

Otay Water District Capital Improvement Program Budget

Fiscal Year 2009 - 2014



Spring Valley, California



Adopted Capital Budget

Fiscal Years 2009-2014

Board of Directors

Gary Croucher - President, Division 3
Jose Lopez - Vice President, Division 4
Jaime Bonilla - Treasurer, Division 2
Larry Breitfelder - Division 1
Mark Robak - Division 5



640-1 and 640-2 Reservoirs Project under construction - October 2007

Management

Mark Watton - General Manager
German Alvarez - Assistant General Manager, Finance and Administration
Manny Magana - Assistant General Manager, Engineering and Operations
Joseph R. Beachem - Chief Financial Officer
Rod Posada - Chief of Engineering

ADOPTED CAPITAL IMPROVEMENT PROGRAM BUDGET FISCAL YEARS 2009-2014

TABLE OF CONTENTS

	<u>Page</u>
Letter of Transmittal	ii
GENERAL INFORMATION	
Budget Guide	1
Otay Water District At-A-Glance	2
General Information	3
Awards	4
Current Economic Conditions	8
The Future	9
Demographics	10
Organization Chart	11
Budget Calendar	12
Budget Process	13
Resolution No. 4124	15
CAPITAL BUDGET SUMMARY	
Capital Improvement Program Narrative	16
Major CIP Projects	18
Flagship CIP Projects in Construction	19
Flagship CIP Project in Design	21
Progress on Major Project	22
CIP Reserve Funds	23
CIP Funding Source and Category	24
CIP Projects	25
CIP Justification and Impact on Operating Budget	27
CIP Project Schedule	29
Capital Purchases Budget	31
CIP PROJECTS	
CIP Project Sheet Description	32
CIP Project Index	35
Capital Facility Projects	37
Replacement/Renewal Projects	121
Capital Purchase Projects	147
Developer Reimbursement Projects	163
APPENDIX	
Water Meter Capacity Fees	169
Glossary	170
List of Acronyms	176
Index	180



...Dedicated to Community Service

2554 SWEETWATER SPRINGS BOULEVARD, SPRING VALLEY, CALIFORNIA 91978-2004
TELEPHONE: 670-2222, AREA CODE 619

September 2, 2008

Honorable Board of Directors
Otay Water District

I am pleased to present the Otay Water District's Adopted Operating and Capital Budget for Fiscal Year 2008-09. This year's budget establishes the management plan to finance all of the District's services and programs during the 2009 fiscal year.

The mission of the District is to provide customers with the best quality water, wastewater, and recycled water service in a professional, effective, and efficient manner. To do so, this year and in coming years, we will be faced with several key challenges. These challenges include: the



slowdown in the local and national economy; instability in the financial markets; widespread home foreclosures; the likelihood of continued drought in the Southwest; and possible water shortages due in part to the reduction in water deliveries from the Sacramento – San Joaquin Bay Delta. In adopting this budget, these factors motivated your board to make the stability and strength of the District among its highest priorities.

Given these uncertain times, the District must find the best solutions that balance the expectations placed on it by our customers and key community and financial stakeholders with the significant challenges we face. Meeting these challenges requires dedication and a commitment to continuous improvement and the innovative use of technologies and resources.

The primary way to achieve our objectives is to improve all aspects of our core business processes. The main tool we will utilize in this regard is the Strategic Business Plan which was updated this year and adopted by your board for the 2009 through 2011 timeframe.

Efficiency improvements have become the new competitive advantage for utilities. As a result, the theme of the plan is to capitalize on the infrastructure investments we have already made in the last few years. We will use the slowdown in the regional economy to realign our energies and optimize how we manage and maintain the nearly half billion dollars of "in-ground" assets utilizing the technology we have recently put in place.

The Strategic Business Plan also carries forth the District's transformation from a growth-centric to a maintenance-based organization. Where capital and developer fees supported growth the

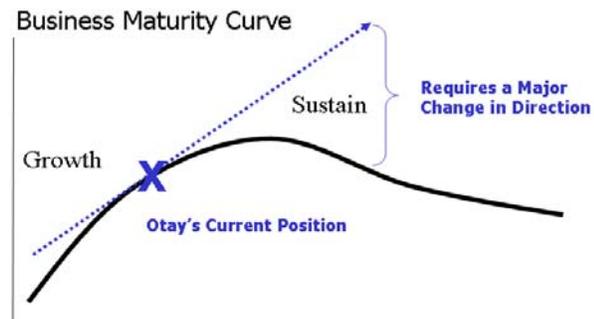
District was very successful in managing the rapid pace of development we experienced. Today we have become equally focused in managing long-term maintenance and replacement of our infrastructure.

This necessary change is illustrated by the business maturity curve. During high growth, we focus on achieving the macro targets of building and installing new infrastructure.

In the future, the resources required to support slower growth are reduced but the effort to maintain and improve assets increases. Income, however, will be derived more from rates and less from fees.

Consequently, increased costs place pressure more directly on rates. Therefore, to meet our customer and financial goals, the District will emphasize internal efficiency and development of technology assisted best practices.

In effect, we will use our investments in technology to do more with the same or fewer resources.



Today, the District provides water service to nearly 47,340 potable and 640 recycled customers within approximately 125.5 square miles of southeastern San Diego County. In the past, all of the potable water purchased by the District was purchased from the San Diego County Water Authority (CWA) who in turn purchases water from the region's water importer, the Metropolitan Water District of Southern California. Last year, the District began purchasing raw water from CWA and having that water treated by the Helix Water District. This action brought regional water treatment closer to our customers and reduced dependence on water treatment located outside of San Diego County proper.

The District also owns and operates a wastewater collection and recycling system to provide public sewer service to approximately 4,630 homes and businesses, equivalent to 6,640 Assigned Service Units, within portions of the communities of La Mesa, Rancho San Diego, El Cajon, Jamul, and Spring Valley. Recycled water from the Ralph W. Chapman Water Recycling Facility (RWCWRF) project is capable of reclaiming wastewater at a rate of 1.3 million gallons per day. The District also purchases up to 6 million gallons per day of recycled water from the City of San Diego's South Bay Water Reclamation Plant. Recycled water from these two sources is used to irrigate golf courses, schools, public parks, roadway landscapes, and various other approved uses in eastern Chula Vista.

BUDGET SUMMARY

The District's operating expenditures are from its three major sectors: potable water, recycled water, and sewer, totaling \$67,062,700 for Fiscal Year 2009. Revenues from potable and recycled water for Fiscal Year 2009 are projected to be \$55,573,900 about \$4.8 million (9.5%) more than Fiscal Year 2008. Water sales volumes are expected to decrease as a result of the slowing economy and expanded efforts to promote water conservation, while the cost of water increases due to supply limitations. Sewer revenues are projected to be \$2,145,300, about

\$270,000 less than Fiscal Year 2008, due to a change in sewer billing methodology and lower water consumption.

Significant aspects of the Operating Budget are:

- A balanced budget meeting the goals of the Strategic Plan.
- An updated a six-year Rate Model to ensure sound financial planning and reserve levels.
- Unprecedented water supply rate increases of 13.2% from CWA because of the high cost of supply programs, higher energy and operating costs.
- Implemented rate increases in potable and recycled water and sewer. This included pass-through rate increases from CWA, and County of San Diego who raised costs to water and sewer customers.
- In response to the economic slowdown, the District has reduced staffing levels from 173 full time equivalents to 169, and cut operating expenditures by \$885,800 due to program deferrals and other discretionary spending cuts.
- Of San Diego County's 23 water agencies, Otay's water rate is the ninth-lowest and below the county-wide average.
- Expanded residential, landscape, and commercial water conservation programs.

The Fiscal Year 2008-09 Capital Budget consists of 66 projects and a budget of \$30.9 million. The budget emphasizes long-term planning for on-going programs while functioning within fiscal constraints and population growth. This year's CIP budget was reduced by \$7.5 million compared to last year's projection in response to the housing slowdown.

The Future

The coming years will be challenging times for everyone in the water industry. Following Governor Schwarzenegger's declaration of a statewide drought in California in June, the District declared a Level 1 drought watch. By doing so, we have begun calling on all customers to achieve up to a 10 percent reduction in their water use through voluntary measures. By summer of next year, we estimate we could be in Level 2 drought alert or perhaps even a drought emergency where voluntary conservation gives way to mandatory measures and all customers are required to cut water use by 30 to 40 percent.

As you would expect, this will impact the finances of the District and staff throughout the District are working diligently to prepare for the consequences of an extended drought should it come to pass. With that in mind, our strength as an organization is vastly enhanced by the practices and policies put in place by your board to ensure the strength and stability of the District as we move forward into uncertain times. These actions will assure our success as an organization and the well-being of the customers we serve.

AWARDS AND ACKNOWLEDGMENTS

To recognize the Supply Link Project, connecting our recycled water system to the City of San Diego's South Bay Water Reclamation Plant, the American Society of Civil Engineers (ASCE) presented the District the *2007 Outstanding Civil Engineering Project* for the 30" Recycled

Water Pipeline, Dairy Mart Road to the 450-1 Reservoir. Additionally, for this same project, the Construction Management Association of America (CMAA) presented Otay Water District the *2008 Project Achievement Award* for the Recycled Water Pipeline to recognize outstanding achievement in the practice of construction management.

The Government Finance Officers Association (GFOA) awarded a *Certificate of Achievement for Excellence in Financial Reporting* to the Otay Water District for its Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2007. In order to be awarded a Certificate of Achievement, a government agency must publish an easily readable and efficiently organized Comprehensive Annual Financial Report. This report must satisfy both generally accepted accounting principles and applicable legal requirements. In addition, the CAFR received the *Outstanding Financial Reporting Award* from the California Society of Municipal Finance Officers (CSMFO).

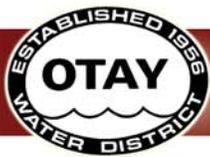
The District also received a *Distinguished Budget Presentation Award* from the GFOA for the District's Operating and Capital Budget for Fiscal Year beginning July 1, 2007, as well as four awards from the CSMFO for *Excellence in Budgeting, Excellence in Capital Budgeting Meritorious in Public Communications, and Meritorious in Innovation*. These prestigious awards recognize conformance with the highest standards for preparation of state and local government financial reports.

This budget reflects the Board of Directors' vision for the District, management, and its employees. We will continue to strive to make improvements in our budget process, including an extensive review and analysis of projections for revenues, expenditures, capital projects, and reserves. I would like to thank all the staff involved in this process for the efforts put forth in the preparation of this budget to ensure a successful outcome.

To the Board of Directors, we acknowledge and appreciate your continued support and direction in achieving excellence in financial management.



Mark Watton, General Manager



General Information

CIP BUDGET GUIDE

The District views the Capital Improvement Program (CIP) Budget as an essential tool for proper financial management of the CIP projects. The District manages growth and maintenance of assets through this program. This CIP budget is developed with input from the various project managers throughout the organization and is adopted prior to the start of each fiscal year for the current fiscal year and five subsequent years. It is designed and presented for the general needs of the District, its staff, and citizens. It is a comprehensive and balanced financial plan. This plan features the CIP budget based on demands for services and the impact on the District's financial status and future plans. The budget book is divided into the following sections:

General Information

This introductory section contains an overview and general information about the District including the organization chart and awards received. Also included are the budget calendar, a description of the budget process, and the resolution adopting the budget.

Capital Budget Summary

The Capital Budget Summary consists of an overview of the District's CIP including the Water Resources Master Plan (WRMP) which is based on major assumptions and criteria of the CIP. Also included are highlights of the major CIP projects completed, in construction, in design, or in progress. Additionally, this section contains the CIP reserve funds and funding sources, a six-year listing of CIP project expenditures, the project justification and impact on the Operating Budget, project schedules, and the capital purchases budget.

CIP Projects

This section contains the project sheet description and project sheets for each CIP project. These sheets are developed by the project manager and contain critical information for the management of these projects. The projects are divided into four categories: Capital Facility Projects, Replacement/Renewal Projects, Capital Purchase Projects, and Developer Reimbursement Projects.

Appendix

The last section consists of the Water Meter Capacity Fee Schedule, the Glossary of budget and financial terms, a List of Acronyms used in this budget book, and an Index.

OTAY WATER DISTRICT AT-A-GLANCE

HISTORY

The Otay Water District was formed in January 1956 and joined the San Diego County Water Authority (CWA) in September 1956 to acquire the right to purchase and distribute imported water throughout its service area. The District is also responsible for the collection, treatment, and disposal of wastewater from a portion of the northern region of the District. In 1980, the District started operation of the Ralph W. Chapman Water Recycling Facility (RWCWRF), and in June, 2007, a new source of recycled water from the City of San Diego was completed, allowing Otay Water District to supply 15 to 20 percent of total water demand with recycled water.

MISSION STATEMENT

The District's mission is to provide safe and reliable water and wastewater services to its community with innovation, in a cost efficient, water-wise, and environmentally responsible manner.

SERVICE AREA

The District's boundaries encompass an area of approximately 125 square miles in San Diego County, lying immediately east of the City of San Diego metropolitan area and running from the City of El Cajon south to the international border.

GOVERNMENT

The Otay Water District was formed in 1956 to serve as a public water and sewer agency, authorized as a California special district under the provisions of the Municipal Water District Act of 1911. The District's ordinances, policies, taxes, and rates for service are set by five Directors, elected by voters in their respective geographic division, to serve staggered four-year terms on its governing board. The District is a "revenue neutral" public agency, meaning that each end-user pays only their fair share of the District's costs of water acquisitions and the operation and maintenance of the public facilities.

ORGANIZATIONAL STRUCTURE

The General Manager manages the day-to-day District operations and reports directly to the Board of Directors. Two Assistant General Managers report to the General Manager. One Assistant General Manager oversees the departments of Administrative Services, Finance, Information Technology and Strategic Planning while the other oversees the departments of Water Operations and Engineering. These and other lines of reporting are shown on the organization chart on page 11.

GENERAL INFORMATION

For Fiscal Year 2009, the District will have a staff of 168.75 full-time equivalent employees under the leadership of the General Manager. The District provides water service to approximately 39% of its land area with a population of more than 191,500 people. This percentage increases as the District's service area continues to grow to ultimate build-out. The District is projected to deliver approximately 38,800 acre-feet of potable water to about 47,340 potable customer accounts and to ultimately deliver 62,700 acre-feet of potable water to serve 277,000 people or 50,300 accounts. The rate of growth, as projected by the San Diego Association of Governments (SANDAG) for the Chula Vista area of San Diego County, is approximately 2.1% per year over the next decade. Using historical data and considering current economic conditions, staff has moderated this projection to a growth rate of 0.6% for Fiscal Year 2009.

Recycled water from the Ralph W. Chapman Water Recycling Facility (RWCWRF) is used to irrigate golf courses, schools, public parks, roadway landscapes, and various other approved uses in eastern Chula Vista. The RWCWRF is capable of recycling wastewater at a rate of 1.3 million gallons per day. The District is also in a partnership with the City of San Diego to beneficially reuse an additional 6,720 acre-feet per year of recycled water beginning in Fiscal Year 2008. This makes Otay Water District the largest retail provider of recycled water in the county.

The District also owns and operates a wastewater collection system providing public sewer service to approximately 4,630 customer accounts within the Jamacha drainage basin. The sewer service area covers approximately 8,797 acres, which is about 11% of the District's total service area. Residential customers comprise 98% of the sewer customer base.

Since 1956, the District has provided high quality water to an arid region of the southeastern San Diego County. In 1971, the District constructed a small collection and treatment plant for sewer in the northern section of the District, and in 1980 the District opened the Ralph W. Chapman Water Recycling Facility. Finally in 1986, the District found a use for recycled water in the construction industry for soil compression. For over 50 years, the available supply of water has helped transform the District service area from a mostly scrub and cactus-covered backcountry into a wonderful balance of diverse environments.

