

Des Moines Metropolitan Wastewater Reclamation Authority

2012+ Capital Improvements Program



Summary

Wastewater Reclamation Authority Improvements FY2012+

Col. 1 2 3 4 5 6 7 8 9 10 11 12 13

	TOTAL ESTIMATED COST	COST THROUGH F10	REVISED ESTIMATE F11	TOTAL ESTIMATED COST THROUGH F11	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
						F12	F13	F14	F15	F16	F17	
Expenses, detail on following page	496,163,514	140,383,195	74,260,301	214,643,496	204,786,675	111,976,133	52,947,868	24,612,674	9,350,000	2,850,000	3,050,000	76,733,343
Resources:												
Beginning Balance	0	0	50,100,637	0		73,891,791	32,529,692	15,696,224	5,000,000	(1,200,000)	(1,000,000)	0
Interest Earnings	945,939	549,333	47,293	596,626	349,313	99,313	50,000	50,000	50,000	50,000	50,000	0
Renewal & Replacement Fund	3,298,491	3,298,491	0	3,298,491	0	0	0	0	0	0	0	0
Communities	32,486,859	11,664,584	3,150,000	14,814,584	17,672,275	2,822,275	2,900,000	2,950,000	3,000,000	3,000,000	3,000,000	0
Future Funding	116,262,518	76,180	(76,180)	0	39,529,175	2,202,725	26,520,000	10,806,450	0	0	0	76,733,343
Bond Proceeds	85,152,284	86,135,942	3,486,342	89,622,284	(4,470,000)	(4,470,000)	0	0	0	0	0	0
SRF Drawdowns	253,208,541	86,883,270	91,244,000	178,127,270	75,081,271	68,576,871	6,504,400	0	0	0	0	0
Other	3,808,882	1,876,032	200,000	2,076,032	1,732,850	1,382,850	150,000	100,000	100,000	0	0	0
Total Resources	495,163,514	190,483,832	148,152,092	288,535,287	129,894,884	144,505,825	68,654,092	29,602,674	8,150,000	1,850,000	2,050,000	76,733,343

WASTEWATER RECLAMATION AUTHORITY
 COMPARISON OF LAST YEAR AND CURRENT YEAR CIP SHEETS
 FY2012

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>			2011 BOOK	2011 BOOK	2012 FILE	
wra 086	DM River Outfall / New Main Outfall	P 17	40,899,269	40,899,269	47,502,119	6,602,850
wra 087	Combined Sewer Solids Separation Design	P 17	66,706,200	66,706,200	52,316,995	(14,389,205)
			107,605,469	107,605,469	99,819,114	
wra 088	Ingersoll Run Sewer	P 25	2,707,069	2,707,069	2,707,069	-
wra 080	Westside Basin Interceptor	P 4	6,764,543	6,764,543	6,648,068	(116,475)
wra 093	Flow Monitoring System		5,517,381	5,517,381	5,946,782	429,401
wra 084	Emission Reduction	*	6,038,059	6,038,059	6,039,734	1,675
wra 077	Power Generation System		4,225,052	4,225,052	4,225,052	-
wra 074	Digester Gas System		25,605,000	25,605,000	24,315,000	(1,290,000)
Subtotal Core Projects			158,462,573	158,462,573	149,700,819	(8,761,754)
<u>Expansion Projects</u>						
wra 085	Ankeny Four Mile Interceptor Ext.	P 24	20,995,617	20,995,617	20,790,917	(204,700)
wra 097	FourMi Interceptor Improv.	P 23	30,618,863	30,618,863	29,081,865	(1,536,998)
wra 095	Little Four Mile Int. South p15	*	4,267,716			
wra 089	Little Four Mile Int. Ext. P15	*	2,717,478	2,717,478	2,720,978	3,500
wra 090	Middle Creek Trunk Sewer	P 20	7,511,268	7,511,268	7,449,522	(61,746)
wra 099	Mud Creek Interceptor	P 19	16,424,000	16,424,000	19,422,436	2,998,436
wra 100	Corridor Preservation	v		400,000	400,000	-
wra 082	WDM Outfall	P 13	17,857,829	17,857,829	17,628,594	(229,235)
wra 092	WDM Outfall Ext.	P 18	10,988,118	10,988,118	10,998,042	9,924
Subtotal Expansion Projects			111,380,889	107,513,173	108,492,354	979,181
wra 081	South West Area Diversion Facilities	P 22	80,373,684	80,373,684	85,986,885	5,613,201
wra 103a	Southern Tier Improvements for SW Area Div	v	0	12,700,000	12,710,400	10,400
South West Area Diversion Facilities			80,373,684	93,073,684	98,697,285	5,623,601
<u>Future Projects (Core & Expansion)</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	-
wra 102	Westside Supplemental Equalization Basin		17,200,000	17,200,000	17,200,000	-
wra 101	Additional Equalization Basin		10,200,000	10,200,000	10,200,000	-
expan	Common Trunk & Joint Trunk		24,828,971	24,828,971	24,828,971	-
wra 103b	Southern Tier Improvements	v	24,311,496	11,611,496	10,373,430	(1,238,066)
Subtotal Future Projects			118,071,409	105,371,409	104,133,343	(1,238,066)
Total Bonded Project Costs			468,288,555	464,420,839	461,023,801	(3,397,038)
<u>Non-Bonded / Plant & System Projects</u>						
wra 069	Facilities Plan Update		885,640	885,640	1,035,640	150,000
wra 096	Transition / RE Transfer Costs (see note below)		440,000	440,000	440,000	-
wra 078	Facilities Rehabilitation, including RE purchases		2,216,788	2,216,788	2,566,788	350,000
wra 083	Sewer Maintenance contract work			0	700,000	700,000
wra 104	Equalization Basin Improvements (I-Jobs)		1,000,000	1,000,000	1,336,450	336,450
wra 100	Corridor Preservation	v	400,000			
wra 070	Process Equipment Replmt 2004-2009		6,903,475	6,903,475	6,903,475	-
wra 091	Small CIP current projects 2008-2009		2,850,000	2,850,000	3,000,000	150,000
wra 098	Small CIP projects & ProcEqRepl. 2010-2011			4,732,360	4,582,360	(150,000)
wra 098a	Small CIP projects & ProcEqRepl. 2012			2,380,000	4,545,000	2,165,000
wra 1xx	Small CIP future projects & future ProcEqRepl.		17,157,360	10,045,000	10,030,000	(15,000)
Total Non-Bonded Project Costs			31,853,263	31,453,263	35,139,713	3,686,450
WRA Total Expenses for Projects			500,141,818	495,874,102	496,163,514	289,412
RE = Real Estate (after 2004 WRA listed as title holder)			500141818 L/yr CIP \$			
			* PROJECT CLOSED		496,163,514 SUMMARY TOTAL	
			v PROJ CATEGORY CHG			

