

Summary

Wastewater Reclamation Authority Improvements FY2015+

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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	512,983,242	312,412,613	67,315,616	379,728,229	39,521,670	16,091,670	7,160,000	3,965,000	4,390,000	3,745,000	4,170,000	93,733,343
Resources:												
Beginning Balance	0	0	33,397,344	0		6,850,670	2,105,000	0	0	(325,000)	0	0
Interest Earnings	5,555,868	4,589,461	876,407	5,465,868	90,000	10,000	10,000	15,000	15,000	20,000	20,000	0
Renewal & Replacement Fund	1,350,300	1,350,300	0	1,350,300	0	0	0	0	0	0	0	0
Communities	42,153,393	15,653,393	3,500,000	19,153,393	23,000,000	3,600,000	3,800,000	3,800,000	3,900,000	3,900,000	4,000,000	0
Future Funding	75,478,343	0	450,000	450,000	1,295,000	200,000	1,095,000	0	0	0	0	73,733,343
Bond Proceeds	74,033,419	73,417,394	616,025	74,033,419	0	0	0	0	0	0	0	0
SRF Drawdowns	282,976,205	246,945,945	34,949,260	281,895,205	1,081,000	1,081,000	0	0	0	0	0	0
Other	31,435,714	3,853,464	377,250	4,230,714	7,205,000	6,455,000	150,000	150,000	150,000	150,000	150,000	20,000,000
Total Resources	512,983,242	345,809,957	74,166,286	386,578,899	32,671,000	18,196,670	7,160,000	3,965,000	4,065,000	3,745,000	4,170,000	93,733,343

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

WRA 2015

<u>Expenditures from CIP sheets</u>		2014	2015	2016	2017	2018	2019	2020	subtotal Spending
<u>WRA Projects - Expansion Category</u>									
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	8,659,107.0	472,160.0						9,131,267.0
100	Corridor Preservation	57,368.0	\$ 25,000.0						82,368.0
103 b	Southern Tier Improvements								-
	Expansion Funding Ttl	\$ 9,641,033.0	\$ 497,160.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,138,193.0
<u>WRA Projects - SW Area Div. Category</u>									
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	\$ 2,581,000.0	\$ 500,000.0					3,270,000.0
103 a	Southern Tier for SW ADF	9,878,701.0	\$ 2,840,800.0						12,719,501.0
	SW Area Funding Ttl	\$ 24,044,806.0	\$ 6,694,510.0	\$ 500,000.0	\$ -	\$ -	\$ -	\$ -	\$ 31,239,316.0
<u>WRA Projects - Core Category</u>									
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
93 Ph 25	Flow Monitoring Seg 3	337,234.0							337,234.0
102	Flood Mitigation at WRF (grant funded)		4,300,000.0	3,000,000.0					7,300,000.0
104 I Jobs	Equalization Basin Improvements	89,547.0	300,000.0						389,547.0
80 P4	Westside Basin Interctr CLOSED								-
		\$ 24,371,227.0	\$ 4,615,000.0	\$ 3,000,000.0	\$ -	\$ -	\$ -	\$ -	\$ 31,986,227.0
		2014	2015	2016	2017	2018	2019	2020	
<u>WRA Plant Projects - Annual Community Contributions</u>									
69	Facility Plan update	\$ 200,000.0	\$ 150,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	\$ 125,000.0	975,000.0
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
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. Repl.	7,117,881.0	\$ 3,535,000.0	\$ 3,095,000.0	\$ 3,135,000.0	\$ 3,235,000.0	\$ 3,240,000.0	\$ 3,665,000.0	27,022,881.0
		\$ 9,259,293.0	\$ 4,285,000.0	\$ 3,660,000.0	\$ 3,965,000.0	\$ 4,390,000.0	\$ 3,745,000.0	\$ 4,170,000.0	\$ 33,474,293.0
	Revised Estimate for F14	\$ 67,316,359.0							
	2015	\$ 16,091,670.0							
	2016		\$ 7,160,000.0						
	2017			\$ 3,965,000.0					
	2018				\$ 4,390,000.0				
	2019					\$ 3,745,000.0			
	2020						\$ 4,170,000.0		
	Summary of Costs, Six-Year-Period								\$ 39,521,670.0