FINANCIAL AWARDS



The Government Finance Officers Association of the United States and Canada (GFOA) presented a Distinguished Budget Presentation Award to Otay Water District, California for its annual budget for the fiscal year beginning July 1, 2007. In order to receive this award, a governmental unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan, and as a communications device.

This award is valid for a period of one year only. We believe our current budget continues to conform to program requirements, and we are submitting it to GFOA to determine its eligibility for another award.

The California Society of Municipal Finance Officers (CSMFO) presented Otay Water District the Certificate of Award for *Excellence in Operating Budgeting for Fiscal Year 2007-2008*.



FINANCIAL AWARDS



The California Society of Municipal Finance Officers (CSMFO) presented Otay Water District the Certificate of Award for *Meritorious in Public Communications* for Fiscal Year 2007 -2008.

The California Society of Municipal Finance Officers (CSMFO) presented Otay Water District the Certificate of Award for *Excellence in Capital Budgeting* for Fiscal Year 2007- 2008.

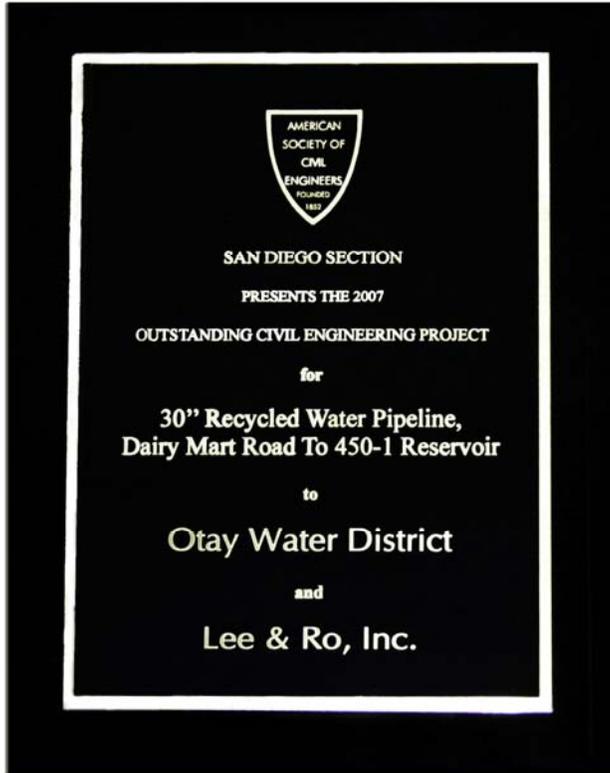


FINANCIAL AWARDS

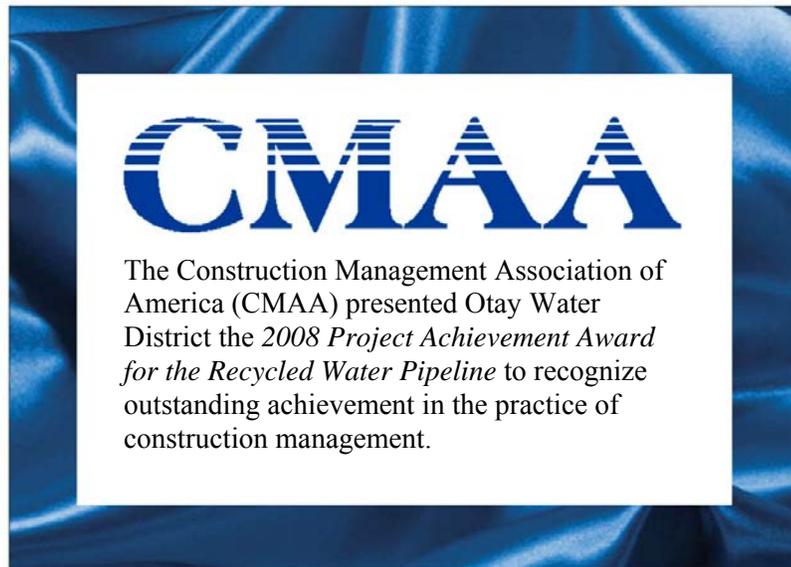


The California Society of Municipal Finance Officers (CSMFO) presented Otay Water District the Certificate of Award for *Meritorious in Budget Innovations for Fiscal Year 2007-2008*.

AWARDS



The American Society of Civil Engineers (ASCE) presented Otay Water District the *2007 Outstanding Civil Engineering Project* for 30" Recycled Water Pipeline, Dairy Mart Road to 450-1 Reservoir.



CURRENT ECONOMIC CONDITIONS

Currently, the District services the needs of a growing population by purchasing water from the San Diego County Water Authority (CWA). CWA purchases its water from the Metropolitan Water District of Southern California (MWD) and the Imperial Irrigation District (IID). Otay takes delivery of the water through several connections of large diameter pipelines owned and operated by CWA. The District currently receives treated water from two sources, CWA, and the Helix Water District (HWD) in the North area of the District. In the Southern region, in addition to the treated water deliveries from CWA, the District has an emergency agreement with the City of San Diego in the case of a shutdown of the main treated water source. Through innovative agreements like this, benefits can be achieved by both parties by using excess capacity of another agency, and diversifying local supply, thereby increasing reliability.

For almost as long as it has been delivering potable water, the District has collected and recycled wastewater generated within the Jamacha drainage basin and pumped the recycled water south to the Salt Creek basin where it is used for irrigation and other non-potable uses. However, the demand for recycled water out-paced the supply, requiring the District to supplement the limited supply of recycled water with potable water. Through the new agreement with the City of San Diego, the District has discontinued supplementing its recycled demand with potable water. Once again, this decreases the demand on potable water and increases reliability of the District's supply.

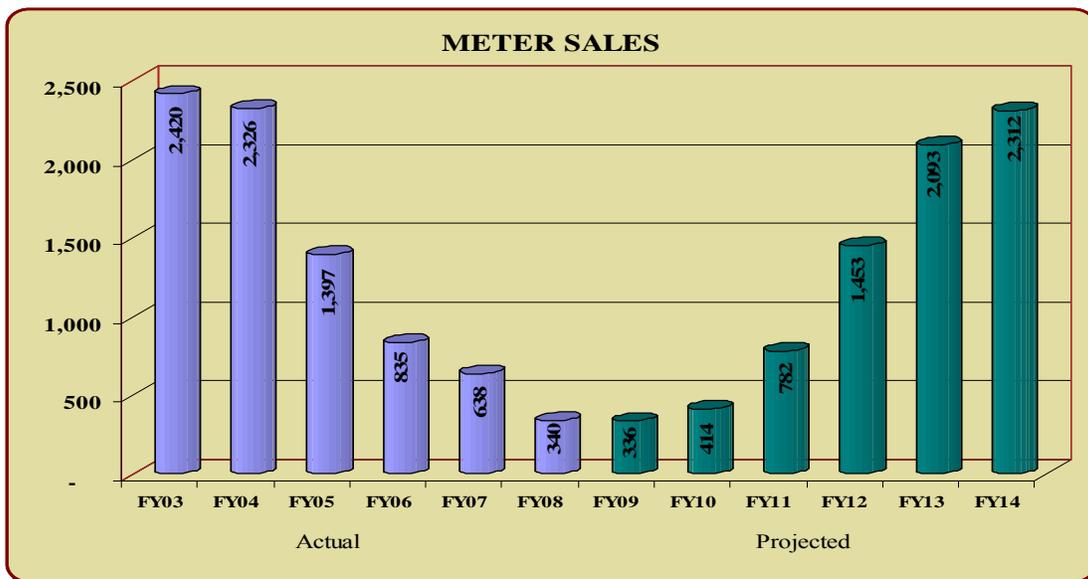
The District's sewer service area is growing at a slow but steady rate of approximately 1.2% each year. Most of this growth is from small development projects or homeowners converting their septic system to sewer because of environmental issues.

The District's service area was one of the fastest growing regions in the nation. During the past decade, the population of the service area has nearly doubled. It is estimated that the District is currently serving approximately 191,500 residents.. In just the past six years, the District has added more than 7,950 new customer connections. The phenomenal growth has slowed, as our local and national economy is experiencing a downturn. This slowdown is reflected internally as the District's Development Services Department approved on average 24 permits per month, and sold 220 water meters in Fiscal Year 2007-2008.



THE FUTURE

The District continues to use the challenges presented by growth to create new opportunities and new organizational efficiencies. By utilizing and continuing to refine its Strategic Business Plan, it has captured the Board of Director's vision and united its staff in a common mission. The organization has achieved a number of significant accomplishments based on its successful adherence to its Strategic Business Plan. The District is not only poised to continue successfully providing an affordable, safe, and reliable water supply for the people of its service area, but is set to reap the rewards of greater efficiencies and economies of scale.



The Engineering Department projects that over the next six years the District will sell another 7,390 meters. SANDAG, the regional planning agency, shows a slowing of the historic annual growth rate of 6.3% since 1980, to a projected future annual growth rate of 1.7% through 2030, for the City of Chula Vista. For the unincorporated areas of the region the historic annual growth rate has been only 1.3% since 1980, but is expected to increase to 2.1% through 2030.



DEMOGRAPHICS

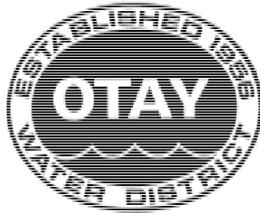
The District boundaries shown in the chart below encompass an area of approximately 125 square miles in San Diego County, located immediately east of the City of San Diego metropolitan area and running from the City of El Cajon south to the international border.



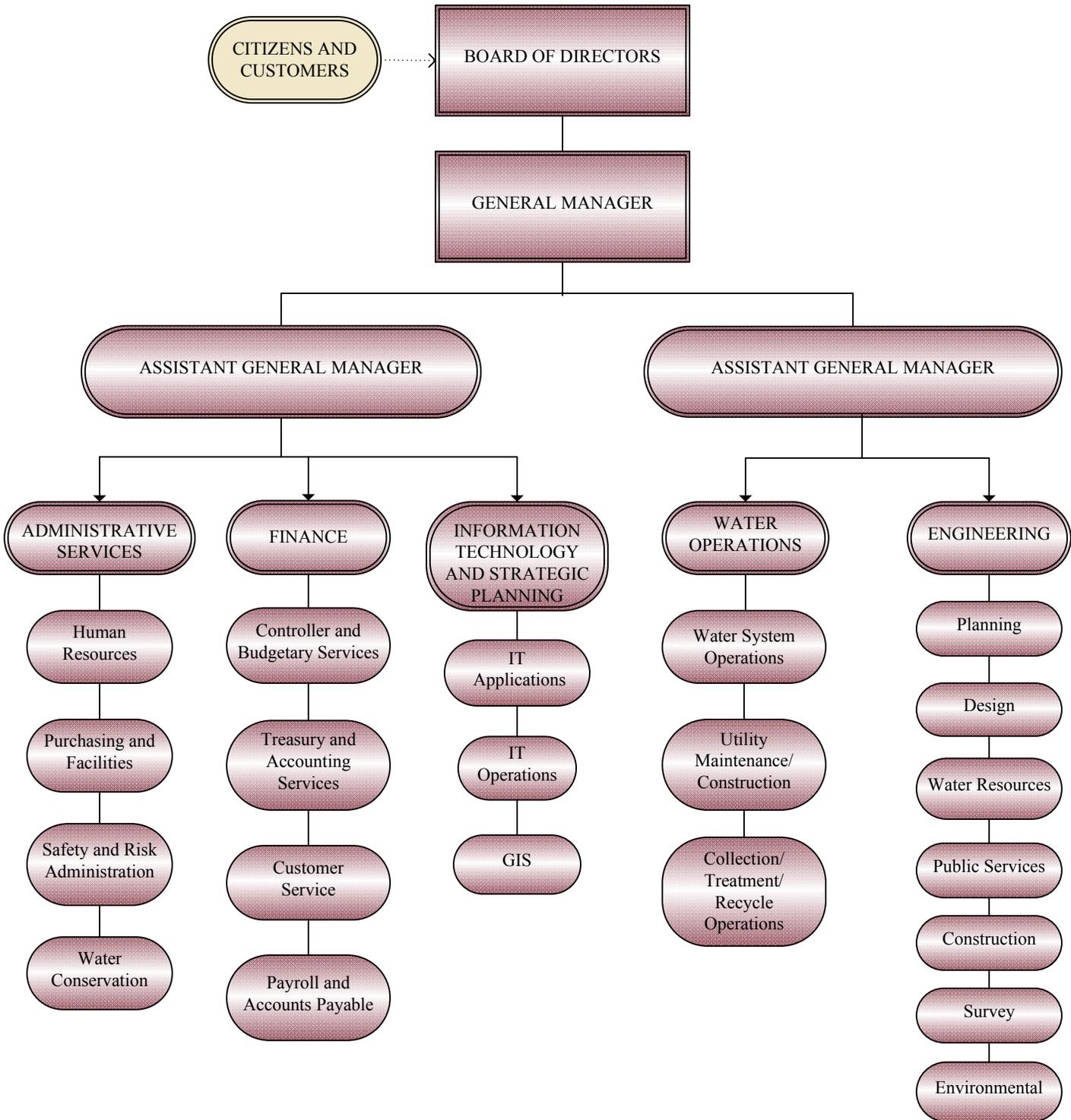
SANDAG creates and maintains a tremendous quantity of demographic, economic, land use, transportation and criminal justice information about the San Diego region. The demographic data include population characteristics like age, education, and employment. Because of the overlapping of the District's service area with the cities of Chula Vista, La Mesa, El Cajon, and the unincorporated areas of Spring Valley and Jamul, the following demographic data is from the City of Chula Vista as it most closely represents the District.

The population of Chula Vista has grown from 83,927 in 1980, to 135,136 in 1990, to 173,556 in 2000, and in 2008 the population reached 231,305. This represents, an increase of 147,378 in the past 28 years or a 175.6% increase, which correlates to the District's rapid growth for the same period.

The racial make up of Chula Vista is 50% Hispanic, 28% White, 13% Asian, 4% Black, and the remaining 5% is all other groups. The median household income for Chula Vista was \$71,298 in 2007, and 97% of Chula Vista's housing units were occupied.



ORGANIZATION CHART



CIP BUDGET CALENDAR

Each year, the Engineering Department prepares budget instructions for distribution to the departments. These instructions give direction and deadlines for each phase of the CIP budgeting process. The CIP Budget Process is explained on pages 13 and 14.

January 30, 2008	Budget workbooks and instructions for the Operating and Capital Budget are distributed to departments.
February 1, 2008 to February 14, 2008	<p>Departments begin CIP Budget Process which includes:</p> <ul style="list-style-type: none"> • Review existing FY 2008 CIP projects. • Remove any CIPs that are complete or will not be budgeted in the CIP budget the next six years. • Estimate the total project-to-date expenditures through 6/30/08 for each CIP. • Adjust the annual amount for the remaining CIPs when appropriate and include justification for the changes to each year's changes. • Develop CIP project cost and schedules, unless more specific information is available. • Submit new CIP projects for consideration.
March 14, 2008	Engineering Department reviews all CIP budget requests with Assistant General Manager and adjusts, if necessary.
March 21, 2008	Engineering reviews and prepares CIP budget and submits to Finance for review and to incorporate into rate model to determine proposed rates.
April 8, 2008	CIP budget presented to the General Manager for review and comments.
April 24, 2008	General Manager performs preliminary review of budget.
May 19, 2008	Final review of proposed budget and rates is done by the General Manager.
June 23, 2008	Board of Directors adopts Fiscal Year 2009 Operating and Capital Budget.

