

RECYCLED WATER PROJECTS FY 2009-2010

**RECYCLED WATER CAPITAL IMPROVEMENT PROGRAM BUDGET FY 09-10
 PROJECT SUMMARY
 Fund 6600.66999**

PROJECTS (dollars in \$000)	Life to Date Actuals thru 6/30/09	Proposed FY 09-10	PROJECTED				Total Estimate
			FY 10-11	FY 11-12	FY 12-13	FY 13-14	
C00500408 Phase 2B Recycled Water Pipeline & Reservoir	\$ 129	\$ 3,331	\$ 3,775	\$ -	\$ -	\$ -	\$ 7,235
C00500505 Phase 2A Recycled Water Pipeline	1,243	3,081	-	-	-	-	4,324
C00500508 Phase 3 Recycled Water Pipeline	-	-	757	519	2,632	3,137	7,045
C00500908 Recycled Water Pump Station 2 Improvements	67	545	-	-	-	-	612
C66400902 Recycled Water Main Pump Station 1 Improvements	-	600	-	-	-	-	600
C66400903 Recycled Water Main Pump Station Improvements	-	570	-	-	-	-	570
TOTAL	\$ 1,439	\$ 8,127	\$ 4,532	\$ 519	\$ 2,632	\$ 3,137	\$ 20,386

SOURCES (DOLLARS IN \$000)

Waste Water Operating	\$ 1,439	\$ 2,748	\$ 499	\$ 519	\$ 285	\$ 260	\$ 5,750
Debt Proceeds	-	5,379	4,033	-	2,347	2,877	14,636
TOTAL	\$ 1,439	\$ 8,127	\$ 4,532	\$ 519	\$ 2,632	\$ 3,137	\$ 20,386

Project Title: Phase 2B Recycled Water Pipeline & Reservoir

C00500408

PROJECT PURPOSE AND DESCRIPTION

This project is identified in the General Plan to provide tertiary recycled water for irrigation of parks, golf courses, and open space areas. The tertiary recycled water will be produced at the Ellis Creek Water Recycling Facility. The Phase 2B project includes installation of a 2.2 million gallon pre-stressed concrete tank at elevation 280' in the foothills northeast of the intersection of Adobe Road and East Washington. This project leverages use of a local resource for part of its water supply, while offsetting demands on the potable water system.

PROJECT PARAMETERS

Environmental: Environmental Impact Report
 Public Info: N/A
 Schedule * : Expected completion 2011. Project cost estimate through completion \$7,235,000.
 Permits: N/A
 Reference: Recycled Water Master Plan

FINANCIAL OVERVIEW

C00500408

	Project Summary		
	Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
USES (dollars in \$000)			
Planning/Environmental	480		480
Land & Easements	200	150	350
Design	880	(600)	280
Legal Services			-
Administration	10	15	25
Construction Contracts	5,000		5,000
Construction Management	600		600
Salaries/Benefits			-
Contingency	500		500
CIP Overheads			-
TOTAL	7,670	(435)	7,235

SOURCES (dollars in \$000)			
Waste Water Operating	1,435	(435)	1,000
Grants/Debt Proceeds	6,235	-	6,235
TOTAL	7,670	(435)	7,235

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
USES (dollars in \$000)								
Planning/Environmental	105	12	363					480
Land & Easements		-	350					350
Design	12	-	268					280
Legal Services		-						-
Administration		-	25					25
Construction Contracts		-	2,000	3,000				5,000
Construction Management		-	200	400				600
Salaries/Benefits		-						-
Contingency		-	125	375				500
CIP Overheads								-
TOTAL USES	117	12	3,331	3,775	-	-	-	7,235

Capitalized Interest**	8							8
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SOURCES (dollars in \$000)								
Waste Water Operating	117	12	871					1,000
Grants/Debt Proceeds			2,460	3,775				6,235
TOTAL FUNDS	117	12	3,331	3,775	-	-	-	7,235

** budgeted at the operating fund

Project Title: Phase 2A Recycled Water Pipeline

C00500505

PROJECT PURPOSE AND DESCRIPTION

This project is identified in the General Plan as a key component of the City's water supply plan, and includes providing tertiary recycled water for irrigation of parks, golf courses, and open space areas. The Phase 2A project includes the installation of 7,600 linear feet of 20-inch diameter pipeline to connect the Phase 1 project to the recycled water pump station at the Ellis Creek Water Recycling Facility, and extension of a 20-inch pipeline in East Washington Street from Executive Drive to Adobe Road.

