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Summary

Wastewater Reclamation Authority Improvements

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	TOTAL ESTIMATED COST	COST THROUGH F04	REVISED ESTIMATE F05	TOTAL ESTIMATED COST THROUGH F05	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
						F06	F07	F08	F09	F10	F11	
Expenses, detail on following page	354,515,257	26,687,592	39,088,868	65,776,460	236,854,701	42,210,486	28,841,016	28,686,156	27,188,961	38,647,016	71,281,066	51,884,096
Resources:												
Beginning Balance	0	0	3,726,141	0		31,845,191	26,491,016	26,146,156	24,643,961	36,102,016	68,736,066	0
Interest Earnings	1,607,053	497,651	7,000	504,651	1,102,402	152,402	150,000	200,000	200,000	200,000	200,000	0
Renewal & Replacement Fund	13,808,147	7,365,008	1,965,784	9,330,792	4,477,355	4,477,355	0	0	0	0	0	0
Communities	24,584,465	8,889,192	2,020,273	10,909,465	13,675,000	2,100,000	2,200,000	2,340,000	2,345,000	2,345,000	2,345,000	0
SRF Drawdowns	15,725,939	14,278,180	966,259	15,244,439	481,500	481,500	0	0	0	0	0	0
Bond Proceeds	299,405,951	0	62,248,602	62,248,602	185,273,253	29,645,054	26,146,156	24,643,961	36,102,016	68,736,066	0	51,884,096
Other	(616,298)	(616,298)	0	(616,298)	0	0	0	0	0	0	0	0
Total Resources	354,515,257	30,413,733	70,934,059	97,621,651	205,009,510	68,701,502	54,987,172	53,330,117	63,290,977	107,383,082	71,281,066	51,884,096
the R&R fund loaned money on some projects during FY04												

WASTEWATER RECLAMATION AUTHORITY
 CIP Detail
 Fiscal Year 2006

Capital Improvement Project Expenses by Year

	Total Est. Project Cost	Costs through 04	Revised F05 Costs	Recomm. F06 Costs	Recomm. F07 Costs	
Core Projects						
wra 086	Des Moines River Outfall	44,083,192	909,831	7,415,895	-	6,479,763
wra 087	East 20th St. Connector	13,802,805	301,817	5,813,000	175,279	-
wra 084	Emission Reduction	(1) 6,689,807	-	762,307	5,527,500	-
wra 093	Flow Monitoring System	6,911,747	-	-	400,000	6,511,747
wra 088	Ingersoll Run Sewer	2,096,553	11,511	-	2,085,042	-
wra 077	Power Generation System	(1) 6,872,355	-	1,571,860	1,646,519	-
wra 080	Westside Basin Interceptor	(1) 6,313,068	-	554,658	5,735,000	-
	Subtotal Core Projects	86,769,527	1,223,159	16,117,720	15,569,340	12,991,510
Expansion Projects						
wra 085	Ankeny Four Mile Interceptor Ext.	16,503,386	324,853	5,636,147	3,851,265	-
wra 099	FourMI Interceptor Improv.	14,836,995	-	-	-	-
wra 095	Little Four Mile Int. South	(2) 3,662,000	-	2,306,000	1,356,000	-
wra 089	Little Four Mile Int. Ext.	1,677,000	-	687,000	990,000	-
wra 090	Middle Creek Trunk Sewer	4,093,346	-	1,109,000	1,265,000	-
wra 082	WDM Outfall	4,006,201	552,941	115,453	-	-
wra 092	WDM Outfall Ext.	11,482,344	-	1,017,522	-	2,699,901
	Subtotal Expansion Projects	56,261,272	877,794	10,871,122	7,462,265	2,699,901
wra 081	South West Area Diversion Facilities	71,336,960	401,923	3,469,211	9,410,255	10,799,605
Future Projects						
	WRF Nutrient Removal	25,824,409				
	Mud Creek Interceptor	8,715,738				
	Combined Sewer Solids Separation	39,855,755				
	Subtotal Future Projects	74,395,902				
	Total Bonded Project Costs	288,763,661	2,502,876	30,458,053	32,441,860	26,491,016
Non-Bonded Projects						
wra 072	Aeration Blowers	1,512,355	174,645	312,355	1,025,355	-
wra 073	DeWatering System & Thickening Centrifuges	8,119,824	810,824	4,087,000	3,222,000	-
wra 074	Digester Gas System [also on Core Project list]	12,235,079	162,754	240,000	150,000	-
wra 068	Disinfection System	197,947	179,281	18,666	-	-
wra 063	Add Pers/ Residual Storage Facilities	18,212,866	17,694,779	518,087	-	-
wra 094	Asset Management	288,500	-	288,500	-	-
wra 084	Emission Reduction [also on Core Project list]		38,025	361,975		
wra 069	Facilities Plan Update	936,120	641,506	54,352	30,262	35,000
wra 078	Facilities Rehabilitation	2,960,600	75,593	205,007	330,000	350,000
wra 076	Hauled Waste Receiving Station	4,759,838	621,838	1,722,000	2,416,000	
wra 077	Power Generation System [also on Core Project list]		1,325,857	(709,381)	-	
wra 070	Process Equipment Replacement	5,217,691	1,672,437	300,254	745,000	500,000
wra 083	Small CIP current projects	2,755,776	723,767	1,082,000	950,009	-
wra 091	Small CIP future projects	8,315,000	-	-	850,000	1,465,000
wra 096	Transition Costs	240,000	40,000	150,000	50,000	-
wra 080	Westside Basin [also on Core Project list]		23,410			
	Total Non-Bonded Project Costs	65,751,596	24,184,716	8,630,815	9,768,626	2,350,000
	WRA Total Expenses for Projects	354,515,257	26,687,592	39,088,868	42,210,486	28,841,016
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(1) Some continuing projects will use bonding for a portion of future costs [therefore that project is listed twice].