CIP BUDGET PROCESS

The District has integrated the Capital Improvement Program (CIP) Budget and the Operating Budget. These budgets are developed based on the District's Water Resources Master Plan and Strategic Business Plan. Appropriate budget amounts are determined by using the historical data of operations, growth, developers' input, SANDAG projections, and economic outlook. The District is accounted for and budgeted as an enterprise fund and conforms to the guidelines of generally accepted accounting principles (GAAP).

To assure reliable, high-quality service to the growing customer base, the District has committed to a number of long-range strategies that drive the budgeting process. The strategies and assumptions used to develop the District's integrated budget are:

- an average projected long-term growth rate of 2%
- pass-through rate increases for costs imposed on the District by the wholesale water providers
- accurate projection of capital budget needs (including replacement needs)
- reserve funding in accordance with the Reserve Policy to meet future growth demands
- funding of the Strategic Plan initiatives categorized into the Balanced Scorecard perspectives
- avoidance of rate spikes by leveling rate increases over a six-year period

The Engineering Department (Engineering) issues budget instructions for the CIP budget process. Each project manager receives a report of year-to-date project expenses and then estimates cost to the end of the fiscal year, plus future costs, including inflation, to complete the project. Costs are adjusted for scope changes as well as construction cost increases. Engineering then compiles the CIP Budget and submits it to the Assistant General Managers and the General Manager for review prior to presentation to the Board of Directors.

Once all of these budgets have been calculated, the Finance Department inputs all of the operating revenues and expenses, CIP expenses, reserve funding, and reserve levels into the District's Rate Model. Inflators for cost and volume changes are input into the Rate Model and cost and rates are calculated for the current fiscal year plus five subsequent years. Using this comprehensive modeling tool, the District is able to smooth future rate increases, determine when debt should be issued, and maintain all of the reserve levels in accordance with its Reserve Policy.

In the spring, the Strategic Plan is presented to the Board of Directors for adoption. This is followed by the Finance and the Engineering Departments presenting to the Board of Directors their recommendations at a special budget meeting in May of each year. The adoption of the Strategic Plan and budget on an annual basis gives the District its direction for the following fiscal year.

CIP BUDGET PROCESS

During the year, each project manager receives monthly budget and cost reports on their assigned CIP projects. These reports are essential to monitor and control costs. As events occur or conditions change, modifications to or deviations from the original budget may be necessary. In the event the General Manager determines that an emergency exists which requires immediate action, he may transfer appropriation within the budget allocations, or request that the Board of Directors increase the current budgeted funds.

All CIP budget adjustments and requests are submitted to the Engineering Department. The budgets are reviewed for accuracy, categorized into the appropriate project types and funding sources and then prioritized based on need and timing of projects. Projects are reviewed to see if any grant funding is available, and if so, estimated amounts are included as a funding source to these projects.

Engineering submits the consolidated CIP list to the Assistant General Managers and General Manager for review and approval. After any necessary adjustments, the CIP budget is submitted to the Board of Directors for approval each fiscal year along with the Operating Budget.

The Budget Report is intended as a financial guide and may be modified by the Board of Directors during Fiscal Year 2009.

RESOLUTION NO. 4124

A RESOLUTION OF THE BOARD OF DIRECTORS OF
OTAY WATER DISTRICT ADOPTING THE
FISCAL YEAR 2008-2009
OPERATING AND CAPITAL BUDGET

WHEREAS, the Otay Water District Board of Directors have been presented with a budget for the operation of the Otay Water District for Fiscal Year 2008-2009; and

WHEREAS, the Operating and Capital Budget has been reviewed and considered by the Board, and it is in the interest of the District to adopt a budget for said year; and

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED by the Board of Directors of the Otay Water District that the Operating and Capital Budget for the operation of the District, incorporated herein by reference, is hereby adopted as the District's budget for Fiscal Year 2008-2009.

PASSED, APPROVED AND ADOPTED by the Board of Directors of Otay Water District at a special board meeting held this 23rd day of June 2008, by the following vote:

Ayes: Directors Croucher, Lopez, Breitfelder, Bonilla
Noes: None
Abstain: Director Robak
Absent: None



President

ATTEST:



Assistant District Secretary

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Capital Budget Summary

CAPITAL IMPROVEMENT PROGRAM

The District provides water service to a population of approximately 191,500 which is expected to ultimately increase to 277,000. This growth as well as the maintenance of existing assets requires long term capital planning. The process is a dynamic one, due to the evolving needs of the community, the water supply issues, and changing regulations, and therefore is part of the District's overall strategic planning. The capital planning process involves identifying current and future needs, and prioritizing them based on certain operating assumptions. The primary objective of this planning effort is to support an orderly, efficient program of expansion, replacement and betterment, while maintaining a stable long-range financial plan.

To accommodate this growth requires that the District invest \$500 million in capital assets through ultimate build-out. The Fiscal Year 2009 Capital Budget is \$30.9 million and the five-year Capital Improvement Program (CIP) totals \$170 million. A separate CIP Budget Notebook contains the descriptions, justifications, expenditures, and funding for all the identified projects to ultimate build-out.

Assumptions and Criteria

The Water Resources Master Plan was based on several major assumptions and design criteria as follows:

1. Utilizing historical water demands for each land use type in the District to calculate future demands;
2. Using maximum day peaking factors that vary with demand level;
3. Utilizing land use as planned by the City of Chula Vista;
4. Providing ten days of emergency water supply through a maximum of five days in covered reservoirs and a minimum of five days from interconnections with adjacent agencies;
5. Inclusion of emergency operational storage to meet the five-day covered storage requirement into the ten-day outage supply requirement.

In summary, the CIP is developed based on the District's Water Resources Master Plan, incorporating historical data, growth, developers' input, SANDAG projections, and long-term economic outlook.

Justification for Project and Impact on Operating Budget

The justification for each project is determined by whether it is required due to growth (Expansion), improvements or upgrades (Betterment), or to replace an existing asset (Replacement). As these projects are completed and placed into service, there may be an impact on the Operating Budget by increasing cost in the areas of maintenance, energy or chemicals as shown on the justification and impact pages in this section.

CAPITAL IMPROVEMENT PROGRAM

This year, all capital expenditures are in the CIP. This includes capital facilities and capital purchases. Capital purchases are non-recurring operating expense items for District-wide use that cost more than \$10,000 each and have an estimated useful life of two years or more. The Capital Purchase Projects include Vehicle, Office Equipment and Furniture, and Field Equipment purchases, the details of which can be found on page 31. Capital Facility Projects are items that exceed \$10,000 or \$20,000 for infrastructure related items (as defined under Capital Equipment on page 171 of the Glossary) and have a useful life of at least two years.

The CIP projects identified are prioritized based on the following criteria:

1. Safety, restoration of service, immediate obligation, Board directed or critical system need.
2. System upgrades or requirements to maintain system reliability in the next few fiscal years.
3. Need to meet the future growth of the system.
4. Project requirement may be reduced in capacity or may have low probability of need in the future.

The following three categories of CIP projects are:

Expansion

Facilities required to support new or future users which are funded from capacity fees, or user rates.

Betterment

Facilities required because of inadequate capacity or new requirements that benefit existing users and funded from availability, betterment fees or rates.

Replacement

Facilities required to renew or replace existing facilities that have deteriorated or have exceeded their useful life and are funded from user rates.

Capital Improvement Projects

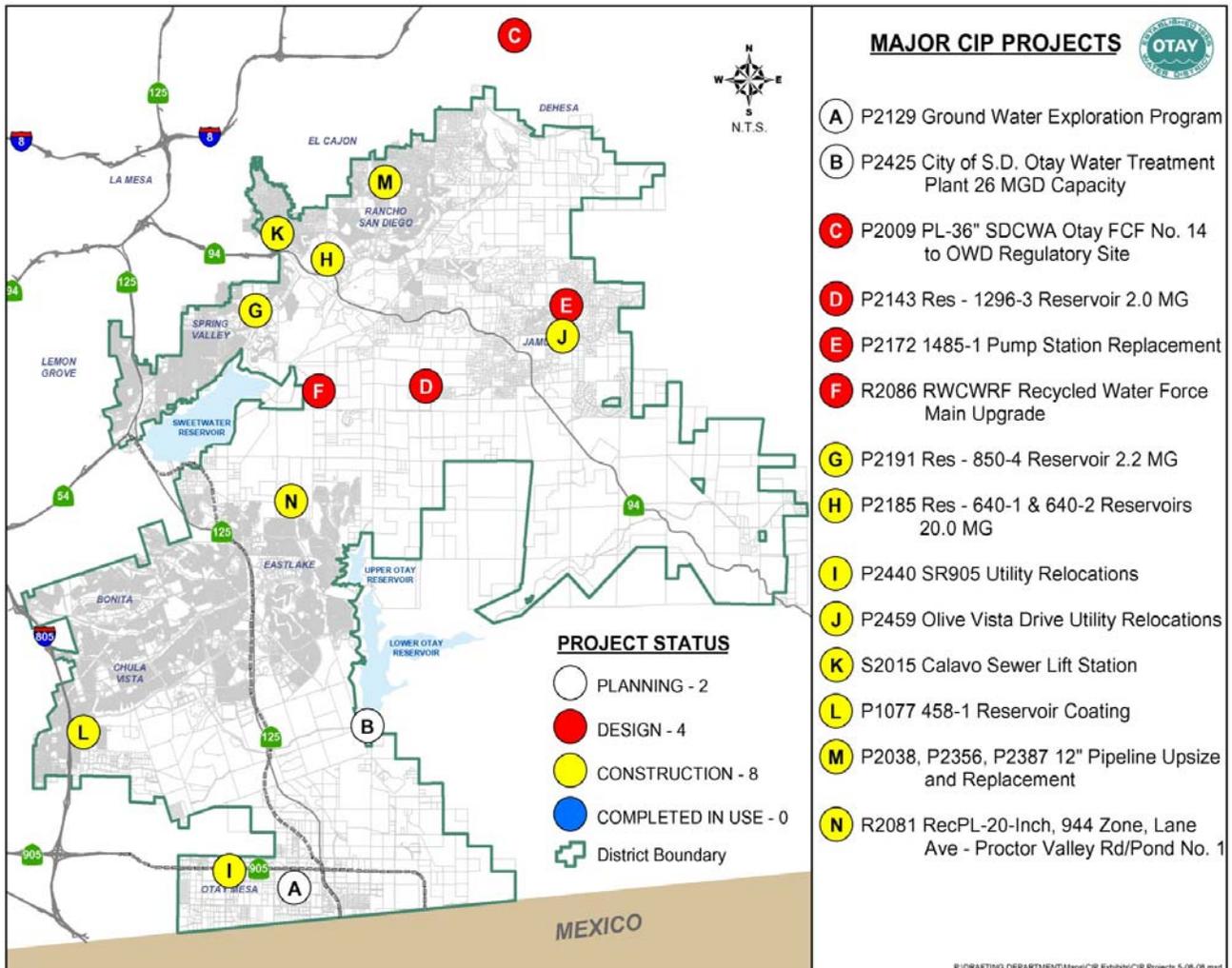
The 2009 Fiscal Year CIP Budget contains 66 projects. The cost of the work planned for Fiscal Year 2009 is \$30.9 million. Of the 66 projects planned for Fiscal Year 2009, three are designated as reimbursable projects with estimated costs of \$540,000. These projects are built by developers and reimbursed by the District.

MAJOR CIP PROJECTS

The following shows how the \$30.9 million of projects are broken down into four categories:

1. Capital facilities \$ 23.0 million
2. Replacement or renewal projects \$ 5.8 million
3. Capital purchase projects \$ 1.6 million
4. Developer reimbursement projects \$.5 million

The Five-Year CIP and Fiscal Year 2009 Capital Budgets are consistent with the District's Water Resources Master Plan, current capacity fees, and the District's strategic financial objectives.



FLAGSHIP CIP PROJECTS IN CONSTRUCTION



SR-905 Utility Relocations

Project started in September 2006 and is 95% completed. This project includes the relocation of three pipelines crossing under SR-905 and the reconditioning of two seismic valve vaults.

850-4 Reservoir

Project started in March 2008 and is expected to be completed in June 2009. This project includes the construction of a 2.2 MG steel reservoir.



FLAGSHIP CIP PROJECTS IN CONSTRUCTION



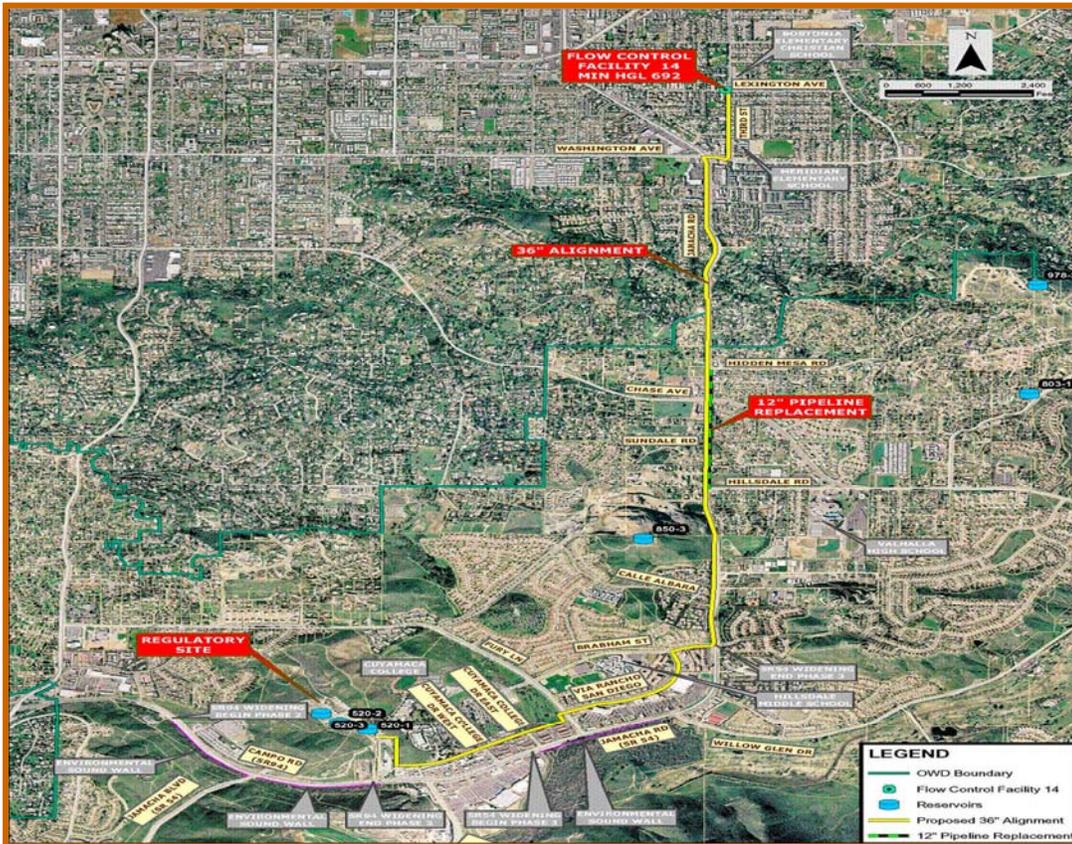
640-1 & 640-2 Reservoirs

This project was awarded to Pacific Hydrotech and was started in January 2007. Expected completion is December 2008. Project consists of two 10-million gallon circular pre-stressed concrete reservoirs, 11,000 feet of large diameter pipe, several valve and control vaults and demolition of the 520-1 Concrete Reservoir.

- Key Component:** Construction for two 10-MG pre-stressed circular reservoirs and associated piping.
- Schedule:** Notice to Proceed was issued in January 2007. Project completion expected December 2008.
- Cost:** The project budget is \$29.5 million, of which \$22.2 million, or 75%, has been spent.
- Significant Issues:** 640-1 Reservoir: Completed construction.
640-2 Reservoir: Completed construction.

