

WASTEWATER UTILITY PROJECTS FY 2006-2007

**WASTEWATER UTILITY CAPITAL IMPROVEMENT PROGRAM BUDGET FY 06-07
 PROJECT SUMMARY**

	Prior Years	06-07	Total Appro. thru 06-07	07-08	08-09	09-10	10-11	Est. Total
PROJECTS (dollars in \$000)								
C500003	Waste Water CIP Salary/Benefits	\$ -	\$ 13	\$ 13	\$ -	\$ -	\$ -	\$ 13
C500205	C Street Pump Station Upgrade	1,245	-	1,245	1,327	-	-	2,572
C500305	Demolition of Hopper WWTF	21	-	21	-	368	5,625	6,014
C500402	Water Recycling Fac. - Ellis Creek	53,737	71,588	125,325	26,555	12,738	330	242
C500406	SCADA Ellis Creek WRF	905	1,018	1,923	849	420	-	-
C500505	Phase 2 Recycled Water	361	1,447	1,808	7,740	-	-	-
C500506	Lakeville Highway Improvements	91	(91)	-	-	-	-	-
C501400	Wilmington Pump Station	834	-	834	-	-	-	-
	TOTAL	\$57,194	\$73,975	\$131,169	\$36,471	\$13,526	\$5,955	\$242
								\$187,363

SOURCES (dollars in \$000)									
	Waste Water Operating	\$ 18,874	\$ 899	\$ 19,773	\$ 1,496	\$ 714	\$ 4,500	\$ -	\$ 26,483
	Waste Water Capital	38	-	38	-	74	1,125	-	1,237
	Debt Proceeds	-	-	-	-	-	37,598	(24,979)	12,619
	State Revolving Loan Fund Proceeds	12,550	(4,284)	8,266	34,067	25,000	25,000	50,000	142,333
	Interim Financing	23,787	76,213	100,000	-	(12,262)	(62,268)	(24,779)	691
	State Grant-Coastal Conservancy	853	1,147	2,000	-	-	-	-	2,000
	State Grant-Open Space District	1,092	-	1,092	908	-	-	-	2,000
	Undetermined	-	-	-	-	-	-	-	-
	TOTAL	\$57,194	\$73,975	\$131,169	\$36,471	\$13,526	\$5,955	\$242	\$187,363

Actual cash disbursements to date	31,735
Available budget	99,434
Estimated 06-07 cash disbursements	83,948
Estimated budget balance at 6/30/07	<u>\$ 15,486</u>

Project Title: Wastewater CIP Salary/Benefits

Project #: C500003

Beginning with FY 06-07, each segment of the CIP that has salaries and benefits charged to these projects will be accounted for in an administrative project.

City of Petaluma, California
 Fiscal Year 2007 Budget

Waste Water CIP Salary/Benefits

C500003

	<u>Prior</u>		<u>Total Appro.</u>					<u>Est.</u>
	<u>Years</u>	<u>06-07</u>	<u>thru 06-07</u>	<u>07-08</u>	<u>08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Total</u>
USES (dollars in \$000)								
51110 Regular Salary-Full Time	\$ -	\$ 10	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ 10
51120 Regular Salary-Part Time	-	-	-	-	-	-	-	-
52110 Retirement Benefits-PERS	-	1	1	-	-	-	-	1
52310 Group Insurance PEMCHA	-	2	2	-	-	-	-	2
54110 Design	-	-	-	-	-	-	-	-
54120 Legal Counsel	-	-	-	-	-	-	-	-
54150 Planning/Environmental	-	-	-	-	-	-	-	-
54151 Construction Contracts	-	-	-	-	-	-	-	-
54152 Construction Management	-	-	-	-	-	-	-	-
54153 Administration	-	-	-	-	-	-	-	-
55011 CIP Overhead @ 5%	-	-	-	-	-	-	-	-
57310 Contingency	-	-	-	-	-	-	-	-
62110 Land and Easements	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ 13	\$ 13	\$ -	\$ -	\$ -	\$ -	\$ 13
SOURCES (dollars in \$000)								
Waste Water Operating	\$ -	\$ 13	\$ 13	\$ -	\$ -	\$ -	\$ -	\$ 13
Waste Water Capital	-	-	-	-	-	-	-	-
State Revolving Loan Fund Proceeds	-	-	-	-	-	-	-	-
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$ -	\$ 13	\$ 13	\$ -	\$ -	\$ -	\$ -	\$ 13