(2) We anticipate adding Little Four Mile Int. South (WRA095) to the bonding scheduled for 3/1/2006.

WASTEWATER RECLAMATION AUTHORITY

CIP Detail

Fiscal Year 2006

Capital Improvement Project Resources

		Est. Costs through F06	Est. Funding through F06	R&R Funds		Community Contributions		SRF Drawdowns		Bond Proceeds	
				F05	F06	F05	F06	F05	F06	F05	F06
Core Projects											
wra 086	Des Moines River Outfall	8,325,726	14,805,490							8,325,726	6,479,764
wra 087	East 20th St. Connector	6,290,096	6,290,096							6,290,096	-
wra 084	Emission Reduction	6,289,807	6,289,658							6,289,658	-
wra 093	Flow Monitoring System	400,000	6,911,747							-	6,911,747
wra 088	Ingersoll Run Sewer	2,096,553	2,096,553							2,096,553	-
wra 077	Power Generation System	3,218,379	3,218,379							1,755,879	1,462,500 (3)
wra 080	Westside Basin Interceptor	6,289,658	6,289,658							6,289,658	-
Subtotal Core Projects		32,910,219	45,901,581 (1)	-	-	-	-	-	-	31,047,570	14,854,011
Expansion Projects											
wra 085	Ankeny Four Mile Interceptor Ext.	9,812,265	9,812,265							9,812,265	-
wra 099	FourMi Interceptor Improv.	-	-							-	-
wra 095	Little Four Mile Int. South	3,662,000	3,662,000							2,370,462	1,291,538 (3)
wra 089	Little Four Mile Int. Ext.	1,677,000	1,677,000							1,677,000	-
wra 090	Middle Creek Trunk Sewer	2,374,000	2,374,000							2,374,000	-
wra 082	WDM Outfall	668,394	668,394							668,394	-
wra 092	WDM Outfall Ext.	1,017,522	3,717,422							1,017,522	2,699,900
Subtotal Expansion Projects		19,211,181	21,911,081 (1)	-	-	-	-	-	-	17,919,643	3,991,438
wra 081	South West Area Diversion Facilities	13,281,389	24,080,994							13,281,389	10,799,605
Total Bonded Project Costs		65,402,789	91,893,656 (1)	-	-	-	-	-	-	62,248,602	29,645,054
										col 5	col 7
Non-Bonded Projects											
wra 072	Aeration Blowers	1,512,355	1,512,355	487,000	1,025,355						
wra 073	DeWatering System & Thickening Centrifuges	8,119,824	8,119,824	4,897,824	3,222,000						
wra 074	Digester Gas System [also on Core Project list]	552,754	552,754	402,754	150,000						
wra 068	Disinfection System	197,947	197,947	197,947	-						
wra 063	Add Pers/ Residual Storage Facilities	18,212,866	18,352,998	500,000	-	3,859,018	-	13,993,980	-		
wra 094	Asset Management	288,500	288,500			248,500	40,000				
wra 084	Emission Reduction [also on Core Project list]	400,000	400,000			400,000	-				
wra 069	Facilities Plan Update	726,120	726,120			625,620	100,500				
wra 078	Facilities Rehabilitation	610,600	560,600 (2)	280,600	80,000	-	200,000				
wra 076	Hauled Waste Receiving Station	4,759,838	4,753,145 (2)			3,021,186	-	1,250,459	481,500		
wra 077	Power Generation System [also on Core Project list]	616,476	616,476 (4)	616,476	-	-	-				
wra 070	Process Equipment Replacement	2,717,691	2,617,691 (2)	1,948,191	-	-	669,500				
wra 083	Small CIP current projects	2,755,776	2,732,000 (2)			2,732,000	-				
wra 091	Small CIP future projects	850,000	850,000			-	850,000				
wra 096	Transition Costs	240,000	240,000			-	240,000				
wra 080	Westside Basin [also on Core Project list]	23,410	23,141 (2)			23,141	-				
Total Non Bonded Project Costs		42,584,157	42,543,551	9,330,792	4,477,355	10,909,465	2,100,000	15,244,439	481,500		
WRA Total Expenses for Projects		107,986,946	134,437,207	9,330,792	4,477,355	10,909,465	2,100,000	15,244,439	481,500		
see Summary				col 5	col 7	col 5	col 7	col 5	col 7		

(1) Funding for costs of F04-06 and F07 will be done 10/28/2004 and 3/2006.

(2) Interest Earnings will also fund this project.

(3) Projects WRA077 and WRA095 will be added to the 3/2006 bond issue.

(4) The resources for WRA077 will be split between bonding and R&R.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE						ACCOUNT			
Wastewater Reclamation Authority Improvements				WRF Additional Personnel and Residuals Facilities-Wastewater Treatment Plant						EN267 WRA990000 WRA063			
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F11	
							F06	F07	F08	F09	F10		F11
Expenses	18,212,866	15,303,521	2,391,258	17,694,779	518,087	18,212,866							
Beginning Balance					(13,672)								
Interest Earnings	476,166	476,166		476,166		476,166							
Repair and Replacement Fund	500,000		768,241	768,241	(268,241)	500,000							
Communities	3,859,018	3,059,018		3,059,018	800,000	3,859,018							
SRF Drawdowns	13,993,980	13,993,980		13,993,980		13,993,980							
Bond Proceeds													
Other	(616,298)	(616,298)		(616,298)		(616,298)							
Total Resources	18,212,866	16,912,866	768,241	17,681,107	518,087	18,212,866							
ENDING BALANCE	0	1,609,345	(1,623,017)	(13,672)	0	0	0	0	0	0	0	0	0

Description:

This project provides for additional Wastewater Treatment Plant facilities to accommodate additional personnel and residuals storage needs. Costs associated with the acquisition of properties are included in the F05 expenses. These costs were incurred in F03 and F04 and paid for with Repair and Replacement funds. F05 community contributions will reimburse the Repair and Replacement funds. The reimbursement will be under the existing WRF ownership allocation formula.