These Reservoirs are needed as operational storage for the La Presa System, as well as the necessary emergency storage, consistent with the District's planning criteria. Additionally this project eliminates flow rejection and pressure fluctuation, and maximizes energy efficiency, thereby reducing cost.

FLAGSHIP CIP PROJECT IN DESIGN



36-Inch Pipeline From FCF No. 14 to Regulatory Site Project

- Key Component:** Approximately 5 miles of 36-Inch pipeline for potable water from Otay’s FCF No. 14 to the Regulatory Site.
- Schedule:** Preparing 90% design drawings.
- Cost:** The project budget is \$18.5 million, of which \$1.6 million, or 9% has been spent.
- Significant Issues:** District continues coordination with CalTrans, City of El Cajon, Cuyamaca College, and other agencies to incorporate comments into the project design. A focus group was held to discuss potential alignment improvements. The City of El Cajon will not permit the design alignment. Alternatives are being considered.
(Note: Project engineering contract terminated. Lee & Ro, Inc. has been contracted to finish.)

This 36” pipeline will provide the District with 16 million gallons a day water supply which will result in enhanced reliability for the District’s water systems.

PROGRESS ON MAJOR PROJECT

City of San Diego's Water Treatment Plant, Capacity

Key Component: Acquire at least 30 MGD and up to 50 MGD of local treatment capacity from City of San Diego (City).

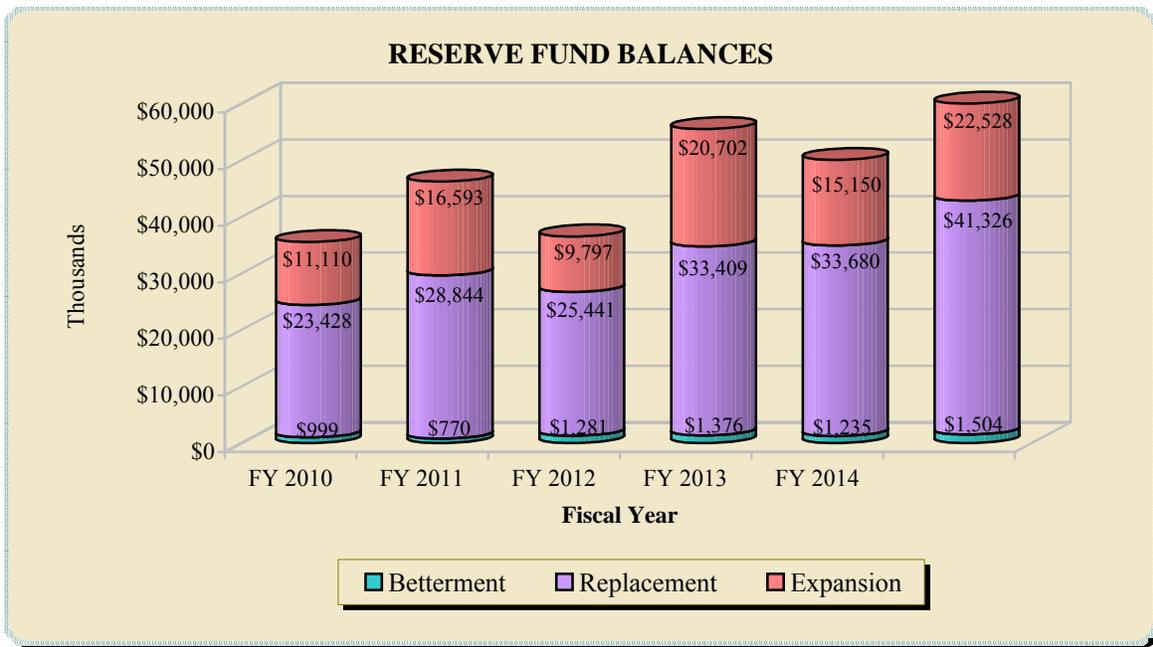
Schedule: The District Board approved the SD17 Principals of Understanding (POU) with the City and CWA. Draft SD17 Agreement and negotiations have been halted by the City Water Department.

Cost: Only staff time has been budgeted; project cost is dependent upon negotiations outcome.

Significant Issues: The City will supply "Surplus Water" from the Otay Water Treatment Plant to the District per the current 1999 Agreement.

CIP RESERVE FUNDS

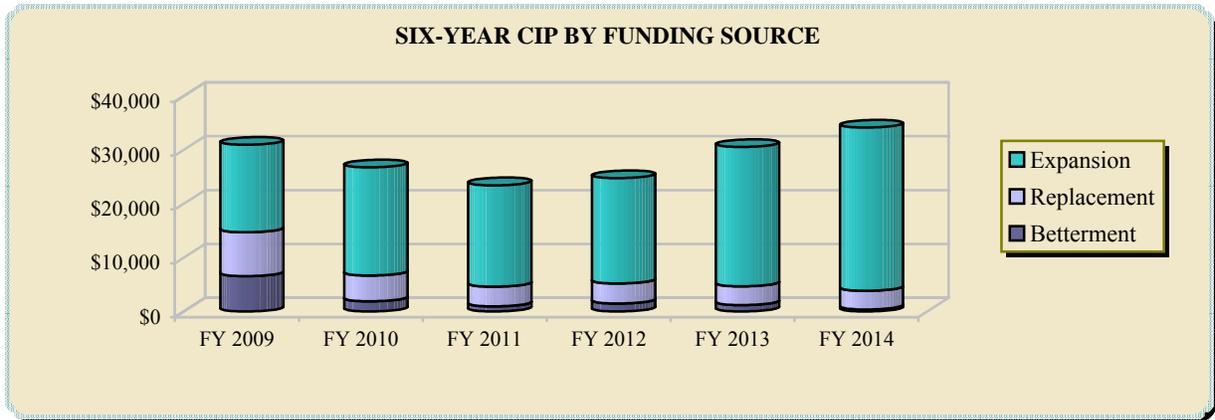
The CIP Reserve Funds presentation, shown on the following pages, is designed to provide an understanding of how the funding of CIPs is expected to financially influence the District over the next six years. The financial impacts are based on CIP and its funding sources, including fund transfers in accordance with the District's Reserve Policy, and planned debt issuances. This data is captured in the District's Rate Model on an annual basis in order to make these projections.



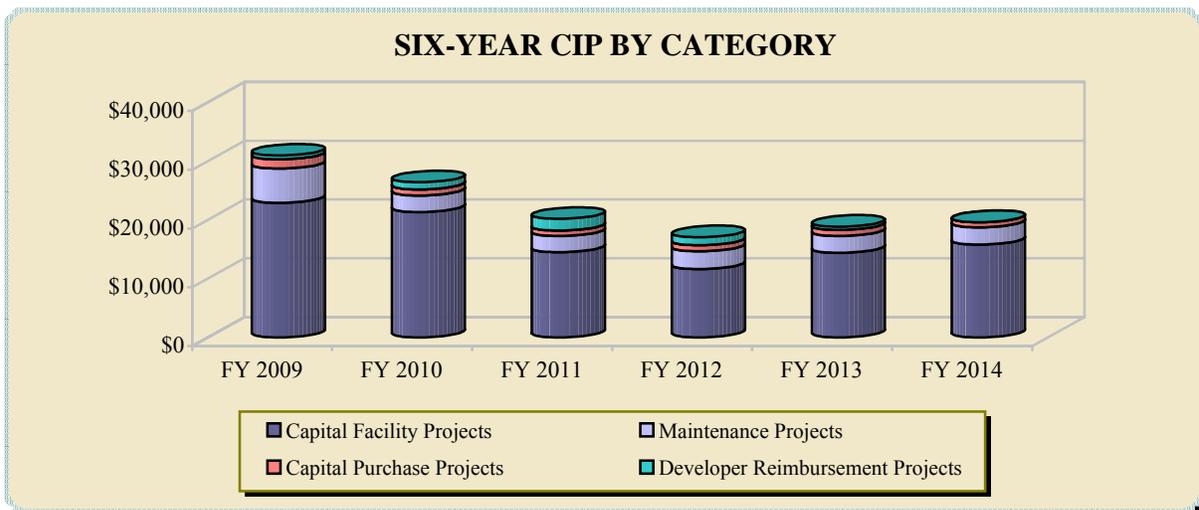
(Thousand \$000s)	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Total
Capacity Fees	\$ 2,841	\$ 3,722	\$ 6,158	\$ 11,121	\$ 15,890	\$ 17,437	\$ 57,168
Debt financing	-	27,640	-	25,325	-	21,600	74,565
Grants	2,420	2,890	2,890	1,000	1,000	1,000	11,200
Interest	1,178	1,089	1,222	1,582	2,070	2,263	9,404
Betterment Charges	1,078	1,100	1,123	1,146	1,170	1,194	6,811
Temporary Meters	1,040	1,040	1,042	1,047	1,053	1,055	6,278
Availability (Betterment Portion)	516	526	537	548	559	571	3,257
Transfer from General Fund	27,005	6,737	8,653	11,068	13,201	15,184	81,849
Interfund Transfers	156	160	163	167	171	175	993
Total Sources	36,233	44,904	21,790	53,004	35,113	60,479	251,524
CIP Projects	30,939	26,743	23,402	24,738	30,510	34,102	170,434
Betterment Fees for Maintenance	896	908	901	924	947	971	5,547
Debt Service	4,307	5,116	5,690	6,873	7,559	8,575	38,118
Developer Services	1,302	1,308	1,322	1,335	1,348	1,362	7,976
Interfund Transfers	7,411	160	163	167	171	175	8,248
Total Uses	44,854	34,235	31,478	34,037	40,535	45,185	230,323
Net Sources (Uses)	\$ (8,621)	\$ 10,669	\$ (9,688)	\$ 18,968	\$ (5,422)	\$ 15,295	\$ 21,201

CIP FUNDING SOURCE AND CATEGORY

(Thousands \$000s)	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	TOTAL
Expansion	\$ 16,236	\$ 20,103	\$ 18,806	\$ 19,583	\$ 25,853	\$ 30,292	\$130,871
Betterment	6,529	1,854	946	1,470	1,156	366	12,322
Replacement	8,174	4,787	3,651	3,686	3,501	3,444	27,241
TOTAL	\$ 30,939	\$ 26,743	\$ 23,402	\$ 24,738	\$ 30,510	\$ 34,102	\$170,434



(Thousands \$000s)	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	TOTAL
Capital Facility Projects	\$ 22,912	\$ 21,338	\$ 14,477	\$ 11,603	\$ 14,395	\$ 15,792	\$100,517
Maintenance Projects	5,834	2,815	2,775	3,055	2,870	2,940	20,289
Capital Purchase Projects	1,553	1,030	930	1,030	1,030	870	6,443
Developer Reimbursement Projects	640	1,210	1,990	1,350	530	-	5,720
Subtotal	30,939	26,393	20,172	17,038	18,825	19,602	132,969
FY 2010 Through FY 2014 Projects	-	350	3,230	7,700	11,685	14,500	37,465
TOTAL	\$ 30,939	\$ 26,743	\$ 23,402	\$ 24,738	\$ 30,510	\$ 34,102	\$170,434



CIP PROJECTS (\$1,000s)

The 2009 Fiscal Year CIP Budget contains 66 projects. The costs for the work planned for Fiscal Year 2009 is \$30.9 million. Of the 66 projects planned for Fiscal Year 2009, three are designated as reimbursable projects with estimated costs of \$540,000. These projects are built by developers and reimbursed by the District.

CIP No.	Description	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Total
CAPITAL FACILITY PROJECTS								
P2009	PL - 36-Inch, SDCWA Otay FCF No. 14 to Regulatory Site	\$ 8,000	\$ 11,450	\$ 700	\$ -	\$ -	\$ -	\$ 20,150
P2033	PL - 16-Inch, 1296 Zone, Melody Road - Campo/Presilla	2	150	1,000	669	-	-	1,821
P2038	PL - 12-Inch, 978 Zone, Jamacha, Hidden Mesa, and Chase Upsize and Replacements	900	1,000	-	-	-	-	1,900
P2040	Res - 1655-1 Reservoir 0.5 MG	1	1	83	700	795	-	1,580
P2129	Groundwater Exploration Program	10	10	15	25	630	1,280	1,970
P2143	Res - 1296-3 Reservoir 2 MG	1,900	1,265	-	-	-	-	3,165
P2172	PS - 1485-1 Pump Station Replacement	1,125	850	-	-	-	-	1,975
P2185	Res - 640-1 Reservoir 20.0 MG	3,900	-	-	-	-	-	3,900
P2190	PL - 10-Inch, 1485 Zone, Jamul Highlands Road to Presilla Drive	5	5	120	94	-	-	224
P2191	Res - 850-4 Reservoir 2.2 MG	1,950	200	-	-	-	-	2,150
P2318	PL - 20-Inch, 657 Zone, Summit Cross-Tie and 36-Inch Main Connections	200	344	-	-	-	-	544
P2387	PL - 12-Inch, 832 Zone, Steele Canyon Road - Via Caliente/Campo	500	-	-	-	-	-	500
P2450	Otay River Groundwater Well Demineralization/Development	115	85	800	3,600	400	-	5,000
P2451	Rosarito Desalination Facility Conveyance System	150	150	150	150	1,350	3,000	4,950
P2457	Otay Mountain Groundwater Well Development	10	290	6,000	200	-	-	6,500
P2460	I.D. 7 Trestle and Pipeline Demolition	20	55	300	-	-	-	375
P2462	Otay River Demineralization Feasibility Study	150	-	-	-	-	-	150
P2463	South Bay Regional Concentrate Conveyance Feasibility Study	15	-	-	-	-	-	15
P2464	San Diego 17 Pump Station and Flow Control Facility	15	-	-	-	-	-	15
P2465	Regulatory Site Material Storage Bins	220	-	-	-	-	-	220
P2466	Regional Training Facility	150	-	-	-	-	-	150
P2467	San Diego Formation Groundwater Feasibility Study	400	800	-	-	-	-	1,200
P2471	850/657 PRS at La Presa Pump Station	5	90	205	-	-	-	300
P2472	Water Supply Feasibility Studies	150	50	50	50	50	50	400
P2473	PS - 711-1 Pump Station Improvement	50	150	-	-	-	-	200
P2474	Fuel Storage Covers and Containment	100	-	-	-	-	-	100
P2475	Pump Station Fire Safety Improvements	50	-	-	-	-	-	50
P2476	Dis - 1090-1 Pump Station Disinfection System Upgrade	100	-	-	-	-	-	100
P2477	Res - 624-1 Reservoir Cover Replacement	250	200	-	-	-	-	450
R2034	RecRes - 860-1 Reservoir 4 MG	104	394	1,800	1,500	-	-	3,798
R2048	RecPL - Otay Mesa Distribution Pipelines and Conversions	10	1,200	650	140	-	-	2,000
R2053	RWCWRF - R.O. Building Remodel and Office Furniture	50	-	-	-	-	-	50
R2058	RecPL - 16-Inch, 860 Zone, Airway Road - Otay Mesa/Alta	100	300	750	1,000	530	-	2,680
R2077	RecPL - 24-Inch, 860 Zone, Alta Road - Alta Gate/Airway	200	1,000	377	1,000	1,500	-	4,077
R2081	RecPL - 20-Inch, 944 Zone, Lane Avenue - Proctor Valley/Pond No. 1	590	-	-	-	-	-	590
R2087	RecPL - 20-Inch, 944 Zone, Wueste Road - Olympic/Otay WTP	100	1,200	600	50	-	-	1,950
R2088	RecPL - 20-Inch, 860 Zone, County Jail - Roll Reservoir/860-1 Reservoir	81	149	1,000	250	-	-	1,480
R2089	North District Recycled Water Regulatory Compliance	110	-	-	-	-	-	110
R2091	RecPS - 944-1 Pump Station Upgrade	324	-	-	-	-	-	324
R2092	Dis - 450-1 Reservoir Disinfection Facility	750	-	-	-	-	-	750
R2093	MBR City of Chula Vista	50	50	50	50	1,500	3,300	5,000
S2016	Solar Panel Installation Phase I	100	200	200	200	-	-	700
42	Total Capital Facility Projects	23,012	21,638	14,850	9,678	6,755	7,630	83,563
REPLACEMENT/RENEWAL PROJECTS								
P2356	PL - 12-Inch, 803 Zone, Jamul Drive Permastran Pipeline Replacement	705	-	-	-	-	-	705
P2366	APCD Engine Replacements and Retrofits	170	180	190	220	200	200	1,160
P2382	Safety and Security Improvements	169	40	30	30	-	-	269
P2416	SR-125 Utility Relocations	10	-	-	-	-	-	10
P2422	Agency Interconnections	250	250	250	250	250	250	1,500
P2440	I-905 Utility Relocations	925	125	-	-	-	-	1,050
P2441	NG/RAMAR Meter Replacements	100	-	-	-	-	-	100