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

WRA 2012

<u>Expenditures from CIP sheets</u>	2011	2012	2013	2014	2015	2016	2017	subtotal Spending
<u>WRA Projects - Expansion Category</u>								
85 P24 Four Mile Interceptor Ext.	\$ 5,802,576.0	\$ 3,572,059.0	\$ 699,863.0					\$ 10,074,498.0
97 P23 Four Mile Interceptor	10,890,011.0	2,632,977.0	37,423.0					13,560,411.0
95 P15 Little Four Mile Int. South Seg 2								-
82 P13 WDM Outfall	841,770.0	3,868,800.0	1,141,400.0					5,851,970.0
92 P18 WDM Outfall Ext.	1,285,074.0	2,945,186.0						4,230,260.0
99 P19 Mud Creek	87,000.0	7,151,664.0	8,485,152.0	3,698,620.0				19,422,436.0
101 placHold Additional Equalization Basin			\$ 200,000.0	\$ 5,000,000.0	\$ 5,000,000.0			10,200,000.0
100 Corridor Preservation	168,791.0	\$ 100,000.0	\$ 50,000.0					318,791.0
103 b Southern Tier Improvements								-
Expansion Funding Ttl	\$ 19,075,222.0	\$ 20,270,686.0	\$ 10,613,838.0	\$ 8,698,620.0	\$ 5,000,000.0	\$ -	\$ -	\$ 63,658,366.0
<u>WRA Projects - SW Area Div. Category</u>								
81 P21,22 SW Area Diversion Project	18,780,650.0	\$ 28,443,860.0	\$ 5,102,843.0					52,327,353.0
103 a Southern Tier for SW ADF	1,738,641.0	\$ 6,528,600.0	\$ 4,442,100.0					12,709,341.0
SW Area Funding Ttl	\$ 20,519,291.0	\$ 34,972,460.0	\$ 9,544,943.0	\$ -	\$ -	\$ -	\$ -	\$ 65,036,694.0
<u>WRA Projects - Core Category</u>								
86 P17 DM River Outfall / Main Outfall	\$ 3,920,738.0	\$ 23,486,600.0	\$ 7,714,500.0					35,121,838.0
87 P17 CSSS Facility	13,910,331.0	18,298,880.0	10,832,224.0	\$ 4,760,517.0				47,801,952.0
88 P25 Ingersoll Run CSO	126,137.0	15,000.0						141,137.0
74 P1 Digester Improvements	8,887,740.0	9,610,000.0	3,280,366.0					21,778,106.0
93 P25 Flow Monitoring Seg 3	540,461.0	277,862.0	91,997.0	31,950.0				942,270.0
104 I Jobs Equalization Basin Improvements	1,020,260.0			\$ 311,587.0				1,331,847.0
102 * Westside Suppl. Equalization Basin		1,200,000.0	8,000,000.0	8,000,000.0				17,200,000.0
80 P4 Westside Basin Interceptor Seg 2	1,376,206.0	219,645.0						1,595,851.0
	\$ 29,781,873.0	\$ 53,107,987.0	\$ 29,919,087.0	\$ 13,104,054.0	\$ -	\$ -	\$ -	\$ 125,913,001.0
	2011	2012	2013	2014	2015	2016	2017	
<u>WRA Plant Projects - Annual Community Contributions</u>								
69 Facility Plan update	\$ 92,989.0	\$ 100,000.0	\$ 100,000.0	\$ 100,000.0	\$ 100,000.0	\$ 100,000.0	\$ 100,000.0	692,989.0
70 Process Equipment Repl. (see 98)	105,126.0							105,126.0
78 Facilities Rehabilitation	214,337.0	200,000.0	250,000.0	200,000.0	200,000.0	200,000.0	200,000.0	1,464,337.0
77 Power Generation System					1,500,000.0			
83 Sewer Maintenance	200,000.0	150,000.0	150,000.0	100,000.0	100,000.0			
96 Transition Costs	188,896.0							188,896.0
91 Small CIP & Studies	1,094,503.0	100,000.0	100,000.0	40,000.0	30,000.0	30,000.0	30,000.0	1,424,503.0
98 Plant Projects, including Eq. Repl.	2,988,064.0	\$ 3,075,000.0	\$ 2,270,000.0	\$ 2,370,000.0	\$ 2,420,000.0	\$ 2,520,000.0	\$ 2,720,000.0	18,363,064.0
	\$ 4,883,915.0	\$ 3,625,000.0	\$ 2,870,000.0	\$ 2,810,000.0	\$ 4,350,000.0	\$ 2,850,000.0	\$ 3,050,000.0	\$ 22,238,915.0
Revised Estimate for F11	\$ 74,260,301.0							
	2012	\$ 111,976,133.0						
	2013		\$ 52,947,868.0					
	2014			\$ 24,612,674.0				
	2015				\$ 9,350,000.0			
	2016					\$ 2,850,000.0		
	2017						\$ 3,050,000.0	
Summary of Costs, Six-Year-Period								\$ 204,786,675.0

