

## Summary Wastewater Reclamation Authority Improvements

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

	TOTAL ESTIMATED COST	COST THROUGH F07	REVISED ESTIMATE F08	TOTAL ESTIMATED COST THROUGH F08	COST FOR SIX-YEAR PERIOD	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
						F09	F10	F11	F12	F13	F14	
<b>Expenses</b> , detail on following page	462,384,284	71,040,714	49,898,745	120,939,459	247,533,131	74,534,235	74,058,505	74,866,391	2,550,000	18,974,000	2,550,000	93,911,694
<b>Resources:</b>												
Beginning Balance	0	0	43,372,566	0		23,962,635	37,377,157	64,446,047	(2,650,000)	(2,650,000)	(2,650,000)	0
Interest Earnings	1,293,128	273,813	116,000	389,813	903,315	153,315	150,000	150,000	150,000	150,000	150,000	0
Renewal & Replacement Fund	6,037,338	5,346,244	691,094	6,037,338	0	0	0	0	0	0	0	0
Communities	27,488,390	11,068,390	2,220,000	13,288,390	14,200,000	2,300,000	2,350,000	2,350,000	2,400,000	2,400,000	2,400,000	0
Future Funding	296,728,875	(3,000,000)	0	(3,000,000)	205,817,181	85,495,442	98,627,395	5,270,344	0	16,424,000	0	93,911,694
Bond Proceeds	98,943,754	98,943,754	0	98,943,754	0	0	0	0	0	0	0	0
SRF Drawdowns	32,730,680	1,923,960	30,806,720	32,730,680	0	0	0	0	0	0	0	0
Other	(837,881)	(142,881)	(3,345,000)	(3,487,881)	0	0	0	0	0	0	0	2,650,000
<b>Total Resources</b>	<b>462,384,284</b>	<b>114,413,280</b>	<b>73,861,380</b>	<b>144,902,094</b>	<b>220,920,496</b>	<b>111,911,392</b>	<b>138,504,552</b>	<b>72,216,391</b>	<b>(100,000)</b>	<b>16,324,000</b>	<b>(100,000)</b>	<b>96,561,694</b>

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

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>			2008 BOOK	2008 FILE	2009 FILE	
wra 086	Des Moines River Outfall / Main Outfall	P 17	45,185,489	45,185,489	44,885,489	(300,000)
wra 087	East 20th St. Connector current	*	6,467,046	6,467,046	6,467,046	-
wra 087	Combined Sewer Solids Separation Design	P 17	39,855,755	39,855,755	54,766,400	14,910,645
			91,508,290	91,508,290	106,118,935	
wra 088	Ingersoll Run Sewer	P 25	2,507,069	2,507,069	2,807,069	300,000
wra 080	Westside Basin Interceptor	P 4	5,442,786	5,442,786	5,413,068	(29,718)
wra 093	Flow Monitoring System		6,911,747	6,911,747	7,492,945	581,198
wra 084	Emission Reduction		6,692,782	6,692,782	6,692,782	-
wra 077	Power Generation System		5,751,773	5,751,773	5,922,374	170,601
wra 074	Digester Gas System (also listed below)		13,106,499	11,682,325	12,283,200	600,875
<b>Subtotal Core Projects</b>			<b>131,920,946</b>	<b>130,496,772</b>	<b>146,730,373</b>	<b>16,233,601</b>
<u>Expansion Projects</u>						
wra 085	Ankeny Four Mile Interceptor Ext.	P 24	24,767,988	24,767,988	19,539,761	(5,228,227)
wra 097	FourMi Interceptor Improv.	P 23	19,306,283	19,306,283	29,272,486	9,966,203
wra 095	Little Four Mile Int. South	P 15	4,517,716	4,517,716	4,517,716	-
wra 089	Little Four Mile Int. Ext.	P 15	2,690,771	2,690,771	2,788,214	97,443
wra 090	Middle Creek Trunk Sewer	P 20	7,688,518	7,688,518	7,656,018	(32,500)
wra 099	Mud Creek Interceptor	P 19	16,424,000	16,424,000	16,424,000	-
wra 082	WDM Outfall	P 13	18,235,256	18,235,256	19,491,790	1,256,534
wra 092	WDM Outfall Ext.	P 18	8,581,479	8,581,479	11,724,323	3,142,844
<b>Subtotal Expansion Projects</b>			<b>102,212,011</b>	<b>102,212,011</b>	<b>111,414,308</b>	<b>9,202,297</b>
wra 081	South West Area Diversion Facilities	P 22	94,853,146	94,853,146	80,373,684	(14,479,462)
wra 081	North River Interceptor included above	P 21				-
<b>South West Area Diversion Facilities</b>			<b>94,853,146</b>	<b>94,853,146</b>	<b>80,373,684</b>	<b>(14,479,462)</b>
<u>Future Projects (Core &amp; Expansion)</u>						
core	Nutrient Removal		25,824,409	25,824,409	33,338,242	7,513,833
core	Birdland Pump Stn		0	8,192,700	8,192,700	-
expan	Common Trunk & Joint Trunk		0	24,828,971	24,828,971	-
expan	Southern Tier Improvements		0	22,811,496	22,811,496	-
<b>Subtotal Future Projects</b>			<b>25,824,409</b>	<b>81,657,576</b>	<b>89,171,409</b>	<b>7,513,833</b>
<b>Total Bonded Project Costs</b>			<b>354,810,512</b>	<b>409,219,505</b>	<b>427,689,774</b>	<b>18,470,269</b>
<u>Non-Bonded Projects</u>						
wra 094	Asset Management	*	282,057	0		
wra 073	DeWatering System & Thickening Centrifuges	*	7,569,824	0		
wra 069	Facilities Plan Update		1,038,620	1,038,620	1,083,620	45,000
wra 096	Transition Costs		430,000	430,000	430,000	-
wra 072	Aeration Blowers		1,173,011	1,173,011	1,173,011	-
wra 076	Hauled Waste Receiving Station		5,251,675	5,251,675	6,375,264	1,123,589
wra 074	Digester Gas System (see above) /Microsludge		0	1,424,174	1,682,754	258,580
wra 070	Process Equipment Replacement		8,974,134	8,974,134	10,372,691	1,398,557
wra 078	Facilities Rehabilitation		2,984,103	2,984,103	2,984,103	-
wra 083	Small CIP past projects		1,930,567	1,930,567	1,419,265	(511,302)
wra 100	Corridor Preservation		300,000	300,000	400,000	100,000
wra 091	Small CIP current projects		2,992,500	2,992,500	4,773,802	1,781,302
wra 098	Small CIP future projects		3,000,000	3,000,000	4,000,000	1,000,000
<b>Total Non-Bonded Project Costs</b>			<b>35,926,491</b>	<b>29,498,784</b>	<b>34,694,510</b>	<b>5,195,726</b>
<b>WRA Total Expenses for Projects</b>			<b>390,737,003</b>	<b>438,718,289</b>	<b>462,384,284</b>	<b>23,665,995</b>
					<b>* PROJECT CLOSED</b>	
					462,384,284	SUMMARY TOTAL

