,000)	(130,000)		(130,000)							
Total Resources	310,000	360,000	(50,000)	310,000	37,646	310,000							
ENDING BALANCE	0	87,886	(50,240)	37,646	0	0	0	0	0	0	0	0	0

Description:

Costs associated with property transfer to the Wastewater Reclamation Authority. These include all costs associated with transferring deeds, easements to the WRA and creating easements necessitated by the legal status change on July 1, 2004.

Justification:

The legal status of the WRA changed on July 1, 2004. The new status allows the WRA to own property. All past property interests held through the City of Des Moines and other communities must be transferred to the WRA.

Scheduling:

F05: Transfer of easements and WRF property. F06/F07/F08: Grant easement in public rights of way.

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE						ACCOUNT			
Wastewater Reclamation Authority Improvements				Four Mile Interceptor Improvements Phase 23						AG267 WRA990000 WRA097			
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	26,544,932	26,426,845	118,087	26,544,932		26,544,932							last time in cip
Beginning Balance													
Interest Earnings	34,256	34,256		34,256		34,256							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	1,326,283	1,326,283		1,326,283		1,326,283							
SRF Drawdowns	23,463,000	23,463,000		23,463,000		23,463,000							
Other / CORE buy in collected	1,721,393	1,642,582	78,811	1,721,393		1,721,393							
Total Resources	26,544,932	26,466,121	78,811	26,544,932		26,544,932							
ENDING BALANCE	0	39,276	(39,276)	0	0	0	0	0	0	0	0	0	0

Description: Expansion Project.

Construction of a 72" sanitary sewer from the WRF to NE Broadway Avenue.

Segment 1: WRF to Scott Avenue. Segment 2: Scott Ave. to University Ave.

Segment 3: University Avenue to Easton Blvd. Segment 4: Easton Boulevard to Hubbell Ave.

Segment 5: Hubbell Avenue to NE Broadway Avenue.

Justification:

This project will convey flow from Ankeny and Altoona to the WRF.

Scheduling:

Segment 1: Design-F08, Construction-F09/F10. Segment 2&3: Design-F08/F09, Construction-F10. Segment 4&5: Design-F09, Construction F10/F11.

Relationship to General Plan and Other Projects:

This project was included in the 2004 WRA Facility Plan Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				WRF Small Projects, & Process Equipment Repl for 2010, 2011, 2012				AG267 WRA990000 WRA98					
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND 2,020	
							F15	F16	F17	F18	F19		F20
Expenses	6,631,624	3,035,717	1,416,380	4,452,097	2,179,527	6,631,624							
Beginning Balance					2,179,527								
Interest Earnings	5,000	5,000		5,000		5,000							
Repair and Replacement Fund Communities	7,357,360	7,357,360		7,357,360		7,357,360							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(730,736)	(158,204)	(572,532)	(730,736)		(730,736)							
Total Resources	6,631,624	7,204,156	(572,532)	6,631,624	2,179,527	6,631,624							
ENDING BALANCE	0	4,168,439	(1,988,912)	2,179,527	0	0	0	0	0	0	0	0	0

Description:

Renewal and replacement of existing process equipment. Small plant projects and studies.

Justification:

Process equipment installed between 1987 and 1993 is nearing the end of its useful life and will require replacement. Other major replacements are budgeted individually.

Scheduling:

F10: Primary and final clarifier repairs, Server power replacement, PCS upgrade, B70 second floor lighting, CMMS modifications, W3 Pump station Imprv, Unanticipated needs.

F11: Primary and final clarifier repairs, Server virtualization, IP camera deployment, Sump Pump repl, Main Pump motor rebuild, Unanticipated needs.

F12: Final Gate repair, Bar Screen #1 and #3 repl. Unanticipated needs.

F13/F14: CNG/CBG Fueling Station, VFD repl, W3 Improvements. Unanticipated needs.

Relationship to General Plan and Other Projects:

This project will be funded with interest earnings from R&R reserve fund and community contributions. Transfers out will provide funding to other R&R projects.

Operating Budget Effect:

This project will maintain the current level of service and reduce operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Corridor Preservation							AG267 WRA990000 WRA100	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND 2,020
							F15	F16	F17	F18	F19	F20	
Expenses	400,000	284,332	33,300	317,632	57,368	375,000	25,000						
Beginning Balance					79,643		25,000						
Interest Earnings	2,725				2,725	2,725							
Repair and Replacement Fund Communities	22,275	22,275		22,275		22,275							
Future Funding													
Bond Proceeds	375,000	375,000		375,000		375,000							
SRF Drawdowns													
Other / Small CIP													
Total Resources	400,000	397,275		397,275	82,368	400,000	25,000						
ENDING BALANCE	0	112,943	(33,300)	79,643	25,000	25,000	0	0	0	0	0	0	0

Description: Expansion project.

Funds collected for Small CIP will be temporarily used to purchase easements and/or land needed to preserve right-of-way for future sewer projects that are scheduled in the facility plan in a future bond issue with construction after F09.

Justification:

Land acquisition in advance of projects will be required to reduce future costs and provide corridor preservation.

Scheduling:

Relationship to General Plan and Other Projects:

Reimbursement from bonded project will be needed for any advance use of funds under this project number.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Birdland Pump Station								AG267 WRA9900 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F15	F16	F17	F18	F19	F20	FY2023
Expenses	8,192,700												8,192,700
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	8,192,700												8,192,700
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	8,192,700												8,192,700
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Core Project.

This project will eliminate the overflow at the birdland pump station. A feasibility study will need to be done in F18/F19.

Justification:

Scheduling:

Relationship to General Plan and Other Projects:

These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRA Common Trunk								AG267 WRA9900 WRAXXX
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F15	F16	F17	F18	F19	F20	FY2026
Expenses	9,262,840												9,262,840
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	9,262,840												9,262,840
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	9,262,840												9,262,840
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Expansion Project.

This project will increase the capacity of the WRA common trunk.

Justification:

Scheduling:

Relationship to General Plan and Other Projects:

These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation Authority.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Clive / USSD Joint Trunk								AG267 WRA9900 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2027
							F15	F16	F17	F18	F19	F20	
Expenses	15,566,131												15,566,131
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	15,566,131												15,566,131
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	15,566,131												15,566,131
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Expansion Project.
 This project will increase the capacity of the Clive/USSD joint trunk.

Justification:

Scheduling:

Relationship to General Plan and Other Projects:
 These improvements are included in the approved WRA Facility Plan Update-2012 and Second Amended and Restated Agreement for the DM Metro Wastewater Reclamation Authority.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets F15 Updated

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Nutrient Removal								AG267 WRA99000 WR112	
	TOTAL ESTIMATED COST	COST THROUGH F12	ACTUAL COST IN F13	COST THROUGH F13	Revised BUDGET F14	ESTIMATED COST THROUGH F14	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F15	F16	F17	F18	F19	F20	FY2032
Expenses	33,338,242												33,338,242
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	33,338,242												33,338,242
Bond Proceeds													
SRF Drawdowns / P&D loan													
Other													
Total Resources	33,338,242												33,338,242
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Core Project.

This project will involve removal of nutrients from the effluent as required by federal and state regulations.

Justification:

This project will be required to comply with federal regulations that limit the levels of nutrients(ammonia and phosphorous) in publicly owned treatment works effluent.

Scheduling:

As required by federal and state regulations.

Relationship to General Plan and Other Projects:

This project was included in the WRA Facility Plan Update with a push back date of 2022 (\$33,338,242). New Facility Update shows cost in 2032 of \$105,550,000

Operating Budget Effect:

Operating and maintenance costs will increase with implementation of the facilities.