List of WRA Projects / Alphabetical

Project Number	Project ID	Project Name	Funding	Page #
WRA087	Phase 17	Combined Sewer Solids Separation Facility	Core Bond Funds	22
WRA074		Digester Improvements - WRF	Core Bond Funds	15
WRA086	Phase 17	DM River Outfall / New Main Outfall	Core Bond Funds	21
WRA084		Emission Reduction - WRF	Core Bond Funds	19
WRA104		Equalization Basin Improvements	Core & Grant	34
WRA093		Flow Monitoring System Improvements - WRA	Core Bond Funds	27
WRA085	Phase 24	Four Mile Interceptor Extension	Expansion Funds	20
WRA097	Phase 23	Four Mile Interceptor Improvements	Expansion Funds	29
WRA088	Phase 25	Ingersoll Run Combined Sewer Overflow	Core Bond Funds	23
WRA089	Phase 15	Little Four Mile Interceptor Extension	Expansion Funds	24
WRA095	Phase 15	Little Four Mile Intereceptor -South Branch	Expansion Funds	0
WRA090	Phase 20	Middle Creek Trunk Sewer Extension	Expansion Funds	25
WRA099	Phase 19	Mud Creek Interceptor	Expansion Funds	30
WRA101		Saylor Equalization Basin - Additional north basin		36
WRA103a	Phase 10	Southern Tier Improvements for SW Diversion	Bond Funds SW	33
WRA081	Phase 21,22	SouthWest Area Diversion Facilities	Bond Funds SW	17
WRA082	Phase 13	West Des Moines Outfall	Expansion Funds	18
WRA092	Phase 18	West Des Moines Outfall Extension	Expansion Funds	26
WRA080	Phase 5	West Side Interceptor Basin & Mitigation - WRA	Core Bond Funds	16
WRA102	Phase 5	Westside Supplemental Equal. Basin - WRA	Core Bond Funds	35
WRA1xx		Birdland Pump Station - WRA	Core Bond Funds	40
WRA1xx		Clive / USSD Joint Trunk - WRA	Expansion Funds	39
WRA1xx		Common Trunk - WRA	Expansion Funds	38
WRA100		Corridor Preservation	Expansion Funds	31
WRA1xx		Nutrient Removal - WRF	Core Bond Funds	37
WRA103b	Phase 10	Southern Tier Improvements (future expansion)	Expansion Funds	32
WRA078		Facilities Rehabilitation - WRF	annual contrib	14
WRA069		Facility Plan Update - WRA	annual contrib	6
WRA077		Power Generation System - WRF	annual contrib	13
WRA070		Process Equipment Replacement - WRF	annual contrib	7
WRA083		Sewer Maintenance - WRA	operating funds	12
WRA091		Small Capital Projects & Studies - WRF	annual contrib	8
WRA098		Small Projects, Process Equipment Repl [2010,2011]	annual contrib	9
WRA098		Small Projects, Process Equipment Repl [2012,2013]	annual contrib	10
WRA098		Small Projects, Studies, Process Equipment Repl [2014+]	annual contrib	11
WRA096		Transition Costs - WRA	annual contrib	28

Fiscal 2012/Fiscal 2017 Capital Improvements Program

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 F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	1,035,640	262,052	80,599	342,651	92,989	435,640	100,000	100,000	100,000	100,000	100,000	100,000	
Beginning Balance					2,989								
Interest Earnings	15,000	12,870	2,130	15,000		15,000							
Repair and Replacement Fund Communities	330,640	260,000	70,640	330,640		330,640							
Future Funding Bond Proceeds SRF Drawdowns													
Other / commty funds 098	690,000				90,000	90,000	100,000	100,000	100,000	100,000	100,000	100,000	
Total Resources	1,035,640	272,870	72,770	345,640	92,989	435,640	100,000	100,000	100,000	100,000	100,000	100,000	
ENDING BALANCE	0	10,818	(7,829)	2,989	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.

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.

Scheduling:

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

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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Process Equipment Replacement [transferring to WRA098 in 2010]							AG267 WRA990000 WRA070		
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	6,903,475	6,183,867	614,482	6,798,349	105,126	6,903,475							
Beginning Balance					105,126								
Interest Earnings	378,485	375,010	3,475	378,485		378,485							
Repair and Replacement Fund	1,948,191	1,948,191		1,948,191		1,948,191							
Communities	4,503,443	4,503,443		4,503,443		4,503,443							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other, SALE of Equip	73,356	73,356		73,356		73,356							
Total Resources	6,903,475	6,900,000	3,475	6,903,475	105,126	6,903,475							
ENDING BALANCE	0	716,133	(611,007)	105,126	0	0	0	0	0	0	0	0	0

Description:

Renewal and replacement of existing process equipment through F10 with projects completed in F11.

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.

Projections beyond 2006 are second tier replacement as equipment wears out over typical fifteen year service life and the magnitude may increase with inflation.

Scheduling:

F08: Network replacement for process control system, Building 12 conveyors, Return sludge piping repairs.

F09: Rebuild Clarifier Drives, Replace Return sludge Lines Joints 45-1, Blast and recoat final clarifiers.

F10: Rebuild Final Clarifier Drives, Replace Return sludge Lines Joints 45-3, Primary Clarifier Drives 1 & 4 rebuild, Repair/repl Transformers.

Relationship to General Plan and Other Projects:

Process equipment replacements will be done in WRA098 after F10.