Justification:

Changes in federal and state regulations require residuals storage facilities that provide adequate storage.

Scheduling:

The Laboratory and Personnel Facilities were completed in F01. The Biosolids Storage Facility was be completed in F03. The Chesterfield property acquisition was completed in F04.

Relationship to General Plan and Other Projects:

None

Operating Budget Effect:

Reduce operations and maintenance costs.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					WRA Asset Management						EN267 WRA990000 WRA094		
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	288,500				288,500	288,500							
Beginning Balance							(40,000)						
Interest Earnings													
Repair and Replacement Fund													
Communities	288,500				248,500	248,500	40,000						
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	288,500				248,500	248,500							
ENDING BALANCE	0	0	0	0	(40,000)	(40,000)	0	0	0	0	0	0	0

Description: Implementation of asset management for Wastewater Reclamation Authority assets. Phase 1 will implement asset management at the wastewater reclamation facility. Phase 2 will implement the collection system, pump stations and equalization facilities. The asset management will utilize an existing module within the Datastream software.

Justification:
This project will provide cost and replacement data for more effective management of WRA assets.

Scheduling:
Phase 1: F05, Phase 2:
F06

Relationship to General Plan and Other Projects:
None.

Operating Budget Effect:
None.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Hauled Waste Receiving Station								EN267 WRA990000 WRA076	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F11	
							F06	F07	F08	F09	F10		F11
Expenses	4,759,838	294,661	327,177	621,838	1,722,000	2,343,838	2,416,000						
Beginning Balance					2,593,468	2,343,838	1,934,500						
Interest Earnings	6,693	949	5,744	6,693		6,693							
Repair and Replacement Fund													
Communities	3,021,186	620,000	2,304,413	2,924,413	96,773	3,021,186							
SRF Drawdowns #7	1,731,959	284,200		284,200	966,259	1,250,459	481,500						
Bond Proceeds													
Other													
Total Resources	4,759,838	905,149	2,310,157	3,215,306	3,656,500	4,278,338	2,416,000						
ENDING BALANCE	0	610,488	1,982,980	2,593,468	1,934,500	1,934,500	0	0	0	0	0	0	0

Description:

This project will increase the efficiency and make necessary safety improvements for waste loads brought into the WRF by industrial and municipal customers. The project includes facilities for septic haulers and industrial tank trucks. Costs incurred in F05 will be allocated under the current allocation formula.

Justification:

Improvements to these facilities have the potential to increase revenues and will improve the safety of employees and industrial customers.

Scheduling:

Design in F04. Construction in F05 and F06.

Relationship to General Plan and Other Projects:

This project was combined with the WRF Dewatering and Thickening Improvements for construction

Operating Budget Effect:

Will result in increased revenues and decreased costs.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Aeration Blowers								EN267 WRA990000 WRA072		
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11	
							F06	F07	F08	F09	F10	F11		
Expenses	1,512,355	33,502	141,143	174,645	312,355	487,000	1,025,355							
Beginning Balance														
Interest Earnings														
Repair and Replacement Fund Communities	1,512,355	33,502	141,143	174,645	312,355	487,000	1,025,355							
SRF Drawdowns														
Bond Proceeds														
Other														
Total Resources	1,512,355	33,502	141,143	174,645	312,355	487,000	1,025,355							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

The preliminary design completed in F04 recommended that one blower be modified to operate more efficiently and install modified controls to reduce air flow in passes three and four of each basin. More efficient use of air will provide energy savings. The study also looked at several alternatives for using digester gas and it was determined that an additional generator be installed as an alternative to a gas powered engine drive blower. The generator will be installed as part of the WRF Power Generation System Improvements. F05 and F06 costs incurred will be allocated under the current allocation formula.

Justification:

Current blowers operate in the minimum range with 2000 HP motors that waste energy and prevent process control adjustments.

Scheduling:

The preliminary design was completed in F04. Final design and construction will take place in FY05/06 .

Relationship to General Plan and Other Projects:

None

Operating Budget Effect:

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

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Dewatering and Thickening System								EN267 WRA990000 WRA073		
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11	
							F06	F07	F08	F09	F10	F11		
Expenses	8,119,824	147,260	663,564	810,824	4,087,000	4,897,824	3,222,000							
Beginning Balance														
Interest Earnings														
Repair and Replacement Fund	8,119,824	147,260	663,564	810,824	4,087,000	4,897,824	3,222,000							
Communities														
SRF Drawdowns														
Bond Proceeds														
Other														
Total Resources	8,119,824	147,260	663,564	810,824	4,087,000	4,897,824	3,222,000							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

Replacement of dewatering presses and thickening centrifuges and polymer feed system with more efficient equipment. Costs incurred in F05 will be allocated under the current allocation formula.

Justification:

The belt filter presses used to dewater biosolids utilize outdated technology, require significant maintenance and do not produce the desired cake. Land application costs \$25,000 per year per percent cake solids. The current centrifuges operate at minimum speed, do not allow sufficient control, and expend additional energy. The dewatering system and thickening centrifuge replacement projects have been combined. Thickening centrifuges will be replaced with more efficient rotary drum thickeners.

