

Agenda Item: 14-6B
Meeting Dates: April 13 and 14, 2005

JOINT MEETING WITH BAY-DELTA PUBLIC ADVISORY COMMITTEE

CONSIDERATION OF A RESOLUTION RECOMMENDING TO THE STATE WATER RESOURCES CONTROL BOARD THAT IT PROCEED WITH ADOPTION OF WATER RECYCLING FUNDING PROGRAM RANKING OF PROJECTS FOR ALLOCATION OF PROPOSITION 50 FUNDS AND REVIEW AND APPROVAL OF APPLICATIONS

Summary: This resolution would recommend that the State Water Resources Control Board (SWRCB) adopt the Water Recycling Funding Program (WRFP) ranking of projects for allocation of Proposition 50 construction grant funds and complete application review and approval of grant commitments as projects are ready to proceed.

Recommended Action: The Authority adopt the attached Resolution 05-04-06, recommending SWRCB adopt the WRFP ranking for allocation of Proposition 50 grant funds and complete application review and approval of grant commitments as projects are ready to proceed.

Background

The State Water Resources Control Board (SWRCB) administers the Water Recycling Funding Program (WRFP) as a continuous program to fund the planning, design, and construction of water recycling projects. WRFP has been sustained by bonds issued in 1984, 1988, 1996, 2000, and 2002 (Proposition 50, the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002, incorporated into Division 26.5 of the California Water Code), as well as the State Revolving Fund for Construction of Wastewater Treatment Facilities. Funds for water recycling from Proposition 50 are authorized under Chapter 7, which is designated for the implementation of the CALFED Bay-Delta Program. The Legislature appropriated approximately \$9.2 million from Proposition 50 for water recycling projects in Fiscal Year (FY) 2002-03. An additional \$42 million was appropriated in FY 2003-04.

WRFP is administered under *Water Recycling Funding Program Guidelines* (Guidelines), which were revised to incorporate new provisions related to Proposition 50 funds and, following recommendation by the Authority (Resolution 04-10-03), adopted by SWRCB on October 21, 2004. Proposition 50 funds are being made available for the construction of water recycling projects.

The key features of the construction grants in the Guidelines are as follows:

1. Construction grants are limited to 25 percent of the eligible construction cost of a proposed project, or \$5 million, whichever is less. The maximum grant may be reduced to distribute available funds among a greater number of projects.
2. Retroactive grant funding of eligible construction costs incurred on or after January 1, 2004, is available.
3. Eligible funding recipients include public agencies and privately owned water utilities that are regulated by the California Public Utilities Commission.

Proposition 50 funds will be used only for projects that help implement the CALFED Bay-Delta Program, consistent with Chapter 7 of Proposition 50. These projects, classified as Category I projects in the Guidelines, are those which:

- Provide for treatment and delivery of municipal wastewater or groundwater contaminated due to human activity for uses that offset the State Water Supply; and
- Provide benefits to the Delta by:
 - Increasing the average water flow into the Delta; or
 - Reducing water pumping from the Delta.

As other sources of funds become available, other categories of projects will be considered for funding as described in the Guidelines.

There are two major steps in the water recycling construction grant process: (1) placement in six categories on a Competitive Project List (CPL) based on submittal of an online questionnaire; and (2) submittal of an application to SWRCB for funding. The CPL was adopted by SWRCB on January 20, 2005. The Authority concurred with this action by adoption of Resolution 05-02-02.

A project's placement on the CPL is not a commitment for funding. The complete application must substantiate the benefits of the proposed project and the applicant's readiness to proceed with design and construction.

There are 25 projects in Category I for which applicants have submitted complete applications with a total request for grant funding of \$59 million. Because this exceeds the \$42 million available, SWRCB staff prepared a ranking of these projects. The following factors were used:

1. Reduce the maximum grant amount per project from \$5 million to \$4 million to distribute the available funds among a greater number of projects.
2. Provide preferences for projects that provide benefit to and/or are submitted by a disadvantaged community (defined in Appendix H of the Guidelines).

3. Distribute the grant funds geographically by allocating:
 - a. a minimum of 40 percent of the funds to projects within the following Southern California Counties: Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura Counties,
 - b. a minimum of 40 percent of the funds distributed to projects within the remaining counties; and
 - c. the remaining 20 percent of the funds distributed to projects within any county.

4. Prioritize applications based on the type of project (projects with multiple components will be prioritized based on the highest-ranking project type).
 - a. Recycled Water Distribution System
 - i) Component of a Regional Distribution System
 - ii) Local Distribution System
 - b. Groundwater Recharge Facilities
 - c. Recycled Water Treatment Facilities
 - d. Groundwater Reclamation

SWRCB will consider adopting this ranking for allocation of Proposition 50 grant funds at its Board Meeting on April 21, 2005. The ranked list is provided in Attachment 1. After the list is adopted, staff will review funding requests, in the order of the ranking, and approve acceptable applications for those projects that are ready to proceed until the grant funds are exhausted. A summary of information of all projects on this list is provided in Attachment 2 as background information for the Authority.

The current schedule of WRFPP for construction grants is as follows:

10/21/04	SWRCB adopted Guidelines
10/28/04	Announced CPL process and availability of Proposition 50 funds
1/20/05	SWRCB adopted CPL
10/21/04 – 1/20/05	Initial grant applications accepted for priority consideration
4/21/05	SWRCB approves project funding ranking for allocation of Proposition 50 grant funds
Apr-Jul 2005	SWRCB approves individual grant commitments
Starting Jul 2005	Grant agreements executed

The use of the Chapter 7 Proposition 50 funds for WRCP qualifies as a Category A program under CALFED Record of Decision, and is subject to Authority action. SWRCB is requesting that the Authority recommend that SWRCB adopt the WRFPP ranking for allocation of Proposition 50 grant funds and proceed with application review and approval of grant commitments as projects are ready to proceed.

Fiscal Information

Funding Source: Proposition 50, Water Code, Division 26.5, Chapter 7, Section 79550(g)

Term: July 1, 2004 to June 30, 2005

Total Amount: \$42,000,000 appropriated but uncommitted to projects

List of Attachments

Attachment 1 – Water Recycling Funding Program Category I Draft Project Funding Ranking
[proposed to be adopted by SWRCB on April 21, 2005]

Attachment 2 – Summary of projects on ranking list

Resolution 05-04-06

Contact

Shahla Dargahi Farahnak
Supervising Water Resource Control Engineer
State Water Resources Control Board

Phone: (916) 341-5737

Agenda Item: 14-6B
Meeting Dates: April 13 and 14, 2005

Water Recycling Funding Program Category I Draft Project Funding Ranking Exhibit A

For consideration at the State Water Board April 6, 2005 Workshop and April 21, 2005 Meeting

Complete Applications - Southern Group

Review Order	Project No.	Agency	Project Name	County	Estimated Eligible Project Cost (\$Million)	Estimated Grant & Allowance (\$Million)	Summation of Estimated Grants (\$Million)	Start Date
1	3407-030	LONG BEACH, CITY OF, BOARD OF WATER COMMISSIONERS	LONG BEACH RECYCLED WATER SYSTEM EXPANSION PHASE 2	Los Angeles	7.73	2.22	2.22	05/07/06
2	3408-030	LONG BEACH, CITY OF, BOARD OF WATER COMMISSIONERS	LONG BEACH RECYCLED WATER SYSTEM EXPANSION PHASE 3	Los Angeles	3.56	1.02	3.25	03/08/08
3	3820-030	Eastern Municipal Water District	Temecula Valley Effluent Pipeline	Riverside	34.61	4.00	7.25	08/14/03
4	3821-030	Eastern Municipal Water District	Eastern Municipal Water District Recycled Water System Pressurization and Expansion	Riverside	10.57	3.04	10.29	09/15/04
5	3414-030	Upper San Gabriel Valley Municipal Water District	San Gabriel Valley Water Recycling Project - Phase IIA	Los Angeles	7.28	2.09	12.38	03/01/05
6	3813-030	Inland Empire Utilities Agency	Regional Recycled Water Distribution System Phase - 2	San Bernardino	30.75	4.00	16.38	05/01/05
7	3907-030	Olivenhain Municipal Water District	Northwest Quadrant Recycled Water Program	San Diego	3.74	1.08	17.45	05/01/05
8	3911-030	Santa Margarita Water District	RW Program Expansion Group 3 Facilities	Orange	7.06	2.03	19.48	06/01/05
9	3914-030	Otay Water District	Recycled Water 30-Inch Transmission Main, 450-1 Reservoir, and 680-1 Pump Station	San Diego	31.40	4.00	23.48	07/01/05
10	3916-030	City of San Diego	South Bay Water Reclamation Plant Piping, Storage and Pump Station	San Diego	3.50	1.01	24.49	11/25/03
11	3411-030	Las Virgenes Municipal Water District	Restoration of Native Flows in Malibu Creek - Decker Canyon Recycled Water Facilities	Los Angeles	6.34	1.82	26.32	05/21/05
12	3824-030	Elsinore Valley Municipal Water District*	Wildomar Recycled Water Project	Riverside	10.45	3.00	29.32	12/01/05
13	3912-030	City of San Diego	North City Reclamation System, Phase II - Black Mountain Ranch	San Diego	17.58	4.00	33.32	12/13/05
14	3822-030	Elsinore Valley Municipal Water District*	Canyon Hills Recycled Water Project	Riverside	1.84	0.53	33.85	04/01/06
15	3412-030	Central Basin Municipal Water District	Montebello Loop, Phase I	Los Angeles	11.00	3.16	37.01	10/08/07
					Total	37.01		

