

## WASTEWATER UTILITY PROJECTS FY 2005-2006

**PROJECT SUMMARY**

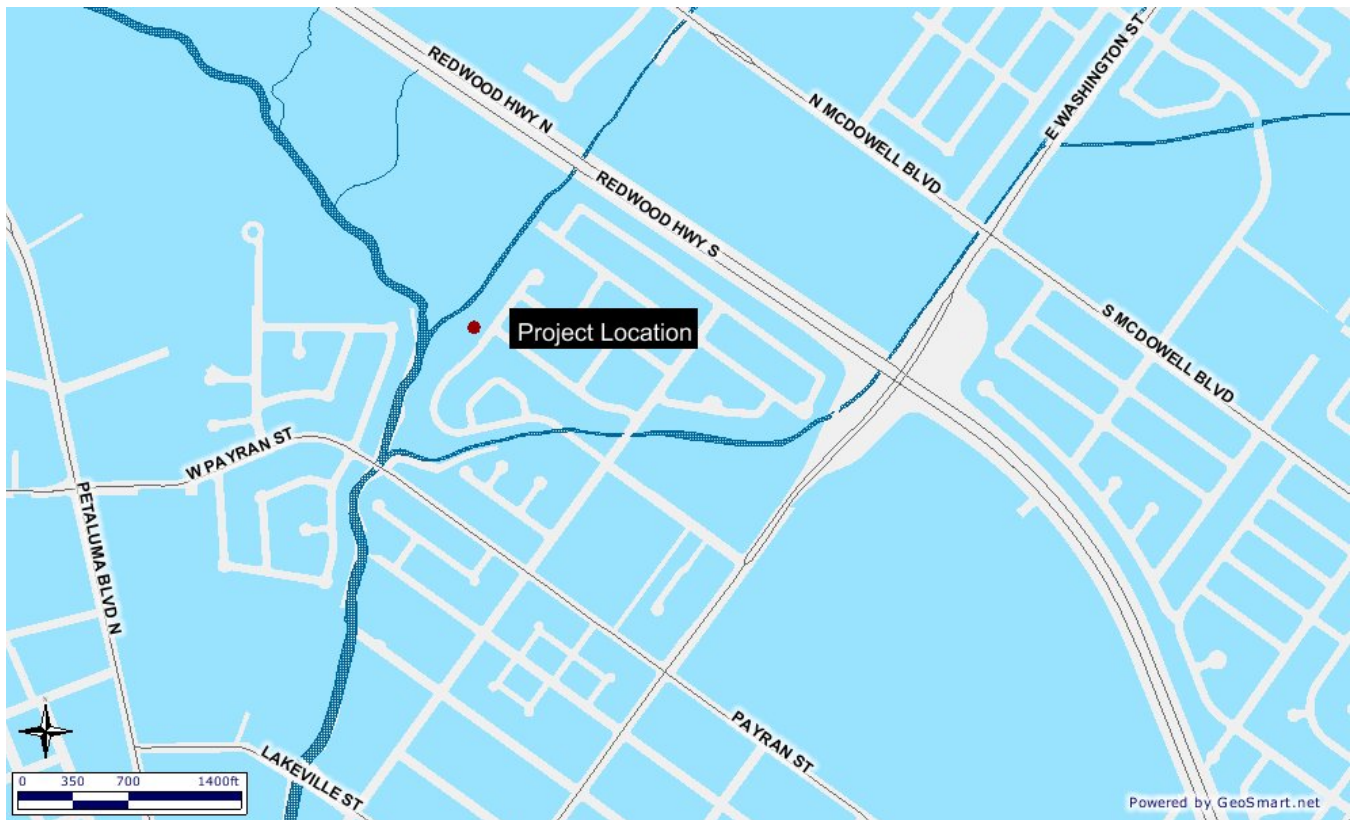
USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
C501400 Wilmington Pump Station	\$ 834	\$ -	\$ 834	\$ -	\$ 197	\$ -	\$ -	\$ 1,031
C500CCC Phase 2 Recycled Water	361	-	361	743	6,081	5,901	-	13,086
C500DDD 2nd St. Trunk Sewer Replace	-	-	-	210	1,365	-	-	1,575
C500305 Demolition of Hopper WWTF	21	-	21	-	-	368	5,625	6,014
C500405 Oxidation Pond Dike Repair	404	234	638	-	-	-	-	638
C500402 Water Recycling Fac. - Ellis Creek	23,710	30,027	53,737	80,237	7,944	890	-	142,808
C500406 SCADA Ellis Creek WRF	-	105	105	612	612	367	-	1,696
C500BBB Lakeville Highway Improvements	-	91	91	-	8	615	-	714
C500205 C Street Pump Station Upgrade	394	851	1,245	1,433	-	-	-	2,678
C500EEE Pump Stations SCADA Electrical	-	-	-	202	3,029	53	-	3,283
<b>TOTAL</b>	<b>\$ 25,724</b>	<b>\$ 31,308</b>	<b>\$ 57,032</b>	<b>\$ 83,437</b>	<b>\$ 19,235</b>	<b>\$ 8,194</b>	<b>\$ 5,625</b>	<b>\$ 173,523</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ 18,968	\$ 3,033	\$ 22,001	\$ 4,592	\$ 2,624	\$ 1,563	\$ 4,500	\$ 35,280
Waste Water Capital	44	85	129	-	-	74	1,125	1,328
SRF Loan	6,712	28,190	34,902	78,845	16,611	6,557	-	136,915
<b>TOTAL</b>	<b>\$ 25,724</b>	<b>\$ 31,308</b>	<b>\$ 57,032</b>	<b>\$ 83,437</b>	<b>\$ 19,235</b>	<b>\$ 8,194</b>	<b>\$ 5,625</b>	<b>\$ 173,523</b>

**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. The project includes construction of a soil filter bed to control odors, replacement of fencing, and installation of landscaping to enhance the site aesthetics.