CIP PROJECTS (\$1,000s)

CIP No.	Description	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Total
REPLACEMENT/RENEWAL PROJECTS								
P2453	SR-11 Utility Relocations	5	165	125	205	-	-	500
P2456	Air and Vacuum Valve Upgrades	520	550	580	600	620	640	3,510
P2458	AMR Manual Meter Replacement	1,250	1,375	1,500	1,650	1,700	1,750	9,225
R2086	RWCWRF Force Main AirVac Replacements and Road Improvements	1,000	-	-	-	-	-	1,000
S2012	SVSD Outfall and RSD Replacement and OM Reimbursement	430	130	100	100	100	100	960
S2015	Calavo Lift Station Replacement	300	-	-	-	-	-	300
13	Total Replacement/Renewal Projects	5,834	2,815	2,775	3,055	2,870	2,940	20,289
CAPITAL PURCHASE PROJECTS								
P2282	Vehicle Capital Purchases	228	220	220	220	220	210	1,318
P2285	Office Equipment and Furniture Capital Purchases	20	60	60	60	60	60	320
P2286	Field Equipment Capital Purchases	45	100	100	100	100	100	545
P2443	Information Technology Mobile Services	250	150	150	150	150	-	850
P2461	Records Management System Upgrade	50	-	-	-	-	-	50
P2469	Information Technology Network and Hardware	500	300	200	300	300	300	1,900
P2470	Application Systems Development and Integration	380	200	200	200	200	200	1,380
P2478	Administration Building Engine/Generator Set	80	-	-	-	-	-	80
8	Total Capital Purchase Projects	1,553	1,030	930	1,030	1,030	870	6,443
DEVELOPER REIMBURSEMENT PROJECTS								
P2134	PL - 16-Inch, 711 Zone, Birch Road - SR 125/EastLake	200	10	-	-	-	-	210
P2414	PL - 12" to 16" Oversize, 803 Zone, Dehesa Road - Dehesa Meadow/OWD Bndy	10	-	-	-	-	-	10
R2033	RecPL - 12-Inch, 944 Zone, Birch Road - La Media/EastLake	330	-	-	-	-	-	330
3	Total Developer Reimbursement Projects	540	10	-	-	-	-	550
66	Total - FY 2009 Projects	30,939	25,493	18,555	13,763	10,655	11,440	110,845
7	FY 2010 Through FY 2014 Projects	-	1,250	4,847	10,975	19,855	22,662	59,589
Grand Totals		\$ 30,939	\$ 26,743	\$ 23,402	\$ 24,738	\$ 30,510	\$ 34,102	170,434

CIP JUSTIFICATION AND IMPACT ON OPERATING BUDGET

Projected Incremental Operating Expenditures										
CIP No.	Description	J/FS ⁽²⁾	Total	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Total
CAPITAL PURCHASE PROJECTS										
P2443	IT Mobile Services	E/R	\$ 18,000	\$ 18,000	\$ 18,500	\$ 19,100	\$ 19,700	\$ 20,300	\$ 20,900	\$ 116,500
Total Capital Purchase Projects			18,000	18,000	18,500	19,100	19,700	20,300	20,900	116,500
DEVELOPER REIMBURSEMENT PROJECTS										
P2104	PL - 12-Inch, 711 Zone	E	2,000	-	-	-	-	-	2,000	2,000
P2107	PL - 12-Inch, 711 Zone	E	1,700	-	-	-	-	-	1,700	1,700
P2134	PL - 16-Inch, 711 Zone	E	1,000	-	-	1,000	1,000	1,000	1,000	4,000
P2325	PL - 10" to 12" Oversize	E	2,300	-	-	-	2,300	2,400	2,500	7,200
P2367	PL - 16-Inch, 980 Zone	E	3,300	-	-	1,700	3,400	3,500	3,600	12,200
P2402	PL - 12-Inch, 624 Zone	E	1,000	-	-	-	1,000	1,000	1,000	3,000
P2403	PL - 12-Inch, 624 Zone	E	3,100	-	-	-	-	-	3,100	3,100
P2414	PL - 12" to 16" Oversize	E	2,400	-	2,400	2,500	2,600	2,700	2,800	13,000
R2028	RecPL - 8-Inch, 680 Zone	E	2,400	-	-	-	-	-	2,400	2,400
R2033	RecPL - 12-Inch, 944 Zone	E	2,100	-	2,100	2,200	2,300	2,400	2,500	11,500
R2042	RecPL - 8-Inch, 944 Zone	E	900	-	-	500	900	900	900	3,200
R2047	RecPL - 12-Inch, 680 Zone	E	1,400	-	-	700	1,400	1,400	1,400	4,900
R2058	RecPL - 16-Inch, 860 Zone	E	5,400	-	-	-	-	5,400	5,600	11,000
R2082	RecPL - 24-Inch, 680 Zone	E	1,200	-	-	1,200	1,200	1,200	1,200	4,800
R2083	RecPL - 20-Inch, 680 Zone	E	700	-	-	700	700	700	700	2,800
R2084	RecPL - 20-Inch, 680 Zone	E	1,900	-	-	-	1,900	2,000	2,100	6,000
R2085	RecPL - 20-Inch, 680 Zone	E	1,300	-	-	-	1,300	1,300	1,300	3,900
Total Developer Reimbursement Projects			34,100	-	4,500	10,500	20,000	25,900	35,800	96,700
Total Operating Budget Cost Impact			\$ 161,900	\$ (17,100)	\$ 151,700	\$ 164,200	\$ 196,700	\$ 194,300	\$ 371,300	\$ 1,061,100

The preceding schedule shows anticipated operating costs associated with each project in the CIP, and below is a summary of each category of new costs that will be impacted. No additional revenues are associated with the individual projects, as revenues are linked more directly to growth in water sales and capacity fee revenues.

Cost Category	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	Total
Operations and Maintenance	\$ (17,100)	\$ 30,200	\$ 30,600	\$ 59,800	\$ 81,000	\$ 116,900	\$ 301,400
Energy	-	91,900	100,900	103,900	75,500	213,100	585,300
Chemical	-	29,600	32,700	33,000	37,800	41,300	174,400
Total Operating Budget Cost Impact	\$ (17,100)	\$ 151,700	\$ 164,200	\$ 196,700	\$ 194,300	\$ 371,300	\$ 1,061,100

Note: See pages 25-26 for complete description of CIP projects.

**Otay Water District
FY 2009 - FY 2014
CIP Project Schedules**

ID	CIP	CIP Project Title	Start	Finish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
		Project Category: Capital Facility Projects	11/4/91	6/30/14	[Timeline bar]														
1					[Timeline bar]														
2	P2009	PL - 36-Inch, SDCWA Otay FCF No. 14 to Regulatory Site	7/1/97	7/31/10															
3	P2033	PL - 16-Inch, 1296 Zone, Melody Road - Campo/Presilla	7/1/05	6/30/12															
4	P2038	PL - 12-Inch, 978 Zone, Jamacha, Hidden Mesa, and Chase Upsize and Replacements	7/1/05	7/31/09															
5	P2040	Res - 1655-1 Reservoir 0.5 MG	7/1/93	12/31/12															
6	P2129	Groundwater Exploration Program	7/3/95	6/30/14															
7	P2143	Res - 1296-3 Reservoir 2 MG	11/1/01	6/30/10															
8	P2172	PS - 1485-1 Pump Station Replacement	7/2/01	6/30/10															
9	P2185	Res - 640-1 Reservoir 20.0 MG	11/4/91	6/30/09															
10	P2190	PL - 10-Inch, 1485 Zone, Jamul Highlands Road to Presilla Drive	7/1/05	6/30/12															
11	P2191	Res - 850-4 Reservoir 2.2 MG	7/1/03	12/31/09															
12	P2318	PL - 20-Inch, 657 Zone, Summit Cross-Tie and 36-Inch Main Connections	11/3/97	6/30/10															
13	P2387	PL - 12-Inch, 832 Zone, Steele Canyon Road - Via Caliente/Campo	7/1/05	6/30/09															
14	P2450	Otay River Groundwater Well Demineralization/Development	7/2/07	6/30/13															
15	P2451	Rosarito Desalination Facility Conveyance System	7/3/06	6/30/14															
16	P2457	Otay Mountain Groundwater Well Development	12/3/07	6/30/12															
17	P2460	I.D. 7 Trestle and Pipeline Demolition	7/2/07	6/30/11															
18	P2462	Otay River Demineralization Feasibility Study	7/2/07	6/30/09															
19	P2463	South Bay Regional Concentrate Conveyance Feasibility Study	7/2/07	6/30/09															
20	P2464	San Diego 17 Pump Station and Flow Control Facility	7/2/07	6/30/09															
21	P2465	Regulatory Site Material Storage Bins	7/2/07	12/31/08															
22	P2466	Regional Training Facility	8/1/06	1/31/09															
23	P2467	San Diego Formation Groundwater Feasibility Study	7/2/07	6/30/10															
24	P2471	850/657 PRS at La Presa Pump Station	7/1/08	6/30/11															
25	P2472	Water Supply Feasibility Studies	7/1/08	6/30/14															
26	P2473	PS - 711-1 Pump Station Improvement	7/1/08	6/30/10															
27	P2474	Fuel Storage Covers and Containment	7/1/08	6/30/09															
28	P2475	Pump Station Fire Safety Improvements	7/1/08	6/30/09															
29	P2476	Dis - 1090-1 Pump Station Disinfection System Upgrade	7/1/08	6/30/09															
30	P2477	Res - 624-1 Reservoir Cover Replacement	7/1/08	6/30/10															
31	R2034	RecRes - 860-1 Reservoir 4.0 MG	9/1/06	6/30/12															
32	R2048	RecPL - Otay Mesa Distribution Pipelines and Conversions	7/1/08	7/31/12															
33	R2053	RWCWRF - R.O. Building Remodel and Office Furniture	7/1/97	7/31/08															
34	R2058	RecPL - 16-Inch, 860 Zone, Airway Road - Otay Mesa/Alta	7/2/01	7/31/12															
35	R2077	RecPL - 24-Inch, 860 Zone, Alta Road - Alta Gate/Airway	9/1/06	7/31/12															
36	R2081	RecPL - 20-Inch, 944 Zone, Lane Avenue - Proctor Valley/Pond No. 1	7/3/06	12/31/08															
37	R2087	RecPL - 20-Inch, 944 Zone, Wueste Road - Olympic/Otay WTP	9/1/06	9/30/11															
38	R2088	RecPL - 20-Inch, 860 Zone, County Jail - Roll Reservoir/860-1 Reservoir	9/1/06	9/30/11															
39	R2089	North District Recycled Water Regulatory Compliance	5/1/07	12/31/08															
40	R2091	RecPS - 944-1 Pump Station Upgrade	7/2/07	6/30/09															
41	R2092	Dis - 450-1 Reservoir Disinfection Facility	7/2/07	6/30/09															
42	R2093	MBR City of Chula Vista	7/31/08	12/31/13															
43	S2016	Solar Panel Installation Phase I	7/3/06	12/31/11															
44					[Timeline bar]														
45		Project Category: Replacement/Renewal Project	12/1/00	6/30/14	[Timeline bar]														
46	P2356	PL - 12-Inch, 803 Zone, Jamul Drive Permastran Pipeline Replacement	7/1/05	6/30/09															
47	P2366	APCD Engine Replacements and Retrofits	12/1/00	6/30/14															
48	P2382	Safety and Security Improvements	7/1/02	6/30/12															
49	P2416	SR-125 Utility Relocations	10/1/02	6/30/09															
50	P2422	Agency Interconnections	7/1/03	6/30/14															
51	P2440	I-905 Utility Relocations	1/1/03	6/30/10															

Project: OWD FY 2009 CIP Schedule Date: 6/3/08

Milestone
 Summary
 Rolled Up Task
 Rolled Up Progress
 External Tasks
 Group By Summary

Progress
 Summary
 Rolled Up Milestone
 Split
 Project Summary
 Deadline

**Otay Water District
FY 2009 - FY 2014
CIP Project Schedules**

ID	CIP	CIP Project Title	Start	Finish	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
52	P2441	NG/RAMAR Meter Replacements	12/1/06	6/30/09															
53	P2453	SR-11 Utility Relocations	7/3/06	6/30/12															
54	P2456	Air and Vacuum Valve Upgrades	7/3/06	6/30/14															
55	P2458	AMR Manual Meter Replacement	7/3/06	6/30/14															
56	R2086	RWCWRF Force Main AirVac Replacements and Road Improvements	7/1/05	6/30/09															
57	S2012	SVSD Outfall and RSD Replacement and OM Reimbursement	7/1/03	6/30/14															
58	S2015	Calavo Lift Station Replacement	12/1/05	6/30/09															
59																			
60		Project Category: Capital Purchase Projects	12/5/00	6/30/14															
61	P2282	Vehicle Capital Purchases	12/5/00	6/30/14															
62	P2285	Office Equipment and Furniture Capital Purchases	12/5/00	6/30/14															
63	P2286	Field Equipment Capital Purchases	12/5/00	6/30/14															
64	P2443	Information Technology Mobile Services	7/1/05	6/30/13															
65	P2461	Records Management System Upgrade	7/2/07	6/30/09															
66	P2469	Information Technology Network and Hardware	7/1/08	6/30/14															
67	P2470	Application Systems Development and Integration	7/1/08	6/30/14															
68	P2478	Administration Building Engine/Generator Set	7/1/08	6/30/09															
69																			
70		Project Category: Developer Reimbursement Projects	8/1/02	6/30/10															
71	P2134	PL - 16-Inch, 711 Zone, Birch Road - SR 125/EastLake	7/1/03	6/30/10															
72	P2414	PL - 12" to 16" Oversize, 803 Zone, Dehesa Road - Dehesa Meadow/OWD Bndy	8/1/02	6/30/09															
73	R2033	RecPL - 12-Inch, 944 Zone, Birch Road - La Media/EastLake	7/1/03	6/30/09															

Project: OWD FY 2009 CIP Schedule Date: 6/3/08

Milestone
 Rolled Up Milestone
 Milestone
 Rolled Up Progress
 External Tasks
 Group By Summary
 Summary
 Rolled Up Milestone
 Split
 Project Summary
 Deadline

CAPITAL PURCHASES BUDGET

Capital purchases are non-recurring operating expense items for District-wide use that cost more than \$10,000 each and have an estimated useful life of two years or more. The Capital Purchase Projects include Vehicle, Office Equipment and Furniture, and Field Equipment purchases.