Operating Budget Effect:

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

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRF Small Capital Projects 2006-2009 & WRA Studies [funded from WRA098]						AG267 WRA990000 WRA091
	TOTAL	COST	ACTUAL	COST	REVISED	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
	ESTIMATED	THROUGH	COST IN	THROUGH	BUDGET	COST THROUGH	F12	F13	F14	F15	F16	F17	BEYOND
	COST	F09	F10	F10	F11	F11							F17
Expenses	3,000,000	1,072,676	502,821	1,575,497	1,094,503	2,670,000	100,000	100,000	40,000	30,000	30,000	30,000	
Beginning Balance					1,252,228		157,725	80,000					
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 / WRA100 & WRA098	150,000	(22,275)		(22,275)		(22,275)	22,275	30,000	30,000	30,000	30,000	30,000	
Total Resources	3,000,000	2,827,725		2,827,725	1,252,228	2,827,725	180,000	110,000	30,000	30,000	30,000	30,000	
ENDING BALANCE	0	1,755,049	(502,821)	1,252,228	157,725	157,725	80,000	10,000	(10,000)	0	0	0	0

Description:

This funds are utilized for process and safety improvements at the WRF and WRA facilities.

Justification:

These modifications are necessary to reduce operations and maintenance costs and facilitate a safer working environment.

Scheduling:

F07: Asphalt road work at west end of plant; Electric Cart Storage Shed; Scum Valve Controllers; VFD's for PAB; Unanticipated Needs

F08: Wireless system for operations control, Vehicle Storage Building.

F09: Automatic Lubrication, Bar Screen, Motor Modifications, W3 Valve, Utility drawings Update.

F10: Utility mapping, Building 35 Blower drive installation.

F11: Bar screen repairs F12 to F17: funding studies, as needed

Relationship to General Plan and Other Projects:

Funds advanced for corridor preservation will be returned to this project after the scheduled bond issue provides permanent funding.

Operating Budget Effect:

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRF Small Projects, & Process Equipment Repl for 2010 & 2011						AG267 WRA990000 WRA098
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	4,582,360		794,296	794,296	2,988,064	3,782,360	800,000						
Beginning Balance					1,553,064		800,000						
Interest Earnings	25,000				25,000	25,000							
Repair and Replacement Fund Communities	4,997,360	140,958	2,206,402	2,347,360	2,650,000	4,997,360							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(440,000)				(440,000)	(440,000)							
Total Resources	4,582,360	140,958	2,206,402	2,347,360	3,788,064	4,582,360	800,000						
ENDING BALANCE	0	140,958	1,412,106	1,553,064	800,000	800,000	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, Bar Screen #1 repl, Sump Pump repl, Main Pump motor rebuild, Unanticipated needs.

F12+: Algae sweep at Final clarifiers, Grit chamber modifications.

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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRF Small Projects, & Process Equipment Repl for 2012 & 2013						AG267 WRA990000 WRA098
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	4,545,000						2,275,000	2,270,000					
Beginning Balance													
Interest Earnings	75,000						25,000	50,000					
Repair and Replacement Fund Communities	5,700,000						2,800,000	2,900,000					
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(1,230,000)						(550,000)	(680,000)					
Total Resources	4,545,000						2,275,000	2,270,000					
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:

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

Scheduling:

Bar screen replacement in F12 - F13 (\$1,800,000)

Also in F12 - F13: PFS storage shed, Biogas pipeline and burner upgrade

W3 improvements in F13 - F14 (\$1,000,000)

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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		WRF Studies, Small Projects, & Process Equipment Replacement										AG267 WRA990000 WRA098	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	10,030,000								2,370,000	2,420,000	2,520,000	2,720,000	
Beginning Balance													
Interest Earnings	200,000								50,000	50,000	50,000	50,000	
Repair and Replacement Fund Communities	11,950,000								2,950,000	3,000,000	3,000,000	3,000,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other (tsfr out)	(2,120,000)								(630,000)	(630,000)	(530,000)	(330,000)	
Total Resources	10,030,000								2,370,000	2,420,000	2,520,000	2,720,000	
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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		WRA Sewer Maintenance (Inspections & Repairs)										AG267 WRA990000 WRA083	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	700,000				200,000	200,000	150,000	150,000	100,000	100,000			
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other	700,000				200,000	200,000	150,000	150,000	100,000	100,000			
Total Resources	700,000				200,000	200,000	150,000	150,000	100,000	100,000			
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Expansion project.
 This project provides funding for annual engineering investigations 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, sink hole repairs, replacement of manhole lids and castings, etc.

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:
 F12 Investigate the Westside/Beaver Creek interceptor sewer.
 F13 Investigate the western portion of the Southern 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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Power Generation System [funded from WRA098]								AG267 WRA990000 WRA077		
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						F17	
							F12	F13	F14	F15	F16	F17		
Expenses	4,225,052	2,207,012	518,040	2,725,052		2,725,052					1,500,000			
Beginning Balance					237,457		150,000	400,000	700,000	1,000,000	(200,000)			
Interest Earnings														
Repair and Replacement Fund	1,033,512	1,823,312	(789,800)	1,033,512		1,033,512								
Communities	173,118		173,118	173,118		173,118								
Future Funding														
Bond Proceeds	1,518,422	2,268,398	(512,519)	1,755,879	(237,457)	1,518,422								
SRF Drawdowns														
Other / commtty funds 098	1,500,000				150,000	150,000	250,000	300,000	300,000	300,000	200,000			
Total Resources	4,225,052	4,091,710	(1,129,201)	2,962,509	150,000	2,875,052	400,000	700,000	1,000,000	1,300,000				
ENDING BALANCE	0	1,884,698	(1,647,241)	237,457	150,000	150,000	400,000	700,000	1,000,000	(200,000)	0	0	0	0

Description:

F03 and F04 expenditures are for overhauling the engine drive system and replacing controls and heat recovery improvements. F09 cost are for overhauling one generator. F10 costs are for overhauling two generators.