Wilmington Pump Station C501400

USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ 15	\$ -	\$ 15	\$ -	\$ 9	\$ -	\$ -	\$ 24
54153 Administration	125	-	125	-	-	-	-	125
54150 Planning & Environmental Services	63	-	63	-	-	-	-	63
54110 Design Services	60	-	60	-	-	-	-	60
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	-	-	-	-	23	-	-	23
54151 Construction Contracts	571	-	571	-	150	-	-	721
57310 Contingency	-	-	-	-	15	-	-	15
<b>TOTAL</b>	<b>\$ 834</b>	<b>\$ -</b>	<b>\$ 834</b>	<b>\$ -</b>	<b>\$ 197</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,031</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ 834	\$ -	\$ 834	\$ -	\$ 197	\$ -	\$ -	\$ 1,031
<b>TOTAL</b>	<b>\$ 834</b>	<b>\$ -</b>	<b>\$ 834</b>	<b>\$ -</b>	<b>\$ 197</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,031</b>

**FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT**

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

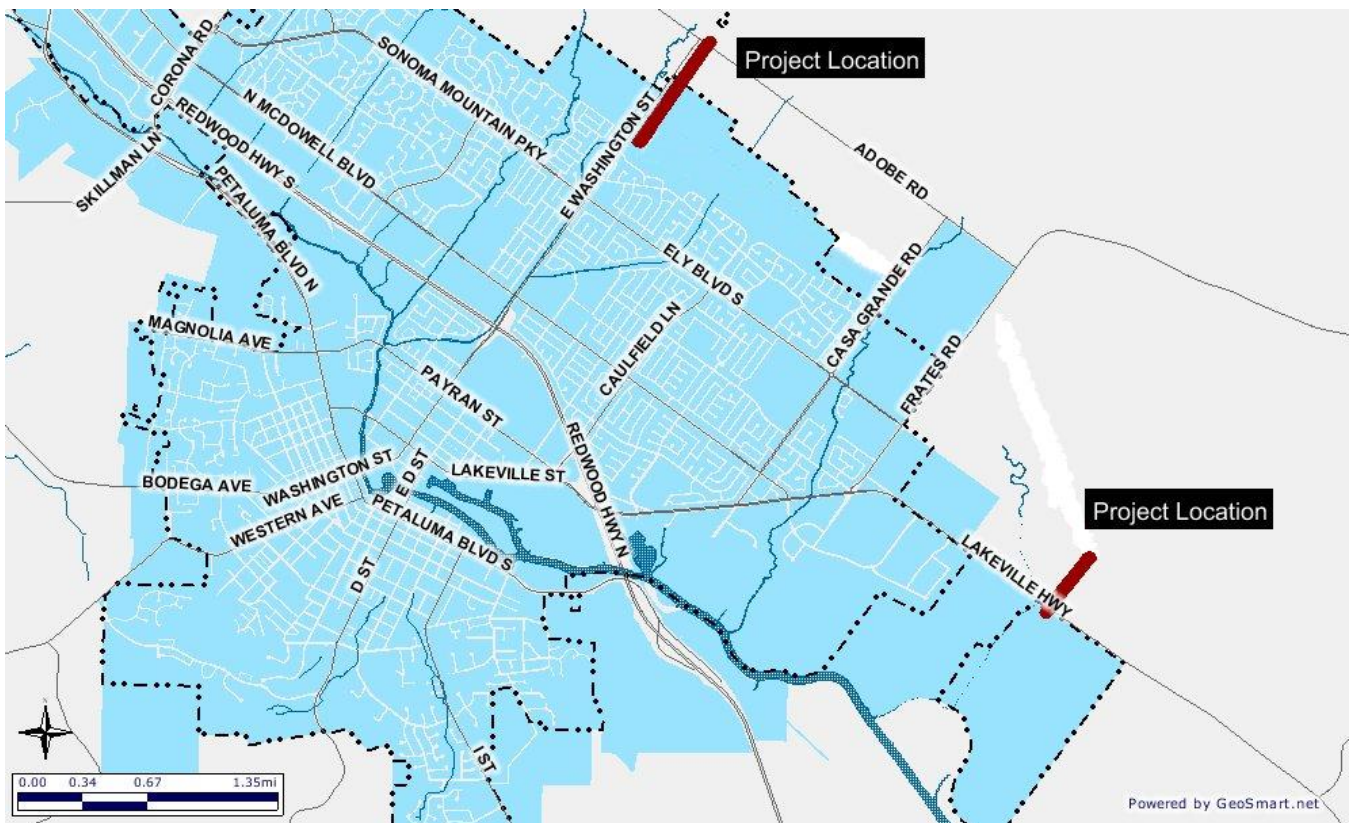
**CALCULATION OF FUTURE SAVINGS**

No future savings are anticipated.

**Project Title: Phase 2 Recycled Water**

**Project #: C500CCC**

Building on Project #9995 (Recycled Water Pipeline Phase 1), this project will provide tertiary recycled water for irrigation of parks and fields adjacent to the pipeline constructed under the Phase 1 project. The project consists of adding 14,000' of pipe and 1 reservoir. Design work is anticipated to begin in FY 05-06, with construction commencing 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

C500CCC

USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ 17	\$ -	\$ 17	\$ 35	\$ 265	\$ 265	\$ -	\$ 582
54153 Administration	-	-	\$ -	15	50	50	-	115
54150 Planning & Environmental Services	344	-	\$ 344	-	50	20	-	414
54110 Design Services	-	-	\$ -	693	139	139	-	971
54120 Legal Counsel	-	-	\$ -	-	-	-	-	-
62110 Land & Easements	-	-	\$ -	-	150	-	-	150
54152 Construction Management Services	-	-	\$ -	-	325	325	-	650
54151 Construction Contracts	-	-	\$ -	-	4,638	4,638	-	9,276
57310 Contingency	-	-	\$ -	-	464	464	-	928
<b>TOTAL</b>	<b>\$ 361</b>	<b>\$ -</b>	<b>\$ 361</b>	<b>\$ 743</b>	<b>\$ 6,081</b>	<b>\$ 5,901</b>	<b>\$ -</b>	<b>\$ 13,086</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ 361	\$ -	\$ 361	\$ 743	\$ 515	\$ 335	\$ -	\$ 1,954
SRF Loan	-	-	-	-	5,566	5,566	-	11,132
<b>TOTAL</b>	<b>\$ 361</b>	<b>\$ -</b>	<b>\$ 361</b>	<b>\$ 743</b>	<b>\$ 6,081</b>	<b>\$ 5,901</b>	<b>\$ -</b>	<b>\$ 13,086</b>

**FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT**

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

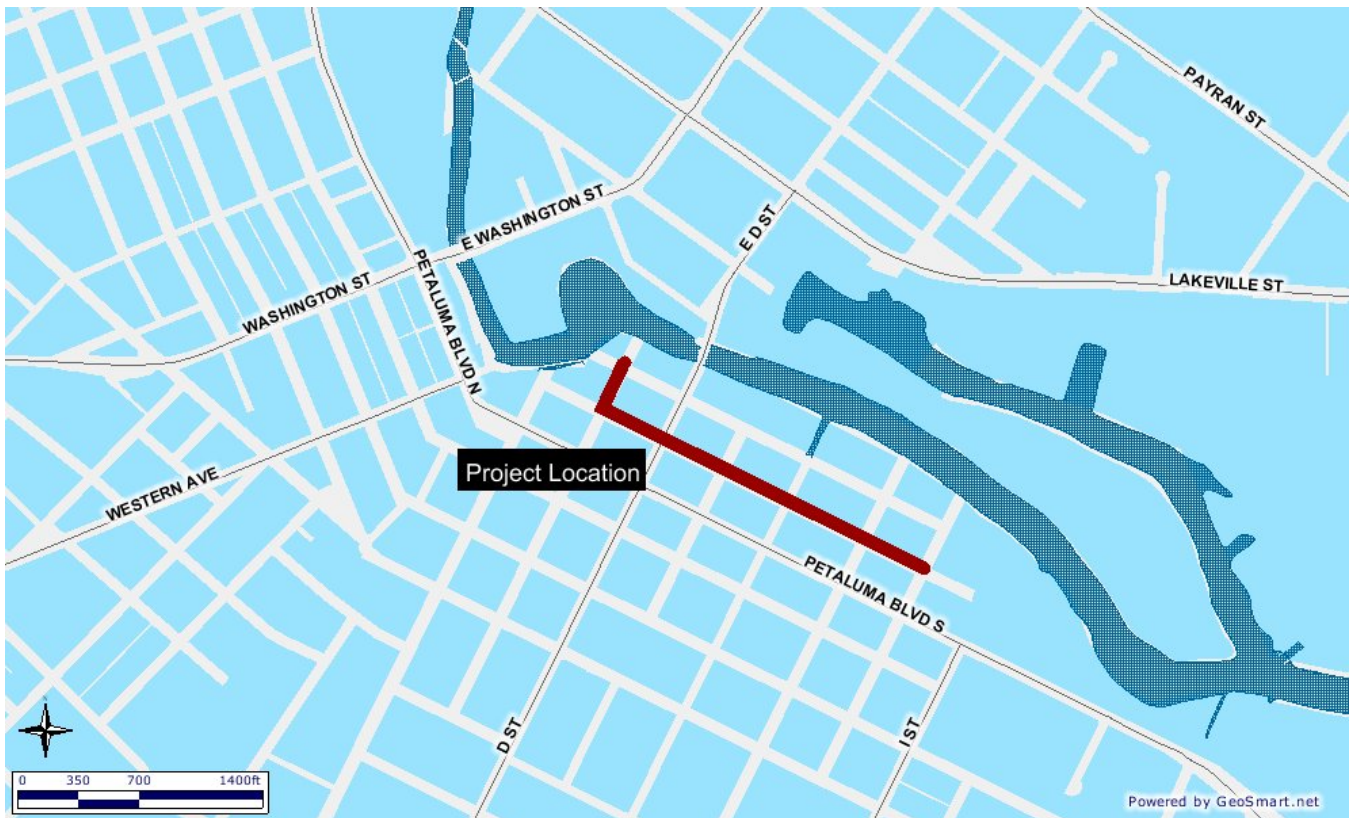
**CALCULATION OF FUTURE SAVINGS**

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: 2<sup>nd</sup> Street Trunk Sewer Replacement**

**Project #: C500DDD**

There are two wastewater collection system mains that run parallel to each other in Second Street, between F Street and H Street. One is a 21-inch diameter main and the other is 12 inches in diameter. Because the parallel mains are not adequately interconnected to allow full utilization of the 12-inch pipeline, the 21-inch pipeline is subject to surcharging. This project will explore alternatives to correct the problem. One design may include replacing the 12-inch pipelines with an 18-inch trunk sewer. The new 18-inch main may also be cross-connected to the existing 21-inch pipeline at adjacent manholes to relieve the 21-inch pipeline. This project is further described on pages 5-10 of the 1985 Sanitary Sewer Capacity Study.



2nd St. Trunk Sewer Replace

C500DDD

USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ -	\$ -	\$ -	\$ 10	\$ 65	\$ -	\$ -	\$ 75
54153 Administration	-	-	-	-	-	-	-	-
54150 Planning & Environmental Services	-	-	-	50	-	-	-	50
54110 Design Services	-	-	-	150	-	-	-	150
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	-	-	-	-	150	-	-	150
54151 Construction Contracts	-	-	-	-	1,000	-	-	1,000
57310 Contingency	-	-	-	-	150	-	-	150
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 210</b>	<b>\$ 1,365</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,575</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ -	\$ -	\$ -	\$ 210	\$ 1,365	\$ -	\$ -	\$ 1,575
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 210</b>	<b>\$ 1,365</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,575</b>

**FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT**

The Department of Water Resources and Conservation continues to make improvements to the wastewater collection system. Future maintenance needs, including the future maintenance of these improvements, will be funded from Water Pollution Control funds.

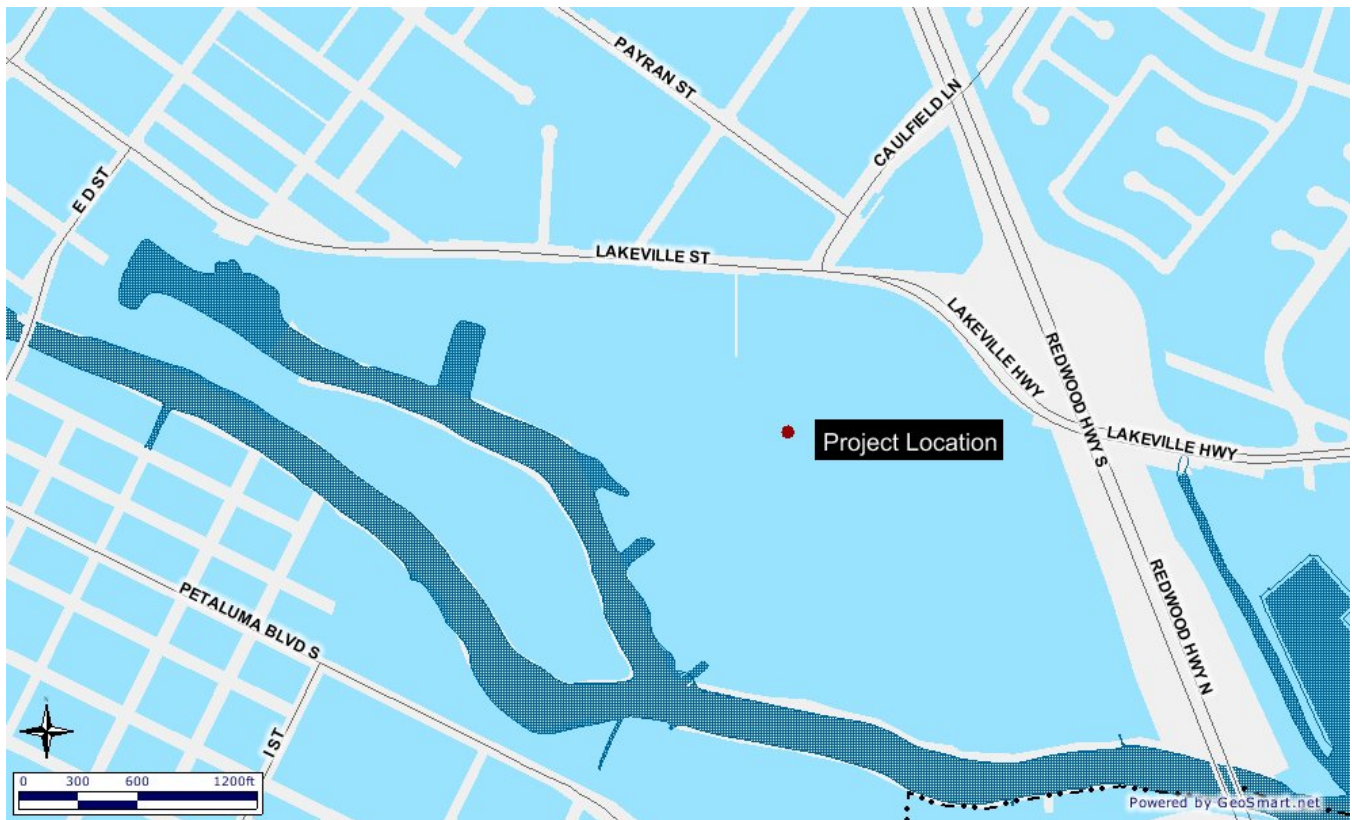
**CALCULATION OF FUTURE SAVINGS**

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.