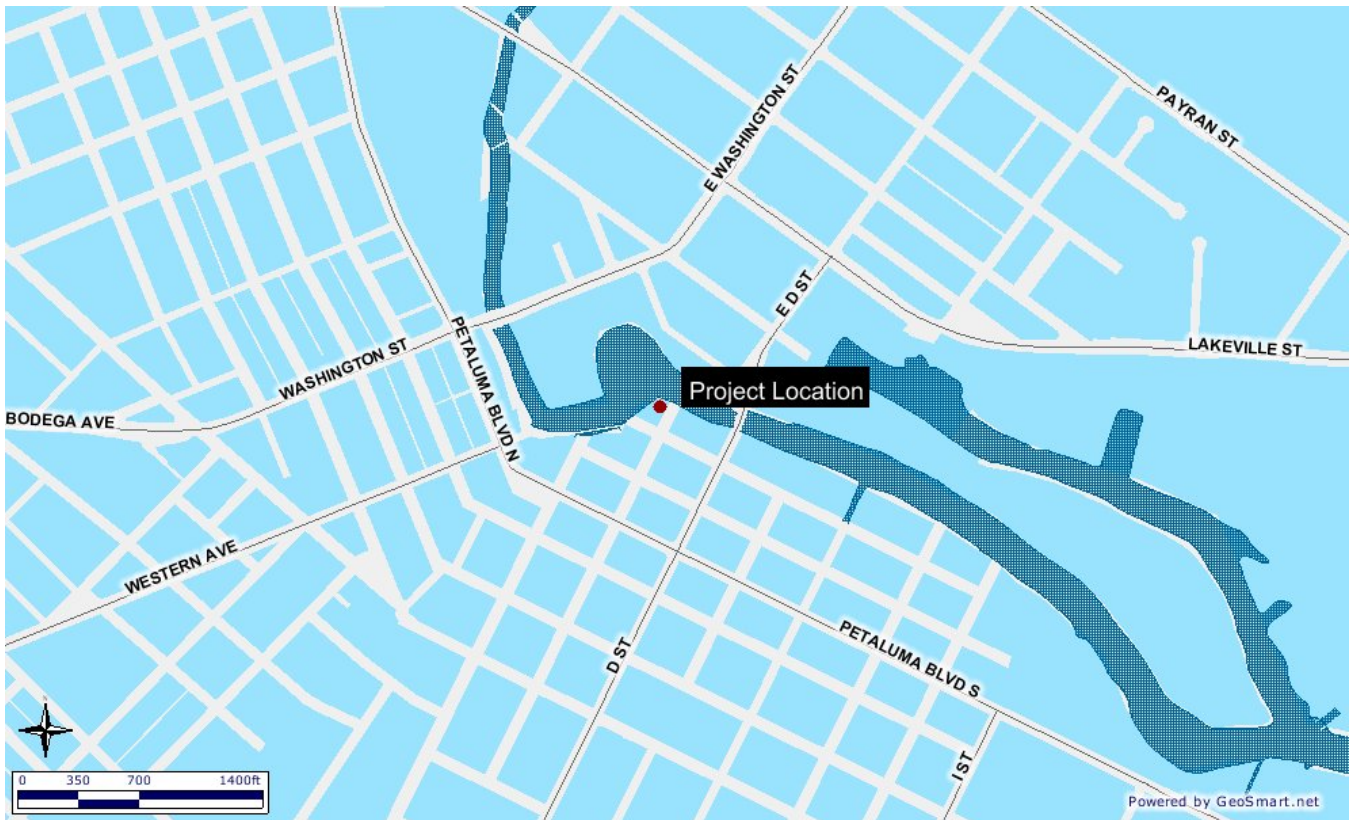
Project Title: C Street Pump Station Upgrade

Project #: C500205

The C Street sanitary sewer pumping station is located on the west bank of the Petaluma River, near the intersection of First and C Streets. The pumping station pumps wastewater from the southwest basin underneath the river to a gravity sewer line that flows to the City's Pond Influent Pump Station (PIPS). The C Street pump station is no longer operating at an acceptable level of service and does not meet the City's needs. Structural, pumping, and electrical improvements are necessary to meet flow capacity, reliability, safety, and maintenance requirements.

Project schedule:

Begin Design	FY 2004-2005
Complete Design	FY 2005-2006
Begin Construction	FY 2006-2007
Complete Construction	FY 2007-2008



C Street Pump Station Upgrade

C500205

	<u>Prior</u>		<u>Total Appro.</u>					<u>Est.</u>
	<u>Years</u>	<u>06-07</u>	<u>thru 06-07</u>	<u>07-08</u>	<u>08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Total</u>
USES (dollars in \$000)								
54110 Design	275	-	275	-	-	-	-	275
54150 Planning/Environmental	100	-	100	-	-	-	-	100
54151 Construction Contracts	650	-	650	1,000	-	-	-	1,650
54152 Construction Management	100	-	100	150	-	-	-	250
54153 Administration	10	-	10	15	-	-	-	25
55011 CIP Overhead @ 5%	60	-	60	62	-	-	-	122
57310 Contingency	50	-	50	100	-	-	-	150
62110 Land and Easements	-	-	-	-	-	-	-	-
TOTAL	\$ 1,245	\$ -	\$ 1,245	\$ 1,327	\$ -	\$ -	\$ -	\$ 2,572

SOURCES (dollars in \$000)

Waste Water Operating	\$ 311	\$ -	\$ 311	\$ -	\$ -	\$ -	\$ -	\$ 311
Waste Water Capital	34	-	34	-	-	-	-	34
State Revolving Loan Fund Proceeds	900	-	900	1,327	-	-	-	2,227
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$ 1,245	\$ -	\$ 1,245	\$ 1,327	\$ -	\$ -	\$ -	\$ 2,572

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Maintenance of this facility continues to be funded from Water Pollution Control funds.