F15 expenditure for engine rebuilds (anticipate every seven years).

Justification:

The engines burn the by-product gas produced by the digesters to produce electricity saving more than \$300,000 annually. New technology offers lower O&M cost and produce more electricity. Engine overhauls are required every 25,000 hours. A planned additional generator was not required because of the agreement with Cargill to purchase gas.

Scheduling:

Conduct a study in F01 with design in F03 and construction in F04-F05. F09 costs are for rebuilding one generator.

The completed study will provide more information on project implementation.

Relationship to General Plan and Other Projects:

F06 were included in the facility plan; F10 costs will be funded with bond issues from 2004/2006. Part of the costs prior to 2004 will now be funded with R&R money.

Operating Budget Effect:

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

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Facilities Rehabilitation [funded from WRA098]								AG267 WRA990000 WRA078	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	2,566,788	824,881	277,570	1,102,451	214,337	1,316,788	200,000	250,000	200,000	200,000	200,000	200,000	
Beginning Balance					14,337								
Interest Earnings	50,000	50,000		50,000		50,000							
Repair and Replacement Fund	316,788	316,788		316,788		316,788							
Communities	750,000	750,000		750,000		750,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / commty funds 098	1,450,000				200,000	200,000	200,000	250,000	200,000	200,000	200,000	200,000	
Total Resources	2,566,788	1,116,788		1,116,788	214,337	1,316,788	200,000	250,000	200,000	200,000	200,000	200,000	
ENDING BALANCE	0	291,907	(277,570)	14,337	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 Airhandling units in Buildings 12, 26, 27 & 28, HVAC Improvements.

Relationship to General Plan and Other Projects:

This project received interest earnings from the \$10,000,000 R&R balance prior to 2010. 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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT			
Wastewater Reclamation Authority Improvements				WRF Digester Improvements							AG267 WRA990000 WRA074			
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17	
							F12	F13	F14	F15	F16	F17		
Expenses	24,315,000	1,294,491	1,242,403	2,536,894	8,887,740	11,424,634	9,610,000	3,280,366						
Beginning Balance					20,828,106		11,990,366	2,380,366						
Interest Earnings														
Repair and Replacement Fund Communities								900,000						
Future Funding	900,000													
Bond Proceeds	150,000	100,000		100,000	50,000	150,000								
SRF Drawdowns	23,265,000	1,994,250	21,270,750	23,265,000		23,265,000								
Other / from Small CIP														
Total Resources	24,315,000	2,094,250	21,270,750	23,365,000	20,878,106	23,415,000	11,990,366	3,280,366						
ENDING BALANCE	0	799,759	20,028,347	20,828,106	11,990,366	11,990,366	2,380,366	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 are scheduled for F09 with construction in F09 through F12. 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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		WRA Westside Interceptor Basin & WSPS Mitigation Services										AG267 WRA990000 WRA080	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	6,648,068	4,938,353	113,864	5,052,217	1,376,206	6,428,423	219,645						
Beginning Balance					437,031		469,645						
Interest Earnings	269	269		269		269							
Repair and Replacement Fund Communities	23,141	23,141		23,141		23,141							
Future Funding			76,180	76,180	(76,180)								
Bond Proceeds	5,139,658	5,389,658		5,389,658		5,389,658	(250,000)						
SRF Drawdowns	1,485,000				1,485,000	1,485,000							
Other													
Total Resources	6,648,068	5,413,068	76,180	5,489,248	1,845,851	6,898,068	219,645						
ENDING BALANCE	0	474,715	(37,684)	437,031	469,645	469,645	0	0	0	0	0	0	0

Description: Expansion project.
 The project has increased the capacity of the pump station from 20 mgd to 35 mgd and replaced controls and associated equipment. F09 Expenditure amount does not include costs for flood damage / replacements that will be FEMA reimbursed or funded with insurance. F10 Expenditures are mitigation that will not be reimbursed by FEMA but will be required to protect the facility from flooding.

Justification:
 The existing equipment is aging and has been exposed to harsh operating conditions. The capacity of the pump station has increased.

Scheduling:
 F10 Improvements will provide increased flood protection around the equalization basin.

Relationship to General Plan and Other Projects:
 This project is included in the WRA Facility Plan Update. After flooding in 2008, additional mitigation projects were added.

Operating Budget Effect:
 Increase revenues and operations and maintenance costs.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

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 F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17	
							F12	F13	F14	F15	F16	F17		
Expenses	85,986,885	29,251,426	4,408,106	33,659,532	18,780,650	52,440,182	28,443,860	5,102,843						
Beginning Balance					16,733,353		17,356,703	3,102,843						
Interest Earnings														
Repair and Replacement Fund Communities														
Future Funding	2,000,000							2,000,000						
Bond Proceeds	19,023,085	25,623,085		25,623,085		25,623,085	(6,600,000)							
SRF Drawdowns Available	64,963,800	16,354,800	8,415,000	24,769,800	19,404,000	44,173,800	20,790,000							
Other / LOAN to WRA092														
Total Resources	85,986,885	41,977,885	8,415,000	50,392,885	36,137,353	69,796,885	31,546,703	5,102,843						
ENDING BALANCE	0	12,726,459	4,006,894	16,733,353	17,356,703	17,356,703	3,102,843	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 will be designed in F08 and constructed in F08/F09. The North River Interceptor will be 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 F09, F10, and F11. Phase 21 - F08/09.