Demolition of Hopper WWTF

C500305

USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ 1	\$ -	\$ 1		\$ -	\$ 18	\$ 525	\$ 544
54153 Administration	-	-	-	-	-	-	-	-
54150 Planning & Environmental Services	20	-	20	-	-	50	-	70
54110 Design Services	-	-	-	-	-	300	100	400
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	-	-	-	-	-	-	-	-
54151 Construction Contracts	-	-	-	-	-	-	5,000	5,000
57310 Contingency	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>\$ 21</b>	<b>\$ -</b>	<b>\$ 21</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 368</b>	<b>\$ 5,625</b>	<b>\$ 6,014</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ 17	\$ -	\$ 17	\$ -	\$ -	\$ 294	\$ 4,500	\$ 4,811
Waste Water Capital	4	-	4	-	-	74	1,125	1,203
<b>TOTAL</b>	<b>\$ 21</b>	<b>\$ -</b>	<b>\$ 21</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 368</b>	<b>\$ 5,625</b>	<b>\$ 6,014</b>

**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.

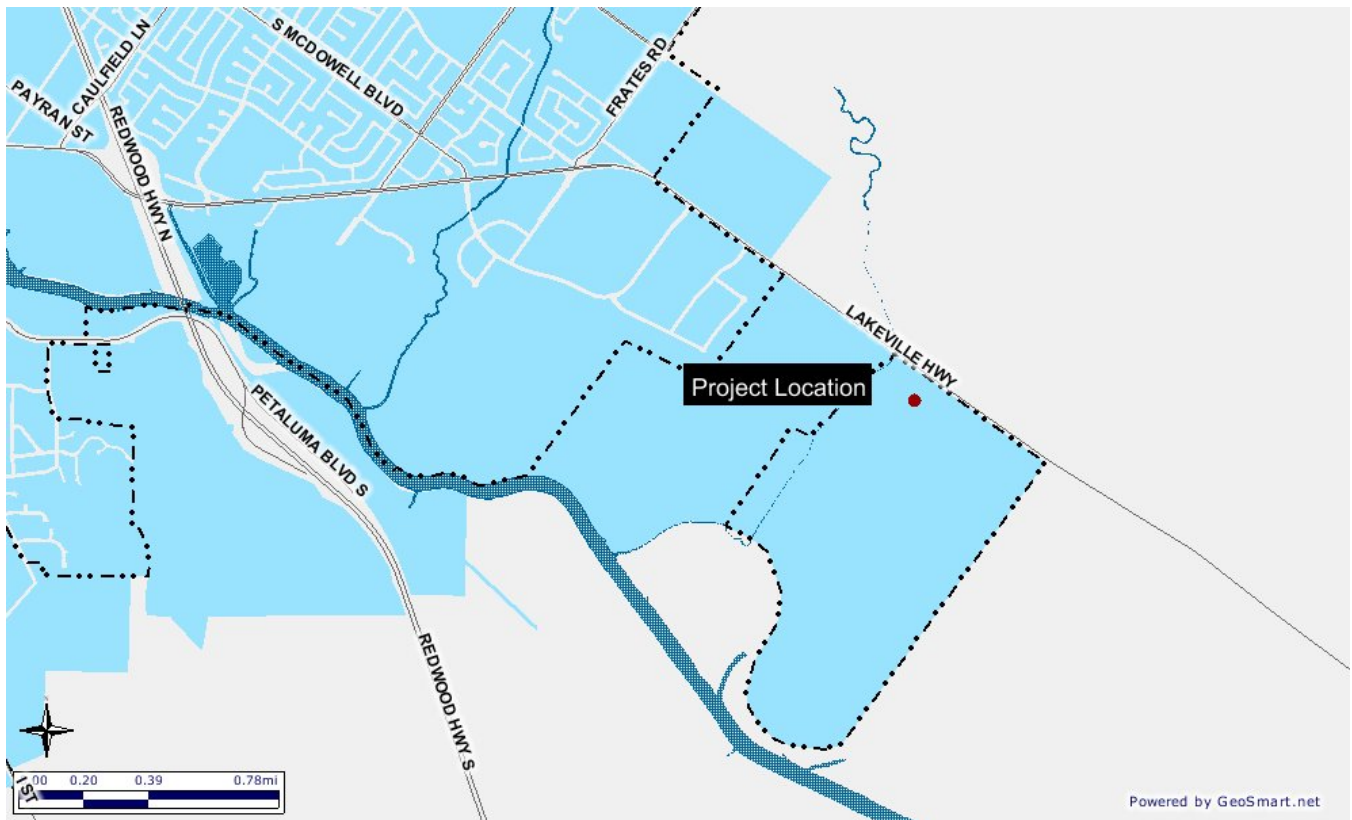
**CALCULATION OF FUTURE SAVINGS**

No savings are anticipated from this project.

**Project Title: Oxidation Pond Dike Repair**

**Project #: C500405**

Approximately 163 acres of oxidation ponds are utilized to store water for recycling programs during the summer months. Pond 1 requires repair to the levy. The repair involves replacing and compacting levy material and adding riprap for stability.



Oxidation Pond Dike Repair C500405

<b>USES (dollars in \$000)</b>	<b>Prior Years</b>	<b>05-06</b>	<b>Total Appro. thru 05-06</b>	<b>06-07</b>	<b>07-08</b>	<b>08-09</b>	<b>09-10</b>	<b>Est. Total</b>
55011 CIP Intragovernmental Overhead	\$ 19	\$ 11	\$ 30	\$ -	\$ -	\$ -	\$ -	\$ 30
54153 Administration	-	-	-	-	-	-	-	-
54150 Planning & Environmental Services	-	-	-	-	-	-	-	-
54110 Design Services	-	-	-	-	-	-	-	-
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	35	20	55	-	-	-	-	55
54151 Construction Contracts	350	203	553	-	-	-	-	553
57310 Contingency	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>\$ 404</b>	<b>\$ 234</b>	<b>\$ 638</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 638</b>

<b>SOURCES (dollars in \$000)</b>	<b>Prior Years</b>	<b>05-06</b>	<b>Total Appro. thru 05-06</b>	<b>06-07</b>	<b>07-08</b>	<b>08-09</b>	<b>09-10</b>	<b>Est. Total</b>
Waste Water Operations	\$ 404	\$ 234	\$ 638	\$ -	\$ -	\$ -	\$ -	\$ 638
<b>TOTAL</b>	<b>\$ 404</b>	<b>\$ 234</b>	<b>\$ 638</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 638</b>

**FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT**

Maintenance of the oxidation pond site will continue to be funded through Water Pollution Control funds.

