

WATER SYSTEM CAPITAL IMPROVEMENT FUND - FUND 622

PROJ. NO.	PROJECT DESCRIPTION	PROJ. TOTAL	PRIOR YEARS	EST. FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19
7021	Groundwater Management Plan	300	15	285										
7131	Three New PRV Stations	200	0	200										
7137	PG&E Power to High School Reservoir	35	0	35										
7141	Evaluation of 20" Winton Aqueduct	50	0	50										
7142	Water Compliance System Software	30	0	30										
7162	Water Facility Security Enhancements	400	196	204										
7166	Regional Water Intertie Project Administration	175	111	64										
7170	Water Maintenance Software	90	4	86										
7171	Emergency Wells SCADA Installation	350	0	350										
	<i>EBMUD Mitigation - Reimbursement</i>	50		50										
NEW	Purchase of Five-Acre Parcel at Hesperian	3,485	N/A	3,485										
7024	Reservoir Landscape Improvements (7 sites)	108	24	42	42									
7139	Install Water Line at Golf Course Access Road	712	16	12	684									
7029	Project Predesign Services	165	N/A	15	15	15	15	15	15	15	15	15	15	15
7119	Radio Telemetry & Transducer Replacement & Upgrade	165	N/A	15	15	15	15	15	15	15	15	15	15	15
7023	Installation of Emergency Sudden Loss Valves at Various Locations	422	0	0	422									
7160	Seismic Retrofit Maitland Reservoir and Appurtenances	690	0	0	130	560								
7161	Seismic Retrofit "D" Street Reservoir	1,150	0	0	150	1,000								
7173	Seismic Retrofit Highland 250 Reservoirs	1,026	29	0	97	900								
7136	System Seismic Upgrades	400	0	0	100	100	100	100						
NEW	High School Reservoir Roof Replacement	500	N/A	0	500									
7138	Install Water Line Looping Near BART Tracks & Whipple Rd.	640	0	0	0	640								
7140	Parallel Supply to the 330 Zone	1,270	120	0	0	1,150								
NEW	Water System Master Plan Update	400	N/A	0	0	0	400							
NEW	Water System Master Plan Improvement Projects	2,500	N/A	0	0	0	0	500	500	500	500	500		
NEW	Groundwater Management Plan Modeling & Implementation	3,000	N/A	0	0	0	0	0	0	3,000				
7172	New 3 MG Reservoir at High School Reservoir Site	8,574	74	0	0	0	0	0	0	0	0	8,500		
NEW	Underground 2 MG Reservoir at Hesperian Site	5,000	N/A	0	0	0	0	0	0	0	0	0	5,000	
	TOTAL PROJECT COSTS			4,873	2,155	4,380	530	630	530	3,530	530	9,030	5,030	30

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PROJ. NO.	PROJECT DESCRIPTION	PROJ. TOTAL	PRIOR YEARS	EST. FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19
	Retirement of Debt Service for Utilities Center	1,820	1,390	86	86	86	86	86						
	Retirement of Debt Service - Hesperian Pump Station	10,390	970	260	260	260	260	300	300	300	300	300	300	300
	Transfer to Fund 613 - 50% of Recycled Water Loan DS			0	0	0	0	0	160	160	160	160	160	160
	TOTAL EXPENDITURES			5,219	2,501	4,726	876	1,016	990	3,990	990	9,490	5,490	490
	REVENUES:													
	Facilities Fee			1,400	800	800	800	1,200	1,600	1,600	1,600	1,600	1,600	1,600
	Interest			151	130	207	171	263	377	356	335	203	35	41
	EBMUD - Bayside Wellfield Mitigation Funds			50										
	REVENUE SUBTOTAL:			1,601	930	1,007	971	1,463	1,977	1,956	1,935	1,803	1,635	1,641
	TRANSFERS IN FROM:													
	Fund 623 for Replacement Share of Hesperian Reservoir												3,000	
	REVENUE TOTALS:			1,601	930	1,007	971	1,463	1,977	1,956	1,935	1,803	4,635	1,641
	BEGINNING FUND BALANCE:			17,541	13,866	12,295	8,576	8,671	9,118	10,105	8,071	9,016	1,329	474
	ENDING FUND BALANCE:			13,866	12,295	8,576	8,671	9,118	10,105	8,071	9,016	1,329	474	1,625