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

Phase 22, Segment 4 - F12, P22seg. 5 - F12, 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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program /Working Copy for January review

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					West Des Moines Outfall Phase13								AG267 WRA990000 WRA082
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2015
							F12	F13	F14	F15	F16	F17	
Expenses	17,628,594	8,983,016	2,793,608	11,776,624	841,770	12,618,394	3,868,800	1,141,400					
Beginning Balance					1,537,315		235,545	1,141,400					
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	708,394	1,168,394		1,168,394	(460,000)	708,394							
SRF Drawdowns	16,920,200	3,829,545	8,316,000	12,145,545		12,145,545	4,774,655						
Other													
Total Resources	17,628,594	4,997,939	8,316,000	13,313,939	1,077,315	12,853,939	5,010,200	1,141,400					
ENDING BALANCE	0	(3,985,077)	5,522,392	1,537,315	235,545	235,545	1,141,400	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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Emission Reduction							AG267 WRA990000 WRA084		
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	6,039,734	6,037,401	2,333	6,039,734		6,039,734							
Beginning Balance					500,000								
Interest Earnings	21,519	3,124	18,395	21,519		21,519							
Repair and Replacement Fund Communities	226,882	400,000	(173,118)	226,882		226,882							
Future Funding													
Bond Proceeds	5,789,658	6,289,658		6,289,658	(500,000)	5,789,658							
SRF Drawdowns													
Other / Mid-Amer rebate	1,675	1,675		1,675		1,675							
Total Resources	6,039,734	6,694,457	(154,723)	6,539,734		6,039,734							
ENDING BALANCE	0	657,056	(157,056)	500,000	0	0	0	0	0	0	0	0	0

Description: Core Project This project is for emission reduction at the WRF to comply with local, state and federal regulations. The study and design was completed in F05. Construction of the Phase I facilities began in F06 and will be completed in F07. Capital costs will include facilities to convey and reduce odorous emissions from certain processes at the WRF. Some control measures may take place in the conveyance system in future years.

Justification:

The WRF must comply with regulations regarding emissions

Scheduling:

Design F05. Construction in F06, F07, F08 and F09.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. This project is complete. Remain bond funds will be re-allocated (see Dec 2010 resolutions) to other Core Projects.

Operating Budget Effect:

This project will increase the operating budget.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT			
Wastewater Reclamation Authority Improvements				WRA Four Mile Interceptor Extension Phase 24							AG267 WRA990000 WRA085			
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17	
							F12	F13	F14	F15	F16	F17		
Expenses	20,790,917	10,086,560	629,859	10,716,419	5,802,576	16,518,995	3,572,059	699,863						
Beginning Balance					159,498		2,921,922	199,863						
Interest Earnings														
Repair and Replacement Fund Communities														
Future Funding	500,000							500,000						
Bond Proceeds	11,847,988	10,247,988	300,000	10,547,988	450,000	10,997,988	850,000							
SRF Drawdowns	8,415,000	300,000		300,000	8,115,000	8,415,000								
Other / POLK CO.	27,929	27,929		27,929		27,929								
Total Resources	20,790,917	10,575,917	300,000	10,875,917	8,724,498	19,440,917	3,771,922	699,863						
ENDING BALANCE	0	489,357	(329,859)	159,498	2,921,922	2,921,922	199,863	0	0	0	0	0	0	0

Description: Expansion Project.

Segment 1: Broadway to NE 29th Street south of Oralabor Road.

Segment 2: 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-F10/12.

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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

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 F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	47,502,119	11,982,806	397,475	12,380,281	3,920,738	16,301,019	23,486,600	7,714,500					
Beginning Balance			814,600		1,025,208		7,004,470	4,514,500					
Interest Earnings													
Repair and Replacement Fund Communities	3,200,000							3,200,000					
Bond Proceeds	11,813,279	15,413,279	(3,600,000)	11,813,279		11,813,279							
SRF Drawdowns	32,125,500	1,461,720		1,461,720	9,900,000	11,361,720	20,763,780						
Other / Utility credits, CDM	363,340	130,490		130,490		130,490	232,850						
Total Resources	47,502,119	17,005,489	(2,785,400)	13,405,489	10,925,208	23,305,489	28,001,100	7,714,500					
ENDING BALANCE	0	5,022,683	(3,182,875)	1,025,208	7,004,470	7,004,470	4,514,500	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 F10/13.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. From the 2004B and 2006 bond issue proceeds, \$3,600,000 have been reallocated to Flow Monitoring project WRA093.

Operating Budget Effect:

None.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE											ACCOUNT
Wastewater Reclamation Authority Improvements		Combined Sewer Solids Separation Facility Phase 17											AG267 WRA990000 WRA087
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	52,316,995	2,181,473	2,333,570	4,515,043	13,910,331	18,425,374	18,298,880	10,832,224	4,760,517				
Beginning Balance					(365,043)		30,389,626	12,372,741	4,760,517				
Interest Earnings	1,995						1,995						
Repair and Replacement Fund Communities													
Future Funding	3,220,000							3,220,000					
Bond Proceeds	1,080,000	550,000		550,000	250,000	800,000	280,000						
SRF Drawdowns	48,015,000	3,600,000		3,600,000	44,415,000	48,015,000							
Other													
Total Resources	52,316,995	4,150,000		4,150,000	44,299,957	48,815,000	30,671,621	15,592,741	4,760,517				
ENDING BALANCE	0	1,968,527	(2,333,570)	(365,043)	30,389,626	30,389,626	12,372,741	4,760,517	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 F13.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Ingersoll Run Combined Sewer Overflow Phase 25							AG267 WRA990000 WRA088	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	2,707,069	2,445,476	120,456	2,565,932	126,137	2,692,069	15,000						
Beginning Balance					241,137		15,000						
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	2,707,069	2,807,069		2,807,069	(100,000)	2,707,069							
SRF Drawdowns													
Other													
Total Resources	2,707,069	2,807,069		2,807,069	141,137	2,707,069	15,000						
ENDING BALANCE	0	361,593	(120,456)	241,137	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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Little Four Mile Interceptor Extension Phase 15								AG267 WRA990000 WRA089	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	2,720,978	2,717,478	3,500	2,720,978		2,720,978							
Beginning Balance													
Interest Earnings	7,764		7,764	7,764		7,764							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	2,713,214	3,688,214	(975,000)	2,713,214		2,713,214							
SRF Drawdowns													
Other													
Total Resources	2,720,978	3,688,214	(967,236)	2,720,978		2,720,978							
ENDING BALANCE	0	970,736	(970,736)	0	0	0	0	0	0	0	0	0	0

Description: Expansion Project.