**CALCULATION OF FUTURE SAVINGS**

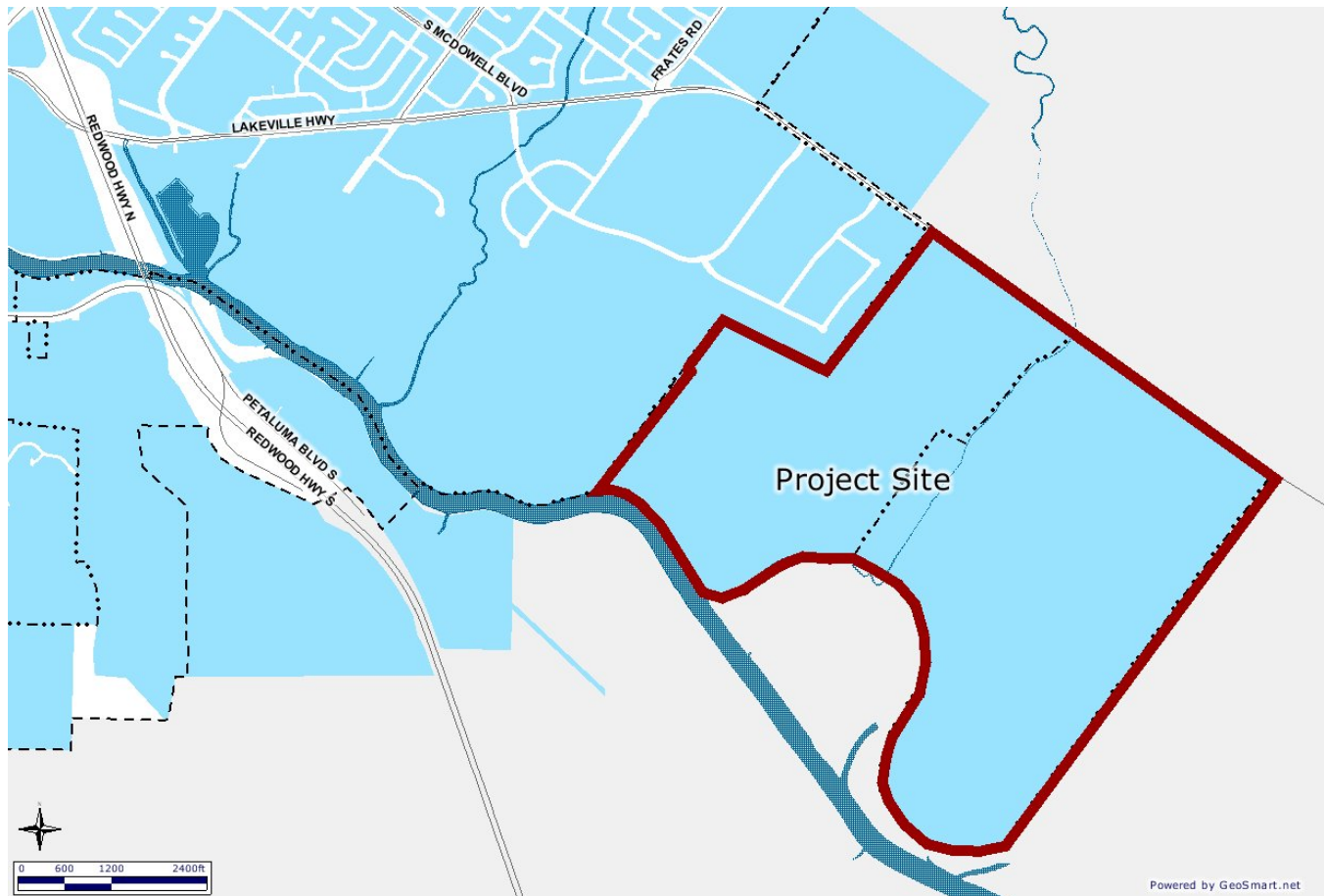
No savings are currently anticipated from this project.

**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 FY04-05. The CIP anticipates the start of construction in FY 05-06. It is anticipated that construction will be completed in early 2008 with complete start up by late 2008.



Water Recycling Fac. - Ellis Creek C500402

USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ 1,101	\$ 1,750	\$ 2,851	\$ 3,504	\$ 360	\$ 40	\$ -	\$ 6,755
54153 Administration	66	13	79	10	10	50	-	149
54150 Planning & Environmental Services	3,555	25	3,580	5	10	-	-	3,595
54110 Design Services	8,450	1,183	9,633	983	983	300	-	11,899
54120 Legal Counsel	-	50	50	-	-	-	-	50
62110 Land & Easements	2,330	-	2,330	-	-	-	-	2,330
54152 Construction Management Services	2,708	1,407	4,115	2,622	2,622	500	-	9,859
54151 Construction Contracts	5,000	23,272	28,272	66,466	3,599	-	-	98,337
57310 Contingency	500	2,327	2,827	6,647	360	-	-	9,834
<b>TOTAL</b>	<b>\$ 23,710</b>	<b>\$ 30,027</b>	<b>\$ 53,737</b>	<b>\$ 80,237</b>	<b>\$ 7,944</b>	<b>\$ 890</b>	<b>\$ -</b>	<b>\$ 142,808</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ 16,998	\$ 1,837	\$ 18,835	\$ 3,519	\$ 380	\$ 890	\$ -	\$ 23,624
SRF Loan	6,712	28,190	34,902	76,718	7,564	-	-	119,184
<b>TOTAL</b>	<b>\$ 23,710</b>	<b>\$ 30,027</b>	<b>\$ 53,737</b>	<b>\$ 80,237</b>	<b>\$ 7,944</b>	<b>\$ 890</b>	<b>\$ -</b>	<b>\$ 142,808</b>