Complete Applications - Northern Group

Review Order	Project No.	Agency	Project Name	County	Estimated Eligible Project Cost (\$Million)	Estimated Grant & Allowance (\$Million)	Summation of Estimated Grants (\$Million)	Start Date
1	3508-030	CITY OF WILLOWS	CITY OF WILLOWS WASTEWATER TREATMENT PLANT IMPROVEMENTS	Glenn	1.00	0.29	0.29	03/30/05
2	3224-030	Santa Clara Valley Water District	South Santa Clara County Recycled Water Service Expansion	Santa Clara	7.74	2.23	2.51	04/25/05
3	3212-030	City of Palo Alto	Mountain View/Moffett Area Water Recycling Facility Project	Santa Clara	11.40	3.28	5.79	07/01/05
4	3223-030	City of San Jose	South Bay Water Recycling Zone 3 System Improvements	Santa Clara	15.00	4.00	9.79	07/01/05
5	3217-030	Delta Diablo Sanitation District	Pittsburg Golf Course and Urban Landscape Recycled Water Project	Contra Costa	3.07	0.88	10.67	01/10/06
6	3221-030	Napa Sanitation District	Stanley Ranch/South Los Carneros Recycled Water Pipeline	Napa	10.95	3.15	13.82	04/01/06
7	3222-030	Napa Sanitation District	Napa State Hospital Recycled Water Pipeline	Napa	15.10	4.00	17.82	09/01/05
8	3211-030	City of San Leandro	City of San Leandro Recycled Water Project	Alameda	2.94	0.84	18.66	01/01/06
9	3207-030	North Coast County Water District	Pacific Water Recycling Project	San Mateo	4.71	1.35	20.02	04/15/06
10	3206-030	City of American Canyon	American Canyon Recycled Water Program	Napa	8.42	2.42	22.44	12/18/06
					Total	22.44		

BOLD = projects that qualify as Disadvantaged Community

* Water Rights fees to be paid
Sorted by disadvantaged community, project type, construction start date.
Of the \$42 Million available, 40% will be distributed to the six listed counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura, 40% to the remaining counties and 20% to projects within any county.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
2946

Date: 03/17/2005

Applicant Name: Board of Water Commissioners of the City of Long Beach

Proj. #
3407-030

Cooperating Entities: Bureau of Reclamation

Project Title: Long Beach Recycled Water System Expansion Phase 2

Review Order: 1

Region: 4

Watershed: Los Angeles River

County: Los Angeles

Estimated Eligible Grant Amt: \$2,220,000

Estimated Total Project Cost: \$ 7,730,000

Proposed Amount of Recycled Water 960 (AF/YR)

Project Type: Local Distribution

Project Description:

The proposed Phase 2 project will construct facilities to serve potential recycled water customers in the southeastern portion of the Long Beach Water Department (LBWD) service area. Three main branches are included in the proposed Phase 2 project, branching out from existing recycled mains. LBWD estimates that a population of 37,086 will be served by these new facilities. The proposed 12- and 16-inch diameter pipelines total about 55,000 feet in length. Potential customer demand served by Phase 2, from the LBWD market survey in 2002, is projected to be about 960 acre-feet per year. Customers would include additional connections at CSULB, two large power generation plants operated by the Los Angeles Department of Water and Power and AES Southland Company, commercial laundries, and irrigation customers. The recycled water demand will offset demands of imported potable water from the Metropolitan Water District, ultimately reducing the water requirements from the State Water Project.

Current Potable Water Supply Sources (show percent distribution):

_____	State Water Supply
<u>49%</u>	Metropolitan Water District
<u>44%</u>	Local Water Supply
<u>7%</u>	Other (describe source): Existing Recycled Water Projects

Benefits to the Delta:

LBWD currently produces approximately 33,000 acre-feet (AF) of water from local groundwater and imports approximately 37,000 AF of water from MWD, which originates from Delta. The supply of local ground water remains the same every year at 33,000 AF, under water rights adjudicated to LBWD. The project will provide 960 AF of recycled to the customers who are currently served with potable water. After completion of the project this 960 AF will offset the MWD supply. Therefore, the project will decrease demand on MWD, ultimately decreasing the pumping rate from Delta.

Augmentation of the State Water Supply:

The project will augment the state water supply by revitalizing the recycled water otherwise discharged into ocean to offset the use of potable water. LBWD currently receives a high blend of State Water Project supplies through Metropolitan Water District (MWD), to meet nearly 50% of the potable demands. This project will require less water from MWD, ultimately contributing to reducing demand on the State Project water.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
3016

Date: 03/17/2005

Applicant Name: Board of Water Commissioners of the City of Long Beach

Proj. #
3408-030

Cooperating Bureau of Reclamation
Entities:

Project Title: Long Beach Recycled Water System Expansion Phase 3

Review
Order: 2

Region: 4

Watershed: Los Angeles
River

County: Los Angeles

Estimated Eligible
Grant Amt: \$1,020,000

Estimated Total
Project Cost: \$ 4,313,200

Proposed Amount
of Recycled Water 1,600
(AF/YR)

Project Type: Local Distribution

Project Description:

The Recycled Water System Expansion Phase 3 consists of miscellaneous pumping and storage facilities. The proposed Phase 3 facilities involve improvements to Long Beach Water Department's (LBWD) recycled water system to rehabilitate the pumping plant at the LBWRP through a redesign and expansion. The connection to the LBWD system is located along the waterfront near Redondo Avenue, and currently relies on only the El Dorado Pump Station for supply. Rehabilitation of the pumping plant would result in a significant increase to the available supply to existing and other new customers along the pipeline route by about 1,600 acre-feet per year. This is in addition to the current recycled water demand of 1,100 acre-feet per year.

Phase 3 projects also include the conversion of one additional existing 3.3 MG potable water storage tank at the Alamitos Reservoir Hill Storage Facility for recycled water storage use. This facility is located near the intersection of Redondo Avenue and Pacific Coast Highway. A new tank will also be constructed at the south-east corner of the existing Alamitos Tank Farm, where there is space reserved for the future tanks. The new tank to be constructed will be similar to the existing tanks at the tank farm. Along with this tank construction, LBWD plans to construct a booster pump station to pressurize supply to the western portion of the recycled water system. LBWD estimates that a population of 11,438 will be served by these new facilities.

Current Potable Water Supply Sources (show percent distribution):

<u> </u>	State Water Supply
<u>49%</u>	Metropolitan Water District
<u>44%</u>	Local Water Supply
<u>7%</u>	Other (describe source): Existing Recycled Water Projects

Benefits to the Delta:

LBWD currently produces approximately 33,000 acre-feet (AF) of water from local groundwater and imports approximately 37,000 AF of water from Metropolitan Water District (MWD), which originates from Delta. The supply of local ground water remains the same every year at 33,000 AF, under water rights adjudicated to LBWD. The project will increase the availability of recycled water supply along the pipeline route by about 1,600 acre-feet per year. This project also sets the stage for future Phase 4 expansion to the west side of Long Beach by providing additional pumping and storage capacity to meet the potential demands arising from Phase 4. Any new demand on the system will reduce the imported requirements from MWD, ultimately reducing the demand on the Delta.