PROJECT PARAMETERS

Environmental: Environmental Impact Report
 Public Info: N/A
 Schedule * : Expected completion 2010. Project cost estimate through completion \$4,324,000.
 Permits: N/A
 Reference: Recycled Water Master Plan

FINANCIAL OVERVIEW

C00500505

Project Summary		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
329		329
50		50
544	436	980
	1	1
17	13	30
2,400		2,400
270		270
		-
240	10	250
14		14
TOTAL	460	4,324

USES (dollars in \$000)

Planning/Environmental
 Land & Easements
 Design
 Legal Services
 Administration
 Construction Contracts
 Construction Management
 Salaries/Benefits
 Contingency
 CIP Overheads

SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

1,431	(26)	1,405
2,433	486	2,919
TOTAL	460	4,324

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
Planning/Environmental	214	25	90					329
Land & Easements	23	2	25					50
Design	879	62	39					980
Legal Services	1	-	-					1
Administration	22	-	8					30
Construction Contracts		-	2,400					2,400
Construction Management	1	-	269					270
Salaries/Benefits								-
Contingency		-	250					250
CIP Overheads	14	-						14
TOTAL USES	1,154	89	3,081	-	-	-	-	4,324

Capitalized Interest**

49								49
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SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

1,154	89	162						1,405
		2,919						2,919
TOTAL FUNDS	1,154	89	3,081	-	-	-	-	4,324

** budgeted at the operating fund

Project Title: Phase 3 Recycled Water Pipeline

C00500508

PROJECT PURPOSE AND DESCRIPTION

This project is identified in the General Plan as a key component of the City’s water supply plan, and will connect City facilities on the east side of the City to the tertiary recycled water system, and convert these facilities to irrigation with recycled water. Recycled water is a drought-proof, locally supplied water resource that saves potable water. The distribution lines will be phased in over a four year period with construction on the first phase starting in late FY 08-09. There are over 20 sites, comprising approximately 150 irrigated acres, to be connected to the recycled water system, including Casa Grande High School, Prince Park, McDowell Park, Wiseman Park, Lucchesi Park, Leghorns Park, Fox Hollow Park, and Eagle Park.

PROJECT PARAMETERS

Environmental: Various
 Public Info: N/A
 Schedule * : Expected completion 2016. Project cost estimate through completion \$7,045,000.
 Permits: N/A
 Reference: Recycled Water Master Plan

FINANCIAL OVERVIEW

C00500508

Project Summary		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
40	35	75
		-
1,488		1,488
		-
		-
5,078	(854)	4,224
614	34	648
		-
488	122	610
		-
TOTAL	(663)	7,045

USES (dollars in \$000)

Planning/Environmental
 Land & Easements
 Design
 Legal Services
 Administration
 Construction Contracts
 Construction Management
 Salaries/Benefits
 Contingency
 CIP Overheads

SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

1,370	(663)	707
6,338		6,338
TOTAL	(663)	7,045

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
Planning/Environmental				25	25	25		75
Land & Easements								-
Design				474	494	260	260	1,488
Legal Services								-
Administration								-
Construction Contracts				200		1,807	2,217	4,224
Construction Management				48		270	330	648
Salaries/Benefits								-
Contingency				10		270	330	610
CIP Overheads								-
TOTAL USES	-	-	-	757	519	2,632	3,137	7,045

SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

			499	519	285	260	1,563
			258		2,347	2,877	5,482
TOTAL FUNDS	-	-	757	519	2,632	3,137	7,045

Project Title: Recycled Water Pump Station 2 Improvements

C00500908

PROJECT PURPOSE AND DESCRIPTION

This pump station was built in 1981. It works in tandem with Recycled Water Pump Station No. 1 and conveys secondary recycled water for agricultural irrigation. During the summer, this pump station operates at full capacity which puts a tremendous amount of wear and tear on the equipment. The electrical and instrumentation equipment need to be upgraded to prevent system failure. This project includes replacement of the variable frequency drives, programmable logic controller, and other instrumentation needed to operate and control the pump station. Construction is anticipated to start in November 2008, after the irrigation season.

PROJECT PARAMETERS

Environmental: Notice of Exemption
 Public Info: N/A
 Schedule * : Expected completion 2009. Project cost estimate through completion \$612,000.
 Permits: N/A
 Reference: Secondary Recycled Water Pump Stations, Recycled Water Master Plan

FINANCIAL OVERVIEW

C00500908

USES (dollars in \$000)

Planning/Environmental
 Land & Easements
 Design
 Legal Services
 Administration
 Construction Contracts
 Construction Management
 Salaries/Benefits
 Contingency
 CIP Overheads

Project Summary		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
		-
		-
152		152
		-
		-
370		370
35		35
		-
55		55
		-
TOTAL	-	612

SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

612		612
		-
TOTAL	-	612

USES (dollars in \$000)

Planning/Environmental
 Land & Easements
 Design
 Legal Services
 Administration
 Construction Contracts
 Construction Management
 Salaries/Benefits
 Contingency
 CIP Overheads

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
								-
								-
34	34	85						152
								-
								-
		370						370
		35						35
								-
		55						55
								-
TOTAL USES	34	34	545	-	-	-	-	612

Capitalized Interest**

2								2
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SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

34	34	545						612
								-
TOTAL FUNDS	34	34	545	-	-	-	-	612

** budgeted at the operating fund

Project Title: Recycled Water Pump Station 1 Improvements

C66400902

PROJECT PURPOSE AND DESCRIPTION

This pump station was built in 1981 and conveys secondary recycled water to Recycled Water Pump Station No. 2 and to fields for agricultural irrigation. During the summer, this pump station operates at full capacity which puts a tremendous amount of wear and tear on the equipment. The electrical and instrumentation equipment will be upgraded as part of this project to prevent system failure. Upgrading the instrumentation and controls will also provide better coordination between the three recycled water pump stations that work in tandem to provide recycled water to approximately 800 acres of agricultural land.

PROJECT PARAMETERS

Environmental: Notice of Exemption
 Public Info: N/A
 Schedule * : Expected completion 2010. Project cost estimate through completion \$600,000.
 Permits: N/A
 Reference: Secondary Recycled Water Pump Stations, Recycled Water Master Plan

FINANCIAL OVERVIEW

C66400902

Project Summary		
Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
170		170
360		360
35		35
35		35
TOTAL		600

USES (dollars in \$000)

Planning/Environmental
 Land & Easements
 Design
 Legal Services
 Administration
 Construction Contracts
 Construction Management
 Salaries/Benefits
 Contingency
 CIP Overheads

SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

600		600
TOTAL		600

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
			170					170
			360					360
			35					35
			35					35
TOTAL USES	-	-	600	-	-	-	-	600

SOURCES (dollars in \$000)

Waste Water Operating
 Grants/Debt Proceeds

		600						600
TOTAL FUNDS	-	-	600	-	-	-	-	600

Project Title: Recycled Water Main Pump Station Improvements C66400903

PROJECT PURPOSE AND DESCRIPTION

Recycled Water Main Pump Station conveys recycled water from the oxidation ponds to Recycled Water Pump Station No. 1. During the summer months, the secondary recycled water system operates at full capacity. There are no provisions in the system to monitor and control minor changes in flow patterns and pressures that can significantly disrupt operation and wear and strain the equipment. The first year of this project includes installation of pressure and flow control valves to help stabilize the entire distribution system when water use changes. The variable frequency drives, which are worn due to age and significant use, will be replaced in the second year. Instrumentation and controls will also be upgraded to provide better coordination between the three pump stations that work in tandem to provide recycled water to approximately 800 acres of agricultural land.

PROJECT PARAMETERS

Environmental: Notice of Exemption
 Public Info: N/A
 Schedule * : Expected completion 2010. Project cost estimate through completion \$570,000.
 Permits: N/A
 Reference: Secondary Recycled Water Pump Stations, Recycled Water Master Plan

FINANCIAL OVERVIEW

C66400903

	Project Summary		
	Total Estimate thru 6/30/09	Adjustments FY 09-10	Total Estimate thru 6/30/10
USES (dollars in \$000)			
Planning/Environmental Land & Easements			-
Design	210		210
Legal Services			-
Administration			-
Construction Contracts	300		300
Construction Management	30		30
Salaries/Benefits			-
Contingency	30		30
CIP Overheads			-
TOTAL	570	-	570

SOURCES (dollars in \$000)			
Waste Water Operating	570		570
Grants/Debt Proceeds			-
TOTAL	570	-	570

	ACTUALS		PROPOSED	PROJECTED				Total Estimate *
	Life to Date thru 6/30/08	Estimate FY 08-09	Budget FY 09-10	Estimate FY 10-11	Estimate FY 11-12	Estimate FY 12-13	Estimate FY 13-14	
USES (dollars in \$000)								
Planning/Environmental Land & Easements								-
Design			210					210
Legal Services								-
Administration								-
Construction Contracts			300					300
Construction Management			30					30
Salaries/Benefits								-
Contingency			30					30
CIP Overheads								-
TOTAL USES	-	-	570	-	-	-	-	570

SOURCES (dollars in \$000)								
Waste Water Operating			570					570
Grants/Debt Proceeds								-
TOTAL FUNDS	-	-	570	-	-	-	-	570