**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.

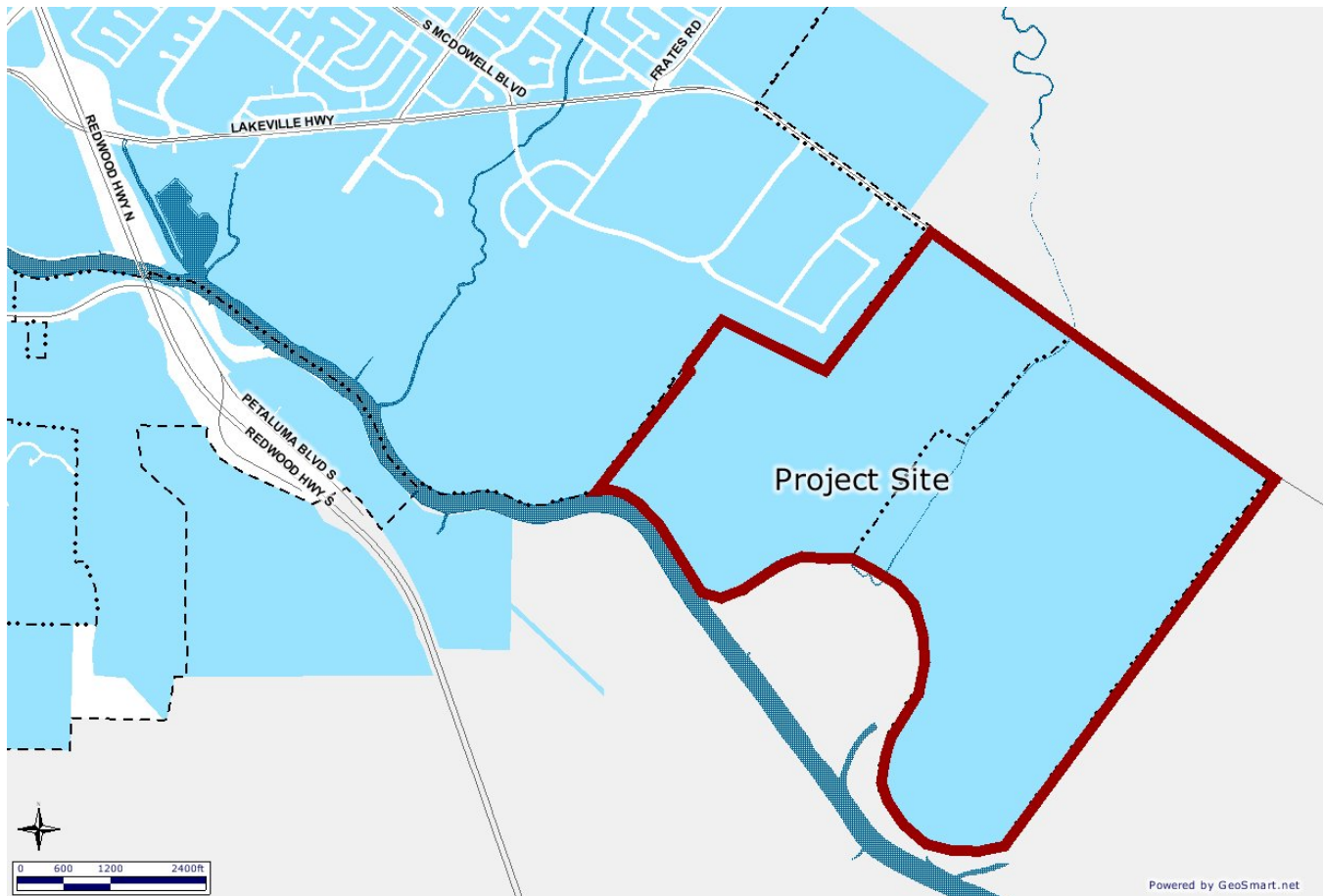
**CALCULATION OF FUTURE SAVINGS**

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.



SCADA Ellis Creek WRF

C500406

USES (dollars in \$000)	Prior	Total Appro.					Est.	
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ -	\$ 5	\$ 5	\$ 27	\$ 27	\$ 16	\$ -	\$ 75
54153 Administration	-	-	-	-	-	-	-	-
54150 Planning & Environmental Services	-	100	100	-	-	-	-	100
54110 Design Services	-	-	-	500	500	300	-	1,300
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	-	-	-	35	35	21	-	91
54151 Construction Contracts	-	-	-	-	-	-	-	-
57310 Contingency	-	-	-	50	50	30	-	130
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ 105</b>	<b>\$ 105</b>	<b>\$ 612</b>	<b>\$ 612</b>	<b>\$ 367</b>	<b>\$ -</b>	<b>\$ 1,696</b>

SOURCES (dollars in \$000)	Prior	Total Appro.					Est.	
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ -	\$ 105	\$ 105	\$ 27	\$ 27	\$ 16	\$ -	\$ 175
SRF Loan	-	-	-	585	585	351	-	1,521
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ 105</b>	<b>\$ 105</b>	<b>\$ 612</b>	<b>\$ 612</b>	<b>\$ 367</b>	<b>\$ -</b>	<b>\$ 1,696</b>