Augmentation of the State Water Supply:

The project will augment the state water supply by revitalizing the recycled water otherwise discharged into ocean to offset the use of potable water. LBWD currently receives a high blend of State Water Project supplies through MWD, to meet nearly 50% of the potable demands. This project will require less water from MWD, ultimately contributing to reducing demand on the State Project water.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 3240 Date: March 17, 2005
Applicant Name: Eastern Municipal Water District (EMWD)

Proj. # 3821-030 Cooperating None
Entities:
Project Title: Reach 16 Recycled Water Pipeline and System Pressurization

Review Order: 4 Region: 8 Watershed: Santa Ana County: Riverside

Estimated Eligible Grant Amt: \$ <u>3,040,000</u>	Estimated Total Project Cost: \$ <u>12,116,881</u>
Proposed Amount of Recycled Water (AF/YR) <u>4435</u>	Project Type: <u>Regional Distribution</u>

Project Description:

The recycled water pressurization is a component of the District's core infrastructure for facilitating reclaimed water service within its 550 square miles of service area. The project constructed consists of the following elements:

1. System Pressurization Project: Consists of replacing pumps and electrical equipment, and installing new telemetry controls at three wastewater treatment plants (Moreno Valley, Perris Valley, and Sun City Regional Water Reclamation Facilities) and two regional storage impoundments (Winchester and Trumble Road Ponds). The Project will not increase rated plant capacity but will establish a regional pressure zone ensuring constant flow rate and pressure for existing and new customers,
2. Reach 16 Phase 1 Pipeline: Consists of 17,500 feet of 24-inch pipeline and appurtenances from the existing Reach 7 recycled water pipeline in the community of Winchester to the Landmark Golf Course in Hemet, and
3. Reach 16 Phase 2 Pipeline: Consists of the construction of 26,400 feet of 24-inch pipeline and appurtenances from the Landmark Golf Course in Hemet to the San Jacinto Regional Water Reclamation Facility.

Current Potable Water Supply Sources (show percent distribution):

 State Water Supply
80% Metropolitan Water District
30% Local Water Supply
 Other (describe source):

Benefits to the Delta:

EMUD is a member agency of the Metropolitan Water District of Southern California (Metropolitan). EMWD currently purchases 80% of its potable water supply from Metropolitan. Seventy-five percent EMWD imported water supply is delivered through the State Water Project with the balance from the Colorado River Aqueduct.

Augmentation of the State Water Supply:

The system pressurization and pipeline project will enable EMWD to serve recycled water to new municipal and industrial customers who would otherwise purchase potable water. Failure to complete this project will result in decreased water recycling in EMWD's service area as agricultural land use is replaced by residential and commercial land use. Increased water recycling improves local water supply reliability and reduces demand on imported water supply.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
2434

Date: March 17, 2005

Applicant Name: Upper San Gabriel Valley Municipal Water District

Proj.
3414-030

Cooperating Entities: San Gabriel Valley Water Company

Project Title: San Gabriel Valley Water Recycling Project - Phase IIA

Review
Order: 5

Region: 4

Watershed: Los Angeles River/San Gabriel County: Los Angeles

Estimated Eligible
Grant Amt: \$2,090,000

Estimated Total
Project Cost: \$9,000,000

Proposed Amount
of Recycled Water 2500
(AF/YR)

Project Type: Local Distribution

Project Description:

This project will expand the Upper San Gabriel Valley Municipal Water District (USGVMWD) recycled water system to serve several potential recycled water customers in the South El Monte area. The most significant customer is the Whittier Narrows Recreation Area and Whittier Narrows Golf Course located in an unincorporated territory of Los Angeles County adjacent to South El Monte. This recycled water system will serve the irrigation needs of the Whittier Narrows Recreation Area, the Whittier Narrows Golf Course, an adjacent nursery, a local high school, and some agricultural grounds in the area. The project will supply approximately 2,500 acre feet annually with recycled water from the County Sanitation Districts of Los Angeles County Whittier Narrows Water Reclamation Plant located on the Whittier Narrows grounds. The facilities for the project include a pump station, modification to the Whittier Narrows Water Reclamation Plant and approximately 18,000 linear feet of pipeline.

Current Potable Water Supply Sources (show percent distribution):

_____ State Water Supply
100% Metropolitan Water District
_____ Local Water Supply
_____ Other (describe source):

Benefits to the Delta:

The groundwater from which the majority of potable water in the San Gabriel Valley is extracted is supplemented by water imported by MWD. In 2003, 97,419 acre-feet of water was imported in the basin. The San Gabriel Valley Recycled Water Project will conserve as much as 2,500 acre-feet annually by replacing potable water used for irrigation with recycled water obtained from the Whittier Narrows Water Reclamation Plant.

Augmentation of the State Water Supply:

See above for description.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # <u>1830</u>	Applicant Name: <u>Inland Empire Utilities Agency (IEUA)</u>	Date: <u>March 17, 2005</u>
Project # <u>3813-030</u>	Cooperating Entities: <u>None Listed</u>	
Review Order: 6	Project Title: <u>Regional Recycled Water Distribution System Phase - 2</u>	
	Region: <u>8</u>	Watershed: <u>Santa Ana</u> County: <u>San Bernardino</u>
	Estimated Eligible Grant Amt: \$ <u>4,000,000</u>	Estimated Total Project Cost: \$ <u>30,750,000</u>
	Proposed Amount of Recycled Water (AF/YR) <u>16,290</u>	Project Type: <u>Regional Distribution</u>

Project Description:

The proposed project includes 7 sub-projects. All sub-projects are to design and construct facilities for the conveyance of the recycled water to customers and groundwater recharge basins. Projects 1 and 6 include the initial storage reservoirs & additional distribution pumping stations to ensure reliable delivery of recycled water to customers. Project 2, 4 and 5 are recycled water pipelines. Project 3 and 7 are both recycled water distribution pumping stations that will pressurize the pipelines to facilitate the consistent delivery of recycled water. These sub-projects are major components of IEUA's comprehensive Regional Recycled Water Distribution Program as described in the IEUA Recycled Water System Feasibility Study dated January 2002. Each of the pipelines is sized to meet both recycled water delivery demands along the pipeline alignment and to deliver recycled water to groundwater recharge basins, typically located near the terminus of the pipelines.

Current Potable Water Supply Sources (show percent distribution):

 State Water Supply
30% Metropolitan Water District
70% Local Water Supply
 Other (describe source):

Benefits to the Delta:

The Project is consistent with the CALFED Bay-Delta Program and the Colorado River 4.4 QSA Plan to increase water recycling and water use efficiency within Southern California by more than one million acre-feet per year. Locally, as cited in Section 3.2 of the IEUA 2000 Urban Water Management Plan, the implementation of the IEUA Regional Recycled Water Program will reduce the demand for imported water by 70,000 AFY; which will be a gallon-for-gallon reduction in the demand for State Water Project deliveries from the delta.

Augmentation of the State Water Supply:

The IEUA Regional Recycled Water Distribution System will allow the utilization of recycled water for both direct delivery to irrigation and industrial customers, serving in excess of 45,000 AFY and replacing imported water for groundwater replenishment (25,000 AF). IEUA's implementation of the recycled water program is expected to offset increasing demands. Prior to Recycling treated effluent was being discharged to the Santa Ana River. The Santa Ana River subsequently flows toward the Pacific Ocean.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 3376 Date: March 17, 2005
Applicant Name: Olivenhain Municipal Water District

Project # 3907-030 Cooperating Entities: None Listed
Project Title: Northwest Quadrant Recycled Water Program

Review Order: 7 Region: 9 Watershed: HSA 4.51 County: San Diego

Estimated Eligible Grant Amt: \$ <u>1,080,000</u>	Estimated Total Project Cost: \$ <u>3,740,000</u>
Proposed Amount of Recycled Water (AF/YR) <u>1,500</u>	Project Type: (treatment, distribution) <u>Regional Distribution</u>

Project Description:

The project consists of the construction of approximately 15,500 feet of 8- and 12-inch recycled water pipelines and several pressure reducing stations to be installed within existing streets. These pipelines will connect to existing recycled water pipelines within the Northwest Quadrant of Olivenhain Municipal Water District's (OMWD) service area and provide service to both existing and future customers. The proposed facilities will allow OMWD to distribute recycled water from the Vallecitos Water District's (VWD) Mahr Reservoir for irrigation of parks, schools, greenbelts and golf courses. The project will help offset the growing demand for potable water imported from the San Joaquin/Sacramento Bay Delta and the Colorado River. In addition, it will help curtail the discharge of treated effluent into the ocean thereby creating an additional environmental benefit.

Current Potable Water Supply Sources (show percent distribution):

 State Water Supply
100% Metropolitan Water District
 Local Water Supply
 Other (describe source):

Benefits to the Delta:

The District purchases 100% of its water supply from the San Diego County Water Authority (SDCWA). The SDCWA in turn purchases its water from the Metropolitan Water District of Southern California (MWD). MWD imports its water from two sources, one being the Sacramento-San Joaquin Delta in northern California. By reducing the need to purchase potable water to service irrigation customers, the District reduces the amount of water required to be pumped from the Delta.