WASTEWATER RECLAMATION AUTHORITY
 COMPARISON OF LAST YEAR AND CURRENT YEAR CIP SHEETS
 FY2015-2020 6 Yr Plan

Capital Improvement Projects by Type of Funding

			[last year]	[this year]		
			Budget Amount for each project	Budget Amount for each project	Budget Amount for each project	Chg of Estimate
<u>Core Projects</u>		Phase	2014 BOOK		2015 FILE	
wra 086	DM River Outfall / New Main Outfall	P 17	63,133,875	63,133,875	63,899,635	765,760
wra 087	Combined Sewer Solids Separation Design	P 17	51,776,995	51,776,995	51,776,995	-
			114,910,870	114,910,870	115,676,630	
wra 088	Ingersoll Run Sewer		2,597,954	2,597,954	2,597,954	-
wra 080	Westside Basin Interceptor	*	6,295,984	0		-
wra 093	Flow Monitoring System		6,743,433	6,743,433	6,743,433	-
wra 077	Power Generation System		4,700,052	4,700,052	4,700,052	-
wra 074	Digester Gas System		24,315,000	24,315,000	24,213,000	(102,000)
wra 104	Equalization Basin Improvements (I-Jobs)		2,212,750	2,212,750	2,210,516	(2,234)
Subtotal Core Projects			161,776,043	155,480,059	156,141,585	661,526
<u>Expansion Projects</u>						
wra 085	Ankeny Four Mile Interceptor Ext.	P 24	21,190,917	21,190,917	20,801,073	(389,844)
wra 097	FourMi Interceptor Improv.	*	26,676,864	26,676,864	26,544,932	(131,932)
wra 099	Mud Creek Interceptor	P 19	21,502,436	21,502,436	20,602,336	(900,100)
wra 100	Corridor Preservation		400,000	400,000	400,000	-
wra 082	WDM Outfall	*	16,488,984	16,488,984	16,488,984	-
wra 092	WDM Outfall Ext.	*	9,826,629	9,826,629	9,840,035	13,406
Subtotal Expansion Projects			96,085,830	96,085,830	94,677,360	(1,408,470)
wra 081	South West Area Diversion Facilities	P 22	98,144,885	98,144,885	97,804,505	(340,380)
wra 103a	Southern Tier Improvements for SW Area Div	P 10	16,448,290	16,448,290	17,215,230	766,940
South West Area Diversion Facilities			114,593,175	114,593,175	115,019,735	426,560
<u>Future Projects (Core, Expansion, Other)</u>						
core	Nutrient Removal		33,338,242	33,338,242	33,338,242	-
core	Birdland Pump Stn		8,192,700	8,192,700	8,192,700	-
Special	Additional Equalization (Basin) Northwest		20,000,000	20,000,000	20,000,000	-
core	WRF Flood Mitigation (I-Jobs)		7,300,000	7,300,000	7,300,000	-
expan	Common Trunk & Joint Trunk		24,828,971	24,828,971	24,828,971	-
wra 101a	Sponsored Project (Polk) part A			0	2,189,000	2,189,000
wra 101b	Sponsored Project (Polk) part B			0	1,081,000	1,081,000
wra 103b	Southern Tier Improvements Western (expansion)		7,373,430	7,373,430	7,373,430	-
Subtotal Future Projects			101,033,343	101,033,343	104,303,343	3,270,000
Total Project Costs (Bonded and Basins)			473,488,391	467,192,407	470,142,023	2,949,616
				0		
<u>Non-Bonded / Plant & System Projects</u>						
wra 069	Facilities Plan Update		1,702,156	1,702,156	1,930,465	228,309
wra 096	Transition / RE Transfer Costs (see note below)		310,000	310,000	310,000	-
wra 078	Facilities Rehabilitation, including RE purchases		3,261,788	3,261,788	3,411,788	150,000
wra 083	Sewer Maintenance contract work		1,200,000	1,200,000	2,000,000	800,000
wra 079	WRF Energy Efficiency projects (I-Jobs)	*	1,321,408	1,321,408	1,296,605	(24,803)
wra 091	Small CIP prior projects & Studies		2,402,153	2,402,153	2,412,153	10,000
wra 098	Small CIP projects & ProcEqRepl. 2010-2012		6,530,857	6,530,857	6,631,624	100,767
wra 106a	Small CIP projects & ProcEqRepl. 2013-2016		8,125,000	8,125,000	11,573,584	3,448,584
wra 106b	Small CIP, WRF projects future funding (3 to 4 years)		13,075,000	13,075,000	13,275,000	200,000
Total Non-Bonded Project Costs			37,928,362	37,928,362	42,841,219	4,912,857
WRA Total Expenses for Projects			511,416,753	505,120,769	512,983,242	7,862,473