**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.

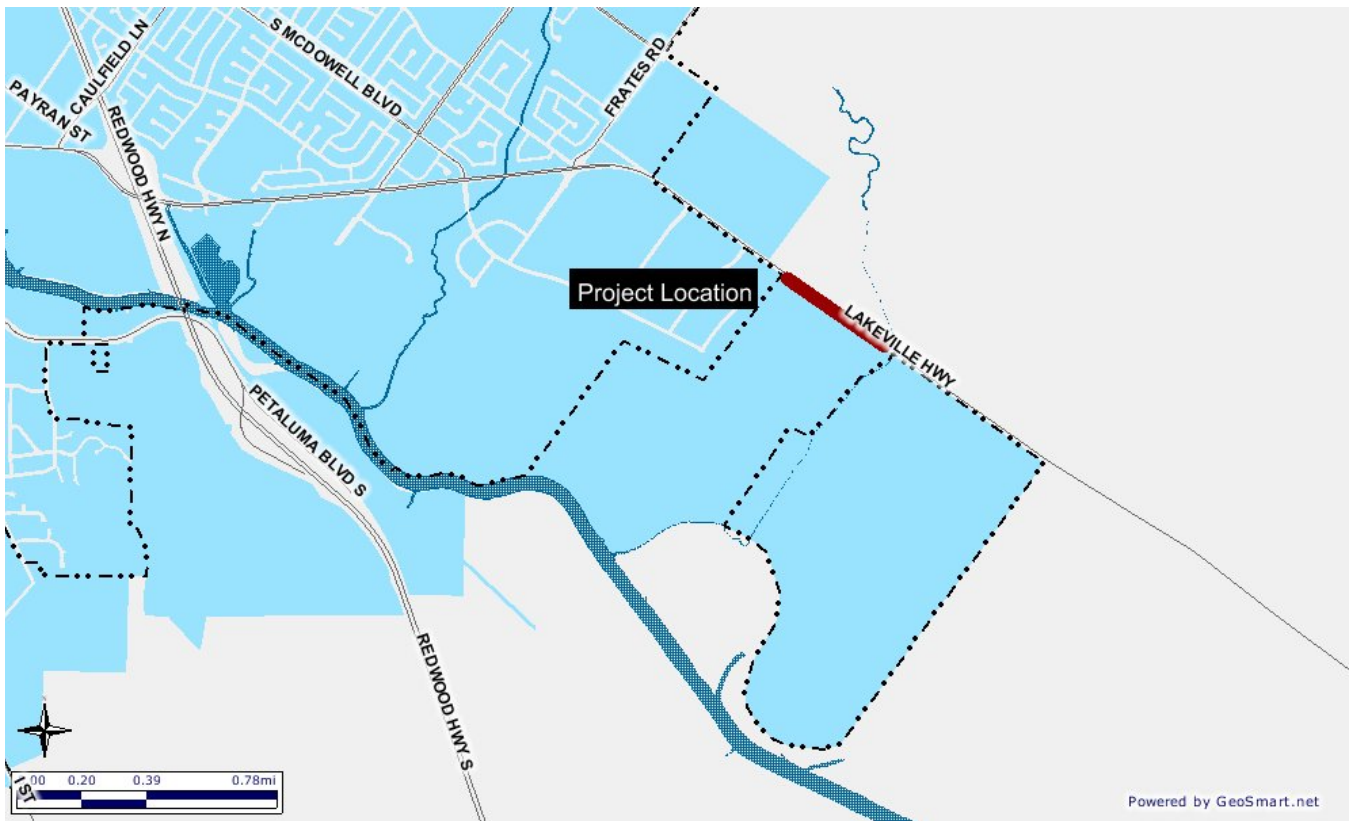
**CALCULATION OF FUTURE SAVINGS**

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: Lakeville Highway Improvements**

**Project #: C500BBB**

Caltrans may require 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 anticipated adding a right turn-in pocket to the new facility. Caltrans has asked the City to enhance the lane width by one foot in both directions along the project site. Caltrans is requiring this extra work because State budget funding is not available to bring any roads up to standard, hence the burden on local government to help bring the roads to standard any time a project is submitted. The City is working hard to negotiate with Caltrans back to the original scope of the work for Lakeville Highway. In order to have time to negotiate and prepare the new design, if necessary, this portion of the Ellis Creek Water Recycling Facility will be bid as a companion project.



Lakeville Highway Improvements C500BBB

USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ -	\$ 4	\$ 4	\$ -	\$ 0	\$ 25	\$ -	\$ 30
54153 Administration	-	-	-	-	-	-	-	-
54150 Planning & Environmental Services	-	12	12	-	-	-	-	12
54110 Design Services	-	75	75	-	8	-	-	83
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	-	-	-	-	-	40	-	40
54151 Construction Contracts	-	-	-	-	-	500	-	500
57310 Contingency	-	-	-	-	-	50	-	50
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ 91</b>	<b>\$ 91</b>	<b>\$ -</b>	<b>\$ 8</b>	<b>\$ 615</b>	<b>\$ -</b>	<b>\$ 714</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ -	\$ 91	\$ 91	\$ -	\$ 8	\$ 25	\$ -	\$ 124
SRF Loan	-	-	-	-	-	590	-	590
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ 91</b>	<b>\$ 91</b>	<b>\$ -</b>	<b>\$ 8</b>	<b>\$ 615</b>	<b>\$ -</b>	<b>\$ 714</b>

**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.

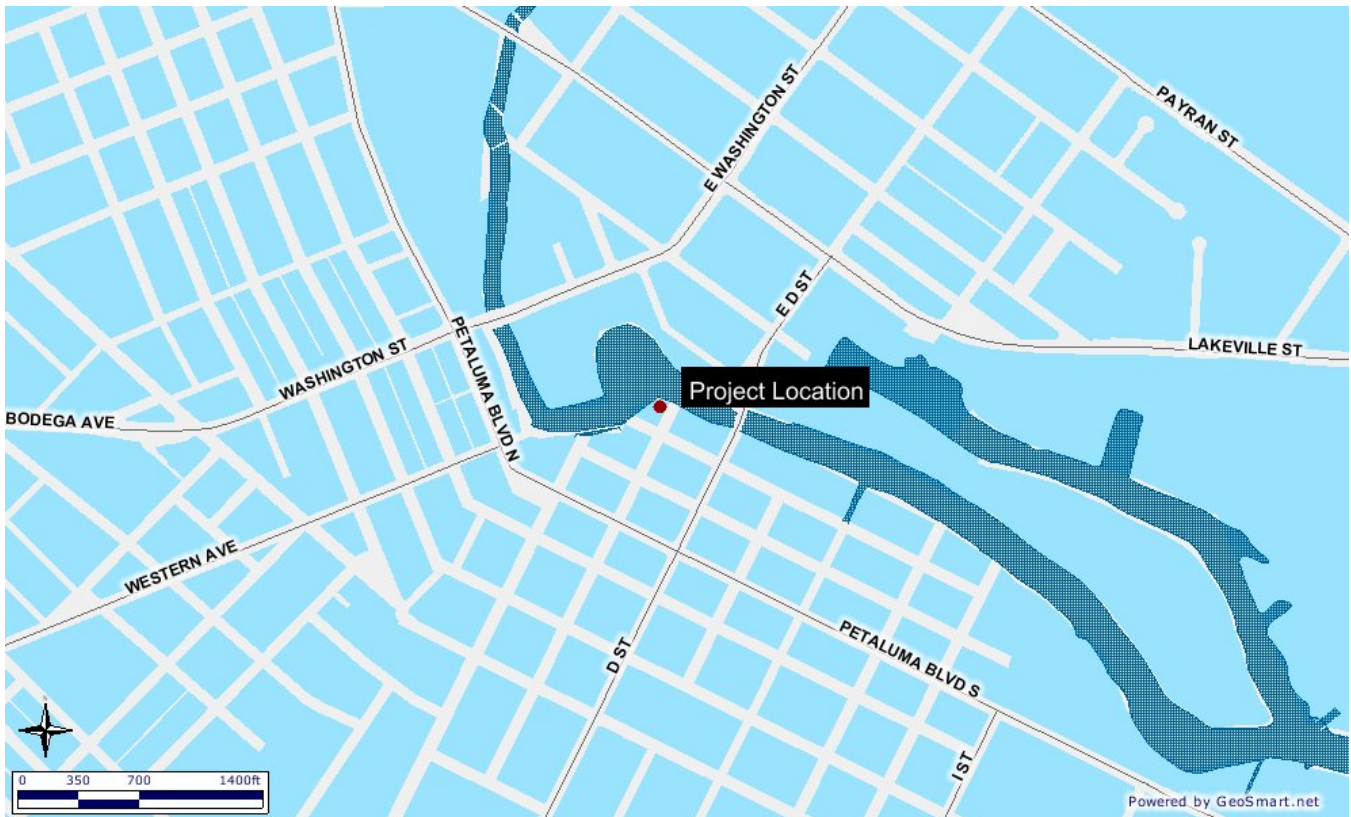
**Project Title: C Street Pump Station Upgrade**