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

WRA 2009

<u>Expenditures from CIP sheets</u>		2008	2009	2010	2011	2012	2013	2014	Future Spending
<u>WRA Projects - Expansion Category</u>									
85 P24	Four Mile Interceptor Ext.	\$ 2,000,710.0		\$ 811,200.0	\$ 8,180,573.0				\$ 10,992,483.0
89 P13	Little Four Mile Int. Ext. Seg 3	212,342.0							212,342.0
95 P15	Little Four Mile Int. South Seg 2	273,330.0							273,330.0
90 P20	Middle Creek Trunk Sewer	836,404.0	2,642,500.0						3,478,904.0
82 P13	WDM Outfall	8,268,701.0	3,942,695.0	1,822,496.0					14,033,892.0
99 P19	Mud Creek						16,424,000.0		16,424,000.0
97 P23	Four Mile Interceptor	1,830,000.0	13,358,280.0	11,675,872.0	2,408,334.0				29,272,486.0
92 P18	WDM Outfall Ext.		3,042,017.0	1,877,496.0	2,251,954.0				7,171,467.0
		\$ 13,421,487.0	\$ 22,985,492.0	\$ 16,187,064.0	\$ 12,840,861.0	\$ -	\$ 16,424,000.0	\$ -	\$ 81,858,904.0
<u>WRA Projects - SW Area Div. Category</u>									
81 P21,22	SW Area Diversion Project	\$ 20,533,557.0	\$ 27,481,749.0	\$ 8,520,741.0	\$ 22,019,130.0	\$ -	\$ -	\$ -	\$ 78,555,177.0
<u>WRA Projects - Core Category</u>									
86 P17	DM River Outfall / Main Outfall	\$ 3,551,772.0	\$ 2,600,000.0	\$ 15,480,000.0	\$ 12,900,000.0				34,531,772.0
87 P17	High Flow / CSSS Facility	1,300,000.0	5,200,000.0	23,660,000.0	24,606,400.0				54,766,400.0
88 P25	Ingersoll Run CSO Seg 1	536,474.0							536,474.0
77 P1	Power Generation System	650,000.0	574,049.0	3,037,500.0					4,261,549.0
84 P1	Emission Reduction	1,927,935.0							1,927,935.0
74 P1	Digester Improvements	750,000.0	7,280,000.0	4,253,200.0					12,283,200.0
93 P25	Flow Monitoring Seg 3	1,385,365.0	5,692,945.0	400,000.0					7,478,310.0
80 P4	Westside Basin Interceptor Seg 2	1,179,559.0							1,179,559.0
		\$ 11,281,105.0	\$ 21,346,994.0	\$ 46,830,700.0	\$ 37,506,400.0	\$ -	\$ -	\$ -	\$ 116,965,199.0
<u>WRA Plant Projects - Annual Community Contributions</u>									
69	Facility Plan update	\$ 50,335.0	\$ 45,000.0	\$ 45,000.0	\$ 45,000.0	\$ 45,000.0	\$ 45,000.0	\$ 45,000.0	320,335.0
70	Process Equipment Repl.	424,298.0	1,055,000.0	1,075,000.0	1,105,000.0	1,155,000.0	1,155,000.0	1,155,000.0	7,124,298.0
72	Aeration Blowers	141,094.0							141,094.0
74	Digester / Micro Sludge	218,180.0							218,180.0
76	Hauled Waste Rec'vg Stn	550,000.0							550,000.0
78	Facilities Rehabilitation	317,661.0	450,000.0	400,000.0	350,000.0	350,000.0	350,000.0	350,000.0	2,567,661.0
91	Small CIP	2,514,711.0	1,020,000.0	1,000,000.0	1,000,000.0	1,000,000.0	1,000,000.0	1,000,000.0	8,534,711.0
96	Transition Costs	196,317.0							196,317.0
100	Corridor Preservation	250,000.0	150,000.0						400,000.0
		\$ 4,662,596.0	\$ 2,720,000.0	\$ 2,520,000.0	\$ 2,500,000.0	\$ 2,550,000.0	\$ 2,550,000.0	\$ 2,550,000.0	\$ 20,052,596.0
	Revised Estimate for F08	\$ 49,898,745.0							
	2009		\$ 74,534,235.0						
	2010			\$ 74,058,505.0					
	2011				\$ 74,866,391.0				
	2012					\$ 2,550,000.0			
	2013						\$ 18,974,000.0		
	2014							\$ 2,550,000.0	
	Summary of Costs, Six-Year-Period								\$ 247,533,131.0

## Wastewater Reclamation Authority CIP Spending by Project and Category

<u>Expenditures from CIP sheets (actuals thru 6/30/07)</u>				2005	2006	2007	CIP \$\$ to -date
<u>WRA Projects - Expansion Category</u>							
85	P24	Four Mile Interceptor Ext. Seg 1	\$	628,759.1	\$ 6,337,388.0	\$ 1,581,131.1	\$ 8,547,278.2
89	P13	Little Four Mile Int. Ext. Seg 3		85,995.7	2,174,147.9	315,728.7	2,575,872.3
95	P15	Little Four Mile Int. South Seg 2		201,535.9	3,666,829.8	376,020.8	4,244,386.5
90	P20	Middle Creek Trunk Sewer Seg 1		95,863.1	2,126,689.9	1,954,561.1	4,177,114.2
82	P13	WDM Outfall Seg 3		629,512.9			629,512.9
82	P13	WDM Outfall Seg 4			2,443.0	85,657.0	88,100.0
92	P18	WDM Outfall Ext. Seg 1, 2		-	1,083,818.4	3,469,038.0	4,552,856.4
				\$ 1,641,666.7	\$ 15,391,317.0	\$ 7,782,136.8	\$ 24,815,120.5
<u>WRA Projects - SW Area Div. Category</u>							
81	P21,22	SW Area Diversion Project	\$	482,585.5	\$ 456,502.4	\$ 879,419.3	\$ 1,818,507.2
<u>WRA Projects - Core Category</u>							
86	P17	Des Moines River Outfall	\$	3,523,819.8	\$ 3,603,889.2	\$ 3,226,008.3	10,353,717.3
87	P16	East 20th St. Connector Seg 1, 2		5,129,301.0	1,337,746.2		6,467,047.3
88	P25	Ingersoll Run CSO Seg 1		72,104.4	127,071.2	2,071,420.3	2,270,595.8
77	P1	Power Generation System		940,245.0	2,650.0	101,454.0	1,044,349.0
84	P1	Emission Reduction		78,013.9	525,562.2	3,761,271.7	4,364,847.8
93	P25	Flow Monitoring Seg 3				14,635.5	14,635.5
80	P4	Westside Basin Interceptor Seg 2			290,012.9	3,920,085.7	4,210,098.5
				\$ 9,743,484.1	\$ 5,886,931.6	\$ 13,094,875.3	\$ 28,725,291.1
2004 BOND Issue					\$ 62,248,602.0		
2006 BOND Issue						\$ 36,695,152.0	
Proceeds Spent				\$ 55,358,918.7			
Proceeds Available				\$ 43,584,835.3			

WASTEWATER RECLAMATION AUTHORITY  
 CIP Funding by Project  
 Fiscal Year 2009

Capital Improvement Project Resources

		Funding Total thru F12	SRF Applications			Future Funding					Bond Issue Proceeds					
			F08	F09	F10	F09	F10	F11	F12	F13	F05	realloc	F07	realloc	F09	F10
<u>Core Projects</u>																
wra 086	Des Moines River Outfall	44,885,489	1,461,720			28,010,490					8,325,726	600,000	6,487,553			
wra 087	East 20th St. Connector	6,290,096									6,290,096					
wra 087	Combined Sewer Solids Separation Facility	54,766,400	3,600,000				50,616,400							550,000		
wra 084	Emission Reduction	6,289,658									6,289,658					
wra 093	Flow Monitoring System	7,492,945				5,981,000					-		1,511,945			
wra 088	Ingersoll Run Sewer	2,807,069									2,096,553	300,000	410,516			
wra 077	Power Generation System	5,305,898					3,037,500				1,755,879		1,162,519	(650,000)		
wra 074	Digester Improvements	12,283,200				12,183,200								100,000		
wra 080	Westside Basin Interceptor	5,389,658									6,289,658	(900,000)				
Subtotal Core Projects		145,510,413	5,061,720	-	-	46,174,690	53,653,900	-	-	-	31,047,570	-	9,572,533	-	-	
<u>Expansion Projects</u>																
wra 085	Ankeny Four Mile Interceptor Ext.	19,539,761					8,791,773				9,812,265	(1,000,000)	1,435,723	500,000		
wra 097	FourMi Interceptor Improv.	29,272,486				18,246,203	10,000,000				-		1,526,283	(500,000)		
wra 095	Little Four Mile Int. South	4,517,716									2,370,462	2,000,000	2,147,254	(2,000,000)		
wra 089	Little Four Mile Int. Ext.	2,788,214									1,677,000	997,443	1,013,771	(900,000)		
wra 090	Middle Creek Trunk Sewer	7,656,018	2,675,000			95,000					2,374,000	1,340,000	2,012,018	(840,000)		
wra 099	Mud Creek	16,424,000							16,424,000							
wra 0xx	FUTURE															
wra 082	WDM Outfall	14,787,943	3,900,000			9,719,549					668,394		-	500,000		
wra 092	WDM Outfall Ext.	11,697,420	2,650,000				4,481,467				1,017,522		3,308,431	240,000		
Subtotal Expansion Projects		106,683,558	9,225,000	-	-	28,060,752	23,273,240	-	-	16,424,000	17,919,643	3,337,443	11,443,480	(3,000,000)	-	
wra 081	South West Area Diversion Facilities	80,373,684	16,520,000			11,260,000	21,700,255	5,270,344			13,281,389	(3,337,443)	15,679,139			
wra 081	South West Area Diversion Facilities	80,373,684	16,520,000	-	-	11,260,000	21,700,255	5,270,344	-	-	13,281,389	(3,337,443)	15,679,139	-	-	
<b>Totals by Year</b>			<b>30,806,720</b>	<b>-</b>	<b>-</b>	<b>85,495,442</b>	<b>98,627,395</b>	<b>5,270,344</b>	<b>-</b>	<b>16,424,000</b>	<b>62,248,602</b>	<b>-</b>	<b>36,695,152</b>	<b>(3,000,000)</b>	<b>-</b>	

WASTEWATER RECLAMATION AUTHORITY  
 CIP Funding by Project  
 Fiscal Year 2009

Capital Improvement Project Resources

Community Funded / Plant Projects		Funding Total for Six-Yr period	Use of R&R Interest Earnings						R&R Community Contributions					
			F09	F10	F11	F12	F13	F14	F09	F10	F11	F12	F13	F14
wra 069	Facilities Plan Update	270,000							45,000	45,000	45,000	45,000	45,000	45,000
wra 070	Process Equipment Replacement	6,700,000	100,000	70,000	100,000	100,000	100,000	100,000	955,000	1,005,000	1,005,000	1,055,000	1,055,000	1,055,000
wra 078	Facilities Rehabilitator	2,133,315	53,315	80,000	50,000	50,000	50,000	50,000	300,000	300,000	300,000	300,000	300,000	300,000
		-												
wra 091	Small CIP projects	2,000,000							1,000,000	1,000,000				
wra 099	Small CIP future projects	4,000,000									1,000,000	1,000,000	1,000,000	1,000,000
sum \$	903315	-												
sum \$	14200000	-												
sum Ttl	15103315													
<b>Totals by Year</b>		<b>15,103,315</b>	<b>153,315</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>2,300,000</b>	<b>2,350,000</b>	<b>2,350,000</b>	<b>2,400,000</b>	<b>2,400,000</b>	<b>2,400,000</b>

Community Funded / Plant Projects		Funding Total past years	Renewal & Replacement Fund						R&R Community Contributions					
			F03 past	F04	F05	F06	F07	F08	F03 past	F04	F05	F06	F07	F08
wra 069	Facilities Plan Update	813,620							505,093	95,527	25,000	100,500	42,500	45,000
wra 096	Transition Costs	430,000								40,000	200,000		60,000	130,000
wra 070	Process Equipment Replacement	3,572,691	410,319	1,225,201	312,671							719,500	555,000	350,000
wra 078	Facilities Rehabilitator	816,788	11,497	61,416	132,267	103,923	7,685					200,000	300,000	
		-												
wra 072	Aeration Blowers	1,173,011	33,502	141,143	32,037	677,844	147,391	141,094						
wra 076	Hauled Waste Receiving Station	4,451,304					880,118	550,000	620,000	2,304,413	96,773			
wra 074	Digester Gas System	832,754	159,754	3,000		390,000							280,000	
wra 077	Power Generation System	616,476	136,476	480,000										
wra 080	Westside Basin	23,141							50,000	(26,859)				
wra 084	Emission Reduction	400,000								400,000				
		-												
wra 083	Small CIP past projects	2,852,000							850,000	1,032,000	850,000			120,000
wra 091	Small CIP projects	2,542,500										800,000	862,500	880,000
sum \$	6037338	-												
sum \$	12486947	-												
sum Ttl	18524285													
<b>Totals by Year</b>		<b>18,524,285</b>	<b>751,548</b>	<b>1,910,760</b>	<b>476,975</b>	<b>1,171,767</b>	<b>1,035,194</b>	<b>691,094</b>	<b>2,025,093</b>	<b>3,845,081</b>	<b>1,171,773</b>	<b>1,820,000</b>	<b>2,100,000</b>	<b>1,525,000</b>

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>					<b>WRA Facility Plan Update</b>								<b>AG267 WRA990000 WRA069</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	1,083,620	705,222	58,063	763,285	50,335	813,620	45,000	45,000	45,000	45,000	45,000	45,000	
Beginning Balance					5,335								
Interest Earnings													
Repair and Replacement Fund													
Communities	1,083,620	726,120	42,500	768,620	45,000	813,620	45,000	45,000	45,000	45,000	45,000	45,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	1,083,620	726,120	42,500	768,620	50,335	813,620	45,000	45,000	45,000	45,000	45,000	45,000	
<b>ENDING BALANCE</b>	0	20,898	(15,563)	5,335	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:**

**Operating Budget Effect:**

## Fiscal 2009/Fiscal 2014 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE									ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Process Equipment Replacement</b>									<b>UPDATED</b>	<b>AG267 WRA990000 WRA070</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	REVISED BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14	
							F09	F10	F11	F12	F13	F14		
Expenses	12,372,691	2,568,766	679,627	3,248,393	1,824,298	5,072,691	1,655,000	1,075,000	1,105,000	1,155,000	1,155,000	1,155,000		
Beginning Balance					559,298									
Interest Earnings	670,000				100,000	100,000	70,000	100,000	100,000	100,000	100,000	100,000		
Repair and Replacement Fund	1,948,191	1,948,191		1,948,191		1,948,191								
Communities	9,555,943	719,500	941,443	1,660,943	1,165,000	2,825,943	1,555,000	1,005,000	1,005,000	1,055,000	1,055,000	1,055,000		
Future Funding														
Bond Proceeds														
SRF Drawdowns														
Other	198,557		198,557	198,557		198,557								
Total Resources	12,372,691	2,667,691	1,140,000	3,807,691	1,824,298	5,072,691	1,655,000	1,075,000	1,105,000	1,155,000	1,155,000	1,155,000		
<b>ENDING BALANCE</b>	0	98,925	460,373	559,298	0	0	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:**

**F06:** Chlorinator

replacement, Laboratory

**F07:** Bldg 91 Air

Compressors; Building 80-

**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, Unanticipated needs.

**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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE							ACCOUNT		
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Aeration Blowers</b>							<b>AG267 WRA990000 WRA072</b>		
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	1,173,011	884,526	147,391	1,031,917	141,094	1,173,011							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund	1,173,011	884,526	147,391	1,031,917	141,094	1,173,011							
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	1,173,011	884,526	147,391	1,031,917	141,094	1,173,011							
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description:**

The study completed in 2004 concluded that replacement of any of the 2000 hp blowers was not feasible because of the mixing requirements in the basin. The study did recommend that the piping, valves and controls be replaced to provide better operator control over the air delivered to the basins. More efficient use of air will provide energy savings. 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 F06 .

**Relationship to General Plan and Other Projects:**

R&R funding for this project was determined on 7/1/04 with any change in project total transferring to Power Generation WRA077 in order to reduce future bonding amounts.

**Operating Budget Effect:**

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

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Hauled Waste Receiving Station</b>								<b>AG267 WRA990000 WRA076</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	6,375,264	4,701,675	1,123,589	5,825,264	550,000	6,375,264							
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund	1,430,118		880,118	880,118	550,000	1,430,118							
Communities	3,021,186	3,021,186		3,021,186		3,021,186							
Future Funding													
Bond Proceeds													
SRF Drawdowns #7	1,923,960	1,923,960		1,923,960		1,923,960							
Other													
Total Resources	6,375,264	4,945,146	880,118	5,825,264	550,000	6,375,264							
<b>ENDING BALANCE</b>	0	243,471	(243,471)	0	0	0	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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE						ACCOUNT			
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Digester Gas Pipeline, Micro-Sludge</b>						<b>AG267 WRA990000 WRA074</b>			
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	1,682,754	214,649	1,249,925	1,464,574	218,180	1,682,754							
Beginning Balance					218,180								
Interest Earnings													
Repair and Replacement Fund	552,754	552,754		552,754		552,754							
Communities / from Small CIP	280,000		280,000	280,000		280,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / from Small CIP	850,000	850,000		850,000		850,000							
Total Resources	1,682,754	1,402,754	280,000	1,682,754	218,180	1,682,754							
<b>ENDING BALANCE</b>	0	1,188,105	(969,925)	218,180	0	0	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.

**Justification:**

Digester gas utilization provides for a reduction in operating costs.

**Scheduling:**

A project to replace the piping from the digesters to the power generation building was designed and constructed in F02 and F03.

**Relationship to General Plan and Other Projects:**

Funded with small CIP funds collected in prior budget year.

**Operating Budget Effect:**

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

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>					<b>WRF Power Generation System</b>								<b>AG267 WRA990000 WRA077</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14	
							F09	F10	F11	F12	F13	F14		
Expenses	5,922,374	1,559,371	101,454	1,660,825	650,000	2,310,825	574,049	3,037,500						
Beginning Balance					1,224,049		574,049							
Interest Earnings														
Repair and Replacement Fund Communities	616,476	616,476		616,476		616,476								
Future Funding	2,387,500		(650,000)	(650,000)		(650,000)		3,037,500						
Bond Proceeds	2,918,398	1,755,879	1,162,519	2,918,398		2,918,398								
SRF Drawdowns														
Other														
Total Resources	5,922,374	2,372,355	512,519	2,884,874	1,224,049	2,884,874	574,049	3,037,500						
<b>ENDING BALANCE</b>	0	812,984	411,065	1,224,049	574,049	574,049	0	0	0	0	0	0	0	

**Description:**

F03 and F04 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.

**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. 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:**

F06 were included in the facility plan; F10 costs 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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>					<b>WRF Facilities Rehabilitation</b>								<b>AG267 WRA990000 WRA078</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	2,984,103	278,656	137,786	416,442	317,661	734,103	450,000	400,000	350,000	350,000	350,000	350,000	
Beginning Balance					418,346		116,685	20,000					
Interest Earnings	367,315		18,000	18,000	16,000	34,000	53,315	80,000	50,000	50,000	50,000	50,000	
Repair and Replacement Fund	316,788	309,103	7,685	316,788		316,788							
Communities	2,300,000	200,000	300,000	500,000		500,000	300,000	300,000	300,000	300,000	300,000	300,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	2,984,103	509,103	325,685	834,788	434,346	850,788	470,000	400,000	350,000	350,000	350,000	350,000	
<b>ENDING BALANCE</b>	0	230,447	187,899	418,346	116,685	116,685	20,000	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:**

F06: Roof Replacement on Buildings 45-1,2,3,4 and 80-1,2,3, and HVAC Improvements.

F07: Roof Replacement on Buildings 45-1,2,3,4 and 80-1,2,3, and HVAC Improvements.

F08: Roof Replacement on Building 70, and HVAC Improvements.

F09: Roof Replacement on Building 35, HVAC Improvements, and stairwell 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, as will WRA070.

**Operating Budget Effect:**

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

PROJECT CATEGORY				PROJECT TITLE				ACCOUNT					
Wastewater Reclamation Authority Improvements				WRA West Side Interceptor Basin				AG267 WRA990000 WRA080					
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	REVISED BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	5,413,068	313,423	3,920,086	4,233,509	1,179,559	5,413,068							
Beginning Balance					1,179,559								
Interest Earnings	269	269		269		269							
Repair and Replacement Fund Communities /pre 7/1/04	23,141	23,141		23,141		23,141							
Future Funding	(900,000)	(900,000)		(900,000)		(900,000)							
Bond Proceeds	6,289,658	6,289,658		6,289,658		6,289,658							
SRF Drawdowns													
Other													
Total Resources	5,413,068	5,413,068		5,413,068	1,179,559	5,413,068							
<b>ENDING BALANCE</b>	0	5,099,645	(3,920,086)	1,179,559	0	0	0	0	0	0	0	0	0

**Description:**

**Core project.** The project will increase the capacity of the pump station from 20 mgd to 35 mgd and replace controls and associated equipment.

**Justification:**

The existing equipment is aging and has been exposed to harsh operating conditions. The capacity of the pump station needs to be increased to equal the capacity of the downstream sewer.

**Scheduling:**

Variable Frequency Drive replaced in F03, Increased pumping capacity design in F06, construction in F07 and F08.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update. Fund transfer in F06 is to WRA087; transfer F07 to WRA093; remaining funds can be transferred in F0 FOR FLOW MON

**Operating Budget Effect:**

Increase revenues and operations and maintenance costs.

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE									ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>				<b>Southwest Area Diversion Facilities Phase 21 and 22</b>									<b>AG267 WRA990000 WRA081</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	80,373,684	939,088	879,419	1,818,507	20,533,557	22,352,064	27,481,749	8,520,741	22,019,130				
Beginning Balance					23,804,578		19,791,021	3,569,272	16,748,786				
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	34,893,156	(3,337,443)		(3,337,443)			11,260,000	21,700,255	5,270,344				
Bond Proceeds	28,960,528	13,281,389	15,679,139	28,960,528									
SRF Drawdowns	16,520,000				16,520,000	16,520,000							
Other													
Total Resources	<b>80,373,684</b>	9,943,946	15,679,139	<b>25,623,085</b>	<b>40,324,578</b>	42,143,085	31,051,021	25,269,527	22,019,130				
<b>ENDING BALANCE</b>	0	9,004,858	14,799,720	23,804,578	19,791,021	19,791,021	3,569,272	16,748,786	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 F08, F09, and F10. The pump station, force main, flow equalization and interceptors will be constructed in F09, F10, and F11.

**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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>					<b>West Des Moines Outfall Phase13</b>								<b>AG267 WRA990000 WRA082</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD					COST FY2015	
							F09	F10	F11	F12	F13		F14
Expenses	19,491,790	631,956	85,657	717,613	8,268,701	8,986,314	3,942,695	1,822,496					4,740,285
Beginning Balance					414,343		(3,954,358)	1,822,496					
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	14,959,834		500,000	500,000		500,000	9,719,549						4,740,285
Bond Proceeds	668,394	668,394		668,394		668,394							
SRF Drawdowns	3,900,000				3,900,000	3,900,000							
Other	(36,438)	(36,438)		(36,438)		(36,438)							
Total Resources	19,491,790	631,956	500,000	1,131,956	4,314,343	5,031,956	5,765,191	1,822,496					
<b>ENDING BALANCE</b>	0	0	414,343	414,343	(3,954,358)	(3,954,358)	1,822,496	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; F15: 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. The amount for 2008 bond issue above is an increase over the 2007 prior amount.

**Operating Budget Effect:**

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

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Emission Reduction</b>								<b>AG267 WRA990000 WRA084</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	6,692,782	1,003,576	3,761,271	4,764,847	1,927,935	6,692,782							
Beginning Balance					1,927,935								
Interest Earnings	3,124	3,124		3,124		3,124							
Repair and Replacement Fund Communities	400,000	400,000		400,000		400,000							
Future Funding Bond Proceeds	6,289,658	6,289,658		6,289,658		6,289,658							
SRF Drawdowns Other													
Total Resources	<b>6,692,782</b>	<b>6,692,782</b>		<b>6,692,782</b>	<b>1,927,935</b>	<b>6,692,782</b>							
<b>ENDING BALANCE</b>	<b>0</b>	<b>5,689,206</b>	<b>(3,761,271)</b>	<b>1,927,935</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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 and F07.

**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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>					<b>WRF Digester Improvements</b>								<b>AG267 WRA990000 WRA074</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14	
							F09	F10	F11	F12	F13	F14		
Expenses	12,283,200				750,000	750,000	7,280,000	4,253,200						
Beginning Balance					100,000		(650,000)	4,253,200						
Interest Earnings														
Repair and Replacement Fund Communities														
Future Funding	12,283,200		100,000	100,000		100,000	12,183,200							
Bond Proceeds														
SRF Drawdowns														
Other / from Small CIP														
Total Resources	12,283,200		100,000	100,000	100,000	100,000	11,533,200	4,253,200						
<b>ENDING BALANCE</b>	0	0	100,000	100,000	(650,000)	(650,000)	4,253,200	0	0	0	0	0	0	0

**Description:**

F08 improvements will involve improving the mixing system, repairing or replacing the insulated covers, or 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 F10. A study is being done in F08 to investigate a method of increasing gas production and reducing solids. The results of this study will be used in the design that will start in F08 with construction in F09 and F10.

**Relationship to General Plan and Other Projects:**

Included in 28E bonding schedule.

**Operating Budget Effect:**

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

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Four Mile Interceptor Extension Phase 24</b>								<b>AG267 WRA990000 WRA085</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	19,539,761	6,966,147	1,581,131	8,547,278	2,000,710	10,547,988		811,200	8,180,573				
Beginning Balance					2,200,710		200,000	200,000	8,180,573				
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	8,291,773	(1,000,000)	500,000	(500,000)		(500,000)		8,791,773					
Bond Proceeds	11,247,988	9,812,265	1,435,723	11,247,988		11,247,988							
SRF Drawdowns													
Other													
Total Resources	<b>19,539,761</b>	<b>8,812,265</b>	<b>1,935,723</b>	<b>10,747,988</b>	<b>2,200,710</b>	<b>10,747,988</b>	200,000	8,991,773	8,180,573				
<b>ENDING BALANCE</b>	<b>0</b>	<b>1,846,118</b>	<b>354,592</b>	<b>2,200,710</b>	<b>200,000</b>	<b>200,000</b>	200,000	8,180,573	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: Design-F04/05, Construction-F05/06. Segment 2: Design-F08/F09, Construction-F10.

**Relationship to General Plan and Other Projects:**

The Four Mile Interceptor Improvements 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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>Des Moines River Outfall/Main Outfall Phase 17</b>										<b>AG267 WRA990000 WRA086</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	44,885,489	7,127,709	3,226,008	10,353,717	3,551,772	13,905,489	2,600,000	15,480,000	12,900,000				
Beginning Balance					5,059,562		2,969,510	28,380,000	12,900,000				
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	28,610,490	600,000		600,000			28,010,490						
Bond Proceeds	14,813,279	8,325,726	6,487,553	14,813,279									
SRF Drawdowns	1,461,720				1,461,720	1,461,720							
Other													
Total Resources	44,885,489	8,925,726	6,487,553	15,413,279	6,521,282	16,874,999	30,980,000	28,380,000	12,900,000				
<b>ENDING BALANCE</b>	0	1,798,017	3,261,545	5,059,562	2,969,510	2,969,510	28,380,000	12,900,000	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, 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 meet the nine minimum requirements in the current NPDES permit. Phase 4 will include solids separation.

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

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**Scheduling:**  
 Phase 1: 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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE											ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>		<b>Combined Sewer Solids Separation Facility Phase 17</b>											<b>AG267 WRA990000 WRA087</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	54,766,400				1,300,000	1,300,000	5,200,000	23,660,000	24,606,400				
Beginning Balance					550,000		2,850,000	(2,350,000)	24,606,400				
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	51,166,400		550,000	550,000		550,000		50,616,400					
Bond Proceeds													
SRF Drawdowns	3,600,000				3,600,000	3,600,000							
Other													
Total Resources	54,766,400		550,000	550,000	4,150,000	4,150,000	2,850,000	48,266,400	24,606,400				
<b>ENDING BALANCE</b>	0	0	550,000	550,000	2,850,000	2,850,000	(2,350,000)	24,606,400	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 F11.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update.

**Operating Budget Effect:**

**Fiscal 2008/Fiscal 2013 Capital Improvements Program**

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>East 20th Street Connector P 16 / closed</b>										<b>AG267 WRA990000 WRA087</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
PAST EXPENDITURES	6,467,046	6,467,046		6,467,046		6,467,046							
Beginning Balance													
Interest Earnings	176,950	176,950		176,950		176,950							
Repair and Replacement Fund Communities													
Future Funding													
Bond Proceeds	6,290,096	6,290,096		6,290,096		6,290,096							
SRF Drawdowns													
Other													
Total Resources	6,467,046	6,467,046		6,467,046		6,467,046							
<b>ENDING BALANCE</b>	0	0	0	0	0	0	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 Vandal

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

**Scheduling:**  
 Design-F04, Construction-F05/06.

**Relationship to General Plan and Other Projects:**  
 This project is included in the WRA Facility Plan Update. Transferred from WRA080 in F06.

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

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>					<b>Ingersoll Run Combined Sewer Overflow Phase 25</b>							<b>AG267 WRA990000 WRA088</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	2,807,069	199,175	2,071,420	2,270,595	536,474	2,807,069							
Beginning Balance					536,474								
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	300,000	300,000		300,000		300,000							
Bond Proceeds	2,507,069	2,096,553	410,516	2,507,069		2,507,069							
SRF Drawdowns													
Other													
Total Resources	2,807,069	2,396,553	410,516	2,807,069	536,474	2,807,069							
<b>ENDING BALANCE</b>	0	2,197,378	(1,660,904)	536,474	0	0	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.

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update.

**Operating Budget Effect:**

None.

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>Little Four Mile Interceptor Extension Phase 15</b>										<b>AG267 WRA990000 WRA089</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	2,788,214	2,260,144	315,728	2,575,872	212,342	2,788,214							
Beginning Balance					212,342								
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	97,443	997,443	(900,000)	97,443		97,443							
Bond Proceeds	2,690,771	1,677,000	1,013,771	2,690,771		2,690,771							
SRF Drawdowns													
Other													
Total Resources	2,788,214	2,674,443	113,771	2,788,214	212,342	2,788,214							
<b>ENDING BALANCE</b>	0	414,299	(201,957)	212,342	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.