Scheduling:

The study was completed in F01 (Small Capital Projects). On site equipment testing was conducted in F02 and F03. Design was completed in F04 with construction in F05 and F06.

Relationship to General Plan and Other Projects:

This project was combined with the WRF Hauled Waste Receiving Station for construction.

Operating Budget Effect:

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

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Process Equipment Replacement								EN267 WRA990000 WRA070	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	5,217,691	410,319	1,262,118	1,672,437	300,254	1,972,691	745,000	500,000	500,000	500,000	500,000	500,000	
Beginning Balance					(102,139)		(24,500)						
Interest Earnings	600,000						100,000	100,000	100,000	100,000	100,000	100,000	
Repair and Replacement Fund	1,948,191	410,319	1,159,979	1,570,298	377,893	1,948,191		100,000	100,000	100,000	100,000	100,000	
Communities	2,669,500						669,500	400,000	400,000	400,000	400,000	400,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	5,217,691	410,319	1,159,979	1,570,298	275,754	1,948,191	745,000	500,000	500,000	500,000	500,000	500,000	
ENDING BALANCE	0	0	(102,139)	(102,139)	(24,500)	(24,500)	0	0	0	0	0	0	0

Description:
Renewal and replacement of existing process equipment.

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:
F04: Digester Heat control Valves, Digestter Feed Control Valves, Blended sludge flow Meters, Digested Sludge pump VFD's, 50,51,52 Waste Flow Meters, Dewatering Wetwell repair, Primary sludge pump controls, 65 Valve Actuator, Unanticipated needs
F05: Digested sludge recirculation pumps, Membrane dryer, Digester feed valve controller, Digester lobe flow pumps.
F06: Chlorintor replacement, Laboratory Air Conditioning and Humidity control, Replacement of acid digestion fume hood control and portable samplers, Gas burner system replacement, primary sludge pumps, Bldg 20/21 air dryers, Exhaust gas heat exchangers.

Relationship to General Plan and Other Projects:
This project will receive the first \$100,000 of interest earnings from the \$10,000,000 R&R balance up to half of the interest earnings; the remainder will be applied to WRA078.

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

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Digester Gas System								EN267 WRA990000 WRA074		
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11	
							F06	F07	F08	F09	F10	F11		
Expenses	12,235,079	159,754	3,000	162,754	240,000	402,754	150,000		11,682,325					
Beginning Balance									11,682,325					
Interest Earnings														
Repair and Replacement Fund Communities	552,754	159,754	3,000	162,754	240,000	402,754	150,000							
SRF Drawdowns														
Bond Proceeds	11,682,325								11,682,325					
Other														
Total Resources	12,235,079	159,754	3,000	162,754	240,000	402,754	150,000	11,682,325	11,682,325					
ENDING BALANCE	0	0	0	0	0	0	0	11,682,325	0	0	0	0	0	0

Description:

Piping from the digesters to the engine generators was replaced in F02/F03. F04 and F05 Improvements will increase flaring capacity. F05 improvements will be funded from the R&R fund. F08 improvements will be funded as a core project.

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 F05 with construction in F06 through F08. A project to replace the piping from the digesters to the power generation building was designed and constructed in F02 and F03. F04 and F05 efforts will focus on the flaring system.

Relationship to General Plan and Other Projects:

None

Operating Budget Effect:

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

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Disinfection							EN267 WRA990000 WRA068		
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F11	
							F06	F07	F08	F09	F10		F11
Expenses	197,947	177,007	2,274	179,281	18,666	197,947							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund	197,947	177,007	2,274	179,281	18,666	197,947							
Communities													
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	197,947	177,007	2,274	179,281	18,666	197,947							
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:

Improvements to the disinfection system to lower O&M costs and reduce the risk posed by the current system. In FY05 additional equipment was required to provide redundancy.

Justification:

This project is required to update the disinfectin system.

Scheduling:

The study was completed in FY02. Risk management improvements will be made in FY03.

Relationship to General Plan and Other Projects:

None

Operating Budget Effect:

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Facilities Rehabilitation								EN267 WRA990000 WRA078	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	2,960,600	7,685	67,908	75,593	205,007	280,600	330,000	350,000	500,000	500,000	500,000	500,000	
Beginning Balance					(2,990)								
Interest Earnings	500,000						50,000	50,000	100,000	100,000	100,000	100,000	
Repair and Replacement Fund	360,600	11,497	61,106	72,603	207,997	280,600	80,000	300,000	400,000	400,000	400,000	400,000	
Communities	2,100,000						200,000	300,000	400,000	400,000	400,000	400,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	2,960,600	11,497	61,106	72,603	205,007	280,600	330,000	350,000	500,000	500,000	500,000	500,000	
ENDING BALANCE	0	3,812	(6,802)	(2,990)	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:
 F03: WRF Skylight Replacement; Bldg 20, 21 Roof Replacement; Bldg 92 Shower Replacement.
 F05: Roof Replacement on Buildings 75, 50, 51 and 52, and HVAC Improvements.
 F06: Roof Replacement on Buildings 45-1,2,3,4 and 80-1,2,3 and HVAC Improvements.

Relationship to General Plan and Other Projects:
 This project will receive a portion of the interest earnings from the \$10,000,000 R&R balance; WRA070 will receive the first \$100,000 or half interest earnings.