Item#	Description	Amount	Type
Field Equipment			
Engineering Development			
25	Fuel island management system	\$ 45,000	R
	Total Field Equipment - Engineering Development	<u>45,000</u>	
Total Field Equipment		<u>45,000</u>	
Office Equipment			
Administration			
12	Color Copier/Printer	\$ 20,000	R
	Total Office Equipment - Administration	<u>20,000</u>	
Total Office Equipment		<u>20,000</u>	
Vehicles			
Operations			
13	2008 Ford Ranger or equivalent mid-size	17,000	R
14	2008 Ford Ranger or equivalent mid-size	17,000	R
15	2008 Ford F250 or similar cab and chassis	25,000	R
16	2008 Ford Ranger 4x4 or equivalent mid-size	19,000	R
17	2008 Ford F150 or similar	21,000	R
18	2008 Ford F250 or similar cab and chassis	21,000	R
19	2008 Toyota Matrix or equivalent	20,000	R
20	2008 Ford Ranger or equivalent mid-size	17,000	R
21	2008 Ford Ranger or equivalent mid-size	17,000	R
22	2008 Ford Explorer or equivalent	24,000	R
23	2008 Ford Ranger or equivalent	17,000	R
24	2007 or 2008 Yamaha Rhino 700 Auto 4x4 Utility Terrain Vehicle	<u>13,000</u>	R
Total Vehicles		<u>228,000</u>	
Total Capital Purchases Budget		<u><u>\$ 293,000</u></u>	

N - New

R - Replacement



CIP Projects

CIP PROJECT SHEET DESCRIPTION

The following pages describe each information item on the individual CIP project sheets included in this section.

CIP Number: The CIP project number for all projects is assigned by the Engineering Project Manager.

Project Title: Project titles follow a set format as described herein. The type of project should be identified first. For example, if a project were a 711 Pressure Zone 24-inch pipeline, the title would read “PL - 24-Inch, 711 Zone, Location - From A to B.” Pump stations and reservoirs are identified similarly with abbreviations for type and size.

Work Order Number: A work order number is assigned to a CIP project once it is approved by the Board of Directors. If more than one work order number is assigned to the project, then the word “various” is used and all the various work order numbers shall be identified in the comments field.

Director Division: All projects are located within a Board of Director’s division boundary unless they apply to the entire District or are outside of the District boundaries. The Director division where the majority of the physical project is located is listed. If it is a District-wide project it is listed as “District-wide.” If it is outside the District boundary it is listed as “None.”

Project Manager: The person responsible for managing the project from inception through completion.

I.D. Location: Most projects are located within one or more improvement districts. The I.D. location listed is where the majority of the physical project is located. However, projects located in portions of the District which have not yet been annexed into an improvement district are listed as “None.”

Original Approved Date: The date the project was originally approved with budget expenditures for the corresponding fiscal year by the Board of Directors.

Priority: The priority of the project is listed in this field as one of the following:

1. HIGH: Safety, restoration of service to customers, obligation that requires immediate action, directed by the Board of Directors, and/or critical system need.
2. MEDIUM: Upgrade of system or expansion requirement to maintain system reliability not critical. Identified through planning effort as required within next few fiscal years.
3. LOW: Identified through planning effort as required in future years to support development; not anticipated in the immediate future.
4. VERY LOW: Requirement may have low probability of need in the future.

Related CIP Projects: A maximum of three CIP project numbers that affect the scheduling and/or is related to the subject project and/or could provide important information.

Budget Amount: The estimated budget includes all costs needed to complete a project including land, right-of-way, consultants, contractors, District staff time, etc. All prior years' costs are part of the total cost and dollars are rounded up to the nearest \$1,000.

Description of Project: A brief description of a project which typically includes size, length, capacity, etc.

Justification of Project: A brief explanation of why a project is required which addresses flexibility, reliability, water quality, safety, contractual obligation, immediate growth, etc., as appropriate.

Comments: Pertinent information that should be known about a project that is not shown elsewhere on the project sheet.

Funding Detail: The funding sources are listed along with the percentage of distribution to expansion, betterment, and/or replacement.

Expenditure Schedule: The breakdown of a project's expenditures by fiscal year – prior years' cost along with a six-year budget schedule. Included in each year are all costs to complete the work scheduled in that year rounded up to the nearest \$1,000.

Project Schedule: The schedule of the primary project phase shown with the estimated start date (month/year) and finish date (month/year). The schedule time frames must correspond with the expenditure schedule information.

Project Incremental Operation Expenditures: To determine the cost to maintain these new assets, the District looks at the cost of maintaining similar assets through the Infrastructure Management System and financial system. Costs are tracked by three main infrastructure asset groups of pipes, pump stations, and reservoirs, as well as capital purchases and other types. Pipes typically have only operation and maintenance (O&M) costs associated with them, pump stations have O&M as well as power cost, and reservoirs have O&M and chemical cost. Each of the capital purchases and other types has its own unique O&M cost. See page 27-28 for a further explanation of these expenditures.

Project Location: A vicinity map is drawn in AutoCAD format using the GIS database as the foundation showing the approximate location and limits of a project within the District. Some projects do not have a specific location. In this case, a map of the entire District will then be shown as the project location.

Thomas Bros. Map: The Thomas Brothers' map page is inserted in this field to show where the project is primarily located. Some projects do not have a specific location in which case the words "District-wide" will be shown.

OWD Map Book: The page in the District’s facility map book where a project is primarily located. Some projects do not have a specific location in which case the words “District-wide” will be shown.

Submitted By: The project manager who originally submitted or the project manager who revised the project sheet along with the date of submittal or last revision date of the CIP project sheet.



Water level locator inside the 640 Reservoir

CIP PROJECT INDEX

CIP No.	PROJECT DESCRIPTION	PAGE
CAPITAL FACILITY PROJECTS		
P2009	PL - 36-Inch, SDCWA Otay FCF No. 14 to Regulatory Site	37
P2033	PL - 16-Inch, 1296 Zone, Melody Road - Campo/Presilla	39
P2038	PL - 12-Inch, 978 Zone, Jamacha, Hidden Mesa, and Chase Upsize and Replacements	41
P2040	Res - 1655-1 Reservoir 0.5 MG	43
P2129	Groundwater Exploration Program	45
P2143	Res - 1296-3 Reservoir 2 MG	47
P2172	PS - 1485-1 Pump Station Replacement	49
P2185	Res - 640-1 Reservoir 20.0 MG	51
P2190	PL - 10-Inch, 1485 Zone, Jamul Highlands Road to Presilla Drive	53
P2191	Res - 850-4 Reservoir 2.2 MG	55
P2318	PL - 20-Inch, 657 Zone, Summit Cross-Tie and 36-Inch Main Connections	57
P2387	PL - 12-Inch, 832 Zone, Steele Canyon Road - Via Caliente/Campo	59
P2450	Otay River Groundwater Well Demineralization/Development	61
P2451	Rosarito Desalination Facility Conveyance System	63
P2457	Otay Mountain Groundwater Well Development	65
P2460	I.D. 7 Trestle and Pipeline Demolition	67
P2462	Otay River Demineralization Feasibility Study	69
P2463	South Bay Regional Concentrate Conveyance Feasibility Study	71
P2464	San Diego 17 Pump Station and Flow Control Facility	73
P2465	Regulatory Site Material Storage Bins	75
P2466	Regional Training Facility	77
P2467	San Diego Formation Groundwater Feasibility Study	79
P2471	850/657 PRS at La Presa Pump Station	81
P2472	Water Supply Feasibility Studies	83
P2473	PS - 711-1 Pump Station Improvement	85
P2474	Fuel Storage Covers and Containment	87
P2475	Pump Station Fire Safety Improvements	89
P2476	Dis - 1090-1 Pump Station Disinfection System Upgrade	91
P2477	Res - 624-1 Reservoir Cover Replacement	93
R2034	RecRes - 860-1 Reservoir 4 MG	95
R2048	RecPL - Otay Mesa Distribution Pipelines and Conversions	97
R2053	RWCWRF - R.O. Building Remodel and Office Furniture	99
R2058	RecPL - 16-Inch, 860 Zone, Airway Road - Otay Mesa/Alta	101
R2077	RecPL - 24-Inch, 860 Zone, Alta Road - Alta Gate/Airway	103
R2081	RecPL - 20-Inch, 944 Zone, Lane Avenue - Proctor Valley/Pond No. 1	105
R2087	RecPL - 20-Inch, 944 Zone, Wueste Road - Olympic/Otay WTP	107
R2088	RecPL - 20-Inch, 860 Zone, County Jail - Roll Reservoir/860-1 Reservoir	109
R2089	North District Recycled Water Regulatory Compliance	111
R2091	RecPS - 944-1 Pump Station Upgrade	113
R2092	Dis - 450-1 Reservoir Disinfection Facility	115
R2093	MBR City of Chula Vista	117
S2016	Solar Panel Installation Phase I	119
REPLACEMENT/RENEWAL PROJECTS		
P2356	PL - 12-Inch, 803 Zone, Jamul Drive Permastran Pipeline Replacement	121
P2366	APCD Engine Replacements and Retrofits	123
P2382	Safety and Security Improvements	125
P2416	SR-125 Utility Relocations	127

CIP PROJECT INDEX

CIP No.	PROJECT DESCRIPTION	PAGE
P2422	Agency Interconnections	129
P2440	I-905 Utility Relocations	131
P2441	NG/RAMAR Meter Replacements	133
P2453	SR-11 Utility Relocations	135
P2456	Air and Vacuum Valve Upgrades	137
P2458	AMR Manual Meter Replacement	139
R2086	RWCWRF Force Main AirVac Replacements and Road Improvements	141
S2012	SVSD Outfall and RSD Replacement and OM Reimbursement	143
S2015	Calavo Lift Station Replacement	145
CAPITAL PURCHASE PROJECTS		
P2282	Vehicle Capital Purchases	147
P2285	Office Equipment and Furniture Capital Purchases	149
P2286	Field Equipment Capital Purchases	151
P2443	Information Technology Mobile Services	153
P2461	Records Management System Upgrade	155
P2469	Information Technology Network and Hardware	157
P2470	Application Systems Development and Integration	159
P2478	Administration Building Engine/Generator Set	161
DEVELOPER REIMBURSEMENT PROJECTS		
P2134	PL - 16-Inch, 711 Zone, Birch Road - SR 125/EastLake	163
P2414	PL - 12" to 16" Oversize, 803 Zone, Dehesa Road - Dehesa Meadow/OWD Bndy	165
R2033	RecPL - 12-Inch, 944 Zone, Birch Road - La Media/EastLake	167

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Capital Facility Projects



**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2009

PROJECT TITLE: PL - 36-Inch, SDCWA Otay FCF No. 14 to Regulatory Site

WORK ORDER NO:	Various	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	3
ORIGINAL APPROVED DATE:	7/16/1997	PRIORITY:	1
RELATED CIP PROJECTS:	P2038	BUDGET AMOUNT:	\$22,000,000

DESCRIPTION OF PROJECT:

Construction of approximately 25,500 feet of 36-inch pipeline from San Diego County Water Authority Otay FCF No. 14 to the Regulatory Site and fund 50% of the cost to upgrade FCF No. 14 to a capacity of 16 million gallons per day.

JUSTIFICATION OF PROJECT:

The East County Regional Treated Water Improvement Program (ECRTWIP) Agreement was approved by Otay WD Board in December 2005 and by the San Diego County Water Authority (SDCWA) Board in February 2006. Per terms of the agreement Otay WD is obligated to construct the pipeline by March 1, 2010 and SDCWA is have operational FCF No. 14 as well.

COMMENTS:

The San Diego County Water Authority (SDCWA) will provide \$4.2 million in funds towards construction the pipeline. The cost estimate includes the payment of \$775,000 to SDCWA. See Work Order Nos. 2102 and 30136.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
North District Storage	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,850	\$8,000	\$11,450	\$700				\$22,000

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2009

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/97	10/07
DESIGN:	11/07	10/08
CONSTRUCTION:	11/08	07/10

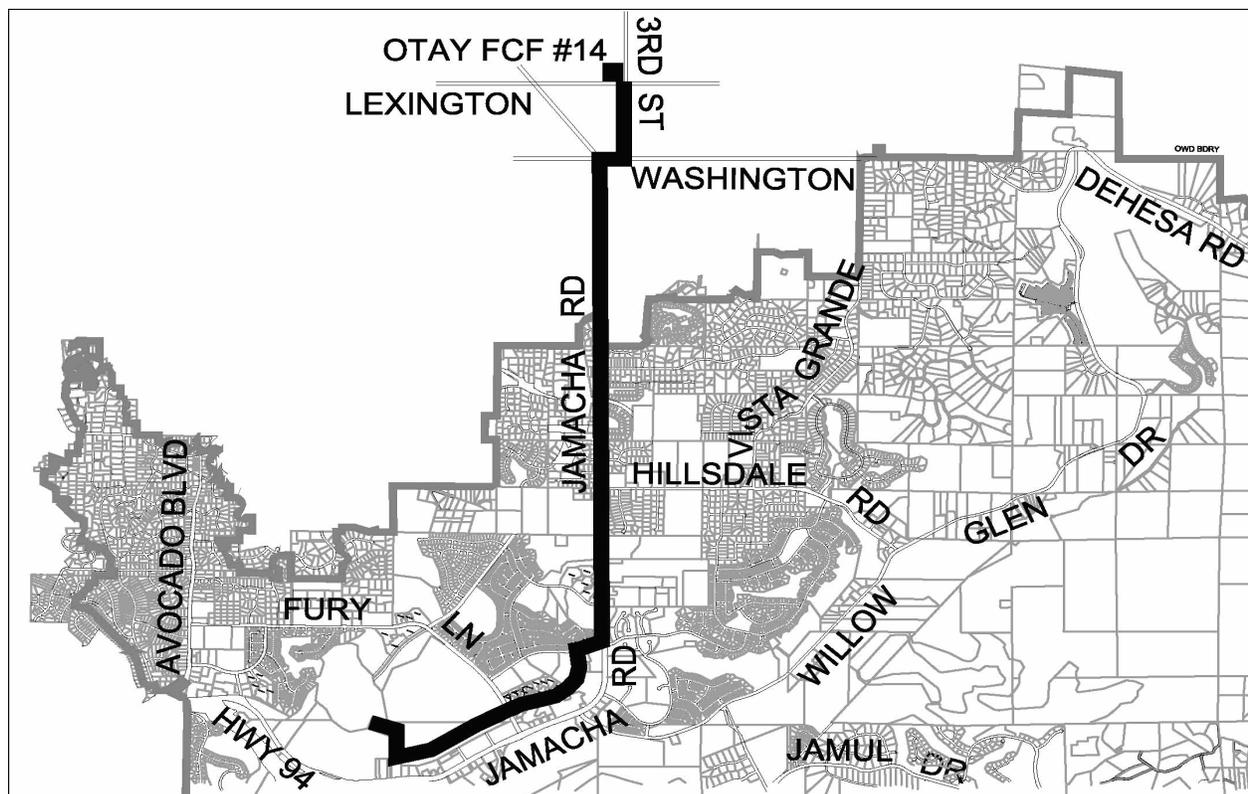
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
		\$8,700	\$9,000	\$9,300	\$9,600	\$36,600

PROJECT LOCATION:

Thomas Bros. Map: 1272

OWD Map Book: 356



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2033

PROJECT TITLE: PL - 16-Inch, 1296 Zone, Melody Road - Campo/Presilla

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	9
ORIGINAL APPROVED DATE:	5/23/2005	PRIORITY:	2
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$1,826,000

DESCRIPTION OF PROJECT:

Construction of approximately 6,400 feet of 16-inch main within the 1296 Pressure Zone generally along the direction of Melody Road from Campo Road to Presilla Drive.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development within the Rancho Jamul Estates and surrounding areas within the 1296 and higher pressure zones.