Augmentation of the State Water Supply:

The District is currently experiencing record growth. The use of recycled water for irrigation to parks, schools, and greenbelts in the Northwest Quadrant would help offset OMWD's increasing demand for potable water. VWD currently processes the majority of its wastewater at the Encina Water Pollution Control Facility and discharges the secondary treated effluent through an outfall one-half of a mile off of the coast. Approximately 2 million gallons per day (MGD) is presently being treated at the VWD's Meadowlark Reclamation Facility and sold to the Carlsbad Municipal Water District. A 5 MGD expansion of the Meadowlark facility is currently in design and anticipated to start construction in mid 2005. Expansion of the treatment facility will allow the diversion of an additional 3 MGD from ocean discharge to irrigation water supply.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 2406 Date: 3-17-05
Applicant Name: SANTA MARGARITA WATER DISTRICT

Proj. # 3911-030 Cooperating Entities: NA
Project Title: RECYCLED WATER PROGRAM EXPANSION – GROUP 3 FACILITIES

Review Order: 8 Region: 9 Watershed: San Juan – Scgunda Deshecha County: ORANGE

Estimated Eligible Grant Amt: \$ 2,030,000

Estimated Total Project Cost: \$ 8,557,430

Proposed Amount of Recycled Water (AF/YR) 915

Project Type: Regional Distribution

Project Description:

This project is for the third and last group of recycled water facilities in the Santa Margarita Water District Recycled Water Program Expansion Project. Groups 1, 2, and 3 comprise a continuous recycled water project with a construction period spanning approximately six years. The Group 3 facilities include various recycled water distribution pipelines, two pump stations and two reservoirs that will serve approximately 115 new, conversion or retrofit irrigation sites with 915 acre-feet per year of recycled water in planned portions of five developing communities.

Current Potable Water Supply Sources (show percent distribution):

 State Water Supply
100 % Metropolitan Water District
 Local Water Supply
 Other (describe source):

Benefits to the Delta:

Without the Group 3 project, irrigation sites in new planned community areas within SMWD boundaries would otherwise be served with domestic water imported from the Sacramento Delta or the Colorado River. Numerous existing irrigation sites in older communities currently using domestic water from these sources are to be converted or retrofitted to recycled water use under the Group 3 project that will further reduce demands on the Delta.

Augmentation of the State Water Supply:

By producing recycled water meeting State Title 22 requirements from secondary treated effluent currently discharged to the ocean and then applying the recycled water at new and existing landscape areas, the Group 3 project will directly augment the State Water Supply.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 2008 Date: 3/17/05
Applicant Name: OTAY WATER DISTRICT

Proj. # 3914-030 Cooperating Entities: City of San Diego

Project Title: Recycled Water 30-Inch Transmission Main, 450-1 Reservoir and 680-1 Pump Station

Review Order: 9 Region: 9 Watershed: Otay County: San Diego

Estimated Eligible Grant Amt: \$ 4,000,000 Estimated Total Project Cost: \$ 36,200,000

Proposed Amount of Recycled Water (AF/YR) 7987 AF/YR Project Type: Regional Distribution

Project Description:

The Otay Water District's (WD) Recycled Water 30-Inch Transmission Main, 450-1 Reservoir and 680-1 Pump Station calls for the construction for a recycled water system supply link between the City of San Diego's South Bay Water Reclamation Plan (SBWRP) and the existing Otay WD water transmission system.

The Otay WD currently owns and operates the Ralph W. Chapman Water Recycling Facility (RWCWRF). The RWCWRF is rated at 1.3 mgd capacity. The RWCWRF is presently the only available source of recycled water to meet demands of the recycled water service areas and the existing recycled water demand currently exceeds supply from the RWCWRF. The current supply shortfall is met by supplementing the recycled water system with potable water from the Otay WD's existing potable water storage. The recycled water system will continue to be supplemented with potable water until the source of supply from the SBWRP is available and the transmission, storage and pump station systems necessary to receive the SBWRP recycled water are in operation. The SBWRP has a rated capacity of 15 mgd, of which 10 mgd per day is available for sale.

The project's proposed facilities include the following: (1) a 30-inch transmission main from the SBWRP to the reservoir; (2) a 12 million gallon reservoir; (3) 11,500 gallon per minute (gpm) pump station; and (4) a 30-inch discharge pipe line from the pump station to the Otay WD's existing water transmission system.

Current Potable Water Supply Sources (show percent distribution):

 State Water Supply
100% Metropolitan Water District
 Local Water Supply
 Other (describe source):

The Otay WD joined the San Diego County Water Authority as a member agency in 1956 to acquire the right to purchase and distribute imported water throughout its service area. The San Diego County Water Authority currently obtains its imported water from the Metropolitan Water District (MWD) of Southern California. The MWD obtains its imported water from a variety of sources including the State Water Project and the Colorado River.

Benefits to the Delta:

The project will decrease the average pumping rates from the Delta by reducing the demand for Delta water provided by MWD. While the exact mix of MWD supply sources is variable, it is reasonable to estimate that half of the total project water would offset demands that would otherwise be made by MWD on the delta, or, approximately 3,994 acre-feet per year. Currently the recycled water supply shortfall is met by supplementing the recycled water with potable water. The construction of this project will provide enough recycled water to meet current and future demands and therefore reduce the demand for potable water from the delta.

Augmentation of the State Water Supply:

As previously noted, for every acre-foot of water that is developed by Otay WD's recycled water system, about one half acre-foot of demand is avoided on the State Water Project supply. The project also augments the State Water Supply by reducing the amount of recycled water discharged to the Pacific Ocean and using it for irrigation. The development of local projects is a key element of MWD's Integrated Resources Plan and Urban Water Management Plan, and of SDCWA's Regional Water Facilities Master Plan and Urban Water Management Plan, each of which stresses the need for new local supply projects to reduce the need for imported water, and, in particular, to reduce demands on the State Water Project.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
2556

Date: 03/17/05

Applicant Name: City of San Diego

Proj. #
3916-030

Cooperating Entities: None

Project Title: South Bay Water Reclamation Plant Piping, Storage and Pump Station

Review Order: 10

Region: 9

Watershed: _____

County: San Diego

Estimated Eligible Grant Amt: \$1,010,000

Estimated Total Project Cost: \$3,500,000

Proposed Amount of Recycled Water 840 (AF/YR)

Project Type: Local Distribution

Project

The South Bay Reclamation Plant (SBWRP) Piping, Storage and Pump Station will serve the Tijuana River Valley and San Ysidro community areas, and future customers in the City's southern service areas. The construction of two components, together, will provide recycled water to the International Boundary and Water Commission (IBWC) plant, located east of the SBWRP, and for future users in the vicinity. The two components are:

Discharge Piping, Storage Tank and Pumping Station

The discharge piping, storage tank and pumping station will be located at the SBWRP. An 8-inch tap will be made on the existing 30-inch recycled water pipeline north of the existing pump house. An 8-inch pipeline will be constructed from the tap to the storage tank, which will have a capacity of 750,000 gallons. The pump station, consisting of three variable speed pumps each with a capacity of 600 gallons per minute, and its associated piping, will pump the recycled water into the 10-inch pipeline to the IBWC plant.

IBWC Pipeline

An 8-inch pipeline from the SBWRP to the IBWC plant will be constructed. The new 8-inch diameter line will start at the end of the storage tank's 10-inch discharge line and terminate at IBWC's wet well. The approximate length is 3,300 feet. Additionally, a dual 4-inch turbine recycled water meter will be installed near the SBWRP entrance. Lastly, an insertion multi-mag meter will be installed at the end of an existing 30-inch diameter pipe along Dairy Mart Road for a future Otoy Water District connection.

Once these improvements are in place, the IBWC water plant will be able to use 750,000 gallons per day of reclaimed water. This will help reduce San Diego's dependence on imported water supplies.

Current Potable Water Supply Sources (show percent distribution):

32 State Water Supply
0 Metropolitan Water District
10 Local Water Supply
58 Other (describe source): Colorado River

Benefits to the Delta:

The City Of San Diego currently imports approximately 90% percent of its water. Therefore water produced through reclamation efforts will allow San Diego to ultimately lessen our high dependence upon imported water from the State. Water reclamation will also allow San Diego to meet future demands and avoid water shortages.