This project will provide service to the Altoona Wastewater Treatment Plant. The project starts at the Little Four Mile Interceptor east of highway 65 and North of 27th Avenue and continues to the Altoona Wastewater Treatment Plant.

Justification:

This will provide the primary WRA connection for the City of Altoona.

Scheduling:

Design:F05, Construction:F06.

Altoona Equalization Basin Modifications - F09

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. This project is complete. Remain bond funds will be re-allocated (see Dec 2010 resolutions) to other Expansion Projects.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Middle Creek Trunk Sewer Extension Phase 20								AG267 WRA990000 WRA090	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	F17
Expenses	7,449,522	6,957,890	491,632	7,449,522		7,449,522							
Beginning Balance					956,201								
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	4,769,817	5,726,018		5,726,018	(956,201)	4,769,817							
SRF Drawdowns	2,679,705	2,679,705		2,679,705		2,679,705							
Other													
Total Resources	7,449,522	8,405,723		8,405,723		7,449,522							
ENDING BALANCE	0	1,447,833	(491,632)	956,201	0	0	0	0	0	0	0	0	0

Description: Expansion project.

Segment 1: This project extends service from the existing Southern Tier Interceptor east of Highway 28 to 50th Street in Norwalk.

Segment 2/3: Extends WRA service west to the cities of Cumming and West Des Moines.

Justification:

This project will increase the service area for Norwalk, Cumming, and West Des Moines.

Scheduling:

Segment 1: Design, F05. Construction, F06/F07.

Segment 2: Design F07(28E). 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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							West Des Moines Outfall Extension Phase 18						AG267 WRA990000 WRA092
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	10,998,042	6,752,040	15,742	6,767,782	1,285,074	8,052,856	2,945,186						
Beginning Balance					247,967		2,945,186						
Interest Earnings	88,589	66,296		66,296	22,293	88,589							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	8,285,953	4,325,953		4,325,953	3,960,000	8,285,953							
SRF Drawdowns	2,623,500	2,623,500		2,623,500		2,623,500							
Other													
Total Resources	10,998,042	7,015,749		7,015,749	4,230,260	10,998,042	2,945,186						
ENDING BALANCE	0	263,709	(15,742)	247,967	2,945,186	2,945,186	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 Booneville 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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Flow Monitoring System Improvements								AG267 WRA990000 WRA093	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	5,946,782	1,940,731	3,063,781	5,004,512	540,461	5,544,973	277,862	91,997	31,950				
Beginning Balance					619,952		329,491	123,947	31,950				
Interest Earnings	72,318						72,318						
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds (reallocated)	5,874,464	1,511,945	4,112,519	5,624,464	250,000	5,874,464							
SRF Drawdowns													
Other													
Total Resources	5,946,782	1,511,945	4,112,519	5,624,464	869,952	5,874,464	401,809	123,947	31,950				
ENDING BALANCE	0	(428,786)	1,048,738	619,952	329,491	329,491	123,947	31,950	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.

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 F10. 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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		WRA Transition Costs										AG267 WRA990000 WRA096	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	440,000	249,125	1,979	251,104	188,896	440,000							
Beginning Balance					188,896								
Interest Earnings	10,000	8,034	1,966	10,000		10,000							
Repair and Replacement Fund Communities	430,000	430,000		430,000		430,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	440,000	438,034	1,966	440,000	188,896	440,000							
ENDING BALANCE	0	188,909	(13)	188,896	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:

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Four Mile Interceptor Improvements Phase 23								AG267 WRA990000 WRA097	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	F17
Expenses	29,081,865	5,923,663	9,597,791	15,521,454	10,890,011	26,411,465	2,632,977	37,423					
Beginning Balance					3,485,411		720,400	37,423					
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	1,000,000						1,000,000						
Bond Proceeds	2,976,283	1,026,283	300,000	1,326,283	700,000	2,026,283	950,000						
SRF Drawdowns	23,463,000	9,108,000	6,930,000	16,038,000	7,425,000	23,463,000							
Other / CORE buy in collected	1,642,582		1,642,582	1,642,582		1,642,582							
Total Resources	29,081,865	10,134,283	8,872,582	19,006,865	11,610,411	27,131,865	2,670,400	37,423					
ENDING BALANCE	0	4,210,620	(725,209)	3,485,411	720,400	720,400	37,423	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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Mud Creek Interceptor P 19							AG267 WRA990000 WRA099	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	19,422,436				87,000	87,000	7,151,664	8,485,152	3,698,620				
Beginning Balance							(57,000)	11,683,772	3,198,620				
Interest Earnings													
Repair and Replacement Fund Communities									500,000				
Future Funding	500,000												
Bond Proceeds	30,000				30,000	30,000							
SRF Drawdowns	17,892,436						17,892,436						
Other, Altoona	1,000,000						1,000,000						
Total Resources	19,422,436				30,000	30,000	18,835,436	11,683,772	3,698,620				
ENDING BALANCE	0	0	0	0	(57,000)	(57,000)	11,683,772	3,198,620	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-F13/14.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update. 28E bond schedule was March 2012. Construction in early FY13.