RE = Real Estate (after 2004 WRA listed as title holder)

* PROJECT CLOSED

512,983,242 SUMMARY TOTAL

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Facility Plan Update [commty funded from WRA098]								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	1,930,465	677,156	278,309	955,465	200,000	1,155,465	150,000	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	1,451,446	198,146	278,300	476,446	200,000	676,446	150,000	125,000	125,000	125,000	125,000	125,000	
Total Resources	1,930,465	677,156	278,300	955,456	200,000	1,155,465	150,000	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 for Technical Committee - Jan. 14, 2014

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:

Included in 28E bonding schedule. F09 P&D Loan for Design (\$3205,000 with \$1,994,250 drawn). F10 SRF loan (series 2010C \$2+21.5 million closed on 6/30/10).

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 for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				WRF Power Generation System [funded from WRA098]				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						
							F15	F16	F17	F18	F19	F20	F17
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 for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Facilities Rehabilitation [funded from WRA098]								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 for Technical Committee - Jan. 14, 2014

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 for Technical Committee - Jan. 14, 2014

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 Amer	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 for Technical Committee - Jan. 14, 2014

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	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 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 is included in the 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.

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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 is included in the 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.

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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.

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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 is included in the WRA Facility Plan Update.

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

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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		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 replact 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 is included in the WRA Facility Plan Update.

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

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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 is included in the WRA Facility Plan Update.

Operating Budget Effect:

This project will increase operations and maintenance costs.

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PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Ingersoll Run Combined Sewer Overflow Phase 25								AG267 WRA990000 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:
 This project is included in the WRA Facility Plan Update.

Operating Budget Effect:
 None.

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PROJECT CATEGORY		PROJECT TITLE											ACCOUNT
Wastewater Reclamation Authority Improvements					WRF Small Capital Projects 2006-2009 & WRA Studies [funded from WRA098]							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:

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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 is included in the WRA Facility Plan Update.

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

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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.

This project is included in the WRA Facility Plan Update. Real time flow information will be required to operate the Southwest Outfall Diversion Facilities

Relationship to General Plan and Other Projects:

Operating Budget Effect:
None.

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PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA Transition Costs							AG267 WRA99000 WRA096		
	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	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: Core Project.

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:

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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 is included in the WRA Facility Plan Update and must be completed prior to completion of the Four Mile Interceptor Extension (Phase 24).

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

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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 for Technical Committee - Jan. 14, 2014

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	20,602,336	3,327,150	8,143,919	11,471,069	8,659,107	20,130,176	472,160						
Beginning Balance					2,597,431		472,160						
Interest Earnings	311				311	311							
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds	896,025	30,000	800,000	830,000	66,025	896,025							
SRF Drawdowns	18,706,000		12,238,500	12,238,500	6,467,500	18,706,000							
Other, Altoona	1,000,000	1,000,000	1,000,000	1,000,000		1,000,000							
Total Resources	20,602,336	1,030,000	13,038,500	14,068,500	9,131,267	20,602,336	472,160						
ENDING BALANCE	0	(2,297,150)	4,894,581	2,597,431	472,160	472,160	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 will provide 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-F12/14.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. Construction begins spring 2012.

Operating Budget Effect:

Revenues and expenses will increase as flows increase.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets for Technical Committee - Jan. 14, 2014

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:

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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 for an amendment to increase Principal, reduce rate & lower Interest payments.

Part 1 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 for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY					PROJECT TITLE						ACCOUNT		
Wastewater Reclamation Authority Improvements					WRA / Polk County Sponsored Project / Four Mile Acquisition - Part B						AG267 WRA990000 WRA 101b		
	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	1,081,000						581,000	500,000					
Beginning Balance								500,000					
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns	1,081,000						1,081,000						
Other													
Total Resources	1,081,000						1,081,000	500,000					
ENDING BALANCE	0	0	0	0	0	0	500,000	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 for an amendment to increase Principal, reduce rate & 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 for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY					PROJECT TITLE							ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Southern Tier Improvements for SW Area Diversion							AG267 WRA990000 WRA103 a	
	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	17,215,230	320,717	4,175,012	4,495,729	9,878,701	14,374,430	2,840,800						
Beginning Balance					3,960,271		2,840,800						
Interest Earnings	1,730				1,730								
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds realloc 81	4,400,000	2,600,000	1,500,000	4,100,000	300,000	4,400,000							
SRF Drawdowns	12,813,500	4,356,000		4,356,000	8,457,500	12,813,500							
Other													
Total Resources	17,215,230	6,956,000	1,500,000	8,456,000	12,719,501	17,215,230	2,840,800						
ENDING BALANCE	0	6,635,283	(2,675,012)	3,960,271	2,840,800	2,840,800	0	0	0	0	0	0	0

Description: Part of SWADF Project.