Augmentation of the State Water Supply:

The City Of San Diego currently imports approximately 32% percent of its water from the State Water Supply. Therefore water produced through reclamation efforts will allow San Diego to ultimately lessen our high dependence upon imported water from the State. Water reclamation will also allow San Diego to meet future demands and avoid water shortages.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
3040

Date: March 17, 2005

Applicant Name: Las Virgenes Municipal Water District

Proj.
3411-030

Cooperating Entities: Santa Monica Bay Commission and Malibu Country Club Golf Course

Project Title: Restoration of Native Flows in Malibu Creek - Decker Canyon Recycled Water Facilities

Review
Order: 11

Region: 4

Watershed: Malibu Creek

County: Los Angeles

Estimated Eligible
Grant Amt: \$1,820,000

Estimated Total
Project Cost: \$7,950,000

Proposed Amount 284
of Recycled Water
(AF/YR)

Project Type: Local Distribution

Project Description:

The Las Virgenes MWD (LVMWD) proposed project plans to extend an existing recycled water supply line in the City of Westlake Village about 23,000 feet, allowing for the conversion of a large public golf course from potable water to recycled water. In addition, this project will require a 200 HP high lift pump station and a 400,000 gallon storage tank will be constructed to allow for water storage and transportation on the golf course facilities. Replacement of Bay Delta SWP potable water at the golf course will reduce the demand on the drinking water supply by an estimated 284 AFY, as well as reduce the discharge into Malibu Creek from the Tapia Water Treatment Plant. Beach closure happen when Malibu Lagoon breeches and causes the water, containing urban runoff, bird waste, and waste from nearby septic tanks, to spill onto the beach. To help remediate this problem, projects such as this one are necessary to reduce the excess creek flow that fill and breech the lagoon.

Current Potable Water Supply Sources (show percent distribution):

_____ State Water Supply
100% Metropolitan Water District
_____ Local Water Supply
_____ Other (describe source):

Benefits to the Delta:

The project will decrease the average pumping rates from the Delta by reducing the demand for Delta water provided by MWD. While the exact mix of MWD supply sources is variable, it is reasonable to estimate that the total project water would offset demands that would otherwise be made by MWD on the delta, or, approximately 284 acre-feet per year.

Augmentation of the State Water Supply:

This project will eliminate the use of approximately 284 AF of potable water that is provided to the Las Virgenes MWD from the State Water Project(SWP) and San Francisco Bay Delta, by replacing its current use with treated wastewater produced by the Tapia Water Reclamation Facility. This replacement represents elimination of the potable water demand from the largest user of potable water within the service area. In addition, if not sold for reuse, this recycled water will be discharged to Malibu Creek, which flows into the Santa Monica Bay.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 3230 Date: March 17, 2005
Applicant Name: Elsinore Valley Municipal Water District

Proj. # 3824-030 Cooperating None
Entities: _____
Project Title: Elsinore Valley Municipal Water District (EVMWD) Wildomar Recycled Water Project

Review Order: 12 Region: 7 Watershed: Santa Ana County: Riverside

Estimated Eligible Grant Amt:	\$ <u>3,000,000</u>	Estimated Total Project Cost: \$	<u>16,200,000</u>
Proposed Amount of Recycled Water (AF/YR)	<u>1,062</u>	Project Type:	<u>Regional Distribution</u>

Project Description:

The proposed project is intended to deliver 1,062 AFY of recycled water to serve the District's Wildomar area. The project entails the construction of pipelines, pump stations, and reservoirs for the distribution of recycled water provided by Eastern Municipal Water District's Temecula Valley Regional Water Reclamation Facility effluent disposal pipeline.

Current Potable Water Supply Sources (show percent distribution):

 State Water Supply
50% Metropolitan Water District
50% Local Water Supply
 Other (describe source):

Benefits to the Delta:

EVMWD is a member agency of the Metropolitan Water District of Southern California (Metropolitan). EVMWD currently purchases 50% of its potable water supply from Metropolitan. Seventy-five percent EVMWD imported water supply is delivered through the State Water Project with the balance from the Colorado River Aqueduct.

Augmentation of the State Water Supply:

EVMWD Wildomar Recycled Water project is intended to deliver recycled water 1,062 AFY to 30 use sites that includes schools, homeowners' associations, parks, a cemetery, a nursery, a church, and a stadium. With the proposed project, these demands can be met with recycled water, offsetting a demand for imported water supplies and reducing water pumping from the Delta.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #

2656

Date: 03/17/05

Applicant Name: City of San Diego

Proj. #

3912-030

Cooperating Entities: None

Project Title: North City Reclamation System – Phase II Black Mountain Ranch

Review Order: 13

Region: 9

Watershed: _____

County: San Diego

Estimated Eligible Grant Amt: \$4,000,000

Estimated Total Project Cost: \$17,580,000

Proposed Amount of Recycled Water (AF/YR) 1000

Project Type: Local Distribution

Project Description:

In December of 2000, the City of San Diego developed the Water Reclamation Master Plan which evaluated area demands for reclaimed water and established the basis for planning of capital improvements. The Master Plan identified specific infrastructure needed for distribution of reclaimed water from the City’s North City Water Reclamation Plant. The distribution network was planned to transmit water to rapidly growing areas to the north, in three phases/service areas: Black Mountain Ranch/Olivenhain Municipal Water District, State Route 56 (SR-56) and Carmel Valley, and Interstate-15/Rancho Bernardo. The Phase 1 facilities are currently under final design or construction.

The Phase 2 (SR-56/Carmel Valley) network includes approximately 4 miles of 24-inch diameter 640 Zone transmission pipeline, a 640/500 Zone pressure reducing station, approximately 4 miles of 12 to 16-inch 500 Zone backbone transmission pipeline, several branched smaller diameter transmission pipelines, and approximately 1 1/2 miles of 12- inch pipeline along Camino Ruiz. The pressure reducing station will establish a reduced 500 Zone along the western end of Carmel Valley. The system will serve a wide range of areas and topography. Overall, the Phase 2 facilities will increase recycled water use by over 1,000 acre-feet per year.

Portions of Phase 2 (SR-56/Carmel Valley) are being constructed under cooperative agreements with developers and with other public agencies (Caltrans). The remaining Phase 2 projects are planned for construction by the City: Carmel Valley West Reclaimed Pipelines, and Los Penasquitos Reclaimed Pipelines. The Carmel Valley West Reclaimed Pipelines project includes a pressure reducing station and over 5 miles of pipelines ranging in size from 8-inches to 16-inches in diameter. The Los Penasquitos Reclaimed Pipelines project will construct over 2 1/2 miles of 24-inch diameter pipeline westward from the Canyonside Pump Station, and will provide a vital extension of the reclamation system to areas west of Interstate 15. The Phase 2 facilities are an integral part of the City’s reclaimed distribution network. Once in operation, the North City Reclamation System will reduce the City’s dependence on imported State Project Water, thereby easing the demands on the existing potable water infrastructure.

Current Potable Water Supply Sources (show percent distribution):

<u>32</u>	State Water Supply
<u>0</u>	Metropolitan Water District
<u>10</u>	Local Water Supply
<u>58</u>	Other (describe source): Colorado River

Benefits to the Delta:

The City Of San Diego currently imports approximately 90% percent of its water. Therefore water produced through reclamation efforts will allow San Diego to ultimately lessen our high dependence upon imported water from the State. Water reclamation will also allow San Diego to meet future demands and avoid water shortages.

Augmentation of the State Water Supply:

The City Of San Diego currently imports approximately 32% percent of its water from the State Water Supply. Therefore water produced through reclamation efforts will allow San Diego to ultimately lessen our high dependence upon imported water from the State. Water reclamation will also allow San Diego to meet future demands and avoid water shortages.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
2944

Date: March 17, 2005

Applicant Name: Elsinore Valley Municipal Water District

Proj. # Cooperating None
3822-030 Entities:

Project Title: Elsinore Valley Municipal Water District (EVMWD) Canyon Hills Recycled Water Project

Review Region: 7 Watershed: Santa Ana County: Riverside
Order: 14

Estimated Eligible
Grant Amt: \$ 530,000

Estimated Total
Project Cost: \$ 2,907,690

Proposed Amount
of Recycled Water 614
(AF/YR)

Project Type: Regional Distribution

Project Description:

The proposed project is intended to deliver 614 AFY of recycled water to serve the District's Canyon Hills area. The project entails the construction of pipelines, pump stations, and reservoirs for the distribution of recycled water provided by Eastern Municipal Water District's Temecula Valley Regional Water Reclamation Facility effluent disposal pipeline.

Current Potable Water Supply Sources (show percent distribution):

 State Water Supply
50% Metropolitan Water District
50% Local Water Supply
 Other (describe source):

Benefits to the Delta:

EVMWD is a member agency of the Metropolitan Water District of Southern California (Metropolitan). EVMWD currently purchases 50% of its potable water supply from Metropolitan. Seventy-five percent EVMWD imported water supply is delivered through the State Water Project with the balance from the Colorado River Aqueduct.

Augmentation of the State Water Supply:

EVMWD Canyon Hills Recycled Water project is intended to deliver recycled water 614 AFY to irrigate 5.46 acres of parkways and medians, 98.38 acres of slopes, 28.65 acres of parks, and two school sites. With the proposed project, these demands can be met with recycled water, offsetting a demand for imported water supplies and reducing water pumping from the Delta.