CALCULATION OF FUTURE SAVINGS

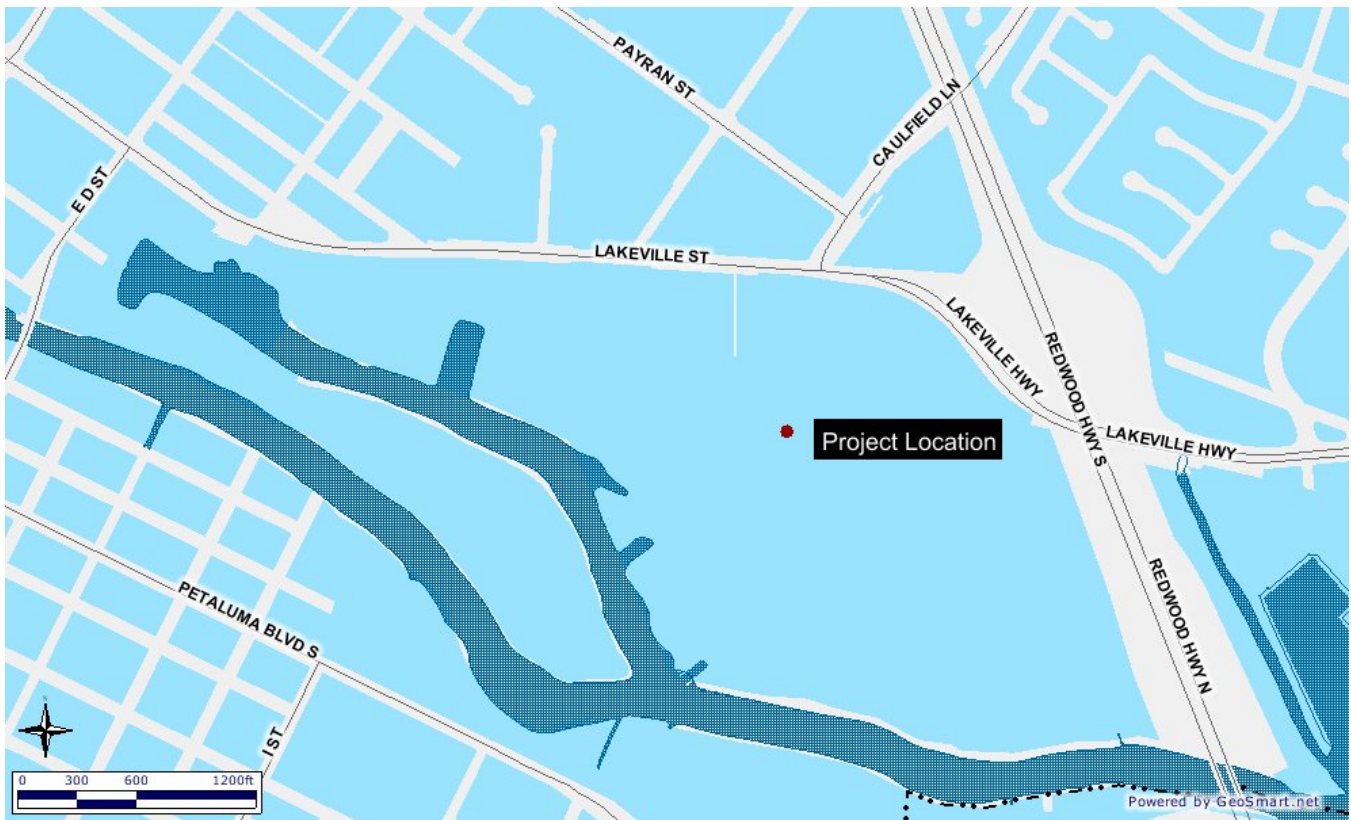
This project will result in lower ongoing maintenance costs as infrastructure is updated. These savings aren't quantifiable.

Project Title: Demolition of Hopper Street Wastewater Treatment Facility

Project #: C500305

Once the new water recycling facility begins operation and replaces the function of the existing wastewater treatment facility at 950 Hopper Street, the existing facility will be decommissioned and demolished, if funding is available. All structures associated with the existing facility will be decommissioned, with the exception of the Pond Influent Pump Station, the administration building, and the garage. The aerated lagoon area will be re-graded and maintained for future use in support of the pump station.

The proposed funding is for decommissioning only. Additional funding will be necessary for demolition work.



Demolition of Hopper WWTF

C500305

	<u>Prior</u>		<u>Total Appro.</u>					<u>Est.</u>
	<u>Years</u>	<u>06-07</u>	<u>thru 06-07</u>	<u>07-08</u>	<u>08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Total</u>
USES (dollars in \$000)								
54110 Design	-	-	-	-	300	-	-	300
54150 Planning/Environmental	20	-	20	-	50	100	-	170
54151 Construction Contracts	-	-	-	-	-	5,000	-	5,000
55011 CIP Overhead @ 5%	1	-	1	-	18	525	-	544
62110 Land and Easements	-	-	-	-	-	-	-	-
TOTAL	\$ 21	\$ -	\$ 21	\$ -	\$ 368	\$ 5,625	\$ -	\$ 6,014
SOURCES (dollars in \$000)								
Waste Water Operating	\$ 17	\$ -	\$ 17	\$ -	\$ 294	\$ 4,500	\$ -	\$ 4,811
Waste Water Capital	4	-	4	-	74	1,125	-	1,203
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$ 21	\$ -	\$ 21	\$ -	\$ 368	\$ 5,625	\$ -	\$ 6,014

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

This project involves the partial demolition and decommissioning of an existing facility. Once the facility is demolished, no further maintenance costs will be incurred.