Operating Budget Effect:

Revenues and expenses will increase as flows increase.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE											ACCOUNT
Wastewater Reclamation Authority Improvements		WRA Corridor Preservation											AG267 WRA990000 WRA100
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	400,000	22,275	58,934	81,209	168,791	250,000	100,000	50,000					
Beginning Balance					316,066		147,275	50,000					
Interest Earnings													
Repair and Replacement Fund Communities	22,275						22,275						
Future Funding	2,725						2,725						
Bond Proceeds	375,000		375,000	375,000		375,000							
SRF Drawdowns													
Other / Small CIP		22,275		22,275		22,275	(22,275)						
Total Resources	400,000	22,275	375,000	397,275	316,066	397,275	150,000	50,000					
ENDING BALANCE	0	0	316,066	316,066	147,275	147,275	50,000	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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Southern Tier Improvements (funded with Future Expansion Debt)								AG267 WRA990000 WRA103 b	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2020
							F12	F13	F14	F15	F16	F17	
Expenses	10,373,430												10,373,430
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	10,373,430												10,373,430
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	10,373,430												10,373,430
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 Southern Tier Interceptor. Improvements in F10 will increase the high lift capacity of the pump station and provide a pump station at the AreaC equalization facility.

Justification:

Scheduling:

This project is scheduled to begin F18. The improvements at the Southern Tier Pump Station and pipe line p have been moved from FY19 to FY12 in order to accommodate the flow from the SWADF scheduled to be online in FY13.

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 2012/Fiscal 2017 Capital Improvements Program

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 F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2020	
							F12	F13	F14	F15	F16	F17		
Expenses	12,710,400		1,059	1,059	1,738,641	1,739,700	6,528,600	4,442,100						
Beginning Balance					(1,059)		(1,689,700)	(3,562,300)						
Interest Earnings														
Repair and Replacement Fund Communities														
Future Funding	1,500,000							1,500,000						
Bond Proceeds	350,000				50,000	50,000	300,000							
SRF Drawdowns	10,860,400						4,356,000	6,504,400						
Other														
Total Resources	12,710,400				48,941	50,000	2,966,300	4,442,100						
ENDING BALANCE	0	0	(1,059)	(1,059)	(1,689,700)	(1,689,700)	(3,562,300)	0	0	0	0	0	0	0

Description: Expansion 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.

Justification:

Scheduling:

This project has been re-scheduled to begin F11 from F19.

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:

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Equalization Basin Improvements								AG267 WRA990000 WRA104	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	1,336,450		4,603	4,603	1,020,260	1,024,863			311,587				
Beginning Balance					25,397		5,137	5,137	5,137				
Interest Earnings													
Repair and Replacement Fund Communities	530,000		30,000	30,000	500,000	530,000							
Future Funding	306,450								306,450				
Bond Proceeds													
SRF Drawdowns	500,000				500,000	500,000							
Other, Commtty 098 /Grant													
Total Resources	1,336,450		30,000	30,000	1,025,397	1,030,000	5,137	5,137	311,587				
ENDING BALANCE	0	0	25,397	25,397	5,137	5,137	5,137	5,137	0	0	0	0	0

Description:

Improvements/Modifications/Abandonment of existing WRA equalization basins.

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 with SRF funding to match and/or cover remaining eligible cost and R&R community collection to start project.

Operating Budget Effect:

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRA Westside Supplemental Equalization Basin Phase 5 segment 5						AG267 WRA990000 WRA102
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	17,200,000						1,200,000	8,000,000	8,000,000				
Beginning Balance									7,000,000	(1,000,000)	(1,000,000)	(1,000,000)	
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	16,200,000						1,200,000	15,000,000					
Bond Proceeds													
SRF Drawdowns													
Other, SALE of Equip													
Total Resources	16,200,000						1,200,000	15,000,000	7,000,000	(1,000,000)	(1,000,000)	(1,000,000)	
ENDING BALANCE	(1,000,000)	0	0	0	0	0	0	7,000,000	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	0

Description:

A supplemental equalization basin will be constructed near the current Westside Basin to handle additional flows from the western area of WRA's conveyance system.

Justification:

Scheduling:

Study: F10, Design: F11, Construction to begin in F12.

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Update.

Study and Design can be funded from an SRF P&D loan. IUP is on file

Operating Budget Effect:

This project will be needed to reduce the load from the western area on the conveyance system.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRA Saylor Equalization Basin - additional basin in the north						AG267 WRA990000 WRA101
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F17
							F12	F13	F14	F15	F16	F17	
Expenses	10,200,000							200,000	5,000,000	5,000,000			
Beginning Balance										5,000,000			
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	10,200,000							200,000	10,000,000				
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	10,200,000							200,000	10,000,000	5,000,000			
ENDING BALANCE	0	0	0	0	0	0	0	0	5,000,000	0	0	0	0

Description:

An additional equalization basin will be needed in the north to handle additional development and growth in the Saylor Creek Interceptor service area which includes a portion of

Polk County, Ankeny and all of Polk City when connected.

Justification:

Scheduling:

Study: F10/10, Design: F11/12, Construction to begin in F13.

Relationship to General Plan and Other Projects:

These improvements are not in the 2004 Facility Update.

Study and Design can be funded from an SRF P&D loan if other funding is not available.

Operating Budget Effect:

This project will be needed to reduce surcharges on the conveyance system.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRF Nutrient Removal P 1						AG267 WRA990000 WRAXXX
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2022
							F12	F13	F14	F15	F16	F17	
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.

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
Wastewater Reclamation Authority Improvements					WRA Common Trunk								AG267 WRA990000 WRAXXX
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F12	F13	F14	F15	F16	F17	FY2019
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 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Clive / USSD Joint Trunk								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F12	F13	F14	F15	F16	F17	FY2021
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:

Fiscal 2012/Fiscal 2017 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Birdland Pump Station								AG267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F09	ACTUAL COST IN F10	COST THROUGH F10	REVISED BUDGET F11	ESTIMATED COST THROUGH F11	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST FY2021
							F12	F13	F14	F15	F16	F17	
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: