

Summary

Wastewater Reclamation Authority Improvements

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

| | TOTAL ESTIMATED COST | COST THROUGH F06 | REVISED ESTIMATE F07 | TOTAL ESTIMATED COST THROUGH F07 | COST FOR SIX-YEAR PERIOD | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
|---|----------------------|-------------------|----------------------|----------------------------------|--------------------------|---|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses, detail on following page | 390,737,003 | 51,860,237 | 55,777,175 | 107,637,412 | 252,534,897 | 34,068,103 | 56,589,981 | 52,454,291 | 89,048,522 | 1,975,000 | 18,399,000 | 30,564,694 |
| Resources: | | | | | | | | | | | | |
| Beginning Balance | 0 | 0 | 32,826,513 | 0 | | 16,177,293 | 51,999,981 | 33,461,791 | 74,173,522 | (0) | 16,424,000 | 0 |
| Interest Earnings | 1,512,503 | 96,207 | 216,296 | 312,503 | 1,200,000 | 350,000 | 150,000 | 175,000 | 175,000 | 175,000 | 175,000 | 0 |
| Renewal & Replacement Fund | 12,431,641 | 11,267,534 | 1,164,107 | 12,431,641 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Communities | 22,770,447 | 9,150,447 | 2,200,000 | 11,350,447 | 11,420,000 | 2,220,000 | 2,000,000 | 1,800,000 | 1,800,000 | 1,800,000 | 1,800,000 | 0 |
| SRF Drawdowns | 1,923,960 | 1,923,960 | 0 | 1,923,960 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bond Proceeds | 353,612,384 | 62,248,602 | 36,668,152 | 98,916,754 | 224,130,936 | 67,714,123 | 35,901,791 | 91,191,022 | 12,900,000 | 16,424,000 | 0 | 30,564,694 |
| Other | (1,513,932) | 0 | (1,120,600) | (1,120,600) | (393,332) | (393,332) | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Resources | 390,737,003 | 84,686,750 | 71,954,468 | 123,814,705 | 236,357,604 | 86,068,084 | 90,051,772 | 126,627,813 | 89,048,522 | 18,399,000 | 18,399,000 | 30,564,694 |

List of WRA Projects

| Project Number | Project Name | Funding |
|----------------|---|-----------------|
| WRA072 | Aeration Blowers - WRF | R&R |
| WRA094 | Asset Management - WRF | FY 2005,06 |
| WRA09x | Combined Sewer Solids Separation | Core Bond Funds |
| WRA073 | Dewatering / Thickening System - WRF | R&R |
| WRA074 | Digester Gas System - WRF | R&R / Core |
| WRA086 | DM River Outfall (Outlet) | Core Bond Funds |
| WRA087 | East 20th St Connector | Core Bond Funds |
| WRA084 | Emission Reduction - WRF | FY2004 / Core |
| WRA078 | Facilities Rehabilitation - WRF | annual contrib |
| WRA069 | Facility Plan Update - WRA | annual contrib |
| WRA093 | Flow Monitoring Sys Replace - WRA | Core Bond Funds |
| WRA076 | Hauled Waste Receiving Station | SRF |
| WRA088 | Ingersoll Run Overflow | Core Bond Funds |
| WRA09x | Nutrient Removal - WRF | Core Bond Funds |
| WRA077 | Power Generation System - WRF | R&R / Core |
| WRA070 | Process Equipment Replace - WRF | annual contrib |
| WRA083 | Small Capital Projects FY05 and Past | FY 2005 |
| WRA091 | Small Capital Projects FY06 thru FY09 | annual contrib |
| WRA09x | Small Capital Projects FY10 and Future | annual contrib |
| WRA096 | Transition Costs - WRA | annual contrib |
| WRA080 | West Side Interceptor Basin | Core Bond Funds |
| | | |
| WRA081 | SouthWest Area Diversion | Bond Funds |
| | | |
| WRA085 | Ankeny N Four Mile Interceptor | Expansion Funds |
| WRA09x | Four Mile Interceptor Improvements | Expansion Funds |
| WRA095 | Little Four Mile Intereceptor -South Branch | Expansion Funds |
| WRA089 | Little Four Mile Interceptor Extension | Expansion Funds |
| WRA090 | Middle Creek Trunk Sewer Extension | Expansion Funds |
| WRA09x | Mud Creek Interceptor | Expansion Funds |
| WRA082 | West DM Outfall | Expansion Funds |
| WRA092 | West DM Outfall Extension | Expansion Funds |
| | | |
| | | |

WASTEWATER RECLAMATION AUTHORITY

CIP Funding by Project

Fiscal Year 2008

Capital Improvement Project Resources

| | R&R Community Contributions | | | | | Bond Issue Proceeds | | | | |
|---------------------------------------|-----------------------------|------------------|------------------|------------------|------------------|---------------------|----------|-------------------|-------------------|-------------------|
| | F05 | F06 | F07 | F08 | F09 | F05 | F06 | F07 | F08 | F09 |
| <u>Core Projects</u> | | | | | | | | | | |
| wra 086 | | | | | | 8,325,726 | | 6,479,763 | - | 3,500,000 |
| wra 087 | | | | | | 6,290,096 | | | | |
| wra 09x | | | | | | | | | 3,894,108 | 17,713,134 |
| wra 084 | | | | | | 6,289,658 | | | | |
| wra 093 | | | | | | - | | 1,511,945 | 5,399,802 | |
| wra 088 | | | | | | 2,096,553 | | 410,516 | - | |
| wra 077 | | | | | | 1,755,879 | | 1,162,518 | | |
| wra 074 | | | | | | | | | 11,703,745 | |
| wra 080 | | | | | | 6,289,658 | | | | |
| Subtotal Core Projects | | | | | | 31,047,570 | - | 9,564,742 | 20,997,655 | 21,213,134 |
| <u>Expansion Projects</u> | | | | | | | | | | |
| wra 085 | | | | | | 9,812,265 | | 1,435,723 | - | |
| wra 09x | | | | | | - | | 1,526,283 | - | 10,180,000 |
| wra 095 | | | | | | 2,370,462 | | 2,147,254 | - | |
| wra 089 | | | | | | 1,677,000 | | 1,013,771 | - | |
| wra 090 | | | | | | 2,374,000 | | 2,012,018 | 3,302,500 | |
| wra 09x | | | | | | | | | | |
| wra 082 | | | | | | 668,394 | | - | 8,317,920 | 4,508,657 |
| wra 092 | | | | | | 1,017,522 | | 3,297,661 | - | |
| Subtotal Expansion Projects | | | | | | 17,919,643 | - | 11,432,710 | 11,620,420 | 14,688,657 |
| wra 081 | | | | | | 13,281,389 | | 15,670,700 | 35,096,048 | |
| wra 081 | | | | | | 13,281,389 | - | 15,670,700 | 35,096,048 | - |
| Total Bonded Project Costs | | | | | | 62,248,602 | - | 36,668,152 | 67,714,123 | 35,901,791 |
| <u>Non-Bonded Projects</u> | | | | | | | | | | |
| wra 072 | | | | | | | | | | |
| wra 073 | | | | | | | | | | |
| wra 074 | | | | | | | | | | |
| wra 063 | 800,000 | | | | | | | | | |
| wra 094 | 248,500 | 40,000 | (6,443) | - | - | | | | | |
| wra 084 | | | | | | | | | | |
| wra 069 | 25,000 | 100,500 | 42,500 | 45,000 | 45,000 | | | | | |
| wra 078 | | 200,000 | 300,000 | 300,000 | 325,000 | | | | | |
| wra 076 | 96,773 | | | | | | | | | |
| wra 077 | | | | | | | | | | |
| wra 070 | | 719,500 | 905,000 | 901,443 | 880,000 | | | | | |
| wra 083 | 850,000 | | | | | | | | | |
| wra 091 | | 800,000 | 862,500 | 880,000 | 750,000 | | | | | |
| wra 091 | | | | | | | | | | |
| wra 096 | - | 240,000 | 96,443 | 93,557 | | | | | | |
| wra 080 | | | | | | | | | | |
| Total Non Bonded Project Costs | 2,020,273 | 2,100,000 | 2,200,000 | 2,220,000 | 2,000,000 | | | | | |

WASTEWATER RECLAMATION AUTHORITY

CIP Detail Cost by Year

Fiscal Year 2008

Capital Improvement Project Expenses by Year

| | | Total Est. Project Cost | Costs through 06 | Revised F07 Costs | Recomm. F08 Costs | Recomm. F09 Costs |
|--|---|----------------------------|---------------------|----------------------|----------------------|----------------------|
| Core Projects | | | | | | |
| wra 086 | Des Moines River Outfall | 45,185,489 | 7,127,709 | 6,247,780 | 830,000 | 2,600,000 |
| wra 087 | East 20th St. Connector | 6,467,046 | 6,467,046 | | | |
| wra 09x | Combined Sewer Solids Separation | 39,855,755 | - | - | 500,000 | 3,394,108 |
| wra 09x | WRF Nutrient Removal | 25,824,409 | - | - | - | - |
| wra 084 | Emission Reduction | (1) 6,289,658 | 600,452 | 5,689,206 | - | - |
| wra 093 | Flow Monitoring System | 6,911,747 | - | 1,400,000 | 5,511,747 | - |
| wra 088 | Ingersoll Run Sewer | 2,507,069 | 199,175 | 2,187,818 | 120,076 | - |
| wra 077 | Power Generation System | (1) 5,135,297 | 942,895 | 1,154,902 | - | - |
| wra 074 | Digester Improvements | (1) 11,703,745 | - | 21,420 | 1,500,000 | 10,182,325 |
| wra 080 | Westside Basin Interceptor | (1) 5,419,376 | 290,013 | 4,419,363 | 710,000 | - |
| Subtotal Core Projects | | 155,299,591 | 15,627,290 | 21,120,489 | 9,171,823 | 16,176,433 |
| Expansion Projects | | | | | | |
| wra 085 | Ankeny Four Mile Interceptor Ext. | 24,767,988 | 6,966,147 | 2,636,341 | 1,645,500 | - |
| wra 09x | FourMi Interceptor Improv. | 19,306,283 | - | 1,526,283 | 440,000 | - |
| wra 095 | Little Four Mile Int. South | 4,517,716 | 3,868,366 | 649,350 | - | - |
| wra 089 | Little Four Mile Int. Ext. | 2,690,771 | 2,260,144 | 430,627 | - | - |
| wra 090 | Middle Creek Trunk Sewer | 7,688,518 | 2,222,553 | 2,162,965 | 160,500 | 3,142,500 |
| wra 09x | Mud Creek Interceptor | 16,424,000 | - | - | - | - |
| wra 082 | WDM Outfall | 18,235,256 | 631,956 | 1,678,182 | 6,676,176 | - |
| wra 092 | WDM Outfall Ext. | 8,581,479 | - | 1,083,818 | 3,297,661 | - |
| Subtotal Expansion Projects | | 102,212,011 | 15,949,166 | 10,167,566 | 12,219,837 | 3,142,500 |
| wra 081 | South West Area Diversion Facilities | 94,853,146 | 939,088 | 18,013,001 | 10,200,000 | 35,096,048 |
| Total Bonded Project Costs | | 352,364,748 | 32,515,544 | 49,301,056 | 31,591,660 | 54,414,981 |
| Non-Bonded (funded) Projects | | | | | | |
| wra 072 | Aeration Blowers | 1,173,011 | 884,526 | 288,485 | - | - |
| wra 073 | DeWatering System & Thickening Centrifuges | 7,569,824 | 6,956,484 | 613,340 | - | - |
| wra 074 | Digester Gas System [also on Core Project list] | (1) 1,402,754 | 214,649 | 1,188,105 | - | - |
| wra 068 | Disinfection System | | | | | |
| wra 063 | Add Pers/ Residual Storage Facilities | | | | | |
| wra 094 | Asset Management | 282,057 | 282,057 | | | |
| wra 084 | Emission Reduction [also on Core Project list] | (1) 403,124 | 403,124 | | | |
| wra 069 | Facilities Plan Update | 1,038,620 | 705,222 | 63,398 | 45,000 | 45,000 |
| wra 078 | Facilities Rehabilitation | 2,984,103 | 278,656 | 455,447 | 450,000 | 400,000 |
| wra 076 | Hauled Waste Receiving Station | 5,251,675 | 4,701,675 | 550,000 | - | - |
| wra 077 | Power Generation System [also on Core Project list] | (1) 616,476 | 616,476 | | | |
| wra 070 | Process Equipment Replacement | 8,974,134 | 2,568,766 | 1,103,925 | 1,001,443 | 980,000 |
| wra 083 | Small CIP past projects | 1,930,567 | 1,419,265 | 511,302 | - | - |
| wra 091 | Small CIP current projects | 2,992,500 | 57,132 | 1,355,368 | 830,000 | 750,000 |
| wra 099 | Small CIP future projects | 3,000,000 | - | - | - | - |
| wra 091 | Small CIP corridor preservation | 300,000 | - | 250,000 | 50,000 | - |
| wra 096 | Transition Costs | 430,000 | 233,251 | 96,749 | 100,000 | - |
| wra 080 | Westside Basin [also on Core Project list] | (1) 23,410 | 23,410 | | | |
| Total Non-Bonded Project Costs | | 38,372,255 | 19,344,693 | 6,476,119 | 2,476,443 | 2,175,000 |
| WRA Total Expenses for Projects | | 390,737,003 | 51,860,237 | 55,777,175 | 34,068,103 | 56,589,981 |
| | see Summary page | col 2 | col 3 | col 4 | col 7 | col 8 |

(1) Some continuing projects will use bonding for a portion of future costs [therefore that project is listed twice].

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> | | 2006 BOOK | 2007 BOOK | 2008 FILE | |
| wra 086 | Des Moines River Outfall | 44,083,192 | 45,183,192 | 45,185,489 | 2,297 |
| wra 087 | East 20th St. Connector future | - | 7,512,709 | 0 | (7,512,709) |
| wra 087 | East 20th St. Connector current | 13,802,805 | 6,290,096 | 6,467,046 | 176,950 |
| wra 084 | Emission Reduction | 6,689,807 | 6,692,782 | 6,692,782 | - |
| wra 093 | Flow Monitoring System | 6,911,747 | 6,911,747 | 6,911,747 | - |
| wra 088 | Ingersoll Run Sewer | 2,096,553 | 2,500,000 | 2,507,069 | 7,069 |
| wra 074 | Digester Gas System (also listed below) | - | 12,235,079 | 13,106,499 | 871,420 |
| wra 077 | Power Generation System | 6,872,355 | 6,872,355 | 5,751,773 | (1,120,582) |
| wra 080 | Westside Basin Interceptor | 6,313,068 | 6,313,068 | 5,442,786 | (870,282) |
| | Subtotal Core Projects | 86,769,527 | 100,511,028 | 92,065,191 | (8,445,837) |
| <u>Expansion Projects</u> | | | | | |
| wra 085 | Ankeny Four Mile Interceptor Ext. | 16,503,386 | 24,743,265 | 24,767,988 | 24,723 |
| | FourMi Interceptor Improv. | 14,836,995 | 19,310,000 | 19,306,283 | (3,717) |
| wra 095 | Little Four Mile Int. South | 3,662,000 | 4,480,740 | 4,517,716 | 36,976 |
| wra 089 | Little Four Mile Int. Ext. | 1,677,000 | 2,673,314 | 2,690,771 | 17,457 |
| wra 090 | Middle Creek Trunk Sewer | 4,093,346 | 7,493,871 | 7,688,518 | 194,647 |
| | Mud Creek Interceptor | 8,715,738 | 16,424,000 | 16,424,000 | - |
| wra 082 | WDM Outfall | 4,006,201 | 16,008,394 | 18,235,256 | 2,226,862 |
| wra 092 | WDM Outfall Ext. | 11,482,344 | 8,597,522 | 8,581,479 | (16,043) |
| | Subtotal Expansion Projects | 64,977,010 | 99,731,106 | 102,212,011 | 2,480,905 |
| wra 081 | South West Area Diversion Facilities | 71,336,960 | 94,999,208 | 94,853,146 | (146,062) |
| | South West Area Diversion Facilities | 71,336,960 | 94,999,208 | 94,853,146 | (146,062) |
| <u>Future Projects & Other</u> | | | | | |
| | Nutrient Removal | 25,824,409 | 25,824,409 | 25,824,409 | - |
| | Combined Sewer Solids Separation Design | 39,855,755 | 39,855,755 | 39,855,755 | - |
| | Subtotal Future Projects | 65,680,164 | 65,680,164 | 65,680,164 | - |
| | Total Bonded Project Costs | 288,763,661 | 360,921,506 | 354,810,512 | (6,110,994) |
| <u>Non-Bonded Projects</u> | | | | | |
| wra 063 | Add Pers/ Residual Storage Facilities | 18,212,866 | | | - |
| wra 068 | Disinfection System | 197,947 | | | - |
| wra 069 | Facilities Plan Update | 936,120 | 981,120 | 1,038,620 | 57,500 |
| wra 094 | Asset Management | 288,500 | 288,500 | 282,057 | (6,443) |
| wra 096 | Transition Costs | 240,000 | 300,000 | 430,000 | 130,000 |
| wra 072 | Aeration Blowers | 1,512,355 | 1,107,917 | 1,173,011 | 65,094 |
| wra 073 | DeWatering System & Thickening Centrifuges | 8,119,824 | 8,119,824 | 7,569,824 | (550,000) |
| wra 076 | Hauled Waste Receiving Station | 4,759,838 | 4,759,838 | 5,251,675 | 491,837 |
| wra 074 | Digester Gas System (core project) | 12,235,079 | | | |
| wra 070 | Process Equipment Replacement | 5,217,691 | 6,032,691 | 8,974,134 | 2,941,443 |
| wra 078 | Facilities Rehabilitation | 2,960,600 | 2,710,600 | 2,984,103 | 273,503 |
| wra 083 | Small CIP past projects | 2,755,776 | 2,780,567 | 1,930,567 | (850,000) |
| wra xxx | Corridor Preservation | - | - | 300,000 | 300,000 |
| wra 091 | Small CIP current projects | 8,315,000 | 9,420,000 | 2,992,500 | (6,427,500) |
| wra 099 | Small CIP future projects | - | - | 3,000,000 | 3,000,000 |
| | Total Non-Bonded Project Costs | 65,751,596 | 36,501,057 | 35,926,491 | (574,566) |
| | WRA Total Expenses for Projects | 354,515,257 | 397,422,563 | 390,737,003 | (6,685,560) |

* Project completed

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | PROJECT TITLE | | | | | | | | ACCOUNT | |
|--|----------------------|-------------------|---------------------|---------------------------------|--------------------|----------------------------|---|--------|--------|--------|--------|---------------------------------------|-----------------|
| Wastewater Reclamation Authority Improvements | | | | WRA Facility Plan Update | | | | | | | | AG267 WRA990000 WRA069 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 1,038,620 | 681,321 | 23,901 | 705,222 | 63,398 | 768,620 | 45,000 | 45,000 | 45,000 | 45,000 | 45,000 | 45,000 | |
| Beginning Balance | | | | | 20,898 | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | 1,038,620 | 55,701 625,620 | (55,701) 100,500 | 726,120 | 42,500 | 768,620 | 45,000 | 45,000 | 45,000 | 45,000 | 45,000 | 45,000 | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 1,038,620 | 681,321 | 44,799 | 726,120 | 63,398 | 768,620 | 45,000 | 45,000 | 45,000 | 45,000 | 45,000 | 45,000 | |
| ENDING BALANCE | 0 | 0 | 20,898 | 20,898 | 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 includes financial planning.

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:

The size and number of facilities will increase. Proportionate shares will change and the number of contributing communities will increase. Operating and Maintenance effects will vary by project.

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | PROJECT TITLE | | | | | | | | ACCOUNT | | |
|--|----------------------------|------------------------|--------------------------|--|--------------------------|----------------------------------|---|---------|---------|---------|---------|---------------------------------------|-----------------------|---|
| Wastewater Reclamation Authority Improvements | | | | WRF Process Equipment Replacement | | | | | | | | AG267 WRA990000 WRA070 | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | | |
| Expenses | 8,974,134 | 2,024,988 | 543,778 | 2,568,766 | 1,103,925 | 3,672,691 | 1,001,443 | 980,000 | 830,000 | 830,000 | 830,000 | 830,000 | 830,000 | 0 |
| Beginning Balance | | | | | 98,925 | | | | | | | | | |
| Interest Earnings | 700,000 | | | | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | |
| Repair and Replacement Fund | 1,948,191 | 2,024,988 | (76,797) | 1,948,191 | | 1,948,191 | | | | | | | | |
| Communities | 6,325,943 | | 719,500 | 719,500 | 905,000 | 1,624,500 | 901,443 | 880,000 | 730,000 | 730,000 | 730,000 | 730,000 | 730,000 | |
| SRF Drawdowns | | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| Total Resources | 8,974,134 | 2,024,988 | 642,703 | 2,667,691 | 1,103,925 | 3,672,691 | 1,001,443 | 980,000 | 830,000 | 830,000 | 830,000 | 830,000 | 830,000 | |
| ENDING BALANCE | 0 | 0 | 98,925 | 98,925 | 0 | 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:

F05: Digested sludge recirculation pumps, Membrane dryer, Digester feed valve controller, Digester lobe flow pumps.

F06: Chlorinator 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.

F07: Bldg 91 Air Compressors; Building 80-1,2,3 way valves; Limitorque for Digester Feed; replace 20,21 Air dryers; 24" RSL Flow Meters; Chlorine residual analyzer; 18" RSL flow meters; Process Air blower PLC's; Pretreatment Sampler; Grit and Lime screw conveyors, Bldg 12 Grease Process Controls

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

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 | | | |
|--|----------------------|------------------|--------------------|-----------------------------|--------------------|----------------------------|---|-----|-----|---------------------------------------|-----|-----|-----------------|
| Wastewater Reclamation Authority Improvements | | | | WRF Aeration Blowers | | | | | | AG267 WRA990000 WRA072 | | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 1,173,011 | 206,682 | 677,844 | 884,526 | 288,485 | 1,173,011 | | | | | | | |
| Beginning Balance | | | | | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | 1,173,011 | 206,682 | 677,844 | 884,526 | 288,485 | 1,173,011 | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 1,173,011 | 206,682 | 677,844 | 884,526 | 288,485 | 1,173,011 | | | | | | | |
| ENDING BALANCE | 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 | | |
|--|----------------------------|------------------------|--------------------------|---|--------------------------|----------------------------------|---|-----|-----|-----|---------------------------------------|-----------------------|-----|
| Wastewater Reclamation Authority Improvements | | | | WRF Dewatering and Thickening System | | | | | | | AG267 WRA990000 WRA073 | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | | F13 |
| Expenses | 7,569,824 | 5,930,889 | 1,025,595 | 6,956,484 | 613,340 | 7,569,824 | | | | | | | |
| Beginning Balance | | | | | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | 7,569,824 | 5,930,889 | 1,025,595 | 6,956,484 | 613,340 | 7,569,824 | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 7,569,824 | 5,930,889 | 1,025,595 | 6,956,484 | 613,340 | 7,569,824 | | | | | | | |
| ENDING BALANCE | 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 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | PROJECT TITLE | | | | | | | | ACCOUNT | | |
|--|----------------------|------------------|--------------------|----------------------------------|--------------------|----------------------------|---|------------|-----|-----|-----|---------------------------------------|-----------------|--|
| Wastewater Reclamation Authority Improvements | | | | WRF Digester Improvements | | | | | | | | AG267 WRA990000 WRA074 | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | | |
| Expenses | 13,106,499 | 162,754 | 51,895 | 214,649 | 1,209,525 | 1,424,174 | 1,500,000 | 10,182,325 | | | | | | |
| Beginning Balance | | | | | 1,188,105 | | (21,420) | 10,182,325 | | | | | | |
| Interest Earnings | | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | 552,754 | 162,754 | 390,000 | 552,754 | | 552,754 | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | | |
| Bond Proceeds | 11,703,745 | | | | | | 11,703,745 | | | | | | | |
| Other / from Small CIP | 850,000 | | 850,000 | 850,000 | | 850,000 | | | | | | | | |
| Total Resources | 13,106,499 | 162,754 | 1,240,000 | 1,402,754 | 1,188,105 | 1,402,754 | 11,682,325 | 10,182,325 | | | | | | |
| ENDING BALANCE | 0 | 0 | 1,188,105 | 1,188,105 | (21,420) | (21,420) | 10,182,325 | 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 involve improving the mixing system, repairing the insulated covers, and upgrading the digester gas system.

Justification:

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

Scheduling:

The study and design are scheduled for F08 with construction in F08 through F10. A project to replace the piping from the digesters to the power generation building was designed and constructed in F02 and F03. A study is being done in F07/08 to investigate a method of increasing gas production. 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. F06 are 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 | | | |
|--|----------------------------|------------------------|--------------------------|---|--------------------------|----------------------------------|---|-----|-----|---------------------------------------|-----|-----|-----------------------|
| Wastewater Reclamation Authority Improvements | | | | WRF Hauled Waste Receiving Station | | | | | | AG267 WRA990000 WRA076 | | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 5,251,675 | 1,696,350 | 3,005,325 | 4,701,675 | 550,000 | 5,251,675 | | | | | | | |
| Beginning Balance | | | | | 287,718 | | | | | | | | |
| Interest Earnings | 44,247 | 44,247 | | 44,247 | | 44,247 | | | | | | | |
| Repair and Replacement Fund Communities | 262,282 | | | | 262,282 | 262,282 | | | | | | | |
| SRF Drawdowns #7 | 3,021,186 | 3,021,186 | | 3,021,186 | | 3,021,186 | | | | | | | |
| Bond Proceeds | 1,923,960 | 184,200 | | 1,739,760 | | 1,923,960 | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 5,251,675 | 3,249,633 | 1,739,760 | 4,989,393 | 550,000 | 5,251,675 | | | | | | | |
| ENDING BALANCE | 0 | 1,553,283 | (1,265,565) | 287,718 | 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 | | |
|--|----------------------------|------------------------|--------------------------|------------------------------------|--------------------------|----------------------------------|---|-----|-----------|-----|-----|---------------------------------------|-----------------------|---|
| Wastewater Reclamation Authority Improvements | | | | WRF Power Generation System | | | | | | | | AG267 WRA990000 WRA077 | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | | |
| Expenses | 5,751,773 | 1,556,721 | 2,650 | 1,559,371 | 1,154,902 | 2,714,273 | | | 3,037,500 | | | | | |
| Beginning Balance | | | | | 812,984 | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | | |
| Repair and Replacement Fund | 616,476 | 616,476 | | 616,476 | | 616,476 | | | | | | | | |
| Communities | | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | | |
| Bond Proceeds | 5,955,897 | 1,755,879 | | 1,755,879 | 1,162,518 | 2,918,397 | | | 3,037,500 | | | | | |
| Other | (820,600) | 320,000 | (320,000) | | (820,600) | (820,600) | | | | | | | | |
| Total Resources | 5,751,773 | 2,692,355 | (320,000) | 2,372,355 | 1,154,902 | 2,714,273 | | | 3,037,500 | | | | | |
| ENDING BALANCE | 0 | 1,135,634 | (322,650) | 812,984 | 0 | 0 | 0 | 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 | |
|--|----------------------|------------------|--------------------|--------------------------------------|--------------------|----------------------------|---|---------|---------|---------|---------|---------------------------------------|-----------------|
| Wastewater Reclamation Authority Improvements | | | | WRF Facilities Rehabilitation | | | | | | | | AG267 WRA990000 WRA078 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 2,984,103 | 205,180 | 73,476 | 278,656 | 455,447 | 734,103 | 450,000 | 400,000 | 350,000 | 350,000 | 350,000 | 350,000 | |
| Beginning Balance | | | | | 230,447 | | 125,000 | 25,000 | | | | | |
| Interest Earnings | 450,000 | | | | 50,000 | 50,000 | 50,000 | 50,000 | 75,000 | 75,000 | 75,000 | 75,000 | |
| Repair and Replacement Fund Communities | 309,103 | 205,180 | 103,923 | 309,103 | | 309,103 | | | | | | | |
| SRF Drawdowns | 2,225,000 | | 200,000 | 200,000 | 300,000 | 500,000 | 300,000 | 325,000 | 275,000 | 275,000 | 275,000 | 275,000 | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 2,984,103 | 205,180 | 303,923 | 509,103 | 580,447 | 859,103 | 475,000 | 400,000 | 350,000 | 350,000 | 350,000 | 350,000 | |
| ENDING BALANCE | 0 | 0 | 230,447 | 230,447 | 125,000 | 125,000 | 25,000 | 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.

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.

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | | | | PROJECT TITLE | | | | | | ACCOUNT | |
|--|----------------------|------------------|--------------------|------------------|--------------------|----------------------------|---|-----|-----|-----|-----|-----|---------------------------------------|---|
| Wastewater Reclamation Authority Improvements | | | | | | | WRA West Side Interceptor Basin | | | | | | AG267 WRA990000 WRA080 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | | |
| Expenses | 5,442,786 | 23,410 | 290,013 | 313,423 | 4,419,363 | 4,732,786 | 710,000 | | | | | | | |
| Beginning Balance | | | | | 5,822,695 | | 1,103,332 | | | | | | | |
| Interest Earnings | 269 | 269 | | 269 | | 269 | | | | | | | | |
| Repair and Replacement Fund Communities /pre 7/1/04 | 23,141 | 23,141 | | 23,141 | | 23,141 | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | | |
| Bond Proceeds | 6,289,658 | 6,289,658 | | 6,289,658 | | 6,289,658 | | | | | | | | |
| Other | (870,282) | | (176,950) | (176,950) | (300,000) | (476,950) | (393,332) | | | | | | | |
| Total Resources | 5,442,786 | 6,313,068 | (176,950) | 6,136,118 | 5,522,695 | 5,836,118 | 710,000 | | | | | | | |
| ENDING BALANCE | 0 | 6,289,658 | (466,963) | 5,822,695 | 1,103,332 | 1,103,332 | 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 F08.

Operating Budget Effect:

Increase revenues and operations and maintenance costs.

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | PROJECT TITLE | | | | | | | | ACCOUNT | |
|--|----------------------------|------------------------|--------------------------|--|--------------------------|----------------------------------|---|-------------------|-------------------|-------------------|----------|---------------------------------------|-----------------------|
| Wastewater Reclamation Authority Improvements | | | | Southwest Area Diversion Facilities | | | | | | | | AG267 WRA990000 WRA081 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 94,853,146 | 482,586 | 456,502 | 939,088 | 18,013,001 | 18,952,089 | 10,200,000 | 35,096,048 | | 30,605,009 | | | |
| Beginning Balance | | | | | 10,844,397 | | 8,358,256 | 35,096,048 | | 30,605,009 | | | |
| Interest Earnings | 200,000 | | | | | | 200,000 | | | | | | |
| Repair and Replacement Fund Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 94,653,146 | 13,281,389 | | 13,281,389 | 15,670,700 | 28,952,089 | 35,096,048 | | 30,605,009 | | | | |
| Other / Loans | | | (1,497,904) | (1,497,904) | (143,840) | (1,641,744) | 1,641,744 | | | | | | |
| Total Resources | 94,853,146 | 13,281,389 | (1,497,904) | 11,783,485 | 26,371,257 | 27,310,345 | 45,296,048 | 35,096,048 | 30,605,009 | 30,605,009 | | | |
| ENDING BALANCE | 0 | 12,798,803 | (1,954,406) | 10,844,397 | 8,358,256 | 8,358,256 | 35,096,048 | 0 | 30,605,009 | 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.

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 F04/05 and constructed in F06. The North River Interceptor will be designed in F05/06 and constructed in F06/07. The diversion sewer will be will be constructed in 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. This project will have available cash flow that may be utilized by expansion projects until the next bonding proceeds are available.

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 |
|--|----------------------|------------------|--------------------|------------------|--------------------------------|----------------------------|---|-----------|-----------|-----|-----|-----|---------------------------------------|
| Wastewater Reclamation Authority Improvements | | | | | West Des Moines Outfall | | | | | | | | AG267 WRA990000 WRA082 |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND 2,013 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 18,235,256 | 629,513 | 2,443 | 631,956 | 1,678,182 | 2,310,138 | 6,676,176 | | 4,508,657 | | | | 4,740,285 |
| Beginning Balance | | | | | 36,438 | | | | 4,508,657 | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 18,235,256 | 668,394 | | 668,394 | | 668,394 | 8,317,920 | 4,508,657 | | | | | 4,740,285 |
| Other | | | | | 1,641,744 | 1,641,744 | (1,641,744) | | | | | | |
| Total Resources | 18,235,256 | 668,394 | | 668,394 | 1,678,182 | 2,310,138 | 6,676,176 | 4,508,657 | 4,508,657 | | | | |
| ENDING BALANCE | 0 | 38,881 | (2,443) | 36,438 | 0 | 0 | 0 | 4,508,657 | 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. The project will provide a connection to the Southwest Area Diversion Facility at its east terminus and a connection to the West Des Moines Outfall Extension on its west terminus.

Justification:

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

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.

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Expansion Flow

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | PROJECT TITLE | | | | | | | ACCOUNT | | |
|--|----------------------------|------------------------|--------------------------|---|--------------------------|----------------------------------|---|-----|-----|-----|---------------------------------------|-----|-----------------------|
| Wastewater Reclamation Authority Improvements | | | | WRF Small Capital Projects FY05 and past | | | | | | | AG267 WRA990000 WRA083 | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 1,930,567 | 1,027,844 | 391,421 | 1,419,265 | 511,302 | 1,930,567 | | | | | | | |
| Beginning Balance | | | | | 511,302 | | | | | | | | |
| 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 | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other / to WRA074 | (850,000) | | (850,000) | (850,000) | | (850,000) | | | | | | | |
| Total Resources | 1,930,567 | 2,780,567 | (850,000) | 1,930,567 | 511,302 | 1,930,567 | | | | | | | |
| ENDING BALANCE | 0 | 1,752,723 | (1,241,421) | 511,302 | 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 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | PROJECT TITLE | | | | | | | | ACCOUNT | |
|--|----------------------|------------------|--------------------|-------------------------------|--------------------|----------------------------|---|-----|-----|-----|-----|---------------------------------------|-----------------|
| Wastewater Reclamation Authority Improvements | | | | WRF Emission Reduction | | | | | | | | AG267 WRA990000 WRA084 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 6,692,782 | 478,014 | 525,562 | 1,003,576 | 5,689,206 | 6,692,782 | | | | | | | |
| Beginning Balance | | | | | 5,689,206 | | | | | | | | |
| Interest Earnings | 3,124 | 3,124 | | 3,124 | | 3,124 | | | | | | | |
| 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 | | 6,289,658 | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 6,692,782 | 6,692,782 | | 6,692,782 | 5,689,206 | 6,692,782 | | | | | | | |
| ENDING BALANCE | 0 | 6,214,768 | (525,562) | 5,689,206 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

Justification:

The WRF must comply with regulations regarding emissions

Scheduling:

Design F05. Construction in F06 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 | | | |
|--|----------------------|------------------|--------------------|--|--------------------|----------------------------|---|-----|------------|---------------------------------------|-----|-----------------|-----|
| Wastewater Reclamation Authority Improvements | | | | WRA Four Mile Interceptor Extension | | | | | | AG267 WRA990000 WRA085 | | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | | F13 |
| Expenses | 24,767,988 | 628,759 | 6,337,388 | 6,966,147 | 2,636,341 | 9,602,488 | 1,645,500 | | | 13,520,000 | | | |
| Beginning Balance | | | | | 2,846,118 | | 1,645,500 | | | 13,520,000 | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 24,767,988 | 9,812,265 | | 9,812,265 | 1,435,723 | 11,247,988 | | | 13,520,000 | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 24,767,988 | 9,812,265 | | 9,812,265 | 4,281,841 | 11,247,988 | 1,645,500 | | 13,520,000 | 13,520,000 | | | |
| ENDING BALANCE | 0 | 9,183,506 | (6,337,388) | 2,846,118 | 1,645,500 | 1,645,500 | 0 | 0 | 13,520,000 | 0 | 0 | 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 and Williams Street to Broadway.

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 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | PROJECT TITLE | | | | | | | | | | ACCOUNT | | |
|--|----------------------|------------------|--------------------|------------------|--|----------------------------|---|-----------|------------|------------|-----|---------------------------------------|-----------------|---|
| Wastewater Reclamation Authority Improvements | | | | | Des Moines River Outfall/Main Outfall | | | | | | | AG267 WRA990000 WRA086 | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | | |
| Expenses | 45,185,489 | 3,523,820 | 3,603,889 | 7,127,709 | 6,247,780 | 13,375,489 | 830,000 | 2,600,000 | 15,480,000 | 12,900,000 | | | | |
| Beginning Balance | | | | | 1,198,017 | | 1,130,000 | 600,000 | 1,500,000 | | | | | |
| Interest Earnings | | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | | |
| Communities | | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | | |
| Bond Proceeds | 45,185,489 | 8,325,726 | | 8,325,726 | 6,479,763 | 14,805,489 | | 3,500,000 | 13,980,000 | 12,900,000 | | | | |
| Other | | | | | (300,000) | (300,000) | 300,000 | | | | | | | |
| Total Resources | 45,185,489 | 8,325,726 | | 8,325,726 | 7,377,780 | 14,505,489 | 1,430,000 | 4,100,000 | 15,480,000 | 12,900,000 | | | | |
| ENDING BALANCE | 0 | 4,801,906 | (3,603,889) | 1,198,017 | 1,130,000 | 1,130,000 | 600,000 | 1,500,000 | 0 | 0 | 0 | 0 | 0 | 0 |

Description: Core Project.

This project provides for construction of a large outfall sewer along the west side of the Des Moines River from 3rd Street and Watson Powell Drive to south of Elm Street and along the east side of the Des Moines River from Raccoon Street to the south side of Scott Avenue, 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.

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 | |
|--|----------------------|-----------------------------------|--------------------|------------------|--------------------|----------------------------|---|-----|-----|-----|-----|---------------------------------------|-----------------|
| Wastewater Reclamation Authority Improvements | | East 20th Street Connector | | | | | | | | | | AG267 WRA990000 WRA087 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | F13 |
| Expenses | 6,467,046 | 5,129,300 | 1,337,746 | 6,467,046 | | 6,467,046 | | | | | | | |
| Beginning Balance | | | | | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 6,290,096 | 6,290,096 | | 6,290,096 | | 6,290,096 | | | | | | | |
| Other | 176,950 | | 176,950 | 176,950 | | 176,950 | | | | | | | |
| Total Resources | 6,467,046 | 6,290,096 | 176,950 | 6,467,046 | | 6,467,046 | | | | | | | |
| ENDING BALANCE | 0 | 1,160,796 | (1,160,796) | 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 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.

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 |
|--|----------------------|------------------|--------------------|------------------|--------------------|----------------------------|---|-----|-----|-----|-----|-----|---------------------------------------|
| Wastewater Reclamation Authority Improvements | | | | | | | Ingersoll Run Combined Sewer | | | | | | AG267 WRA990000 WRA088 |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 2,507,069 | 89,924 | 109,251 | 199,175 | 2,187,818 | 2,386,993 | 120,076 | | | | | | |
| Beginning Balance | | | | | 1,897,378 | | 120,076 | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 2,507,069 | 2,096,553 | | 2,096,553 | 410,516 | 2,507,069 | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 2,507,069 | 2,096,553 | | 2,096,553 | 2,307,894 | 2,507,069 | 120,076 | | | | | | |
| ENDING BALANCE | 0 | 2,006,629 | (109,251) | 1,897,378 | 120,076 | 120,076 | 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 2008/Fiscal 2013 Capital Improvements Program | | | | | | | | | | | | | |
|---|-----------|-----------|-------------|-----------|-----------|--------------|---|-----|-----|-----|-----|-----|------------------------------|
| PROJECT CATEGORY | | | | | | | PROJECT TITLE | | | | | | ACCOUNT |
| Wastewater Reclamation Authority Improvements | | | | | | | Little Four Mile Interceptor Extension | | | | | | AG267 WRA990000 WRA089 |
| | TOTAL | COST | ACTUAL | COST | REVISED | ESTIMATED | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST |
| | ESTIMATED | THROUGH | COST IN | THROUGH | BUDGET | COST THROUGH | F08 | F09 | F10 | F11 | F12 | F13 | BEYOND |
| | COST | F05 | F06 | F06 | F07 | F07 | | | | | | | F13 |
| Expenses | 2,690,771 | 85,996 | 2,174,148 | 2,260,144 | 430,627 | 2,690,771 | | | | | | | |
| Beginning Balance | | | | | (583,144) | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 2,690,771 | 1,677,000 | | 1,677,000 | 1,013,771 | 2,690,771 | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 2,690,771 | 1,677,000 | | 1,677,000 | 430,627 | 2,690,771 | | | | | | | |
| ENDING BALANCE | 0 | 1,591,004 | (2,174,148) | (583,144) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>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.</p> <p>Justification: This will provide the primary WRA connection for the City of Altoona.</p> <p>Scheduling: Design:F05, Construction:F06.</p> <p>Relationship to General Plan and Other Projects: This project is included in the WRA Facility Plan Update.</p> <p>Operating Budget Effect: Revenues and operations and maintenance costs will increase.</p> | | | | | | | | | | | | | |

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | PROJECT TITLE | | | | | | | | | | ACCOUNT | |
|--|----------------------|---|--------------------|------------------|--------------------|----------------------------|---|-----------|-----|-----|-----|---------------------------------------|-----------------|
| Wastewater Reclamation Authority Improvements | | Middle Creek Trunk Sewer Extension | | | | | | | | | | AG267 WRA990000 WRA090 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 7,688,518 | 95,863 | 2,126,690 | 2,222,553 | 2,162,965 | 4,385,518 | 160,500 | 3,142,500 | | | | | |
| Beginning Balance | | | | | 151,447 | | 500 | 3,142,500 | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 7,688,518 | 2,374,000 | | 2,374,000 | 2,012,018 | 4,386,018 | 3,302,500 | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 7,688,518 | 2,374,000 | | 2,374,000 | 2,163,465 | 4,386,018 | 3,303,000 | 3,142,500 | | | | | |
| ENDING BALANCE | 0 | 2,278,137 | (2,126,690) | 151,447 | 500 | 500 | 3,142,500 | 0 | 0 | 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, 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 |
|--|----------------------|------------------|--------------------|------------------|--------------------|----------------------------|--|---------|-----|-----|-----|-----|---------------------------------------|
| Wastewater Reclamation Authority Improvements | | | | | | | WRF Small Capital Projects 20 06,07,08,09 | | | | | | AG267 WRA990000 WRA091 |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 2,992,500 | | 57,132 | 57,132 | 1,355,368 | 1,412,500 | 830,000 | 750,000 | | | | | |
| Beginning Balance | | | | | 742,868 | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | 3,292,500 | | 800,000 | 800,000 | 862,500 | 1,662,500 | 880,000 | 750,000 | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other | (300,000) | | | | (250,000) | (250,000) | (50,000) | | | | | | |
| Total Resources | 2,992,500 | | 800,000 | 800,000 | 1,355,368 | 1,412,500 | 830,000 | 750,000 | | | | | |
| ENDING BALANCE | 0 | 0 | 742,868 | 742,868 | 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:

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.

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 | |
|--|----------------------------|------------------------|--------------------------|------------------------|--|----------------------------------|---|-----|---------|---------|---------|---------|---------------------------------------|--|
| Wastewater Reclamation Authority Improvements | | | | | WRF Small Capital Projects Beyond FY 2009 | | | | | | | | AG267 WRA990000 WRA099 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | | |
| Expenses | 3,000,000 | | | | | | | | 750,000 | 750,000 | 750,000 | 750,000 | | |
| Beginning Balance | | | | | | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | | |
| Communities | 3,000,000 | | | | | | | | 750,000 | 750,000 | 750,000 | 750,000 | | |
| SRF Drawdowns | | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| Total Resources | 3,000,000 | | | | | | | | 750,000 | 750,000 | 750,000 | 750,000 | | |
| ENDING BALANCE | 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:

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;Bed B storage Shed;Electric Cart Storage Shed;Scum Valve Controllers;VFD's for PAB; Unanticipated Needs

Relationship to General Plan and Other Projects:

Operating Budget Effect:

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | | | | PROJECT TITLE | | | | | | ACCOUNT |
|--|----------------------|------------------|--------------------|------------------|--------------------|----------------------------|---|-----|-----------|-----------|-----|-----|---------------------------------------|
| Wastewater Reclamation Authority Improvements | | | | | | | West Des Moines Outfall Extension | | | | | | AG267 WRA990000 WRA092 |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 8,581,479 | | | | 1,083,818 | 1,083,818 | 3,297,661 | | | 4,200,000 | | | |
| Beginning Balance | | | | | 1,017,522 | 1,017,522 | 3,297,661 | (0) | (0) | 4,200,000 | (0) | (0) | |
| Interest Earnings | 66,296 | | | | 66,296 | 66,296 | | | | | | | |
| Repair and Replacement Fund Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 8,515,183 | | 1,017,522 | 1,017,522 | 3,297,661 | 4,315,183 | | | 4,200,000 | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 8,581,479 | | 1,017,522 | 1,017,522 | 4,381,479 | 4,381,479 | 3,297,661 | (0) | 4,200,000 | 4,200,000 | (0) | (0) | |
| ENDING BALANCE | (0) | 0 | 1,017,522 | 1,017,522 | 3,297,661 | 3,297,661 | (0) | (0) | 4,200,000 | (0) | (0) | (0) | 0 |

Description: Expansion Project.
 This project will increase the service area and capacity of the West Des Moines Outfall.
 Phase 1-60th Street to 74th Street.
 Phase 2-South 35th Street to 60th Street.
 Phase 3-74th Street to Interstate 80.

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.

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 | | |
|--|----------------------|------------------|--------------------|--|--------------------|----------------------------|---|-----|-----|-----|-----|---------------------------------------|-----------------|--|
| Wastewater Reclamation Authority Improvements | | | | WRA Flow Monitoring System Improvements | | | | | | | | AG267 WRA990000 WRA093 | | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 | |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | | |
| Expenses | 6,911,747 | | | | 1,400,000 | 1,400,000 | 5,511,747 | | | | | | | |
| Beginning Balance | | | | | | | 411,945 | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | | |
| Bond Proceeds | 6,911,747 | | | | 1,511,945 | 1,511,945 | 5,399,802 | | | | | | | |
| Other | | | | | 300,000 | 300,000 | (300,000) | | | | | | | |
| Total Resources | 6,911,747 | | | | 1,811,945 | 1,811,945 | 5,511,747 | | | | | | | |
| ENDING BALANCE | 0 | 0 | 0 | 0 | 411,945 | 411,945 | 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 F06 and continue through 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 | |
|--|----------------------------|------------------------|--------------------------|------------------------|-----------------------------|----------------------------------|---|-----|-----|-----|-----|------------------|-----------------------|
| Wastewater Reclamation Authority Improvements | | | | | WRA Asset Management | | | | | | | AG267 | |
| | | | | | | | | | | | | WRA990000 | |
| | | | | | | | | | | | | WRA094 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 282,057 | 206,983 | 75,074 | 282,057 | | 282,057 | | | | | | | |
| Beginning Balance | | | | | 6,443 | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | 282,057 | 248,500 | 40,000 | 288,500 | (6,443) | 282,057 | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 282,057 | 248,500 | 40,000 | 288,500 | | 282,057 | | | | | | | |
| ENDING BALANCE | 0 | 41,517 | (35,074) | 6,443 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Description: Core Project. 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 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | PROJECT TITLE | | | | | | | | | | ACCOUNT | |
|--|----------------------|--|--------------------|------------------|--------------------|----------------------------|---|-----|-----|-----|-----|---------------------------------------|-----------------|
| Wastewater Reclamation Authority Improvements | | Little Four Mile Interceptor-South Branch | | | | | | | | | | AG267 WRA990000 WRA095 | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 4,517,716 | 201,536 | 3,666,830 | 3,868,366 | 649,350 | 4,517,716 | | | | | | | |
| Beginning Balance | | | | | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 4,517,716 | 2,370,462 | | 2,370,462 | 2,147,254 | 4,517,716 | | | | | | | |
| Other / SW Borrowing | | | 1,497,904 | 1,497,904 | (1,497,904) | | | | | | | | |
| Total Resources | 4,517,716 | 2,370,462 | 1,497,904 | 3,868,366 | 649,350 | 4,517,716 | | | | | | | |
| ENDING BALANCE | 0 | 2,168,926 | (2,168,926) | 0 | 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 | |
|--|----------------------------|------------------------|--------------------------|------------------------|-----------------------------|----------------------------------|---|-----|-----|-----|-----|---------|---------------------------------------|
| Wastewater Reclamation Authority Improvements | | | | | WRA Transition Costs | | | | | | | | AG267 WRA990000 WRA096 |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 430,000 | 170,121 | 63,130 | 233,251 | 96,749 | 330,000 | 100,000 | | | | | | |
| Beginning Balance | | | | | 6,749 | | 6,443 | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | | 170,121 | (170,121) | | | | | | | | | | |
| Communities | 430,000 | | 240,000 | 240,000 | 96,443 | 336,443 | 93,557 | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 430,000 | 170,121 | 69,879 | 240,000 | 103,192 | 336,443 | 100,000 | | | | | | |
| ENDING BALANCE | 0 | 0 | 6,749 | 6,749 | 6,443 | 6,443 | 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 |
|--|----------------------|------------------|--------------------|------------------|---|----------------------------|---|------------|------------|-----------|-----|-----|---------------------------------------|
| Wastewater Reclamation Authority Improvements | | | | | Four Mile Interceptor Improvements | | | | | | | | AG267 WRA990000 WRA0xx |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | F13 |
| Expenses | 19,306,283 | | | | 1,526,283 | 1,526,283 | 440,000 | | 9,740,000 | 7,600,000 | | | |
| Beginning Balance | | | | | | | | (440,000) | 9,740,000 | 7,600,000 | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 19,306,283 | | | | 1,526,283 | 1,526,283 | | 10,180,000 | 7,600,000 | | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 19,306,283 | | | | 1,526,283 | 1,526,283 | | 9,740,000 | 17,340,000 | 7,600,000 | | | |
| ENDING BALANCE | 0 | 0 | 0 | 0 | 0 | 0 | (440,000) | 9,740,000 | 7,600,000 | 0 | 0 | 0 | 0 |

Description: Expansion Project.

Construction of a 72" sanitary sewer from the WRF to Williams Street.

Justification:

New communities contributing flow to the WRF will require that the capacity of the Four Mile Interceptor be increased.

Scheduling:

Phase 1: Design-F08, Construction-F10. Phase 2: Design-F09, Construction-F11.

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.

Operating Budget Effect:

Revenues and operations and maintenance costs will increase.

Fiscal 2008/Fiscal 2013 Capital Improvements Program

| PROJECT CATEGORY | | | | | | | PROJECT TITLE | | | | | | ACCOUNT |
|--|----------------------|------------------|--------------------|------------------|--------------------|----------------------------|---|------------|------------|------------|-----|-----|---|
| Wastewater Reclamation Authority Improvements | | | | | | | Combined Sewer Solids Separation | | | | | | AG267 WRA990000 WRAXXX |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 39,855,755 | | | | | | 500,000 | 3,394,108 | 17,713,134 | 18,248,513 | | | |
| Beginning Balance | | | | | | | | 3,394,108 | 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 | 21,107,242 | 35,961,647 | 18,248,513 | | | |
| ENDING BALANCE | 0 | 0 | 0 | 0 | 0 | 0 | 3,394,108 | 17,713,134 | 18,248,513 | 0 | 0 | 0 | 0 |

Description:

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.

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 | |
|--|----------------------------|------------------------------|--------------------------|------------------------|--------------------------|----------------------------------|---|-----|-----|------------|------------|---------------------------------------|------|
| Wastewater Reclamation Authority Improvements | | Mud Creek Interceptor | | | | | | | | | | AG267 WRA990000 WRAXXX | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 16,424,000 | | | | | | | | | | | 16,424,000 | |
| Beginning Balance | | | | | | | | | | | | 16,424,000 | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | 16,424,000 | | | | | | | | | 16,424,000 | | | |
| Other | | | | | | | | | | | | | |
| Total Resources | 16,424,000 | | | | | | | | | | 16,424,000 | 16,424,000 | |
| ENDING BALANCE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,424,000 | 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

| PROJECT CATEGORY | | | | | | | PROJECT TITLE | | | | | | ACCOUNT |
|--|----------------------------|------------------------|--------------------------|------------------------|--------------------------|----------------------------------|---|-----|-----|-----|-----|-----|---------------------------------------|
| Wastewater Reclamation Authority Improvements | | | | | | | WRA Corridor Preservation | | | | | | AG267 WRA990000 WRAXXX |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST BEYOND F13 |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 300,000 | | | | 250,000 | 250,000 | 50,000 | | | | | | |
| Beginning Balance | | | | | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fund | | | | | | | | | | | | | |
| Communities | | | | | | | | | | | | | |
| SRF Drawdowns | | | | | | | | | | | | | |
| Bond Proceeds | | | | | | | | | | | | | |
| Other ,Sm CIP temp funding | 300,000 | | | | 250,000 | 250,000 | 50,000 | | | | | | |
| Total Resources | 300,000 | | | | 250,000 | 250,000 | 50,000 | | | | | | |
| ENDING BALANCE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Description:
 Funds collected for Small CIP projects will be used temporarily for purchase of 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 FY08.

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 | |
|--|----------------------------|------------------------|--------------------------|------------------------|--------------------------|----------------------------------|---|-----|-----|-----|-----|---------------------------------------|------------|
| Wastewater Reclamation Authority Improvements | | | | | | WRF Nutrient Removal | | | | | | AG267 WRA990000 WRAXXX | |
| | TOTAL ESTIMATED COST | COST THROUGH F05 | ACTUAL COST IN F06 | COST THROUGH F06 | REVISED BUDGET F07 | ESTIMATED COST THROUGH F07 | RECOMMENDED AND SCHEDULED FOR SIX-YEAR PERIOD | | | | | | COST |
| | | | | | | | F08 | F09 | F10 | F11 | F12 | F13 | |
| Expenses | 25,824,409 | | | | | | | | | | | | 25,824,409 |
| Beginning Balance | | | | | | | | | | | | | |
| Interest Earnings | | | | | | | | | | | | | |
| Repair and Replacement Fun | | | | | | | | | | | | | |
| 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 in 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.