Southern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
3040

Date: March 17, 2005

Applicant Name: Central Basin Municipal Water District (CBMWD)

Proj.
3412-030

Cooperating Entities: None

Project Title: Montebello Loop, Phase I

Review
Order: 15

Region: 4

Watershed: Los Angeles River/San Gabriel

County: Los Angeles

Estimated Eligible
Grant Amt: \$3,160,000

Estimated Total
Project Cost: \$15,230,000

Proposed Amount
of Recycled Water 800
(AF/YR)

Project Type: Local Distribution

Project Description:

The CBMWD Montebello Loop Phase I project is the first leg of a planned "loop" of the existing recycled water distribution system that will provide pressure and capacity benefits both to the existing system and a new customer base within CBMWD's service area. The proposed project will serve over 29 sites, including one anchor customer at the terminal end of the pipeline, with a potential for 800 acre-feet consumption. The project includes approximately 24,000 linear feet of 30-inch pipeline and a pump station. Because the proposed project is the first leg of the larger loop project, the pipeline must be sized adequately for the total projected customer base of 5,600 AFY.

Current Potable Water Supply Sources (show percent distribution):

_____ State Water Supply
100% Metropolitan Water District
_____ Local Water Supply
_____ Other (describe source):

Benefits to the Delta:

The expansion of the distribution system will greatly encourage users that currently use higher priced imported water, to take advantage of using recycled water for non-potable purposes, including landscape irrigation, commercial, and industrial use. As a result, the proposed project will replace an additional 800 AF of imported water use in Southern California, eliminating the need for an equivalent quantity of supply to come from CBMWD's entitlement to the State Water Supply to meet future demands.

Augmentation of the State Water Supply:

Recycled water produced by CBMWD is clearly an augmentation in the overall water supply of the State because imported potable water replaced by recycled water will serve other potable applications. The City of Montebello currently uses 1,300 acre-feet per year of non-interruptible potable water and 380 acre-feet per year of groundwater. Because imported is the City's highest cost supply and recycled water is offered at a substantial discount, all projected recycled water sales within the City will replace imported water.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 2896 Date: 03/17/05
Applicant Name: City of Willows

Proj.# 3508-030 Cooperating Entities: Glenn-Colusa Irrigation District
Project Title: City of Willows Wastewater Treatment Plant Improvements

Review Order: 1 Region: 5 Watershed: Sacramento River County: Glenn

Estimated Eligible Grant Amt: <u>\$290,000</u>	Estimated Total Project Cost: <u>\$7,000,000</u>
Proposed Amount of Recycled Water (AF/YR) <u>1120</u>	Project Type: <u>Local Distribution</u>

Project Description:

The City of Willows WWTP will be upgraded and expanded in 2005/06 to meet state regulatory requirements, resulting in discharge of Title 22 tertiary recycled water. The treatment process will include grit removal, extended aeration, solids removal, filtration, chlorination, and dechlorination. The Title 22 compliant effluent will be delivered to the Glenn-Colusa Irrigation District (GCID) for unrestricted reuse to supplement agricultural and Sacramento National Wildlife Refuge water demands. The project is expected to deliver GCID with a year round supply of recycled water, offsetting waters otherwise taken from the Sacramento River and the Delta. Initial deliveries will be 1,120 ac-ft./yr. increasing to 1,280 ac-ft./yr. in five years.

Current Potable Water Supply Sources (show percent distribution):

_____ State Water Supply
_____ Metropolitan Water District
100% Local Water Supply
_____ Other (describe source):

Benefits to the Delta:

Reusing the plant effluent will offset waters otherwise pumped from the Sacramento River by Glenn-Colusa Irrigation District (GCID) for agriculture and Sacramento National Wildlife Refuge (SNWR) water supply. Less water will be pumped from the Sacramento River for these purposes, effectively increasing river water flow to the Delta.

Augmentation of the State Water Supply:

The project will provide an increase in State Water Supply by replacing Sacramento River water now used for irrigation and wildlife refuge demands with WWTP effluent. The State Water Supply will increase by 1,120 ac-ft./yr. in the first year of operation, and by 1,280 ac-ft./yr. in the fifth year.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
3120

Date: 3/17/05

Applicant Name: Santa Clara Valley Water District

Proj. #
3224-030

Cooperating Entities: City of Gilroy, City of Morgan Hill, South County Regional Wastewater Authority

Project Title: South Santa Clara County Recycled Water Service Expansion – Immediate Term Project

Review
Order: 2

Region: 3

Watershed: Pajaro River

County: Santa Clara

Estimated Eligible
Grant Amt: \$ 2,230,000

Estimated Total
Project Cost: \$ 8,950,000

Proposed Amount
of Recycled Water
(AF/YR) 1500

Project Type: Regional Distribution

Project Description:

The Santa Clara Valley Water District (SCVWD) and the South County Regional Wastewater Authority (SCRWA) entered a Producer-Wholesaler Agreement in 1999 to develop a cost-effective water-recycling program in South Santa Clara County and provide for future expansions of the treatment plant and delivery system. Under this agreement, SCVWD serves as the wholesaler, and SCRWA serves as the producer. In addition, SCVWD entered a recycled water Wholesaler-Retailer Agreement with the City of Gilroy and the City of Morgan Hill that both cities would serve as the recycled water retailers. In 2004, SCVWD and SCRWA completed the South County Recycled Water Master Plan (Master Plan) which resulted with a recommendation of three capital improvement programs – Immediate-term, short-term, and long-term programs. All together, this recycled water system will serve nineteen new customers with an estimated annual recycled water usage of 3,149 acre-feet per year (afy), more than quadruple the existing customers’ recycled water use of 619afy.

This proposed project includes the immediate-term component of the entire recycled water expansion program. The project located within Santa Clara County is to construct 3,000 feet of pipelines to serve a large local farmer who requested recycled water for his farmlands. The proposed project will also construct a 3-mgd pump station, a 3-MG storage reservoir and expand the existing 3-mgd tertiary filtration system to 9mgd. Upon completion of these facilities, the system will be able to meet the new demand from the nearby Calpine power plant, which requested an additional 1mgd of recycled water. These new facilities will also enable recycled water delivery to the city-owned golf course that currently is being redesigned to accept recycled water. Together these facilities are expected to deliver an additional 900 acre-feet per year of recycled water. Additionally, the Gilroy Sports Park, which will soon start construction, will be able to receive recycled water. Besides meeting the immediate demands, these are necessary foundational infrastructures for the next phases of the water recycling expansion program.

Current Potable Water Supply Sources (show percent distribution):

- 40% State Water Supply
- Metropolitan Water District
- 32% Local Water Supply
- 28% Other (Hetch-Hetchy from SFPUC and Transfers, 2% recycled water)

Benefits to the Delta:

The Santa Clara Valley Water District (SCVWD) imports water to Santa Clara County from the Sacramento-San Joaquin Delta. The SCVWD has a contract for 100,000 acre-feet per year from the State Water Project (SWP). The SCVWD also has a contract with Central Valley Project (CVP) to supply 152,500 acre-feet per year, of which 130,000 acre-feet is for municipal and industrial (M&I) needs and 22,500 acre-feet is for agricultural needs. Imported water is conveyed to Santa Clara County through two main pipelines: the South Bay Aqueduct, which carries water from the SWP, and the Santa Clara Conduit and Pacheco Conduit, which brings water from the CVP. SCVWD plans that all the increase in recycled water uses with the implementation of this project will translate directly into a reduced demand from the Bay-Delta. Every acre-ft of recycled water beneficially used in the SCVWD service area will translate into an equivalent decrease in volume from the Delta.

Northern

Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Augmentation of the State Water Supply:

Currently, unused treated wastewater from SCRWA treatment facilities is wasted by disposal to its 200 acre of evaporation ponds. This precious local source of water supply will be reused to augment the State Water Supply through recycling. All recycled water resulting from the implementation of this project will become a new source of water supply that directly contributes to the State water-recycling goal of 1,000,000 acre-feet per year by 2010 set by the Water Code.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 3136 Date: March 17, 2005
Applicant Name: City of Palo Alto

Project # 3212-030 Cooperating Entities: City of Mountain View
Project Title: Mountain View/Moffett Area Water Recycling Facility Project

Review Order: 3 Region: 2 Watershed: Santa Clara Valley County: Santa Clara

Estimated Eligible Grant Amt: \$ 3,280,000 Estimated Total Project Cost: \$ 11,400,000

Proposed Amount of Recycled Water (AF/YR) 1826 Project Type: Regional Distribution

Project Description:

The City proposes to construct a recycled water transmission pipeline to expand recycled water service into the City of Mountain View from the Palo Alto Regional Water Quality Control Plant. This project will serve as the backbone for a larger, regionally connected recycled water system. The system will offset 1,860 acre-feet/year of imported water during its initial phase.