Operating Budget Effect:
 These projects will reduce operations and maintenance costs in future years.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Power Generation System								EN267 WRA990000 WRA077	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	6,872,355	136,476	1,189,381	1,325,857	862,479	2,188,336	1,646,519					3,037,500	
Beginning Balance					(202,371)		184,019					3,037,500	
Interest Earnings					(507,010)	616,476							
Repair and Replacement Fund Communities	616,476	136,476	987,010	1,123,486	(507,010)	616,476							
SRF Drawdowns													
Bond Proceeds	6,255,879				1,755,879	1,755,879	1,462,500				3,037,500		
Other													
Total Resources	6,872,355	136,476	987,010	1,123,486	1,046,498	2,372,355	1,646,519				3,037,500	3,037,500	
ENDING BALANCE	0	0	(202,371)	(202,371)	184,019	184,019	0	0	0	3,037,500	0	0	0

Description:

FY03 and FY04 expenditures are for overhauling the engine drive system and replacing controls and heat recovery improvements. F05 expenditures are for adding an additional generator. The cost allocation for the F05 improvements will be in accordance with the existing cost allocation. F10 improvements will be funded with R&R funds.

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. An additional generator will allow electrical production to continue during periodic maintenance shutdowns.

Scheduling:

Conduct a study in F01 with design in F03 and construction in F04-F05. F10 costs are for replacement of the three superior generators. The completed study will provide more information on project implementation.

Relationship to General Plan and Other Projects:

The costs in F06 are included in the facility plan; costs in F04, F05, and F10 will be added to future bond issues (above the bonding in the facility plan).

Operating Budget Effect:

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

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							WRA Facility Plan Update						EN267 WRA990000 WRA069
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	936,120	551,548	89,958	641,506	54,352	695,858	30,262	35,000	40,000	45,000	45,000	45,000	
Beginning Balance					(40,886)		(70,238)						
Interest Earnings													
Repair and Replacement Fund Communities	936,120	505,093	95,527	600,620	25,000	625,620	100,500	35,000	40,000	45,000	45,000	45,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	936,120	505,093	95,527	600,620	(15,886)	625,620	30,262	35,000	40,000	45,000	45,000	45,000	
ENDING BALANCE	0	(46,455)	5,569	(40,886)	(70,238)	(70,238)	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.

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:
This project will identifies expansion and core projects that will increase the WRA capital assets.

Operating Budget Effect:
The size and number of facilities will increase. Proportionate shares will change and the number of contributing communities will increase.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA West Side Interceptor Basin								EN267 WRA990000 WRA080	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	6,313,068	23,410		23,410	554,658	578,068	5,735,000						
Beginning Balance							5,735,000						
Interest Earnings	269		269	269		269							
Repair and Replacement Fund Communities	23,141	50,000	(26,859)	23,141		23,141							
SRF Drawdowns													
Bond Proceeds	6,289,658				6,289,658	6,289,658							
Other													
Total Resources	6,313,068	50,000	(26,590)	23,410	6,289,658	6,313,068	5,735,000						
ENDING BALANCE	0	26,590	(26,590)	0	5,735,000	5,735,000	0	0	0	0	0	0	0

Description:

This is a WRA core project. The project will increase the capacity of the pump station and replace controls and associated equipment.

Justification:

The existing equipment is aging and has been exposed to harsh operating conditions. This equipment will need to be replaced with equipment that is state of the art and provides additional capacity to continue to provide an acceptable level of service and maintain current levels of operations and maintenance costs.

Scheduling:

Variable Frequency Drive replaced in FY03, Increased pumping capacity design in FY05/06, construction in FY06.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Increase revenues and operations and maintenance costs.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				SouthWest Area Diversion Facilities								EN267 WRA990000 WRA081	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	71,336,960		401,923	401,923	3,469,211	3,871,134	9,410,255	10,799,605		22,924,615		24,331,351	
Beginning Balance							9,410,255	10,799,605		22,924,615		24,331,351	
Interest Earnings													
Repair and Replacement Fund			401,923	401,923	(401,923)								
Communities													
SRF Drawdowns													
Bond Proceeds	71,336,960				13,281,389	13,281,389	10,799,605		22,924,615		24,331,351		
Other													
Total Resources	71,336,960		401,923	401,923	12,879,466	13,281,389	20,209,860	10,799,605	22,924,615	22,924,615	24,331,351	24,331,351	
ENDING BALANCE	0	0	0	0	9,410,255	9,410,255	10,799,605	0	22,924,615	0	24,331,351	0	0

Description: This is a 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.

Justification:

This project is necessary to provide flow equalization at the wastewater reclamation facility and a connection to the WRA system for the City of Norwalk.

Scheduling:

The time sensitive reach will be designed in F04 and constructed in F05. Flow equalization facilities will be constructed in F08 and F09. The North River Interceptor will be designed in F05/06 and constructed in F06/07. The pump station, force main, flow equalization and interceptors will be constructed in F08 and F09.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

This project will increase revenues and operations and maintenance costs.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				West Des Moines Outfall								EN267 WRA990000 WRA082	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F11	
							F06	F07	F08	F09	F10		F11
Expenses	4,006,201		552,941	552,941	115,453	668,394			3,337,807				
Beginning Balance									3,337,807				
Interest Earnings													
Repair and Replacement Fund Communities			552,941	552,941	(552,941)								
SRF Drawdowns													
Bond Proceeds	4,006,201				668,394	668,394		3,337,807					
Other													
Total Resources	4,006,201		552,941	552,941	115,453	668,394		3,337,807	3,337,807				
ENDING BALANCE	0	0	0	0	0	0	0	3,337,807	0	0	0	0	0

Description: Expansion Project. Phase 1: 1st Street to 4th Street, Phase 2: 4th Street to South 16th Street. This project increases the capacity of the West Des Moines Outfall and provides service to new areas. F04 activities utilized R&R funds. F05 community contributions will repay the R&R fund.