CALCULATION OF FUTURE SAVINGS

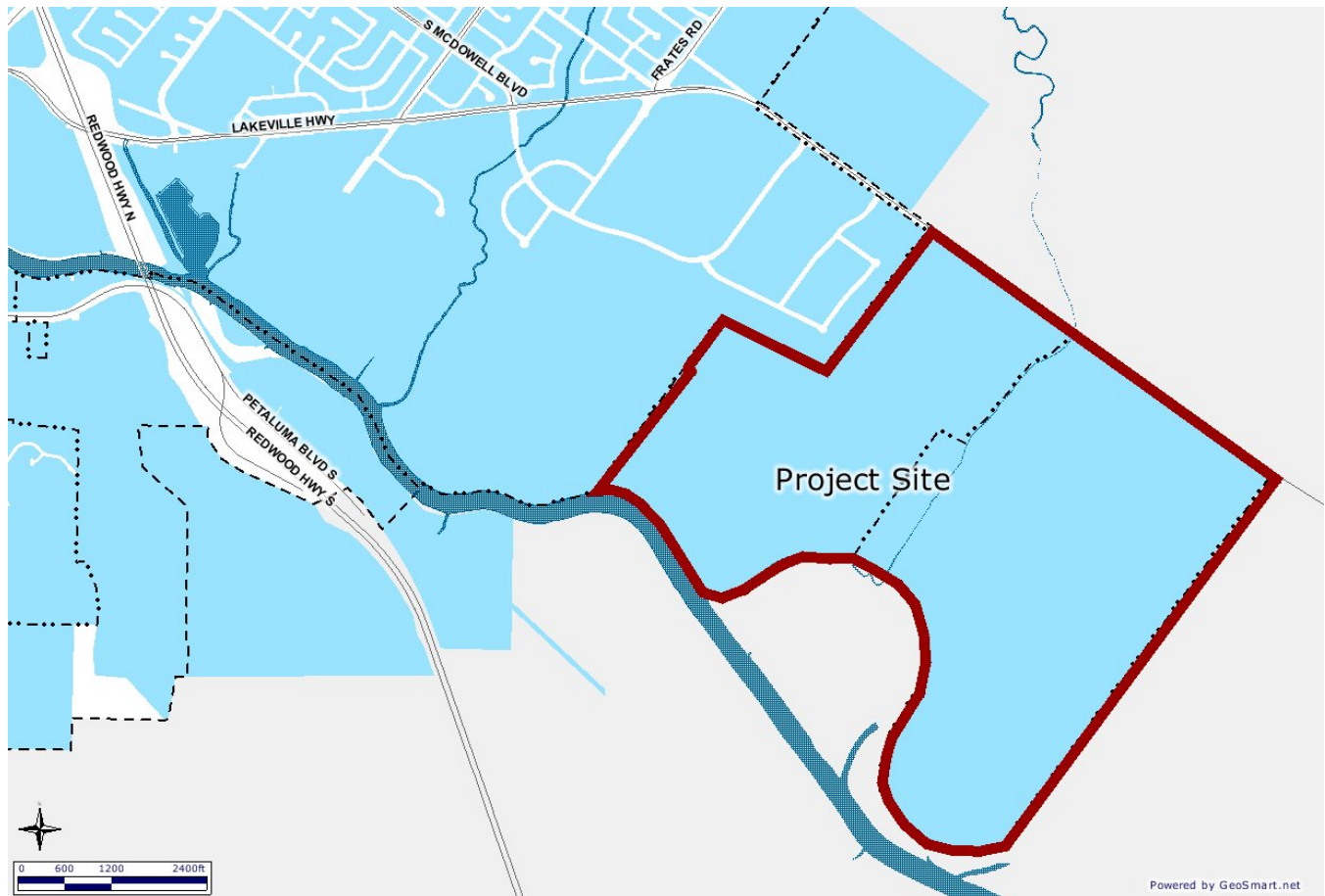
No savings are anticipated from this project.

Project Title: Water Recycling Facility – Ellis Creek

Project #: C500402

This project includes development of a water recycling facility to replace the City's existing wastewater treatment facility. The water recycling facility will be designed to meet the community's needs, provide improved treatment capability and reliability, and achieve regulatory requirements. The water recycling facility will include tertiary treatment to provide more options for the City's recycled water program.

In FY 00-01, the City completed Phase 1 – Project Report. In FY 01-02, the City completed pre-design and the Draft EIR. In FY 02-03, the City certified the Final EIR and completed 50% of the design. The City acquired a parcel of land adjacent to the pond site through City funding and grant funding in FY 03-04. The design was modified to incorporate the new site, the design was 70% completed, and the construction management team hired in FY 03-04. The design was completed and bid in FY 04-05. Construction commenced in FY 05-06 with approximately 16% of the project completed. The CIP anticipates continuation of construction in FY 06-07 with completion of 75% of the structures and mechanical equipment. The peak workforce expected on-site during the summer of FY 06-07 is approximately 125 crafts people. Start up of the new facilities is anticipated in Fall 2008 with project completion in Spring 2009.



Water Recycling Fac. - Ellis Creek

C500402

	<u>Prior</u>		<u>Total Appro.</u>					<u>Est.</u>
	<u>Years</u>	<u>06-07</u>	<u>thru 06-07</u>	<u>07-08</u>	<u>08-09</u>	<u>09-10</u>	<u>thereafter</u>	<u>Total</u>
USES (dollars in \$000)								
54110 Design	9,633	1,450	11,083	1,071	1,071	100	100	13,425
54120 Legal Counsel	50	50	100	50	30	20	20	220
54150 Planning/Environmental	3,580	470	4,050	470	420	55	-	4,995
54151 Construction Contracts	27,786	56,214	84,000	19,000	7,329	-	-	110,329
54152 Construction Management	4,115	2,200	6,315	3,235	2,044	134	104	11,832
54153 Administration	79	50	129	40	30	5	5	209
55011 CIP Overhead @ 5%	2,851	3,828	6,679	1,264	1,264	16	13	9,236
57120 Capitalized Interest	486	3,853	4,339	-	-	-	-	4,339
57310 Contingency	2,827	3,473	6,300	1,425	550	-	-	8,275
62110 Land and Easements	2,330	-	2,330	-	-	-	-	2,330
TOTAL	\$53,737	\$71,588	\$ 125,325	\$26,555	\$12,738	\$ 330	\$ 242	\$165,190
SOURCES (dollars in \$000)								
Waste Water Operating	\$16,355	\$(1,488)	\$ 14,867	\$ 647	\$ -	\$ -	\$ -	\$ 15,514
Debt Proceeds	-	-	-	-	-	37,598	(24,979)	12,619
State Revolving Loan Fund Proceeds	11,650	(4,284)	7,366	25,000	25,000	25,000	50,000	132,366
Interim Financing	23,787	76,213	100,000	-	(12,262)	(62,268)	(24,779)	691
State Grant-Coastal Conservancy	853	1,147	2,000	-	-	-	-	2,000
State Grant-Open Space District	1,092	-	1,092	908	-	-	-	2,000
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$53,737	\$71,588	\$ 125,325	\$26,555	\$12,738	\$ 330	\$ 242	\$165,190

FUTURE MAINTENANCE COST OF CAPITAL IMPROVEMENT PROJECT

This project is ongoing and actual construction will be completed by the end of fiscal year 2008. Once constructed, ongoing maintenance costs will be provided from the Water Pollution Control funds.

CALCULATION OF FUTURE SAVINGS

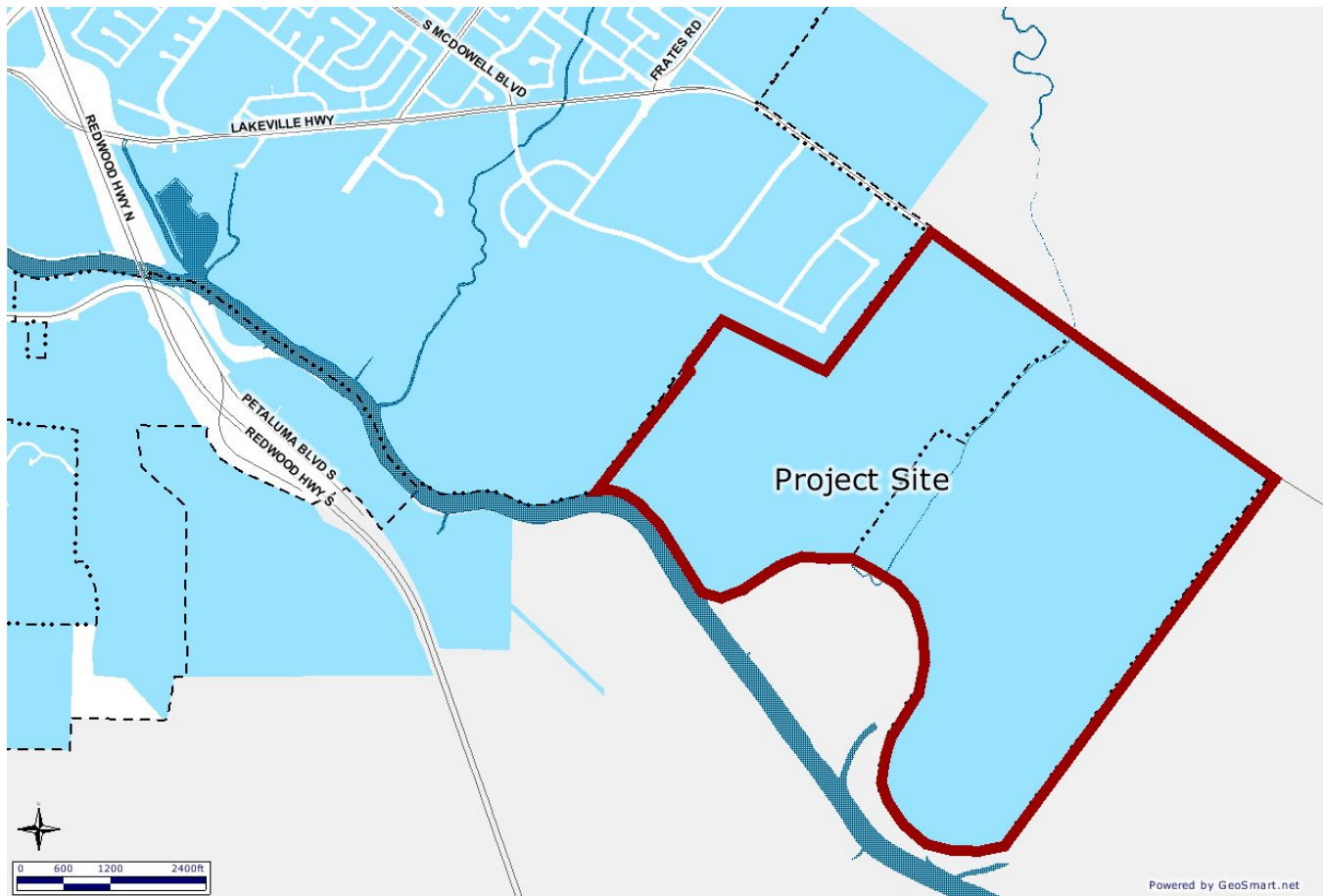
Once this facility is completed, the ongoing maintenance costs will be reduced. This new facility will replace one that was originally built in 1938. However, the continual increase in regulations will most likely balance out any savings.

Project Title: SCADA Ellis Creek WRF

Project #: C500406

This project includes programming of the Supervisory, Control and Data Acquisition (SCADA) system for the new Ellis Creek Water Recycling Facility. The facility is programmed using a state-of-the-art control system. Each piece of equipment is monitored and controlled using the SCADA system. Data is collected as required by regulators (time of peak flow, minimum pH, etc), for process control (i.e. flow pace chemical addition), and for maintenance (i.e. equipment run times) and then loaded to a SQL server for access by desk top programs utilized for regulatory reporting and maintenance management. The system is required for regulatory compliance and monitoring of the new recycling facility. The system responds to upset conditions and calls an operator on the off-shift. The operating team can also dial in and observe plant operations from off-site.

The professional services contract for this work was negotiated in the summer of 2005 and work commenced in October 2005. During FY 05-06, approximately 30% of the programming work was completed. Approximately 70% of the programming is expected to be completed in FY 06-07, meeting the needs of the Ellis Creek Water Recycling Facility project.



SCADA Ellis Creek WRF

C500406

	<u>Prior</u>		<u>Total Appro.</u>					<u>Est.</u>
	<u>Years</u>	<u>06-07</u>	<u>thru 06-07</u>	<u>07-08</u>	<u>08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Total</u>
USES (dollars in \$000)								
54110 Design	800	931	1,731	609	-	-	-	2,340
54150 Planning/Environmental	100	-	100	-	-	-	-	100
55011 CIP Overhead @ 5%	5	87	92	40	20	-	-	152
57310 Contingency	-	-	-	200	400	-	-	600
62110 Land and Easements	-	-	-	-	-	-	-	-
TOTAL	\$ 905	\$ 1,018	\$ 1,923	\$ 849	\$ 420	\$ -	\$ -	\$ 3,192
SOURCES (dollars in \$000)								
Waste Water Operating	\$ 905	\$ 1,018	\$ 1,923	\$ 849	\$ 420	\$ -	\$ -	\$ 3,192
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$ 905	\$ 1,018	\$ 1,923	\$ 849	\$ 420	\$ -	\$ -	\$ 3,192

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Maintenance of the SCADA system will be part of the maintenance cost of the new Ellis Creek Water Recycling Facility. Software upgrades, daily checks of the system, and updates to programming will all be routine maintenance procedures once the facility is operational.

CALCULATION OF FUTURE SAVINGS

The use of the SCADA system for regulatory reporting is required to capture data as required by plant permits. The system also allows the plant to be run unmanned, thus saving the City two extra shifts of personnel every day.

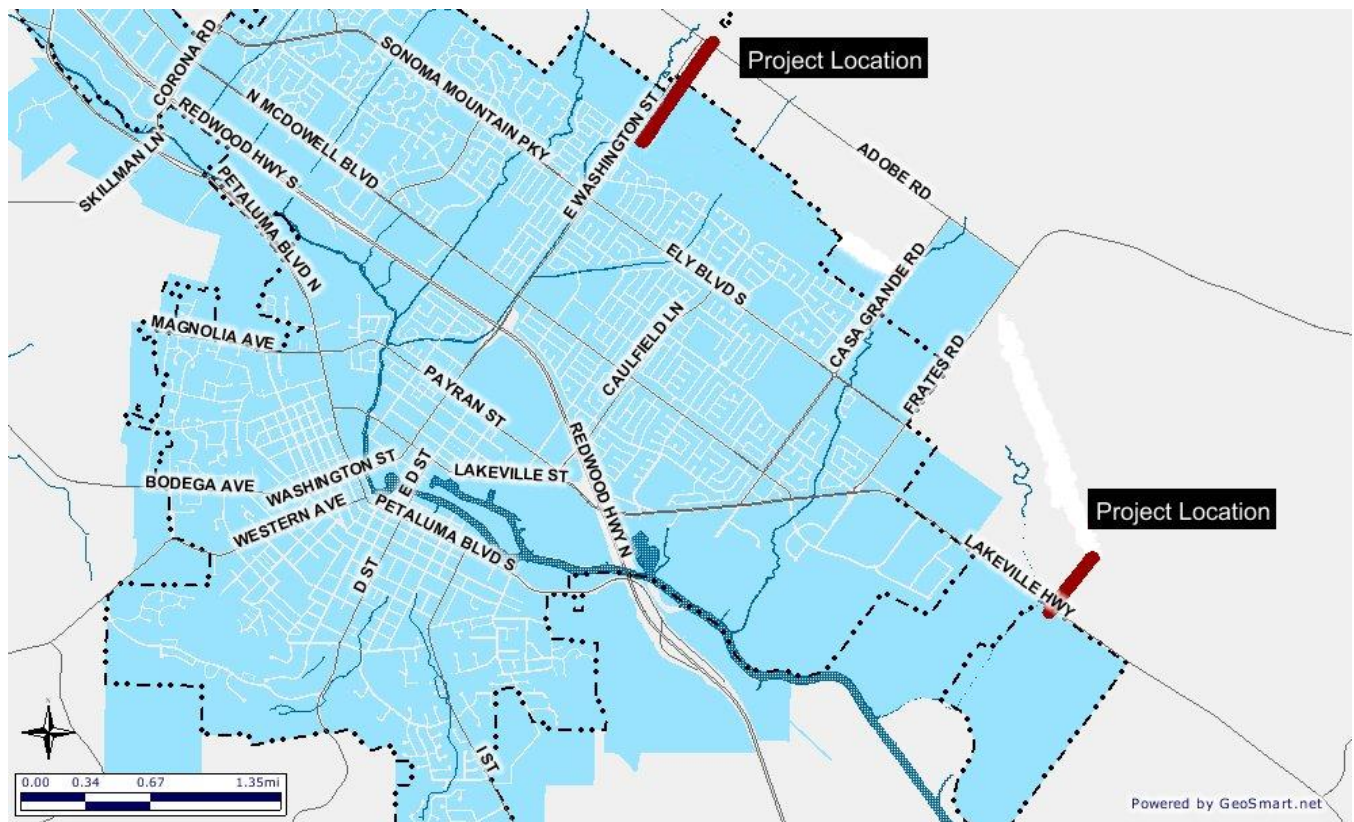
Project Title: Phase 2 Recycled Water

Project #: C500505

Building on Project #9995 (Recycled Water Pipeline phase 1), this project, phase 2, will provide tertiary recycled water for irrigation of parks and fields adjacent to the pipeline constructed under the Phase 1 project. This project consists of adding 14,000' of pipe and storage reservoir facilities.

Design work began in FY 05-06, with construction expected to commence in FY 06-07. This schedule coincides with construction of the new water recycling facility, which is scheduled to begin producing tertiary recycled water in 2008.

This project is necessary to complete the tertiary recycled water system that is being constructed as part of the Ellis Creek Water Recycling Facility project.



Phase 2 Recycled Water

C500505

	Prior Years	06-07	Total Appro. thru 06-07	07-08	08-09	09-10	10-11	Est. Total
USES (dollars in \$000)								
54110 Design	-	921	921	307	-	-	-	1,228
54150 Planning/Environmental	344	-	344	-	-	-	-	344
54151 Construction Contracts	-	-	-	6,142	-	-	-	6,142
54152 Construction Management	-	-	-	307	-	-	-	307
54153 Administration	-	307	307	-	-	-	-	307
54160 Contract Employees	-	-	-	-	-	-	-	-
55011 CIP Overhead @ 5%	17	69	86	369	-	-	-	455
57310 Contingency	-	-	-	615	-	-	-	615
62110 Land and Easements	-	150	150	-	-	-	-	150
TOTAL	\$ 361	\$ 1,447	\$ 1,808	\$ 7,740	\$ -	\$ -	\$ -	\$ 9,548
SOURCES (dollars in \$000)								
Waste Water Operating	\$ 361	\$ 1,447	\$ 1,808	\$ -	\$ -	\$ -	\$ -	\$ 1,808
State Revolving Loan Fund Proceeds	-	-	-	7,740	-	-	-	7,740
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$ 361	\$ 1,447	\$ 1,808	\$ 7,740	\$ -	\$ -	\$ -	\$ 9,548

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Maintenance of this facility will continue to be funded by the Water Pollution Control funds.

CALCULATION OF FUTURE SAVINGS

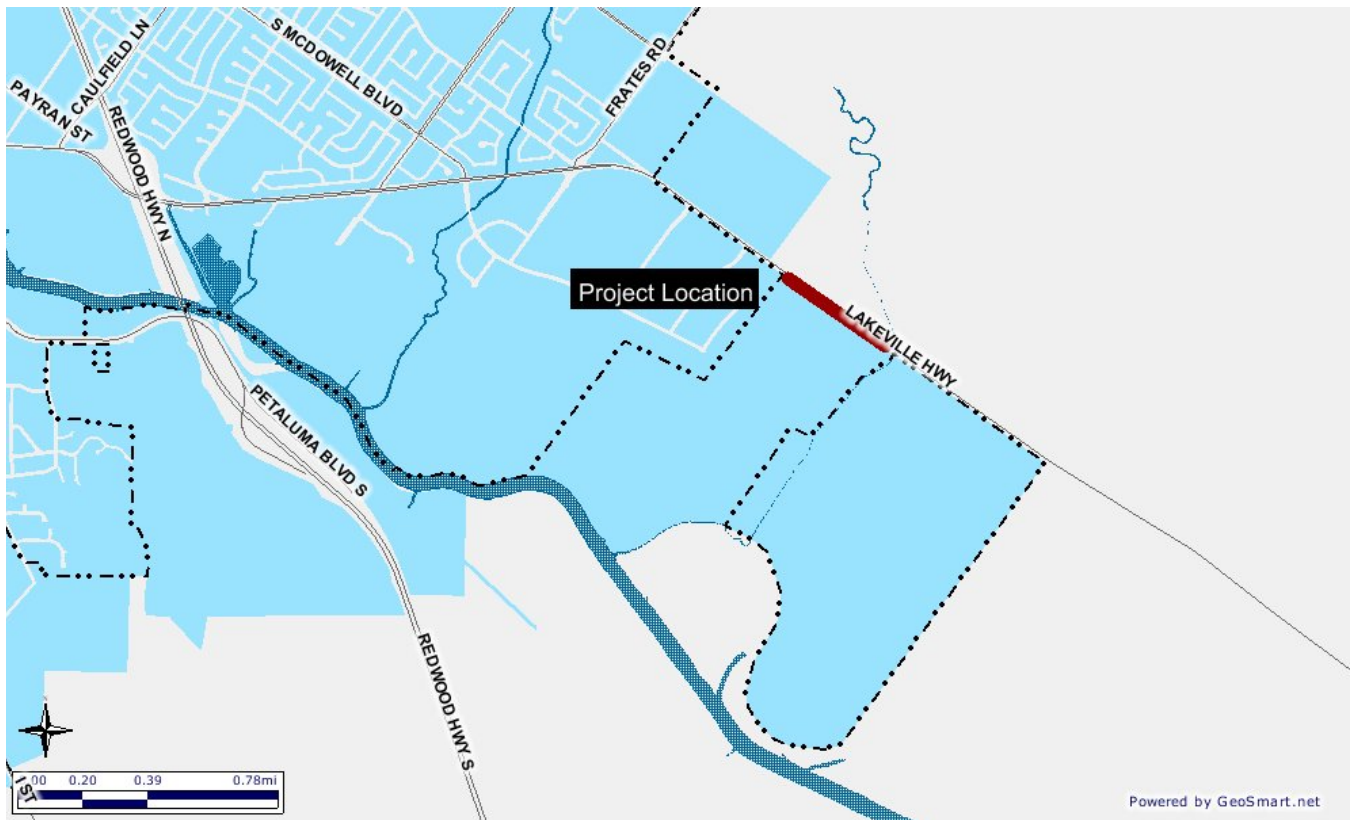
No future savings are anticipated, but this system ensures reliable delivery of potable water to residents during a drought year by offsetting potable water use.

Project Title: Lakeville Highway Improvements

Project #: C500506

Caltrans initially required the City to make extensive improvements to Lakeville Highway as part of the permit requirement to allow access to the new Ellis Creek Water Recycling Facility. The City began negotiating with Caltrans to modify this requirement. After evaluating several options for access, a decision was made to eliminate access from Lakeville Highway to the Ellis Creek Water Recycling Facility.

Therefore, this project is removed from the capital improvement program.



Lakeville Highway Improvements

C500506

	<u>Prior</u>		<u>Total Appro.</u>					<u>Est.</u>
	<u>Years</u>	<u>06-07</u>	<u>thru 06-07</u>	<u>07-08</u>	<u>08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Total</u>
USES (dollars in \$000)								
54110 Design	75	(75)	-	-	-	-	-	-
54150 Planning/Environmental	12	(12)	-	-	-	-	-	-
55011 CIP Overhead @ 5%	4	(4)	-	-	-	-	-	-
62110 Land and Easements	-	-	-	-	-	-	-	-
TOTAL	\$ 91	\$ (91)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SOURCES (dollars in \$000)								
Waste Water Operating	\$ 91	\$ (91)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$ 91	\$ (91)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Maintenance of portions of the project that are part of the water recycling facility will be funded by Water Pollution Control funds. Caltrans will fund maintenance of portions that become part of the California Department of Transportation System.