This project will increase the capacity of the Southern Tier Interceptor. F12 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 and parrallel force main 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:

This project is included in the WRA Facility Plan Update as an Expansion project but is now categorized as part of the SW Area Diversion Facility (SWADF).

Operating Budget Effect:

This project will increase operations and maintenance costs.

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY					PROJECT TITLE							ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Southern Tier Improvements - Western (Expansion Debt)							AG267 WRA990000 WRA103 b	
	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 FY2020
							F15	F16	F17	F18	F19	F20	
Expenses	7,373,430												7,373,430
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	7,373,430												7,373,430
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	7,373,430												7,373,430
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Expansion Project.
 This project will increase capacity in the western portion of the Southern Tier Interceptor.

Justification:
 To accommodate the flow in the western service area of the Southern Tier Interceptor.

Scheduling:
 This project is scheduled to begin past FY18. The scope and schedule of the project will be better determined in the new Facility Plan update.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update and Ex31 March 2018 & March 2020.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets for Technical Committee - Jan. 14, 2014

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 for Technical Committee - Jan. 14, 2014

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	11,573,584		5,973	5,973	4,937,611	4,943,584	3,535,000	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 and Replacement Fund Communities	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)	(2,661,416)		(620,000)	(620,000)	(826,416)	(1,446,416)	(800,000)	(415,000)					
Total Resources	11,573,584		2,685,000	2,685,000	5,362,611	5,368,584	3,235,000	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 for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRF Studies, Small Projects, & Process Equipment Replacement								AG267 WRA990000 WRA106 b
	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 and Replacement Fund Communities	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.

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PROJECT CATEGORY				PROJECT TITLE						ACCOUNT			
Wastewater Reclamation Authority Improvements				WRF Nutrient Removal P 1						AG267 WRA990000 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 FY2022
							F15	F16	F17	F18	F19	F20	
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													
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. This project is scheduled for F20.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. 28E bond schedule was March 2012 but this Project has been pushed back to 2020.

Operating Budget Effect:

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

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PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Birdland Pump Station								AG267 WRA990000 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 FY2021
							F15	F16	F17	F18	F19	F20	
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:

This project is scheduled for F21.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update and Ex31 March 2020.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Additional Equalization Basin in the North West								AG267 WRA990000 WRA1xx	
	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	20,000,000												20,000,000
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding (place holder)													
Bond Proceeds													
SRF Drawdowns													
Other / future 28E agreement	20,000,000												20,000,000
Total Resources	20,000,000												20,000,000
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

An additional equalization basin will be constructed in the Saylor Creek system to handle additional flows from growth in Polk County and Ankeny and also flow from Polk City when connected to the Saylor Creek Interceptor.
 A 28E agreement is anticipated to provide up to \$20 million in funding; if final estimates are more than \$20 million any additional amount will be allocated with Core Flow.

Justification:

This project is intended to provide relief to interceptor sewers downstream and to the WRF during wet weather flow conditions. The scope and location will become more apparent once the new Facility Plan update is complete.

Scheduling:

Study, Design and Construction for beyond FY17.
 Project will be designed and constructed past FY18.

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Update.

Operating Budget Effect:

This project will be needed to reduce the load from the Northern area of the conveyance system; operations and maintenance costs will increase.

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PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Flood Mitigation - Grant funded								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	7,300,000						4,300,000	3,000,000					
Beginning Balance								1,905,000					
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	1,095,000							1,095,000					
Bond Proceeds													
SRF Drawdowns													
Other / Grant Money	6,205,000						6,205,000						
Total Resources	7,300,000						6,205,000	3,000,000					
ENDING BALANCE	0	0	0	0	0	0	1,905,000	0	0	0	0	0	0

Description:

A WRF Flood Mitigation Project will be constructed at the WRF to flood harden the facility. This project could include flood walls, raising of existing levee and flood protecting existing buildings. The exact scope will be determined once the Flood Inundation Study is complete.