Justification:

As service is provided to new customers the capacity of the sewer must be increased.

Scheduling:

Phase 1: Design F04, construction F04. Phase 2: Design F08: Construction F08.

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 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
Wastewater Reclamation Authority Improvements				WRF Small Capital Projects FY05 and past								EN267 WRA990000 WRA083		
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11	
							F06	F07	F08	F09	F10	F11		
Expenses	2,755,776	26,070	697,697	723,767	1,082,000	1,805,767	950,009							
Beginning Balance					1,172,607		947,607							
Interest Earnings	23,776		14,374	14,374	7,000	21,374	2,402							
Repair and Replacement Fund Communities	2,732,000	850,000	1,032,000	1,882,000	850,000	2,732,000								
SRF Drawdowns														
Bond Proceeds														
Other														
Total Resources	2,755,776	850,000	1,046,374	1,896,374	2,029,607	2,753,374	950,009							
ENDING BALANCE	0	823,930	348,677	1,172,607	947,607	947,607	0	0	0	0	0	0	0	0

Description:

This project provides for certain modifications and additions to the Wastewater Reclamation Facility to improve the operations and maintenance aspects of certain equipment and processes and to provide safety improvements. Improvements for this FY include Primary effluent clarifier launder modifications, Bar Screen Discharge modifications, lighting modifications, centrifuge valve modifications, laboratory door automation, W3 extension and unanticipated needs for process and safety modifications.

Justification:

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

Scheduling:

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements					WRF Emission Reduction								EN267 WRA990000 WRA084	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11	
							F06	F07	F08	F09	F10	F11		
Expenses	6,689,807		38,025	38,025	1,124,282	1,162,307	5,527,500							
Beginning Balance					362,124		5,527,500							
Interest Earnings	149		149	149		149								
Repair and Replacement Fund Communities	400,000		400,000	400,000		400,000								
SRF Drawdowns														
Bond Proceeds	6,289,658				6,289,658	6,289,658								
Other														
Total Resources	6,689,807		400,149	400,149	6,651,782	6,689,807	5,527,500							
ENDING BALANCE	0	0	362,124	362,124	5,527,500	5,527,500	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 will be completed in F05. Construction of the facilities will begin in F06. 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.

Justification:

The WRF must comply with regulations regarding emissions

Scheduling:

Design FY05. Construction will be scheduled in F06.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

This project will increase the operating budget.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				Ankeny Four Mile Interceptor Extension								EN267 WRA990000 WRA085	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F11	
							F06	F07	F08	F09	F10		F11
Expenses	16,503,386		324,853	324,853	5,636,147	5,961,000	3,851,265					6,691,121	
Beginning Balance							3,851,265					6,691,121	
Interest Earnings													
Repair and Replacement Fund Communities			324,853	324,853	(324,853)								
SRF Drawdowns													
Bond Proceeds	16,503,386				9,812,265	9,812,265					6,691,121		
Other													
Total Resources	16,503,386		324,853	324,853	9,487,412	9,812,265	3,851,265				6,691,121	6,691,121	
ENDING BALANCE	0	0	0	0	3,851,265	3,851,265	0	0	0	0	6,691,121	0	0

Description: Expansion Project.

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

Phase 2: NE 29th Street south of Oralabor Road to Southeast Waster Pollution Control Plant north of Magazine Road.

This project was initially funded using R&R funds. The R&R funds will be repaid in F05.

Justification:

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

Scheduling:

Phase 1: Design-F04/05, Construction-F05/06. Phase 2: Design-F10, Construction-F10.

Relationship to General Plan and Other Projects:

The Four Mile Interceptor Improvements will provide a full size downstream connection for this facility. This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Des Moines River Outfall										EN267 WRA990000 WRA086	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	44,083,192		909,831	909,831	7,415,895	8,325,726		6,479,763	5,563,012		3,542,627	10,340,824	9,831,240
Beginning Balance								6,479,763	5,563,012		3,542,627	10,340,824	
Interest Earnings													
Repair and Replacement Fund Communities			909,831	909,831	(909,831)								
SRF Drawdowns													
Bond Proceeds	44,083,192				8,325,726	8,325,726	6,479,763	5,563,012		3,542,627	10,340,824		9,831,240
Other													
Total Resources	44,083,192		909,831	909,831	7,415,895	8,325,726	6,479,763	12,042,775	5,563,012	3,542,627	13,883,451	10,340,824	9,831,240
ENDING BALANCE	0	0	0	0	0	0	6,479,763	5,563,012	0	3,542,627	10,340,824	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 Racoon Street to the south side of Scott Avenue, a river crossing from the west side to the east side of the Des moines River, and a new combined sewer overflow structure with a pump station. This will help to mmet the nine minimum requirements in the current NPDES permit. Phase 4 will include solids separation. Funds expended prior to F05 will be reimbursed by the WRA.

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

Scheduling:
 Phase1: Design-F04, Construction F04/05. Phase 2: Design-F05, Construction-F06. Phase 3: Design F06, Construction-F07. Phase 4: Design-F07, Construction-F08.