COMMENTS:

This project will be coordinated with the proposed Peaceful Valley Ranch development project.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$5	\$2	\$150	\$1,000	\$669			\$1,826

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2033

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/05	10/08
DESIGN:	11/08	06/10
CONSTRUCTION:	07/10	06/12

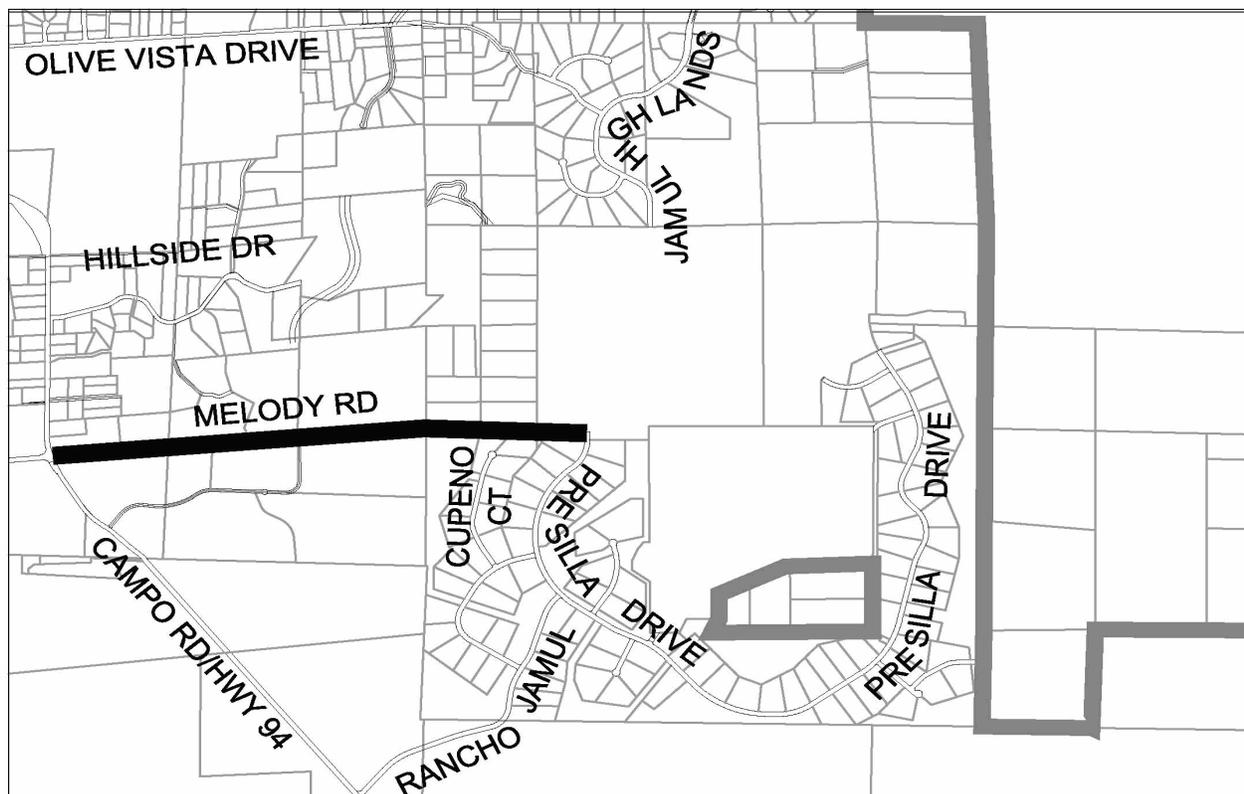
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
				\$2,200	\$2,300	\$4,500

PROJECT LOCATION:

Thomas Bros. Map: 1293

OWD Map Book: 309



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2038

PROJECT TITLE: PL - 12-Inch, 978 Zone, Jamacha, Hidden Mesa, and Chase Upsize and Replacements

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Kay	I.D. LOCATION:	3
ORIGINAL APPROVED DATE:	7/16/1997	PRIORITY:	1
RELATED CIP PROJECTS:	P2009	BUDGET AMOUNT:	\$2,400,000

DESCRIPTION OF PROJECT:

Construction of approximately 8,600 feet of 12-inch pipeline located within Jamacha Road, Hidden Mesa Road, and Chase Avenue. This project includes construction of a looped system between Hidden Mesa Road and Penasco Road.

JUSTIFICATION OF PROJECT:

The existing pipelines in Chase Avenue and Jamacha Boulevard are undersized and the existing pipeline in Hidden Mesa Road is deteriorated steel pipe that needs to be replaced and located within the roadway right-of-way away from the existing residences.

COMMENTS:

The Jamacha Road portion of this project is intended to be designed and constructed as part of CIP project P2009.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 3		50%	50%	100%
TOTAL:		50%	50%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$500	\$900	\$1,000					\$2,400

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2038

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/05	06/06
DESIGN:	07/06	03/08
CONSTRUCTION:	04/08	07/09

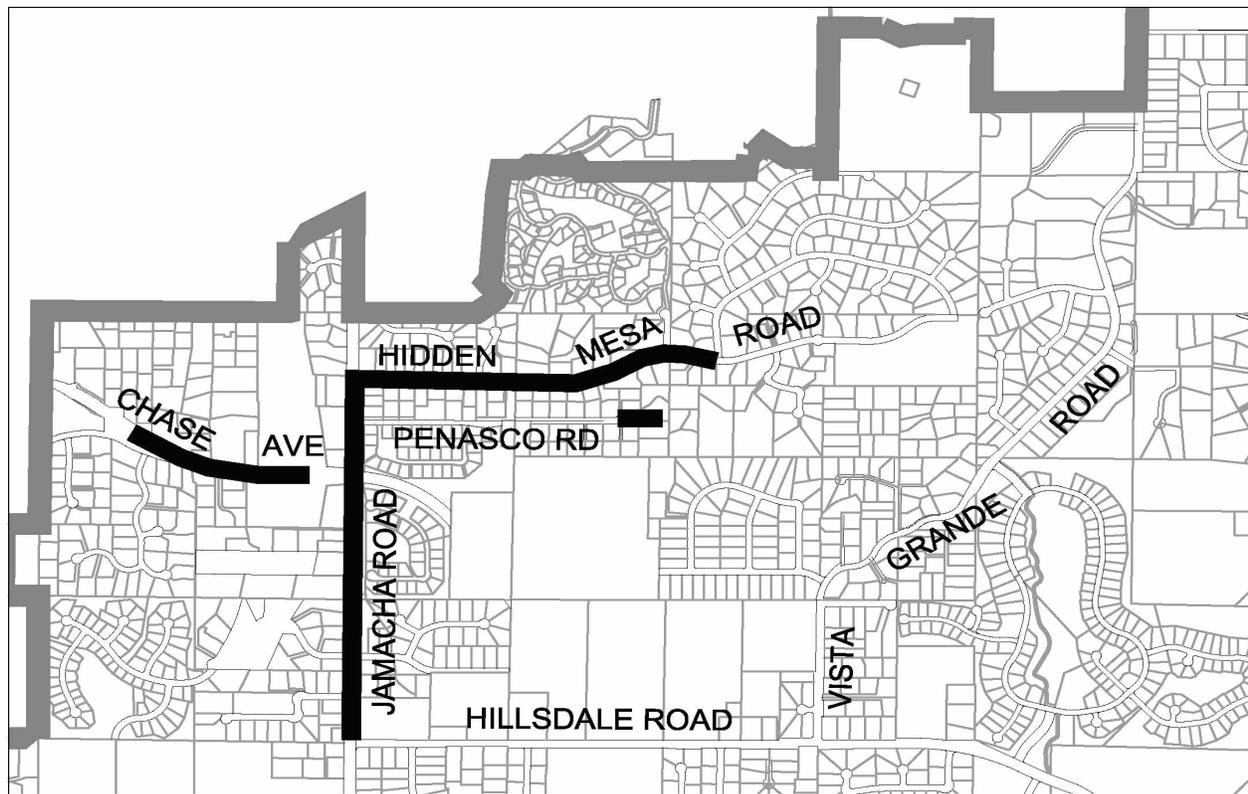
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

| FY |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | TOTAL |
| | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$7,500 |

PROJECT LOCATION:

Thomas Bros. Map: 1272

OWD Map Book: 368



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2040

PROJECT TITLE: Res - 1655-1 Reservoir 0.5 MG

WORK ORDER NO:	Various	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	8/19/1992	PRIORITY:	2
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$2,055,000

DESCRIPTION OF PROJECT:

Construction of a 0.5 million gallon reservoir and approximately 1,500 feet of 12-inch pipeline to connect to the existing system in Presilla Drive. These improvements are located within the Rancho Jamul Estates area.

JUSTIFICATION OF PROJECT:

The project will increase system reliability, increase service capabilities, and provide adequate fire protection for the Rancho Jamul Estates area within the 1655 Pressure Zone. The existing system is currently served with a hydropneumatic pump station.

COMMENTS:

See Work Order Nos. 2106 and 8893.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 9		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$475	\$1	\$1	\$83	\$700	\$795		\$2,055

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2040

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/93

06/97

DESIGN:

07/97

06/10

CONSTRUCTION:

07/10

12/12

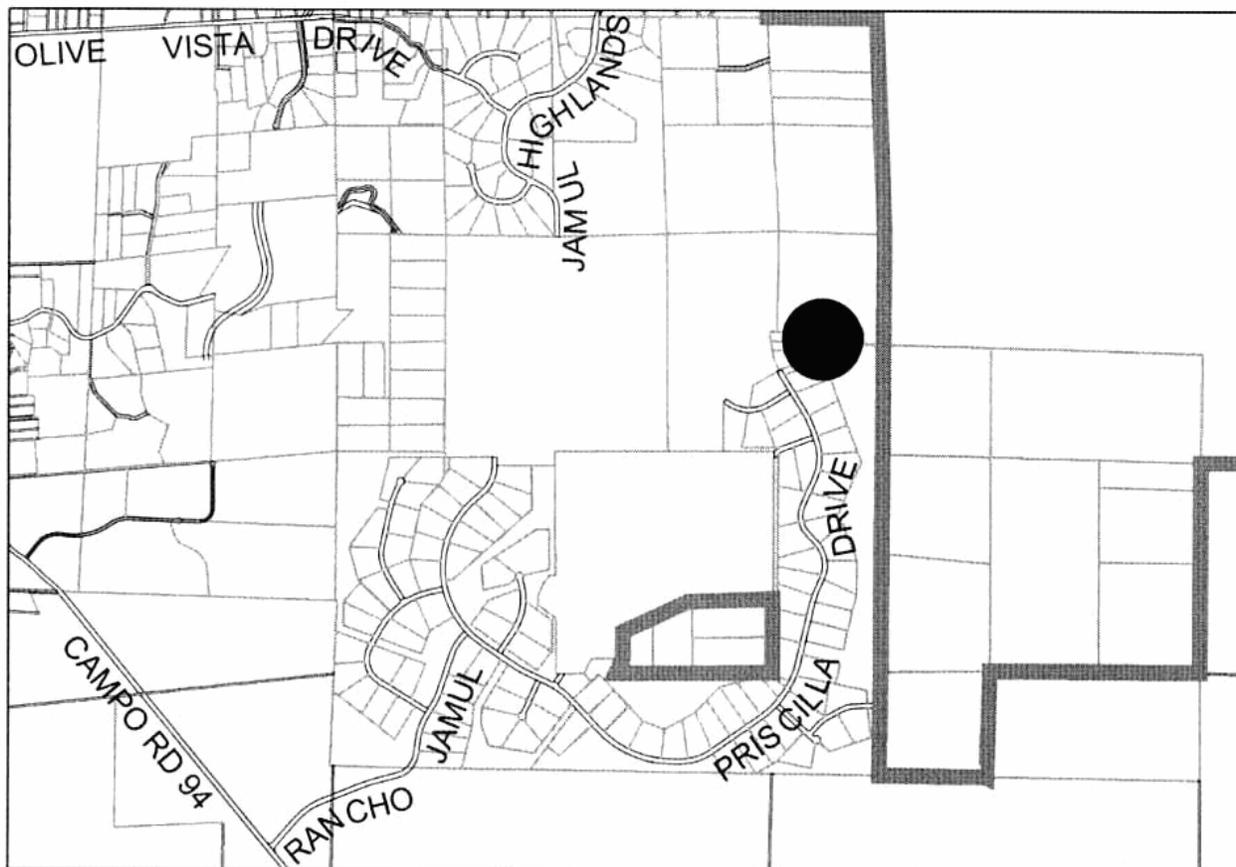
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
				\$500	\$900	\$1,400

PROJECT LOCATION:

Thomas Bros. Map: 1293

OWD Map Book: 310



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2129

PROJECT TITLE: Groundwater Exploration Program

WORK ORDER NO:	Various	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	6/15/1994	PRIORITY:	2
RELATED CIP PROJECTS:	P2348, P2434, P2450, P2457	BUDGET AMOUNT:	\$2,530,000

DESCRIPTION OF PROJECT:

This project funds the planning, exploration, and preliminary investigation of groundwater wells, pumping, treatment requirements, etc., throughout the Otay WD. Once specific projects are established for design and construction, they will be set up as separate CIP projects.

JUSTIFICATION OF PROJECT:

Groundwater wells may play an important role in the Otay WD water supply diversification and reliability goals. They can also reduce the Otay WD dependence on imported water by creating a local source for irrigation and/or potable water.

COMMENTS:

See Work Order Nos. 2354, 8399, 8415, 8911, and 9155.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$560	\$10	\$10	\$15	\$25	\$630	\$1,280	\$2,530

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2129

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/95

06/14

DESIGN:

CONSTRUCTION:

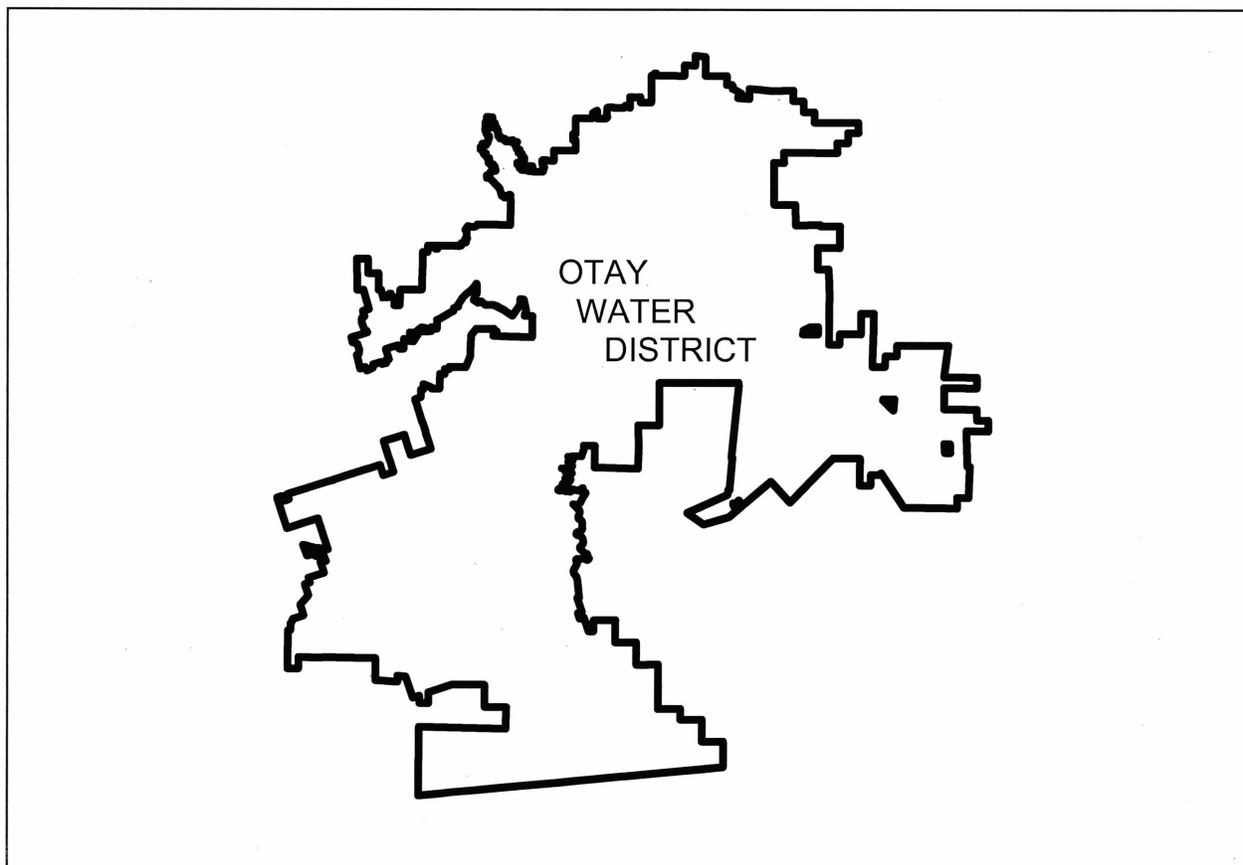
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2143

PROJECT TITLE: Res - 1296-3 Reservoir 2 MG

WORK ORDER NO:	Various	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Kay	I.D. LOCATION:	9
ORIGINAL APPROVED DATE:	5/17/1995	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$3,640,000

DESCRIPTION OF PROJECT:

Construction of a 2 million gallon steel reservoir on Otay WD property adjacent to the Otay WD existing 1296-1 and 1296-2 Reservoirs at the west terminus of Bear Mountain Way.