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Reservoir Landscape Improvements (Seven Sites)

Project No.: 7024

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	24	42	42										108
Reimbursements													
Net Cost to Fund	24	42	42										108

DESCRIPTION:

Project to irrigate and replant appropriate trees and vegetation at the following sites:

- *D Street Reservoir
- *Maitland Reservoir
- *Treeview Reservoir
- *N. Walpert Reservoir
- *250 Reservoir
- *750 Reservoir
- *1000 Reservoir

JUSTIFICATION:

Project will improve the appearance of these sites through professionally designed placement of new landscape materials. Since several of the sites are in the middle of neighborhoods, input from local residents will be needed.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Install Water Line at Golf Course Access Road

Project No.: 7139

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	16	12	684										712
Reimbursements													
Net Cost to Fund	16	12	684										712



DESCRIPTION:

Project to improve fire suppression capacity and improve water quality in the vicinity of the project area by adding 3,650 feet of 12" water line.

JUSTIFICATION:

Project recommended in the Water System Master Plan Update, December 2002.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Project Predesign Services

Project No.: 7029

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	N/A	15	15	15	15	15	15	15	15	15	15	15	165
Reimbursements													
Net Cost to Fund	N/A	15	15	15	15	15	15	15	15	15	15	15	165

DESCRIPTION:

City engineering costs associated with water system projects, including preliminary survey, design, and cost estimates.

JUSTIFICATION:

Predesign projects fund work by Engineering and Transportation Division staff involving preliminary design and general administrative work performed on the Capital Improvement Program.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

Added \$15,000 each year from FY14 through FY19 to permit continuation of this project.

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Radio Telemetry and Transducer Replacement and Upgrade

Project No.: 7119

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	N/A	15	15	15	15	15	15	15	15	15	15	15	165
Reimbursements													
Net Cost to Fund	N/A	15	15	15	15	15	15	15	15	15	15	15	165

DESCRIPTION:

Annual project to update the radio telemetry system with transducer replacements.

JUSTIFICATION:

Radio telemetry system requires annual improvements in order to maintain reliability.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

Added \$15,000 each year from FY14 through FY19 to permit continuation of this project.

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Installation of Emergency Sudden Loss Valves at Various Locations

Project No.: 7023

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	422										422
Reimbursements													
Net Cost to Fund	0	0	422										422

DESCRIPTION:

Project to install actuators, valve fittings, and sentry units at reservoirs.

JUSTIFICATION:

Project will prevent water loss at reservoirs during an earthquake.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Seismic Retrofit Maitland Reservoir & Appurtenances

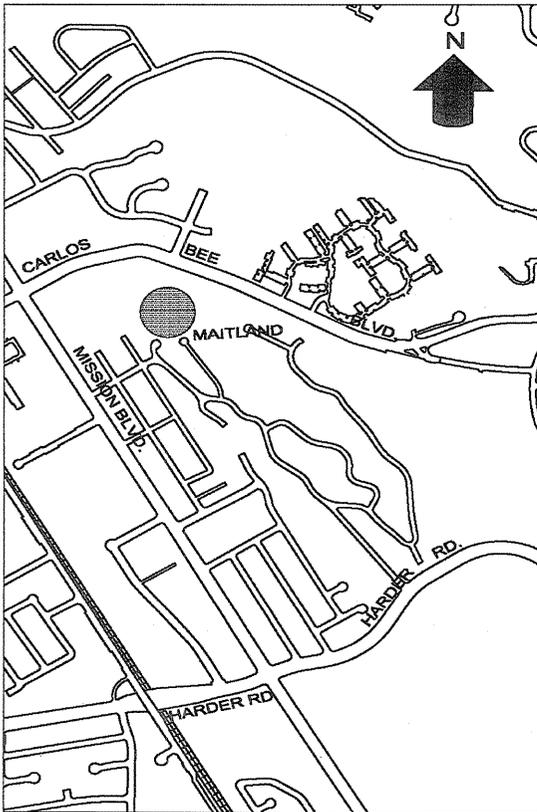
Project No.: 7160

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	130	560									690
Reimbursements													
Net Cost to Fund	0	0	130	560									690



DESCRIPTION:

Project to evaluate potential slope instability and upgrade the reservoir structure through two phases to withstand seismic events. An engineering evaluation would be followed by appropriate upgrading of tank structure components.

JUSTIFICATION:

This is a Priority B (medium retrofit priority), as identified in the seismic study for utility structures by Dames & Moore.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

This project reduces replacement and reconstruction costs in the event of a major earthquake.

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Seismic Retrofit "D" Street Reservoir

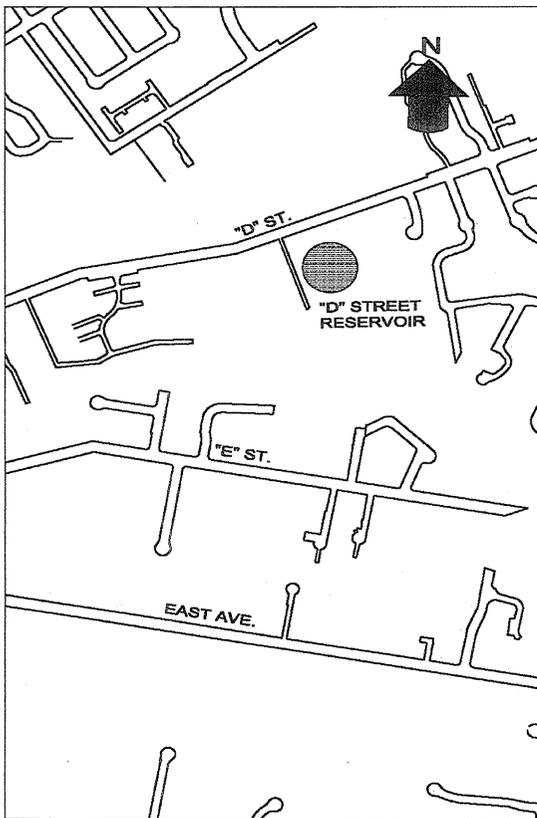
Project No.: 7161

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	150	1,000									1,150
Reimbursements													
Net Cost to Fund	0	0	150	1,000									1,150



DESCRIPTION:

This is a two-phase project to strengthen reservoir tank walls. The first phase of the study would determine the need for and extent of seismic strengthening. The second phase would construct needed enhancements. Also, connections for columns and roof joists would be upgraded to current seismic standards.

JUSTIFICATION:

This is a Priority B (medium retrofit priority), as identified in the seismic study for utility structures by Dames & Moore.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

This project reduces replacement and reconstruction costs in the event of a major earthquake.



CITY OF
HAYWARD
HEART OF THE BAY

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Seismic Retrofit Highland 250 Reservoirs

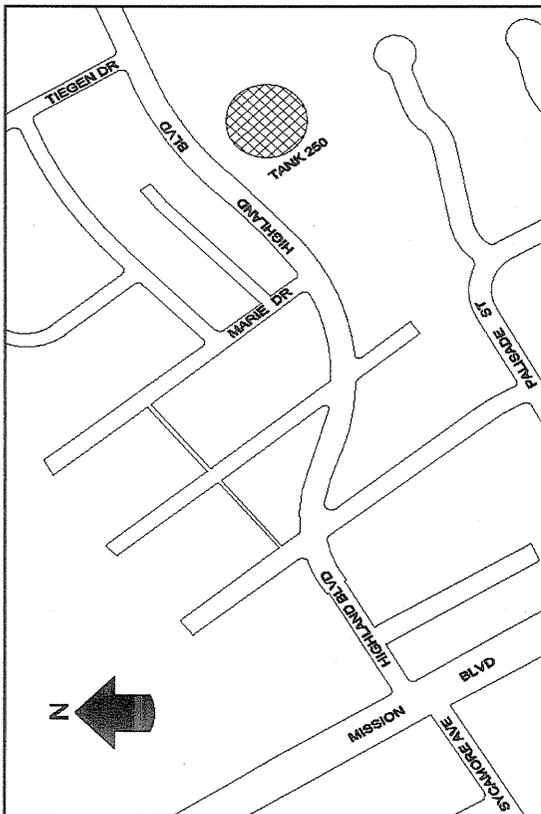
Project No.: 7173

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	29	0	97	900									1,026
Reimbursements													
Net Cost to Fund	29	0	97	900									1,026



DESCRIPTION:

This project will seismically retrofit the Highland 250 reservoirs.