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

Operating Budget Effect:
 None.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		East 20th Street Connector										EN267 WRA990000 WRA087	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	13,802,805		301,817	301,817	5,813,000	6,114,817	175,279						7,512,709
Beginning Balance							175,279						
Interest Earnings													
Repair and Replacement Fund Communities			301,817	301,817	(301,817)								
SRF Drawdowns													
Bond Proceeds	13,802,805				6,290,096	6,290,096							7,512,709
Other													
Total Resources	13,802,805		301,817	301,817	5,988,279	6,290,096	175,279						7,512,709
ENDING BALANCE	0	0	0	0	175,279	175,279	0	0	0	0	0	0	0

Description: Core Project.
 This project provides for construction of approximately 7,000 feet of 66-inch and 3,100 feet of 36-inch sanitary trunk sewer in the area from East 20th Street, north of Dean Avenue to the Wastewater Reclamation Facility at Southeast 30th Street and Vandalia Road. This will direct separate sanitary sewer flow from the East 20th Street Interceptor to the Wastewater Reclamation Authority, which should reduce basement backups in the Logan area and the amount and frequency of discharges from the combined sewer overflows. City of Des Moines funds expended prior to F05 will be reimbursed by the WRA.

Justification:
 Needed to conform to NPDES requirements and reduce wet weather events at the WRF.

Scheduling:
 Design-F04, Construction-F04/05.

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

Operating Budget Effect:
 Will reduce wet weather flows at the wastewater reclamation facility.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Ingersoll Run Combined Sewer										EN267 WRA990000 WRA088	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	2,096,553		11,511	11,511		11,511	2,085,042						
Beginning Balance							2,085,042						
Interest Earnings													
Repair and Replacement Fund Communities			11,511	11,511	(11,511)								
SRF Drawdowns													
Bond Proceeds	2,096,553				2,096,553	2,096,553							
Other													
Total Resources	2,096,553		11,511	11,511	2,085,042	2,096,553	2,085,042						
ENDING BALANCE	0	0	0	0	2,085,042	2,085,042	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, which was issued to the City of Des Moines in December of 2001.

Justification:
 Needed to conform to NPDES requirements.

Scheduling:
 Design-F06, Construction-F07.

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

Operating Budget Effect:
 None.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Little Four Mile Interceptor Extension						EN267 WRA990000 WRA089		
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	1,677,000				687,000	687,000	990,000						
Beginning Balance							990,000						
Interest Earnings													
Repair and Replacement Fund													
Communities													
SRF Drawdowns													
Bond Proceeds	1,677,000				1,677,000	1,677,000							
Other													
Total Resources	1,677,000				1,677,000	1,677,000	990,000						
ENDING BALANCE	0	0	0	0	990,000	990,000	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:F05/06.

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 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Middle Creek Trunk Sewer Extension										EN267 WRA990000 WRA090	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	4,093,346				1,109,000	1,109,000	1,265,000			1,719,346			
Beginning Balance							1,265,000			1,719,346			
Interest Earnings													
Repair and Replacement Fund													
Communities													
SRF Drawdowns													
Bond Proceeds	4,093,346				2,374,000	2,374,000			1,719,346				
Other													
Total Resources	4,093,346				2,374,000	2,374,000	1,265,000		1,719,346	1,719,346			
ENDING BALANCE	0	0	0	0	1,265,000	1,265,000	0	0	1,719,346	0	0	0	0

Description: Expansion project.

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

Phase 2: Extends WRA service west to the City of Cumming.

Justification:

This project will increase the service area for Norwalk and Cumming.

Scheduling:

Phase 1: Design, F05. Construction, F05/06.

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 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					WRF Small Capital Projects							EN267 WRA990000 WRA091	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	8,315,000						850,000	1,465,000	1,500,000	1,500,000	1,500,000	1,500,000	
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities	8,315,000						850,000	1,465,000	1,500,000	1,500,000	1,500,000	1,500,000	
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	8,315,000						850,000	1,465,000	1,500,000	1,500,000	1,500,000	1,500,000	
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description:
Grinders for recirculation pumps, process cameras, roughing filter drive, pave levee road, redundant ethernet network for business and control network, wireless network and unanticipated needs.

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

Scheduling:

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2006/Fiscal 2011 Capital Improvements Program

Fiscal 2006/Fiscal 2011 Capital Improvements Program													
PROJECT CATEGORY						PROJECT TITLE						ACCOUNT	
Wastewater Reclamation Authority Improvements						West Des Moines Outfall Extension						EN267 WRA990000 WRA092	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	11,482,344				1,017,522	1,017,522		2,699,901			4,723,502	3,041,419	
Beginning Balance								2,699,901			4,723,502	3,041,419	
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	11,482,344				1,017,522	1,017,522	2,699,901			4,723,502	3,041,419		
Other													
Total Resources	11,482,344				1,017,522	1,017,522	2,699,901	2,699,901		4,723,502	7,764,921	3,041,419	
ENDING BALANCE	0	0	0	0	0	0	2,699,901	0	0	4,723,502	3,041,419	0	0

Description: Expansion Project.
 This project will increase the service area and capacity of the West Des Moines Outfall. West Des Moines expenditures prior to F05 will be reimbursed by the WRA.
 Phase 1-60th Street to 74th Street.
 Phase 2-South 35th Street to 60th Street.
 Phase 3-74th Street to Interstate 80.
 Phase 4- South 16th Street to South 35th Street.

Justification:
 Development From 60th Street to 74th requires increasing the service area and capacity.

Scheduling:
 Phase 1: Design-F04, Construction-F04. Phase 2: Design-F07, Construction-F07. Phase 3: Design-F10, Construction-F10. Phase 4: Design-F16, Construction F16.

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 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRA Flow Monitoring System Improvements								EN267 WRA990000 WRA093	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST BEYOND F11	
							F06	F07	F08	F09	F10		F11
Expenses	6,911,747						400,000	6,511,747					
Beginning Balance								6,511,747					
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	6,911,747						6,911,747						
Other													
Total Resources	6,911,747						6,911,747	6,511,747					
ENDING BALANCE	0	0	0	0	0	0	6,511,747	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.

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:

Replacement in FY06 and FY07.

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 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements					Little Four Mile Interceptor-South Branch							EN267 WRA990000 WRA095	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	F11
Expenses	3,662,000				2,306,000	2,306,000	1,356,000						
Beginning Balance							64,462						
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	3,662,000				2,370,462	2,370,462	1,291,538						
Other													
Total Resources	3,662,000				2,370,462	2,370,462	1,356,000						
ENDING BALANCE	0	0	0	0	64,462	64,462	0	0	0	0	0	0	0

Description: Expansion project.

This project will provide a connection to the Little Four Mile Interceptor near NE 27th Avenue on the east side of Highway 65. The sewer will extend easterly along a draw located northerly of the NE 27th Avenue corridor. The east end of the sewer will be located west of NE 80th Street. The Mud Creek sewer will start at the eastern terminus of the Little Four Mile Interceptor-South Branch.

Justification:

Required to provide capacity for the Mud Creek area in Altoona and as a connection to the Little Four Mile Sewer.

Scheduling:

Phase 1: Design-F05, Construction-F05/F06.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and expenses will increase as flows increase.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

Fiscal 2006/Fiscal 2011 Capital Improvements Program													
PROJECT CATEGORY						PROJECT TITLE						ACCOUNT	
Wastewater Reclamation Authority Improvements						WRA Transition Costs						EN267 WRA990000 WRA096	
	TOTAL	COST	ACTUAL	COST	REVISED	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST	
	ESTIMATED	THROUGH	COST IN	THROUGH	BUDGET	COST THROUGH	F06	F07	F08	F09	F10	F11	BEYOND
	COST	F03	F04	F04	F05	F05							F11
Expenses	240,000		40,000	40,000	150,000	190,000	50,000						
Beginning Balance					(40,000)		(190,000)						
Interest Earnings													
Repair and Replacement Fund													
Communities	240,000						240,000						
SRF Drawdowns													
Bond Proceeds													
Other													
Total Resources	240,000				(40,000)		50,000						
ENDING BALANCE	0	0	(40,000)	(40,000)	(190,000)	(190,000)	0	0	0	0	0	0	0

Description:

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

Justification:

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

Scheduling:

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

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2006/Fiscal 2011 Capital Improvements Program													
PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							Four Mile Interceptor Improvements						EN267 WRA990000 WRA0xx
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	F11
Expenses	14,836,995								1,668,904		7,085,253	6,082,838	
Beginning Balance									1,668,904		7,085,253	6,082,838	
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	14,836,995							1,668,904		7,085,253	6,082,838		
Other													
Total Resources	14,836,995							1,668,904	1,668,904	7,085,253	13,168,091	6,082,838	
ENDING BALANCE	0	0	0	0	0	0	0	1,668,904	0	7,085,253	6,082,838	0	0
<p>Description: Expansion Project. Phase 1: Wastewater Reclamation Facility to University Avenue. Phase 2: University Avenue to Broadway.</p> <p>Justification: New communities contributing flow to the WRF will require that the capacity of the Four Mile Interceptor be increased.</p> <p>Scheduling: Phase 1: Design-F07, Construction-F09. Phase 2: Design-F09, Construction-F10.</p> <p>Relationship to General Plan and Other Projects: This project is included in the WRA Facility Plan Update. Phase 1 and 2 must be completed prior to completion of the Four Mile Interceptor Extension.</p> <p>Operating Budget Effect: Revenues and operations and maintenance costs will increase.</p>													

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
Wastewater Reclamation Authority Improvements							Combined Sewer Solids Separation						EN267 WRA990000 WRAXXX
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	39,855,755								3,894,108		17,713,134	18,248,513	
Beginning Balance									3,894,108		17,713,134	18,248,513	
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	39,855,755							3,894,108		17,713,134	18,248,513		
Other													
Total Resources	39,855,755							3,894,108	3,894,108	17,713,134	35,961,647	18,248,513	
ENDING BALANCE	0	0	0	0	0	0	0	3,894,108	0	17,713,134	18,248,513	0	0

Description: Core Project

This project provides for separation and disinfection 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.

Scheduling:

Design-F08 through F10, Construction F08 through F10.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
Wastewater Reclamation Authority Improvements		Mud Creek Interceptor										EN267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	8,715,738												8,715,738
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities													
SRF Drawdowns													
Bond Proceeds	8,715,738												8,715,738
Other													
Total Resources	8,715,738												8,715,738
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Expansion project.

This project will provide service to the Mud Creek area in Altoona and eventually serv as the bondurant connection to the WRA system.

Justification:

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

Scheduling:

Phase 1: Design-F13, Construction-F13/14.

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

Revenues and expenses will increase as flows increase.

Fiscal 2006/Fiscal 2011 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
Wastewater Reclamation Authority Improvements				WRF Nutrient Removal								EN267 WRA990000 WRAXXX	
	TOTAL ESTIMATED COST	COST THROUGH F03	ACTUAL COST IN F04	COST THROUGH F04	REVISED BUDGET F05	ESTIMATED COST THROUGH F05	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F11
							F06	F07	F08	F09	F10	F11	
Expenses	25,824,409												25,824,409
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
SRF Drawdowns													
Bond Proceeds	25,824,409												25,824,409
Other													
Total Resources	25,824,409												25,824,409
ENDING BALANCE	0	0	0	0	0	0	0	0	0	0	0	0	0

Description: Core Project.

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

Justification:

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

Scheduling:

As required by federal and state regulations .

Relationship to General Plan and Other Projects:

This project is included in the WRA Facility Plan Update.

Operating Budget Effect:

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