**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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE								ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>					<b>Middle Creek Trunk Sewer Extension Phase 20</b>								<b>AG267 WRA990000 WRA090</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	7,656,018	2,222,553	1,954,561	4,177,114	836,404	5,013,518	2,642,500						
Beginning Balance					708,904		2,547,500						
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	595,000	1,340,000	(840,000)	500,000		500,000	95,000						
Bond Proceeds	4,386,018	2,374,000	2,012,018	4,386,018		4,386,018							
SRF Drawdowns	2,675,000				2,675,000	2,675,000							
Other													
Total Resources	7,656,018	3,714,000	1,172,018	4,886,018	3,383,904	7,561,018	2,642,500						
<b>ENDING BALANCE</b>	0	1,491,447	(782,543)	708,904	2,547,500	2,547,500	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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY							PROJECT TITLE						ACCOUNT
<b>Wastewater Reclamation Authority Improvements</b>							<b>West Des Moines Outfall Extension Phase 18</b>						<b>AG267 WRA990000 WRA092</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	11,724,323		4,552,856	4,552,856		4,552,856	3,042,017	1,877,496	2,251,954				
Beginning Balance					40,000		40,000	(3,002,017)	(398,046)	(2,650,000)	(2,650,000)	(2,650,000)	
Interest Earnings	26,903		26,903	26,903		26,903							
Repair and Replacement Fund Communities								4,481,467					
Future Funding	4,721,467		240,000	240,000		240,000							
Bond Proceeds	4,325,953	1,017,522	3,308,431	4,325,953		4,325,953							
SRF Drawdowns	2,650,000				2,650,000	2,650,000							
Other		66,296	(66,296)		(2,650,000)	(2,650,000)							2,650,000
Total Resources	11,724,323	1,083,818	3,509,038	4,592,856	40,000	4,592,856	40,000	1,479,450	(398,046)	(2,650,000)	(2,650,000)	(2,650,000)	2,650,000
<b>ENDING BALANCE</b>	0	1,083,818	(1,043,818)	40,000	40,000	40,000	(3,002,017)	(398,046)	(2,650,000)	(2,650,000)	(2,650,000)	(2,650,000)	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.

cost Seg 1 1083818

Segment 3 -Sugar Creek to Boonevill Road. Segment 4 -Booneville Road to Mills Civic Parkway.

cost Seg 2 3468920

Segment 5 -Mills Civic Parkway to I-80

cost Seg 3 1099415

**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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT		
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Flow Monitoring System Improvements</b>								<b>AG267 WRA990000 WRA093</b>		
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14	
							F09	F10	F11	F12	F13	F14		
Expenses	7,492,945		14,635	14,635	1,385,365	1,400,000	5,692,945	400,000						
Beginning Balance					1,497,310		111,945	400,000						
Interest Earnings														
Repair and Replacement Fund Communities														
Future Funding	5,981,000						5,981,000							
Bond Proceeds	1,511,945		1,511,945	1,511,945		1,511,945								
SRF Drawdowns														
Other														
Total Resources	7,492,945		1,511,945	1,511,945	1,497,310	1,511,945	6,092,945	400,000						
<b>ENDING BALANCE</b>	0	0	1,497,310	1,497,310	111,945	111,945	400,000	0	0	0	0	0	0	0

**Description: Core Project.** This project will upgrade the existing system and implement new meters for flow metering and real time operational control. Flow meters will be used for flow allocation to communities and for operating the collection system during wet weather events.

**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 to begin in F08 and continue through F09 with Design in F07 and F08.

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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>Little Four Mile Interceptor-South Branch Phase 15</b>										<b>AG267 WRA990000 WRA095</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	4,517,716	3,868,366	376,020	4,244,386	273,330	4,517,716							
Beginning Balance					273,330								
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding		2,000,000	(2,000,000)										
Bond Proceeds	4,517,716	2,370,462	2,147,254	4,517,716		4,517,716							
SRF Drawdowns													
Other / SW Borrowing													
Total Resources	4,517,716	4,370,462	147,254	4,517,716	273,330	4,517,716							
<b>ENDING BALANCE</b>	0	502,096	(228,766)	273,330	0	0	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 begins in 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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRA Transition Costs</b>								<b>AG267 WRA990000 WRA096</b>	
	TOTAL	COST	ACTUAL	COST	BUDGET	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
	ESTIMATED	THROUGH	COST IN	THROUGH		COST THROUGH							BEYOND
	COST	F06	F07	F07	F08	F08	F09	F10	F11	F12	F13	F14	F14
Expenses	430,000	233,251	432	233,683	196,317	430,000							
Beginning Balance					66,317								
Interest Earnings													
Repair and Replacement Fund													
Communities	430,000	240,000	60,000	300,000	130,000	430,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	430,000	240,000	60,000	300,000	196,317	430,000							
<b>ENDING BALANCE</b>	0	6,749	59,568	66,317	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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>Four Mile Interceptor Improvements Phase 23</b>										<b>AG267 WRA990000 WRA097</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	29,272,486				1,830,000	1,830,000	13,358,280	11,675,872	2,408,334				
Beginning Balance					1,026,283		(803,717)	4,084,206	2,408,334				
Interest Earnings													
Repair and Replacement Fund Communities													
Future Funding	27,746,203		(500,000)	(500,000)		(500,000)	18,246,203	10,000,000					
Bond Proceeds	1,526,283		1,526,283	1,526,283		1,526,283							
SRF Drawdowns													
Other													
Total Resources	29,272,486		1,026,283	1,026,283	1,026,283	1,026,283	17,442,486	14,084,206	2,408,334				
<b>ENDING BALANCE</b>	0	0	1,026,283	1,026,283	(803,717)	(803,717)	4,084,206	2,408,334	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 Avenue to Easton Boulevard.  
 Segment 3: Easton Boulevard 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: Design-F08/F09, Construction-F10. Segment 3: 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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY					PROJECT TITLE							ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>					<b>Mud Creek Interceptor P 19</b>							<b>AG267 WRA990000 WRA099</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
							F09	F10	F11	F12	F13	F14	
Expenses	16,424,000										16,424,000		
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding	16,424,000										16,424,000		
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	16,424,000										16,424,000		
<b>ENDING BALANCE</b>	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 serve 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. 28E bond schedule was March 2012

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

**Fiscal 2008/Fiscal 2013 Capital Improvements Program**

Fiscal 2008/Fiscal 2013 Capital Improvements Program													
PROJECT CATEGORY						PROJECT TITLE						ACCOUNT	
Wastewater Reclamation Authority Improvements						WRA Corridor Preservation						AG267 WRA990000 WRA100	
	TOTAL	COST	ACTUAL	COST	BUDGET	ESTIMATED	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST
	ESTIMATED	THROUGH	COST IN	THROUGH		COST THROUGH							BEYOND
	COST	F06	F07	F07	F08	F08	F09	F10	F11	F12	F13	F14	F14
Expenses	400,000				250,000	250,000	150,000						
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund													
Communities													
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / Small CIP	400,000				250,000	250,000	150,000						
Total Resources	400,000				250,000	250,000	150,000						
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

**Description: Expansion project.**

Funds collected for Small CIP will be temporarily used to purchase easements and/or land needed to preserve right-of-way for future sewer projects that are scheduled in the facility plan in a future bond issue with construction after F08.

**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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY				PROJECT TITLE								ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>				<b>WRF Small Capital Projects FY05 and past [closed]</b>								<b>AG267 WRA990000 WRA083</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	1,419,265	1,419,265		1,419,265		1,419,265							
Beginning Balance													
Interest Earnings	48,567	48,567		48,567		48,567							
Repair and Replacement Fund Communities	2,732,000	2,732,000		2,732,000		2,732,000							
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other / to WRA074	(1,361,302)	(850,000)	(511,302)	(1,361,302)		(1,361,302)							
Total Resources	<b>1,419,265</b>	<b>1,930,567</b>	<b>(511,302)</b>	<b>1,419,265</b>		<b>1,419,265</b>							
<b>ENDING BALANCE</b>	0	511,302	(511,302)	0	0	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 2009/Fiscal 2014 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>WRF Small Capital Projects 20 06,07,08,09,10</b>										<b>UPDATED</b>	<b>AG267 WRA990000 WRA091</b>
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	REVISED BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	2,773,802	57,132	181,959	239,091	1,114,711	1,353,802	420,000	1,000,000					
Beginning Balance					1,349,711		170,000						
Interest Earnings													
Repair and Replacement Fund													
Communities	3,662,500	800,000	582,500	1,382,500	880,000	2,262,500	400,000	1,000,000					
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other	(888,698)		206,302	206,302	(945,000)	(738,698)	(150,000)						
Total Resources	2,773,802	800,000	788,802	1,588,802	1,284,711	1,523,802	420,000	1,000,000					
<b>ENDING BALANCE</b>	0	742,868	606,843	1,349,711	170,000	170,000	0	0	0	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:**

**F06:** Grinders for recirculation pumps; process cameras;roughing filter drive;pave levee road;redundant Ethernet; unanticipated needs.

**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.

**Relationship to General Plan and Other Projects:**

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

**Operating Budget Effect:**

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY		PROJECT TITLE										ACCOUNT	
<b>Wastewater Reclamation Authority Improvements</b>		<b>WRF Small Capital Projects Beyond FY 2010</b>										<b>AG267 WRA990000 WRA098</b>	
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD						COST BEYOND F14
							F09	F10	F11	F12	F13	F14	
Expenses	4,000,000								1,000,000	1,000,000	1,000,000	1,000,000	
Beginning Balance													
Interest Earnings													
Repair and Replacement Fund Communities	4,000,000								1,000,000	1,000,000	1,000,000	1,000,000	
Future Funding													
Bond Proceeds													
SRF Drawdowns													
Other													
Total Resources	4,000,000								1,000,000	1,000,000	1,000,000	1,000,000	
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	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:**

**Relationship to General Plan and Other Projects:**

**Operating Budget Effect:**

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY						PROJECT TITLE				
<b>Wastewater Reclamation Authority Improvements</b>						<b>WRF Nutrient Removal P 1</b>				
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR			
							F09	F10	F11	F12
Expenses	33,338,242									
Beginning Balance										
Interest Earnings										
Repair and Replacement Fund										
Communities										
Future Funding	33,338,242									
Bond Proceeds										
SRF Drawdowns										
Other										
Total Resources	33,338,242									
<b>ENDING BALANCE</b>	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

**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 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY						PROJECT TITLE					
<b>Wastewater Reclamation Authority Improvements</b>						<b>WRA Birdland Pump Station</b>					
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR				
							F09	F10	F11	F12	
Expenses	8,192,700										
Beginning Balance											
Interest Earnings											
Repair and Replacement Fund											
Communities											
Future Funding	8,192,700										
Bond Proceeds											
SRF Drawdowns											
Other											
Total Resources	8,192,700										
<b>ENDING BALANCE</b>	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 F20

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update.

**Operating Budget Effect:**

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY						PROJECT TITLE				
<b>Wastewater Reclamation Authority Improvements</b>						<b>WRA Southern Tier Improvements</b>				
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR			
							F09	F10	F11	F12
Expenses	22,811,496									
Beginning Balance										
Interest Earnings										
Repair and Replacement Fund Communities										
Future Funding	22,811,496									
Bond Proceeds										
SRF Drawdowns										
Other										
Total Resources	22,811,496									
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0

**Description: Core Project.**

This project

**Justification:**

**Scheduling:**

**Relationship to General Plan and Other Projects:**

This project is included in the WRA Facility Plan Update.

**Operating Budget Effect:**

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY						PROJECT TITLE				
<b>Wastewater Reclamation Authority Improvements</b>						<b>WRA Common Trunk</b>				
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR			
							F09	F10	F11	F12
Expenses	9,262,840									
Beginning Balance										
Interest Earnings										
Repair and Replacement Fund Communities										
Future Funding	9,262,840									
Bond Proceeds										
SRF Drawdowns										
Other										
Total Resources	9,262,840									
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0

**Description: Core 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.

**Operating Budget Effect:**

## Fiscal 2008/Fiscal 2013 Capital Improvements Program

PROJECT CATEGORY						PROJECT TITLE					
<b>Wastewater Reclamation Authority Improvements</b>						<b>WRA Clive / USSD Joint Trunk</b>					
	TOTAL ESTIMATED COST	COST THROUGH F06	ACTUAL COST IN F07	COST THROUGH F07	BUDGET F08	ESTIMATED COST THROUGH F08	RECOMMENDED AND SCHEDULED FOR SIX-YEAR				
							F09	F10	F11	F12	
Expenses	15,566,131										
Beginning Balance											
Interest Earnings											
Repair and Replacement Fund											
Communities											
Future Funding	15,566,131										
Bond Proceeds											
SRF Drawdowns											
Other											
Total Resources	15,566,131										
<b>ENDING BALANCE</b>	0	0	0	0	0	0	0	0	0	0	0

**Description: Core 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.

**Operating Budget Effect:**