JUSTIFICATION:

Recommended in Dames & Moore Seismic Report.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CITY OF
HAYWARD
HEART OF THE BAY

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: System Seismic Upgrades

Project No.: 7136

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	100	100	100	100							400
Reimbursements													
Net Cost to Fund	0	0	100	100	100	100							400

DESCRIPTION:

Project to provide miscellaneous improvements to the existing water system to harden the facilities against earthquakes will be done over several years.

JUSTIFICATION:

Improvements recommended in the Water System Seismic Performance Review Report, October 2002.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

This project reduces replacement and reconstruction costs in the event of a major earthquake.

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: High School Reservoir Roof Replacement

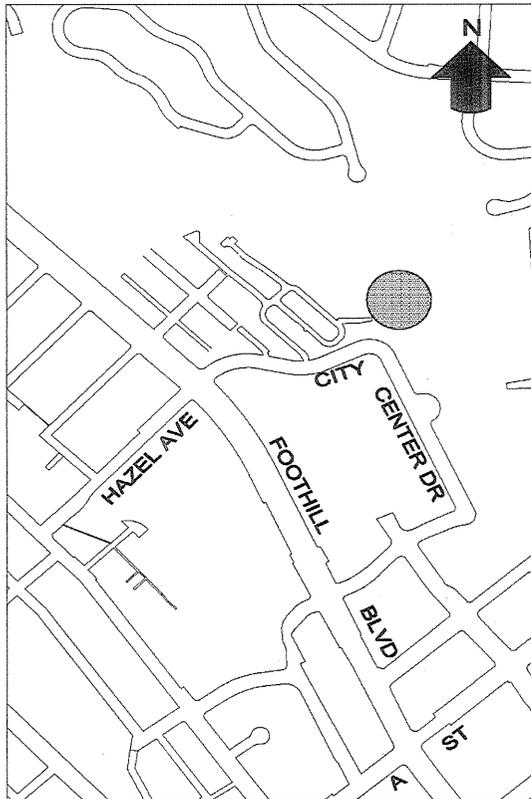
Project No.: New

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	500										500
Reimbursements													
Net Cost to Fund	0	0	500										500



DESCRIPTION:

This project will replace the wooden roof at this reservoir and replace it with an aluminum roof.

JUSTIFICATION:

The existing wooden roof has failed and needs to be replaced.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CITY OF
HAYWARD
HEART OF THE BAY

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Install Water Line Looping near BART Tracks & Whipple Road

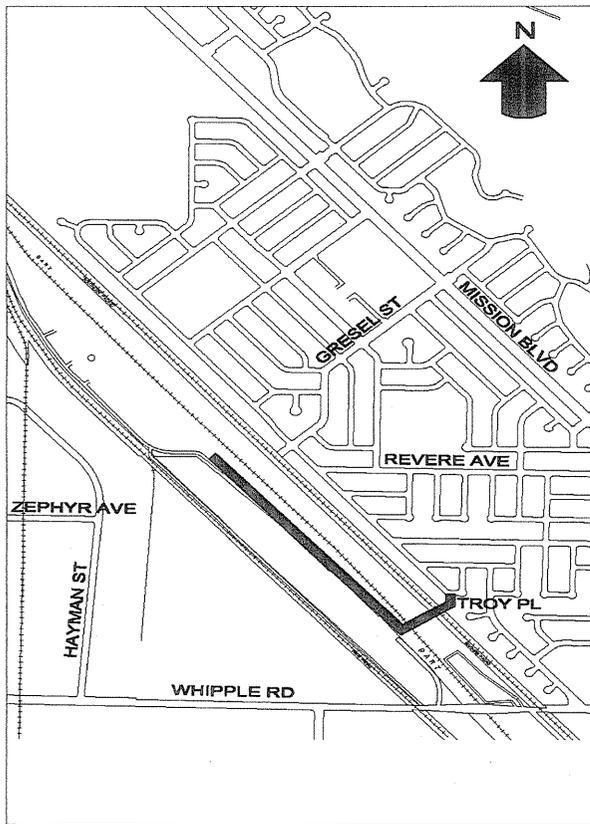
Project No.: 7138

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	0	640									640
Reimbursements													
Net Cost to Fund	0	0	0	640									640



DESCRIPTION:

Project to install water line looping near the BART tracks between Hayman Street and Whipple Road.