Justification:

The WRA is applying for available funding from the Hazard Mitigation Grant Program. This grant has an 85/15 funding split. 15% would be the WRA's matching funds requirement.

Scheduling:

The Grant application is due in May 2012. Grant award would be late 2012.
Design F13/F14, Construction F14/16.

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Plan Update.

wra share 15%

1095000

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 for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA Common Trunk							AG267 WRA990000 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 FY2019
							F15	F16	F17	F18	F19	F20	
Expenses	9,262,840												9,262,840
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities	9,262,840												9,262,840
Future Funding													
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:
 This project is scheduled for F20.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update and Ex31 March 2018.

Operating Budget Effect:

Fiscal 2015 / Fiscal 2020 Capital Improvements Program - Budget Sheets for Technical Committee - Jan. 14, 2014

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRA Clive / USSD Joint Trunk							AG267 WRA990000 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 FY2021
							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:
 This project is scheduled for F20.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update and Ex31March 2020.

Operating Budget Effect:

WASTEWATER RECLAMATION AUTHORITY
 Allocation Percentages Based on WRA / WRF Flows
 Fiscal Year 2015

Using Oct-Sept flows.

Community / District	<u>WRF</u>		<u>WRA</u>	
	Average 2013* WRF Flow	WRF Percentage ^A Flow	Average 2013* WRA Flow	WRA Percentage ^A Flow
Altoona #	851.4	3.890%	851.4	3.815%
Ankeny ©	1,898.1	8.673%	1,898.1	8.505%
Bondurant ©	141.3	0.646%	141.3	0.633%
Clive #	781.6	3.571%	781.6	3.502%
Cumming	0.0	0.000%	3.3	0.015%
Des Moines #	12,061.8	55.110%	12,061.8	54.047%
Greenfield P / HOC SS District #	101.7	0.465%	101.7	0.456%
Johnston #	509.6	2.329%	509.6	2.284%
Norwalk #	372.3	1.701%	372.3	1.668%
Pleasant Hill #	296.2	1.354%	296.2	1.327%
Polk City #	112.5	0.514%	112.5	0.504%
Polk County #	97.4	0.445%	97.4	0.436%
Urbandale San Sewer District #	1,709.8	7.812%	1,709.8	7.662%
Urb-Windsor Hts San District #	319.7	1.461%	319.7	1.433%
F Waukee	16.5	0.076%	444.1	1.990%
West Des Moines #	2,616.1	11.953%	2,616.1	11.723%
TOTAL	21,886.3	100.0%	22,317.1	100.0%

- # Represents Communities fully connected to the WRA (WRF system) at 9/30/13.
- * Represents average flow based on flows from calendar years 2010,2011,2012.
 The Flow collection months changed FY2015 from calendar to 36 months ended September 30th.
- ^A WRF budget allocations are computed using these percentages.
- F Flow from Painted Woods.
- © City connected prior to 12/31/13 but after 6/30/13; will be treated as connected.

Bonded Project Flows:
Core Projects assigned to communities based on the WRA flow percents above

<u>Expansion Projects:</u>		
Altoona	851.4	9.533%
Ankeny	1,898.1	21.254%
Bondurant	141.3	1.582%
Clive	781.6	8.752%
Cumming	3.3	0.037%
Norwalk	372.3	4.168%
Polk City	112.5	1.260%
Urbandale S S D	1,709.8	19.146%
Waukee	444.1	4.972%
West Des Moines	2,616.1	29.296%
	8,930.7	100.0%

<u>SW Diversion Project:</u>		
Altoona		5.721%
Ankeny		12.755%
Bondurant		0.949%
Clive X (no expansion adjustment)		5.252%
Cumming		0.022%
Des Moines		36.032%
Greenfield P / HOC SS District		0.304%
Johnston		1.522%
Norwalk		2.502%
Pleasant Hill		0.885%
Polk City		0.756%
Polk County		0.291%
Urbandale San Sewer District		11.490%
Urb-Windsor Hts San District X (no expansion adjustment)		0.955%
Waukee		2.984%
West Des Moines		17.580%
		100.0%

After a community fully connects, the WRF flow amount will change - it will increase to match the WRA flow. This will increase a community's contribution for monthly plant operations and maintenance.

X FY2015 Budget eliminates the shift in expansion debt component of the SW Diversion category. WRA will no longer include the Clive-Urb/Whets adjustment discussed in Article IX, Section 3 (f) of the 2004 28E Agreement.