Current Potable Water Supply Sources (show percent distribution):

- 5% - 95% State Water Supply – portion during dry years
- 0% Metropolitan Water District
- 5% Local Water Supply
- 5% -95% Other (describe source): SFPUC Hetch Hetchy Water – also makes up a significant portion of supply during normal and wet years, supply reliability is questionable.

Benefits to the Delta:

Benefits to the Delta are based on the projected demand patterns and system configuration, the project will provide a significant offset to the import of Delta water during the initial phase of this project. That offset of Delta supply will increase in the future as this regional system grows to serve a larger portion of the City of Mountain View and the City of Los Altos, which gets the predominance of its water supply from the Santa Clara Valley Water District.

Augmentation of the State Water Supply:

The Project augments the State Water supply by capturing for reuse water which was previously discharged to the San Francisco Bay.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
3398

Date: March 17, 2005

Applicant Name: City of San Jose

Proj. #
3223-030

Cooperating Entities: none

Project Title: South Bay Water Recycling Zone 3 System Improvements

Review
Order: 4

Region: 2

Watershed: Coyote,
Guadalupe & West
Valle

County: Santa Clara

Estimated Eligible
Grant Amt: \$4,000,000

Estimated Total
Project Cost: \$22,800,000

Proposed Amount
of Recycled Water 850
(AF/YR)

Project Type: Local Distribution

Project Description:

The proposed project is to construct two 2.75 million gallon pre-stressed concrete reservoirs on the north side of Old Buena Road and at the south corner of the Legacy Property, formerly known as the Syntex site; 3,400 feet of 24-inch mortar lined welded steel pipeline with an alignment parallel to Old Buena Road connecting the reservoirs to the existing system on Yerba Buena Road; and other associated improvements to the existing water recycling distribution system.

Current Potable Water Supply Sources (show percent distribution):

25% State Water Supply
N/A Metropolitan Water District
25% Local Water Supply
50% Other (describe source): 20% from Federal Imports (Central Valley Project)
and 30% from Regional Imports (San Francisco Public Utilities Commission)

Benefits to the Delta:

The Project provides direct benefits to the Delta, as the additional yield of recycled water will directly offset the demand for imported supply. A portion of the increased yield will replace potable water demand from existing irrigation users, and a portion will be allocated to new users that would employ potable water in the absence of a recycled water alternative. By providing an alternative source of water for both sets of users, the Project offers a net decrease in average pumping rates from the Delta.

Reductions in average pumping rates from the Delta will augment both the State Water Supply and the Federal Central Valley Project (CVP):

- **State Water Supply** is imported via the South Bay Aqueduct. Users receive deliveries of the water through the Santa Clara Valley Water District (SCVWD).
- **CVP** water is imported via the Pacheco Conduit and the Santa Clara Conduit and used to augment the groundwater basin through groundwater recharge ponds. Users then withdraw this water through pumping.

In addition to the direct near-term and long-term benefits, the project is an important element in the Bay Area Regional Water Recycling Program, facilitating the connection of recycled water systems in Santa Clara County by increasing the reliability of the South Bay Water Recycling system.

Augmentation of the State Water Supply:

The Project will augment the State Water Supply in two ways:

- **Direct Connection** via Santa Clara Valley Water District (SCVWD) – South Bay Aqueduct.
- **Connection via San Francisco Public Utilities Commission (SFPUC) system** when South Bay Aqueduct water is blended into the system for source balancing. Although the Delta water and Hetch Hetchy water have historically been independent systems, an intertie between the SFPUC Bay Division Pipelines and the SCVWD - South Bay Aqueduct was constructed in 2002 to improve supply reliability and source balancing.

Specifically, the State Water Supply will be augmented by:

- **Reducing the Potable Water Use in the Service Area**
The state water supply will be augmented through the reduction in SCVWD and SFPUC water used in the service area.
- **Contributing to the SCVWD Reaching its Recycled Water Goals**

The SCVWD is also dedicated to reducing dependence on the State Water Supply and in pursuit of that goal, the SCVWD is attempting to have recycled water use comprise 5% of total water use in Santa Clara County by 2010 and 10% of total use by 2020. This project further aids SCVWD in reaching this goal.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 2764 Date: March 17, 2005
Applicant Name: Delta Diablo Sanitation District

Project # 3217-030 Cooperating Entities: City of Pittsburg
Project Title: Pittsburg Golf Course and Urban Landscape Recycled Water Project

Review Order: 5 Region: 2 Watershed: Kirker Creek County: Contra Costa

Estimated Eligible Grant Amt: \$ <u>880,000</u>	Estimated Total Project Cost: \$ <u>3,070,000</u>
Proposed Amount of Recycled Water (AF/YR) <u>615</u>	Project Type: <u>Regional Distribution</u>

Project Description:

The proposed project is a recycled water distribution system to expand recycled water service to Delta View Golf Course and other city-owned parks within Pittsburg, California. The project will start at the tie-in to an existing recycled water line from Delta Diablo Sanitation District (DDSD), and will involve the construction of approximately 13,270 linear feet (LF) in total of new 12-inch, 10-inch, and 6-inch PVC recycled water piping along city streets and rights-of-way. The Project will also make use of an existing 10-inch pipeline that is currently abandoned, and a 20-inch pipeline that is in use. The Project will provide 615 feet per year (AFY) of recycled water for landscape irrigation. There are a total of four sites for this phase of the project including Delta View Golf Course (500 AFY), Stoneman Park North (26 AFY), City Park (53 AFY), and City Hall (37 AFY). Future phases include that addition of users such as other city parks and schools.

Current Potable Water Supply Sources (show percent distribution):

85% State Water Supply (Delta)
 Metropolitan Water District
15% Local Water Supply (Wells)
 Other (describe source):

Benefits to the Delta:

The proposed project will decrease the average pumping rates from the Delta. The 615 AFY required by the golf course and other proposed landscape areas will be serviced with recycled water instead of the current potable water source which comes from the Delta.

Augmentation of the State Water Supply:

Currently, treated effluent from the wastewater treatment plant that is not recycled is discharged to the New York Slough in the San Joaquin River. The project will capture this for reuse by the recycled water customers. The project will reduce the dependency on potable water supplies for non-potable uses. The decreased pumping rates from the Delta will particularly help with dry-year supply augmentation. The eastern Contra Costa County area has projected a dry-year shortfall and water recycling has been identified as a method to address this shortfall.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 2860 Date: 3/17/05
Applicant Name: Napa Sanitation District

Proj. # 3221-030 Cooperating Entities: n/a
Project Title: Stanely Ranch/South Los Carneros Recycled Water Pipeline

Review Order: 6 Region: 2 Watershed: Napa River County: Napa

Estimated Eligible Grant Amt: \$ 3,150,000 Estimated Total Project Cost: \$ 13,682,000

Proposed Amount of Recycled Water (AF/YR) 80-90 Project Type: Local Distribution

Project Description:

The South Los Carneros Recycled Water Pipeline project involves construction of a pipeline under the Napa River, a trunk pipeline to reach the agricultural user connection points within Stanley Ranch, an upgrade in filter capacity at the Soscol Water Recycling Facility, and a retrofit to increase capacity of the recycled water storage reservoir.

Current Potable Water Supply Sources (show percent distribution):

40% State Water Supply*
 Metropolitan Water District
60% Local Water Supply
 Other (describe source):

*During the summer months the City of Napa receives 100% of their potable water from the State Water Supply. During the remaining months potable water is obtained from the State Water Supply (40%) and local water supply (60%) such as Lake Hennessey, and Milliken Reservoir.

Benefits to the Delta:

The Stanley Ranch area is irrigated currently with water supplied by the City of Napa Water Department. The City of Napa obtains its potable water supply from three sources: Lake Hennessey, Milliken Reservoir and the State Water Project.

The annual entitlement to the State Water Supply is currently 13,350 ac ft/yr and will be 19,800 acre-ft/yr by 2021. State water is conveyed to the City of Napa through the North Bay Aqueduct. The water carried by the North Bay Aqueduct is pumped directly from the Sacramento/San Joaquin Delta. Implementation of the Stanley Ranch/Los Carneros Recycled Water Pipeline Project would decrease average pumping rates from the Delta by at least 80 acre-ft/yr.