**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:

Design & Bid	FY 2004-2005
Award & Begin Construction	FY 2005-2006
Complete Construction	FY 2006-2007



C Street Pump Station Upgrade C500205

USES (dollars in \$000)	Prior	Total Appro.					Est.	
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ 19	\$ 41	\$ 60	\$ 68	\$ -	\$ -	\$ -	\$ 128
54153 Administration	-	10	10	15	-	-	-	25
54150 Planning & Environmental Services	100	-	100	-	-	-	-	100
54110 Design Services	275	-	275	-	-	-	-	275
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	-	100	100	150	-	-	-	250
54151 Construction Contracts	-	650	650	1,000	-	-	-	1,650
57210 Contingency	-	50	50	200	-	-	-	250

**FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT**

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

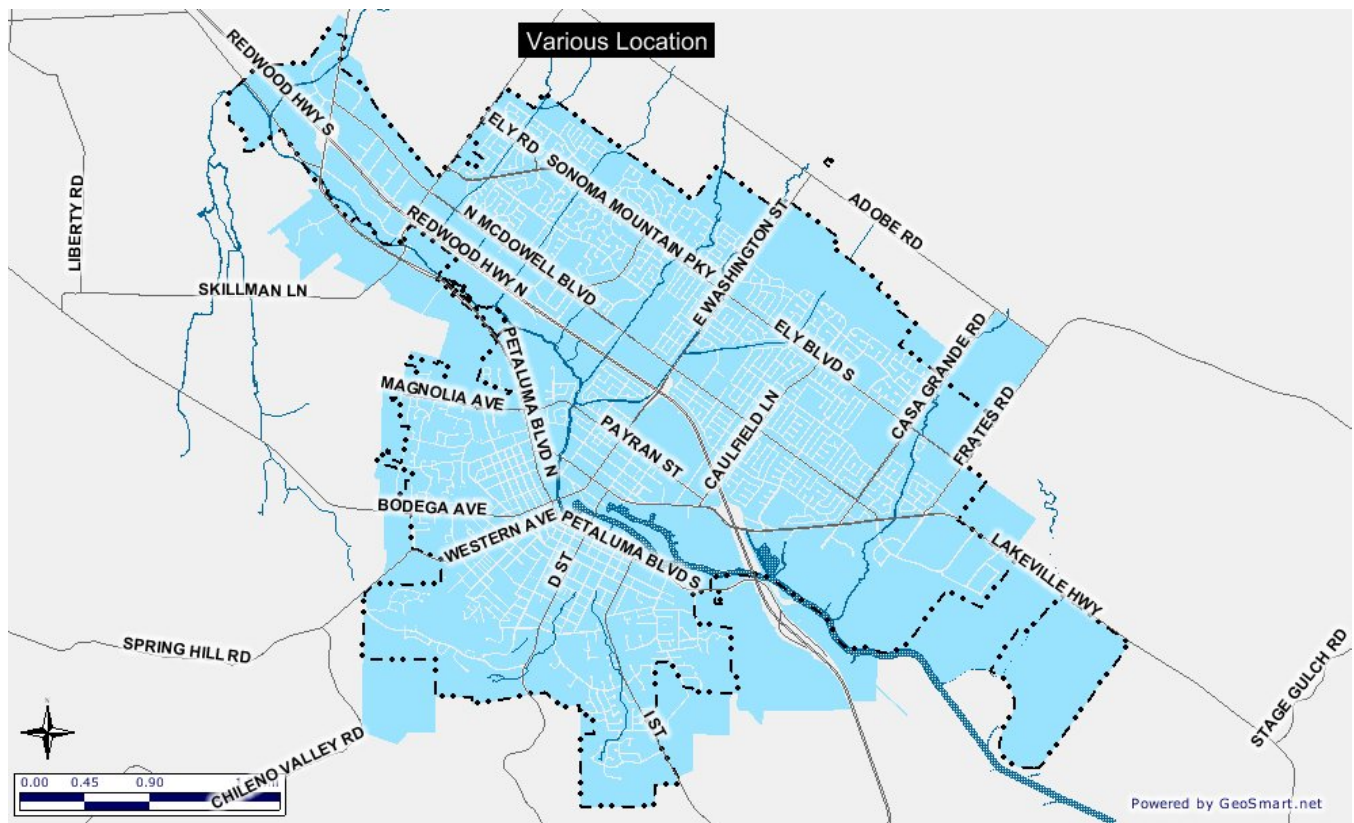
**CALCULATION OF FUTURE SAVINGS**

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

**Project Title: Pump Stations SCADA Electrical**

**Project #: C500EEE**

Eleven pump stations convey sewage from various neighborhoods to the main pump station at Hopper Street. Two pump stations convey recycled water to agricultural land during the summer months (this is required by the regulatory permit). All thirteen pump stations are currently monitored at the Hopper Street wastewater facility. Monitoring will be moved to the new Ellis Creek Water Recycling Facility through this project. Control systems and programming will be standardized through this project. Several electrical upgrades will also be incorporated. Pump station status and monitoring is becoming more regulated as sanitary sewer overflows may result in environmental and potential health exposure risks. This project brings the City's pump stations up to current standards of the industry.



Pump Stations SCADA Electrical C500EEE

USES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
55011 CIP Intragovernmental Overhead	\$ -	\$ -	\$ -	\$ 10	\$ 133	\$ 3	\$ -	\$ 145
54153 Administration	-	-	-	-	-	-	-	-
54150 Planning & Environmental Services	-	-	-	-	-	-	-	-
54110 Design Services	-	-	-	192	100	50	-	342
54120 Legal Counsel	-	-	-	-	-	-	-	-
62110 Land & Easements	-	-	-	-	-	-	-	-
54152 Construction Management Services	-	-	-	-	167	-	-	167
54151 Construction Contracts	-	-	-	-	2,390	-	-	2,390
57310 Contingency	-	-	-	-	239	-	-	239
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 202</b>	<b>\$ 3,029</b>	<b>\$ 53</b>	<b>\$ -</b>	<b>\$ 3,283</b>

SOURCES (dollars in \$000)	Prior	Total Appro.						Est.
	Years	05-06	thru 05-06	06-07	07-08	08-09	09-10	Total
Waste Water Operations	\$ -	\$ -	\$ -	\$ 10	\$ 133	\$ 3	\$ -	\$ 145
SRF Loan	-	-	-	192	2,896	50	-	3,138
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 202</b>	<b>\$ 3,029</b>	<b>\$ 53</b>	<b>\$ -</b>	<b>\$ 3,283</b>

**FUTURE MAINTENANCE OF CAPITAL IMPROVEMENT PROJECT**

Maintenance will occur as part of the SCADA system for the new Ellis Creek Water Recycling Facility.

**CALCULATION OF FUTURE SAVINGS**

One benefit of this project is the ability to react to sanitary sewer failure conditions quickly and decisively, which can save the City from incurring potential regulatory actions.