JUSTIFICATION:

Looping will improve fire suppression capacity in the vicinity of the project area. Project recommended in Water System Master Plan Update, December 2002.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CITY OF
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CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Parallel Supply to the 330 Zone

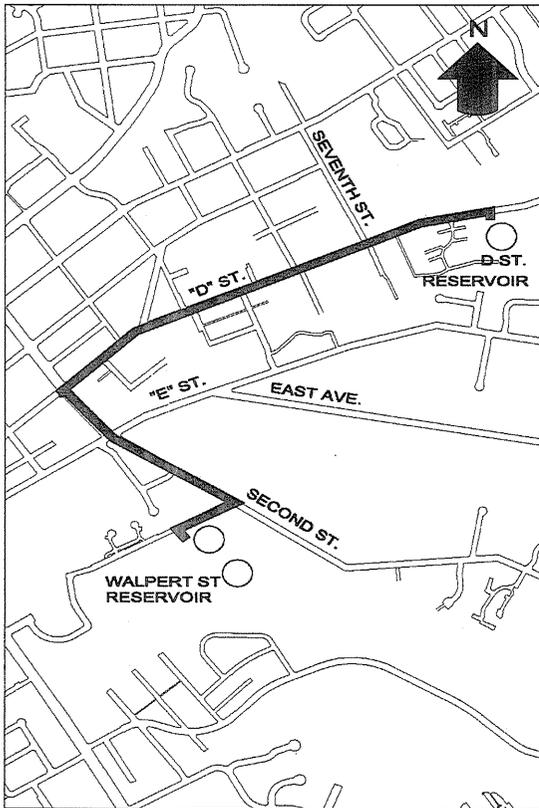
Project No.: 7140

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	120	0	0	1,150									1,270
Reimbursements													
Net Cost to Fund	120	0	0	1,150									1,270



DESCRIPTION:

Project to install new water lines and a new PRV station near the Walpert tanks, thereby creating a parallel water supply for improved fire suppression capacity. A portion of the project has been completed through the improvements at the Second and E Street intersection.

JUSTIFICATION:

Project recommended in the Water System Master Plan Update, December 2002.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CITY OF
HAYWARD
HEART OF THE BAY

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Water System Master Plan Update

Project No.: New

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	0	0	400								400
Reimbursements													
Net Cost to Fund	0	0	0	0	400								400

DESCRIPTION:

The last complete Water System Master Plan was prepared in 1995 and updated in 2002. A number of the recommendations have been implemented or are included in the Capital Improvement Program and scheduled to be completed by 2012. Therefore, it would be beneficial to prepare a new Water System Master Plan by that time.

JUSTIFICATION:

The Plan would update future system demand, evaluate hydraulic and operational capacity, and review the physical condition of some major facilities.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Water System Master Plan Improvement Projects

Project No.: New

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	0	0	0	500	500	500	500	500			2,500
Reimbursements													
Net Cost to Fund	0	0	0	0	0	500	500	500	500	500			2,500

DESCRIPTION:

It is anticipated that the Water System Master Plan, scheduled to be completed in 2012, will identify needed improvement projects in order to ensure the reliability of the City's water distribution system.

JUSTIFICATION:

This project serves as a place holder to fund implementation of the Plan recommendations that result in improvements to the system.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CITY OF
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CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Groundwater Management Plan Modeling and Implementation

Project No.: New

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	0	0	0	0	0	3,000					3,000
Reimbursements													
Net Cost to Fund	0	0	0	0	0	0	0	3,000					3,000

DESCRIPTION:

This project is a continuation of the City's efforts to study groundwater conditions in the Hayward area in order to evaluate the availability of water to pump for various uses, such as irrigation and industrial uses, and the impact that such pumping will have on the aquifer and the environment.

JUSTIFICATION:

The project will assist the City in its ongoing efforts to manage natural resources in the most effective way.