Augmentation of the State Water Supply:

Use of recycled water in the Stanley Ranch area will make approximately 80 acre-ft/yr of water from the State Water Supply available for other uses.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 3222 Date: 3/17/05
Applicant Name: City of San Leandro

Proj. # 3211-030 Cooperating Entities: _____
Project Title: City of San Leandro Recycled Water Project

Review Order: 8 Region: 2 Watershed: San Francisco Bay County: Alameda

Estimated Eligible Grant Amt: \$ 840,000

Estimated Total Project Cost: \$ 3,990,000

Proposed Amount of Recycled Water (AF/YR) 383

Project Type: Local Distribution

Project Description:

Phase 1a and 1b of the City of San Leandro Recycled Water Project is intended to deliver 383 acre-feet per year of recycled water from the City of San Leandro Water Pollution Control Plant to two primary use sites including the City's Monarch Bay Golf Complex and the City's Marina Bay park, par course and roadway medians. The project will consist of using an existing pipeline to transfer the recycled water, a new filtration/disinfection system, and a 10,000-gallon storage unit.

Current Potable Water Supply Sources (show percent distribution):

100% State Water Supply
____ Metropolitan Water District
____ Local Water Supply
____ Other (describe source):

Benefits to the Delta:

The project provides recycled water to existing water users which would otherwise be using East Bay Municipal Utility District (EBMUD) imported water or some local groundwater supplies. The Monarch Bay Golf Complex uses a combination of EBMUD and local groundwater supplies for irrigation only. The Marina Park uses EBMUD only. Therefore, through the use of recycled water by the project, the State Water Project supplies from EBMUD will not be needed and will thereby increase average flow rates into the Delta or decrease average pumping rates from the Delta.

Augmentation of the State Water Supply:

The project will augment the State Water Supply by providing recycled water to existing water users which would otherwise be using Mokelumne River water supplies from EBMUD or local groundwater. Therefore, through the use of recycled water by the project, imported water use will decline and State Water Supplies will be augmented.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin #
3360-

Date: 03/17/05

Applicant Name: North Coast County Water District (NCCWD)

Proj. #
3207-030

Cooperating Entities: San Francisco Public Utilities Commission

Project Title: Pacifica Water Recycling Project

Review
Order: 9

Region: 2

Watershed: Sanchez Creek

County: San Mateo

Estimated Eligible

Grant Amt: \$ 1,350,000

Estimated Total

Project Cost: \$4,710,000

Proposed Amount

of Recycled Water 170
(AF/YR)

Project Type:

Regional
Distribution

Project Description:

The Pacifica Recycled Water Project is to construct a water recycling pump station, distribution pipelines, and a storage tank. This project will deliver 170.5 acre-feet per year (AF/yr) of recycled water to 6 major irrigation customers including the San Francisco Recreation and Park Department's Sharp Park Golf Course, the City of Pacifica's Beach Boulevard and Fairway Parks, the CalTrans roadway medians, the Pacifica School District's Ingrid B. Lacy Middle School, and the Jefferson Union High School District's Oceana High School.

Current Potable Water Supply Sources (show percent distribution):

85% State Water Supply
Metropolitan Water District
15% Local Water Supply
Other (describe source):

Water from the Tuolumne River watershed is stored in the Hetch Hetchy Reservoir, which is tributary to the San Joaquin River and Delta, and is delivered to NCCWD's service area and Pacifica by the San Francisco Public Utility Commission (SFPUC) system. The SFPUC system also obtains a portion of the water delivered to NCCWD from its local San Francisco Bay Area Alameda and Peninsula system reservoirs. The Alameda system consists of Calaveras and San Antonio Reservoirs which are located in both Alameda and Santa Clara Counties. The Peninsula system consists of lower and upper Crystal Springs and San Andreas Reservoirs and in two smaller reservoirs, Pilarcitos and Stone Dam. The 6 reservoirs in the Alameda and Peninsula watersheds capture rain and local runoff. Some also store Hetch Hetchy water for use by San Francisco.

Benefits to the Delta:

The project provides recycled water to existing water users which would otherwise be using SFPUC system imported Hetch Hetchy water (Tuolumne River) or some local supplies from local watersheds. Therefore, through the use of recycled water by the project, State Water Supplies from SFPUC will not be needed and will thereby increase average flowrates into the Delta.

Augmentation of the State Water Supply:

The project will augment State Water Supply by providing recycled water to existing water users which would otherwise be using Tuolumne River water supplies from the SFPUC system. Therefore, through the use of recycled water by the project, imported water use will decline and State Water supplies will be augmented.

Northern
Proposition 50, Chapter 7, Water Recycling Construction Grant Application Summary Sheet

Pin # 3122 Date: 3/17/05
Applicant Name: City of American Canyon

Proj. # 3206-030 Cooperating Entities: _____
Project Title: Constructed Recycled Water Distribution System Project

Review Order: 10 Region: 2 Watershed: San Pablo Bay County: Napa

Estimated Eligible Grant Amt:	\$ <u>2,420,000</u>	Estimated Total Project Cost: \$	<u>15,280,000</u>
Proposed Amount of Recycled Water (AF/YR)	<u>1,494</u>	Project Type:	<u>Regional Distribution</u>

Project Description:

The project consists of the installation of approximately 71,000 lineal feet of 6-inch to 20-inch distribution system piping, together with pump stations and water storage tanks, in order to provide for the delivery of recycled water to urban and agricultural users in and adjacent to the City. When complete, the project will deliver 1,494 acre-feet/year (AFY) of recycled water to approximately 80 identified customers. This will directly offset water currently pumped from the State Water Project.

Current Potable Water Supply Sources (show percent distribution):

- 100% State Water Supply
- _____ Metropolitan Water District
- _____ Local Water Supply
- _____ Other (describe source):

Benefits to the Delta:

The City gets water from the North Bay Aqueduct pipeline system, which is drawn from the Delta. The water carried by the North Bay Aqueduct is pumped directly from the Sacramento/San Joaquin Delta. The project proposes to utilize tertiary treated water to irrigate urban landscapes and vineyards adjacent to the City as well as provide process water to industries within the City limits. Currently these water users utilize either raw or treated water from the Delta. Recycled water provides a direct offset to water supply from the Delta, thus decreasing pumping rates from the Delta.

Augmentation of the State Water Supply:

The recycled water supply from American Canyon is a new water supply. If the water is not recycled it is discharged to a tributary of the Napa River and drains to San Pablo Bay, where it is effectively lost. No downstream users currently divert water so this project does not displace any indirect water recycling. Because of the circumstances under which the City discharges recycled water, every acre-foot of recycled water used in American Canyon directly augments the water supply of the State.

Agenda Item: 14-6B
Meeting Dates: April 13 and 14, 2005

**CALIFORNIA BAY-DELTA AUTHORITY
RESOLUTION 05-04-06**

**RECOMMENDING TO THE STATE WATER RESOURCES CONTROL BOARD THAT IT
PROCEED WITH ADOPTION OF WATER RECYCLING FUNDING PROGRAM RANKING
OF PROJECTS FOR ALLOCATION OF PROPOSITION 50 GRANT FUNDS
AND REVIEW AND APPROVAL OF APPLICATIONS**

WHEREAS, water recycling has been found to be an effective measure to augment the State's water supply and control water pollution; and

WHEREAS, water recycling in certain areas of the CALFED Bay-Delta Program solution area can reduce withdrawals from the Delta or increase the average water flows into the Delta; and

WHEREAS, following a recommendation by the Authority (Resolution 04-10-03), the Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Proposition 50) was adopted by the voters in November 2002 and authorized funding for implementation of the CALFED Bay-Delta Program, including funding for water recycling projects; and

WHEREAS, the State Water Resources Control Board is using Proposition 50 funds to augment its Water Recycling Funding Program for grants to public agencies and privately owned water utilities regulated by the Public Utilities Commission for design and construction of water recycling projects; and

WHEREAS, the State Water Resources Control Board adopted guidelines for the administration of Chapter 7, Proposition 50 and other funds for its water recycling program, providing for development of a competitive project list of potential water recycling projects and review and approval of funding applications; and

WHEREAS, the State Water Resources Control Board has adopted the Competitive Project List at its Board Meeting on January 20, 2005, and the Authority has concurred with this action (Resolution 05-02-02); and

WHEREAS, the State Water Resources Control Board has conducted an initial review of applications for grants for construction of water recycling projects and has prepared a ranking of those projects with complete applications for allocation of Proposition 50 grant funds.

NOW, THEREFORE, BE IT RESOLVED that the Authority recommends to the State Water Resources Control Board that it adopt the Water Recycling Funding Program ranking of projects for allocation of Proposition 50 grant funds and complete application review and approval of grant commitments as projects are ready to proceed.

CERTIFICATION

The undersigned Assistant to the California Bay-Delta Authority does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the California Bay-Delta Authority held on April 13 and 14, 2005.

Dated: _____

Jamie Cameron-Harley
Assistant to the California Bay-Delta Authority