CALCULATION OF FUTURE SAVINGS

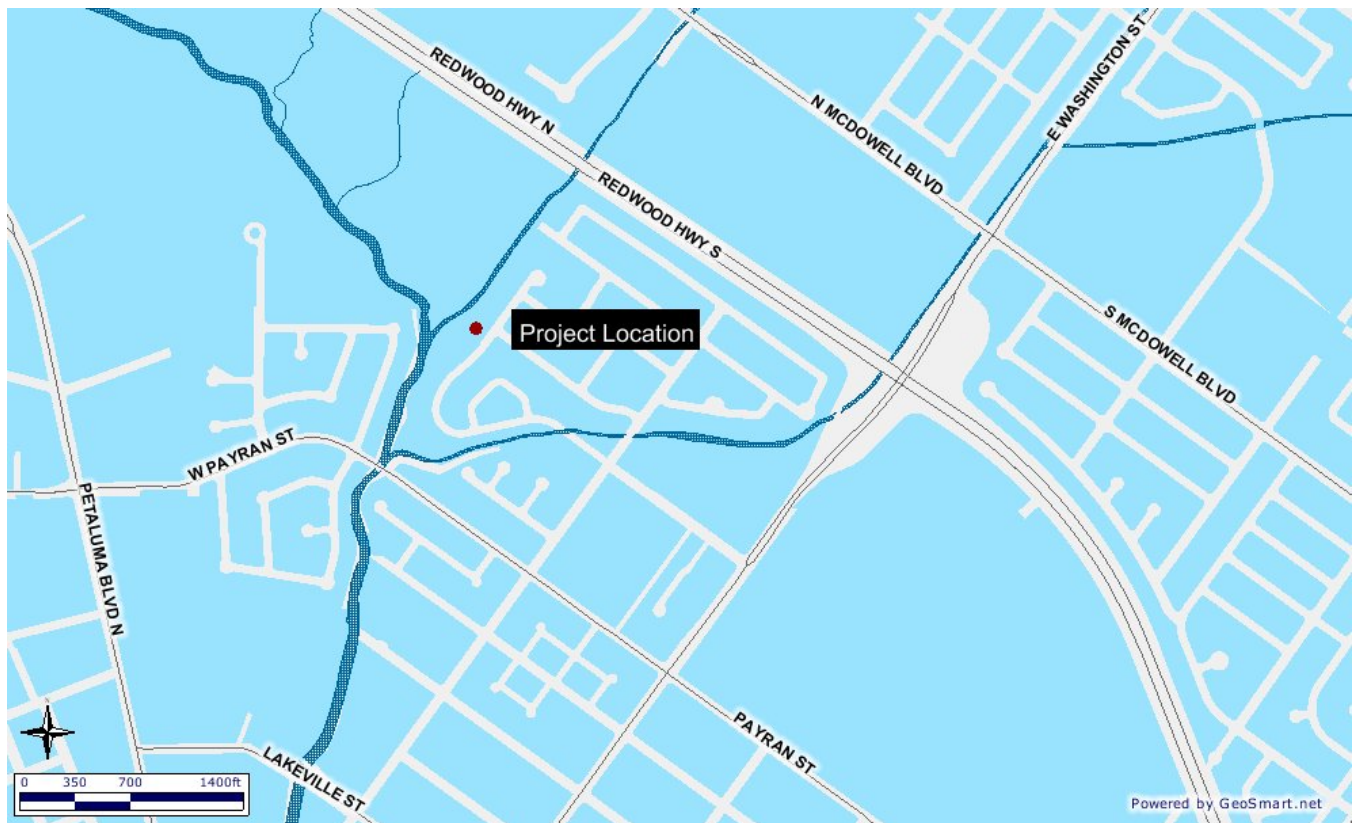
No savings are anticipated from this project.

Project Title: **Wilmington Pump Station**

Project #: **C501400**

The Wilmington Pump Station pumps raw wastewater to the City's wastewater treatment facility. This project is designed to improve the aesthetic appeal of the pump station, which is necessary due to its close proximity to a residential area.

This project includes construction of a soil filter bed to control odors, replacement of fencing, and installation of landscaping to enhance the site aesthetics. Design and construction is anticipated to commence in FY 07-08.



Wilmington Pump Station C501400

	<u>Prior</u>		<u>Total Appro.</u>					<u>Est.</u>
	<u>Years</u>	<u>06-07</u>	<u>thru 06-07</u>	<u>07-08</u>	<u>08-09</u>	<u>09-10</u>	<u>10-11</u>	<u>Total</u>
USES (dollars in \$000)								
54110 Design	60	-	60	-	-	-	-	60
54150 Planning/Environmental	63	-	63	-	-	-	-	63
54151 Construction Contracts	571	-	571	-	-	-	-	571
54153 Administration	125	-	125	-	-	-	-	125
55011 CIP Overhead @ 5%	15	-	15	-	-	-	-	15
62110 Land and Easements	-	-	-	-	-	-	-	-
TOTAL	\$ 834	\$ -	\$ 834	\$ -	\$ -	\$ -	\$ -	\$ 834
SOURCES (dollars in \$000)								
Waste Water Operating	\$ 834	\$ -	\$ 834	\$ -	\$ -	\$ -	\$ -	\$ 834
Undetermined	-	-	-	-	-	-	-	-
TOTAL	\$ 834	\$ -	\$ 834	\$ -	\$ -	\$ -	\$ -	\$ 834

FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT

Maintenance of this facility will continue to be funded by the Water Pollution Control Funds.

CALCULATION OF FUTURE SAVINGS

No future savings are anticipated.