MAP NOT APPROPRIATE

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: New 3 MG Reservoir at High School Reservoir Site

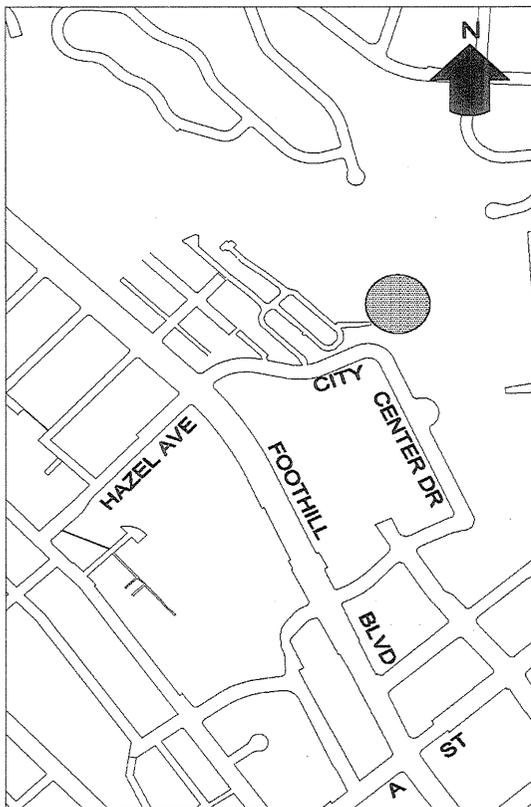
Project No.: 7172

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	74	0	0	0	0	0	0	0	0	8,500			8,574
Reimbursements													
Net Cost to Fund	74	0	0	0	0	0	0	0	0	8,500			8,574



DESCRIPTION:

Project to construct new 3 MG reservoir at the High School Reservoir site, which will replace the existing 1.0 MG reservoir and create the storage capacity needed to meet emergency water demands in the 250 Zone.

JUSTIFICATION:

Project recommended in the Water System Master Plan Update, December 2002.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

Decreased project cost by \$2,660,000 to reflect current scope of project.

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.

CAPITAL IMPROVEMENT PROGRAM FY10 - FY19

CATEGORY: Water System

Project Title: Underground 2 MG Reservoir at Hesperian Site

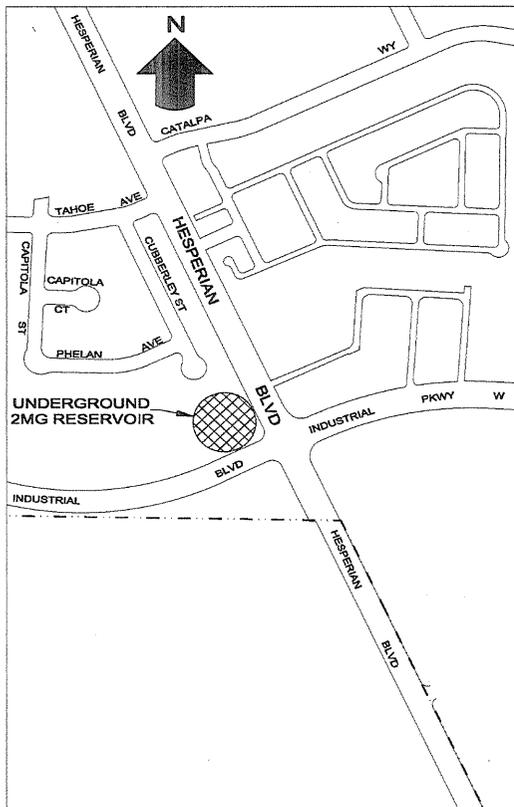
Project No.: New

Fund 622 - Water System Capital Improvement Fund

(\$ IN \$1,000)

PROPOSED CIP EXPENDITURE AND REIMBURSEMENT SCHEDULE

	PRIOR FUNDING	ESTIMATED FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	TOTALS
Expenditures	0	0	0	0	0	0	0	0	0	0	5,000		5,000
Reimbursements													
Net Cost to Fund	0	0	0	0	0	0	0	0	0	0	5,000		5,000



DESCRIPTION:

This project would provide storage west of Mission Boulevard, utilizing the five-acre site purchased by the Water Utility in 2009. The reservoir would be sited below ground in order to use the property for equipment storage and other purposes.

JUSTIFICATION:

All of the City's current capacity is located east of Mission Boulevard. In addition, project is recommended in the Water System Reservoir Study.

REIMBURSEMENTS:

PROJECT MODIFICATIONS:

OPERATING BUDGET IMPACTS:

No measurable impact on the General Fund.



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