JUSTIFICATION OF PROJECT:

This project will provide additional storage in the 1296 Pressure Zone. The 1296 Pressure Zone has an existing storage deficiency of about 0.3 million gallons. An additional 12 million gallons of storage is projected to be required at ultimate development.

COMMENTS:

See Work Order Nos. 2394 and 30106.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$475	\$1,900	\$1,265					\$3,640

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2143

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	11/01	05/07
DESIGN:	06/07	08/08
CONSTRUCTION:	09/08	06/10

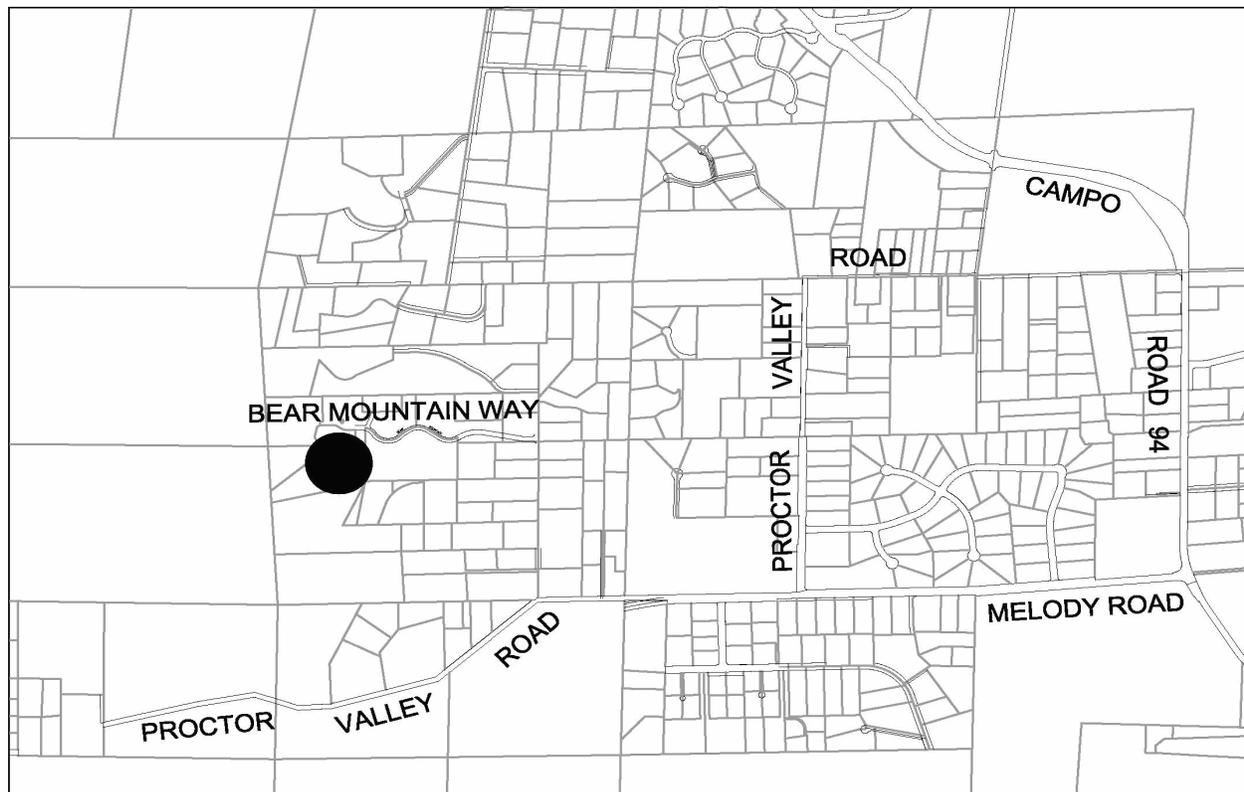
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014		
		\$3,800	\$3,900	\$4,000	\$4,100		\$15,800

PROJECT LOCATION:

Thomas Bros. Map: 1292

OWD Map Book: 307



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2172

PROJECT TITLE: PS - 1485-1 Pump Station Replacement

WORK ORDER NO:	Various	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Kay	I.D. LOCATION:	9
ORIGINAL APPROVED DATE:	6/16/1993	PRIORITY:	1
RELATED CIP PROJECTS:	P2028	BUDGET AMOUNT:	\$2,375,000

DESCRIPTION OF PROJECT:

Construction of a new pump station to replace the existing pump station and to expand capacity as projected within the Water Resources Master Plan.

JUSTIFICATION OF PROJECT:

The existing pump station is near capacity and has reached the end of its useful life. The improved pump station systems and additional capacity are required to meet projected demands of the 1485 and higher pressure zones.

COMMENTS:

See Work Order Nos. 8212 and 30138.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 9		50%	50%	100%
TOTAL:		50%	50%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$400	\$1,125	\$850					\$2,375

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2172

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/01

06/07

DESIGN:

07/07

07/08

CONSTRUCTION:

08/08

06/10

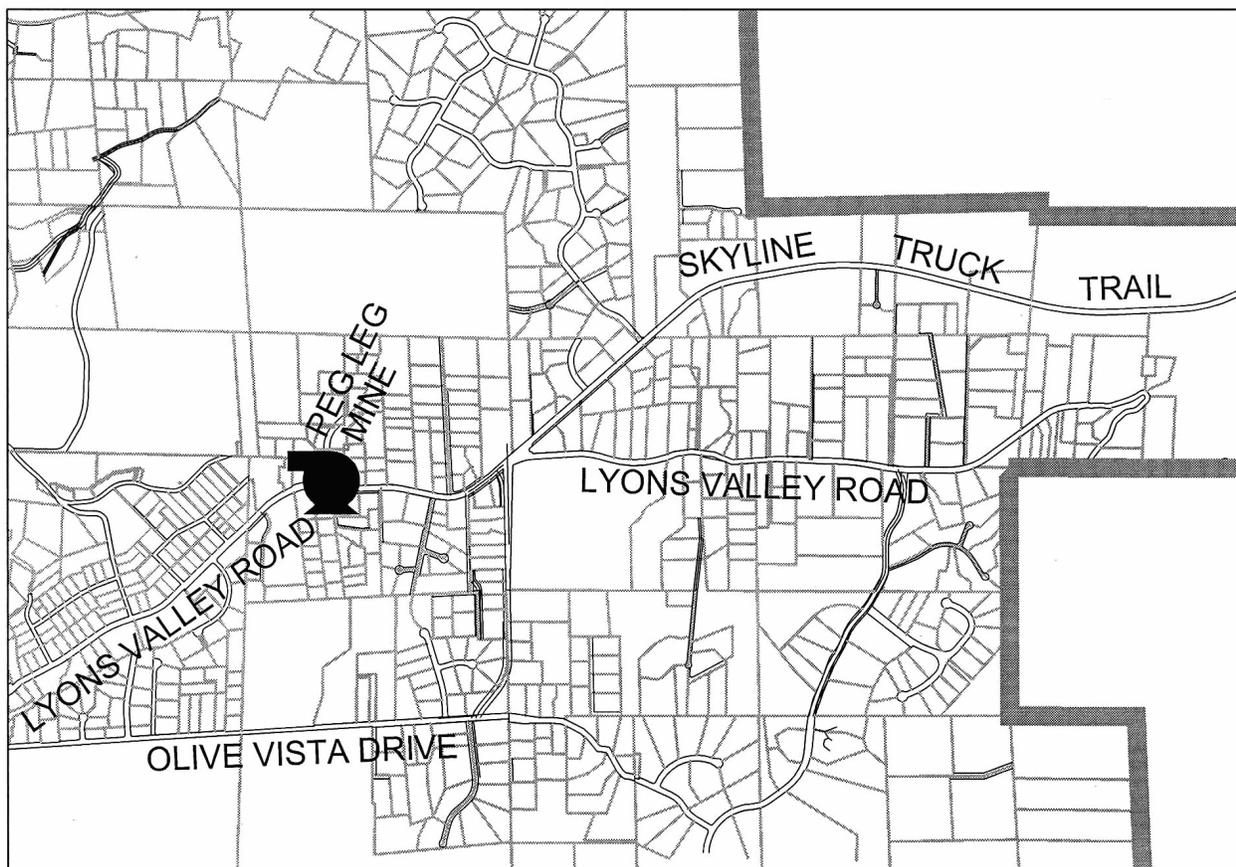
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
		\$7,400	\$7,600	\$7,800	\$8,000	\$30,800

PROJECT LOCATION:

Thomas Bros. Map: 1272

OWD Map Book: 323



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2185

PROJECT TITLE: Res - 640-1 Reservoir 20.0 MG

WORK ORDER NO:	Various	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	8/19/1992	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$28,500,000

DESCRIPTION OF PROJECT:

This project consists of two 10 million gallon structures where one will provide operational storage for ultimate projected demand conditions for the planned La Presa System 640 Pressure Zone. The other 10 million gallon reservoir will provide emergency storage for the North District systems.

JUSTIFICATION OF PROJECT:

Storage for the La Presa System is needed to correct existing substantial deficiencies and to operate in conjunction with the existing 36-inch transmission pipeline to prevent depressurization of the La Presa System. The reservoirs will provide higher suction pressures to the 803-1 Pump Station and 832-1 Pump Station resulting in significant energy savings. The 640 Reservoir storage is required to be able to meet the 10,000 acre-feet per year take requirement from the Helix WD Levy WTP per terms of the ECRTWIP agreement.

COMMENTS:

See Work Order Nos. 2107, 2807, and 30018.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	53%	47%		100%
TOTAL:	53%	47%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$24,600	\$3,900						\$28,500

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2185

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

11/91

08/04

DESIGN:

09/04

11/06

CONSTRUCTION:

12/06

06/09

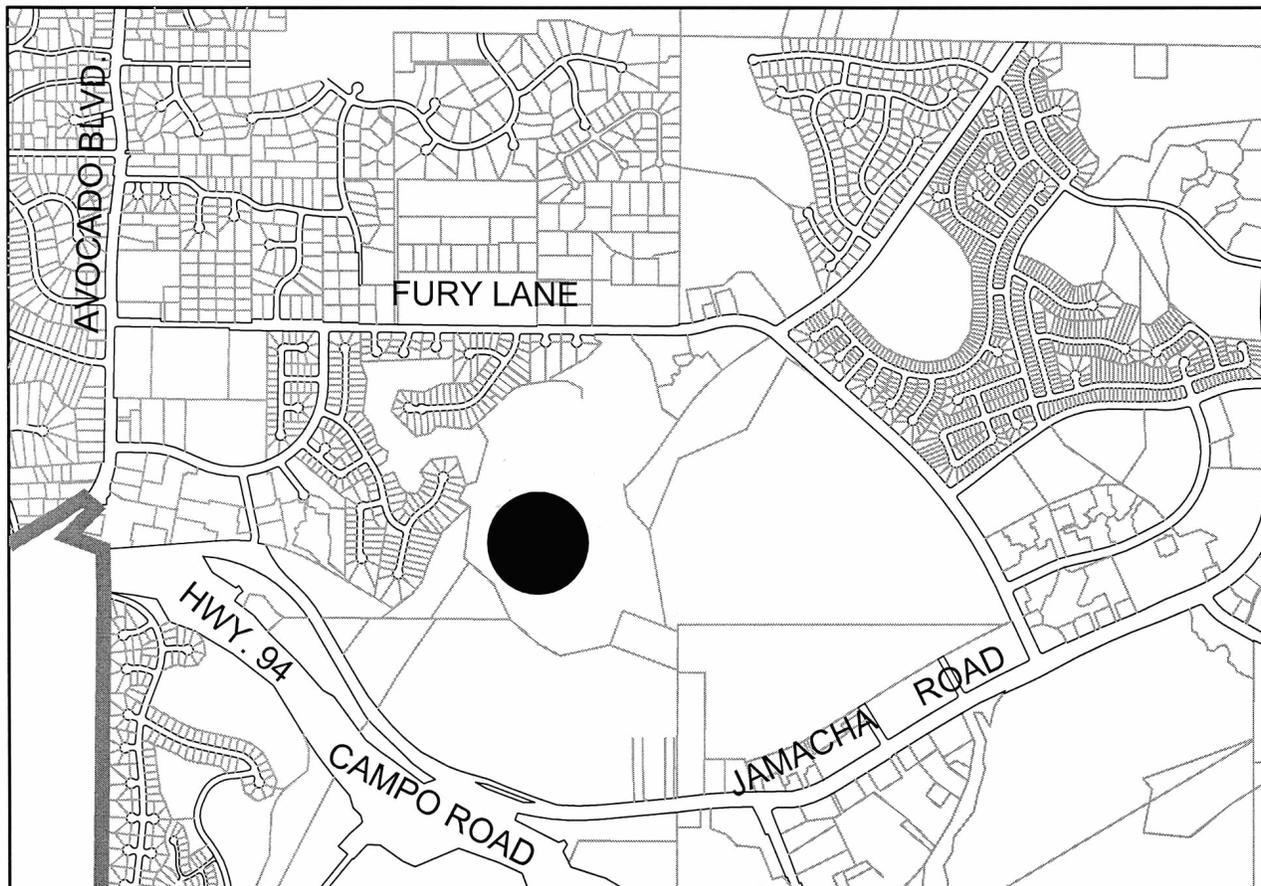
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
	\$37,600	\$17,900	\$37,600	\$38,700	\$39,900	\$171,700

PROJECT LOCATION:

Thomas Bros. Map: 1271

OWD Map Book: 343



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2190

PROJECT TITLE: PL - 10-Inch, 1485 Zone, Jamul Highlands Road to Presilla Drive

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	9
ORIGINAL APPROVED DATE:	5/23/2005	PRIORITY:	2
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$228,000

DESCRIPTION OF PROJECT:

Construction of approximately 1,300 feet of 10-inch pipeline within the 1485 Pressure Zone located in Jamul Highlands Road to the future extension of Presilla Drive.

JUSTIFICATION OF PROJECT:

The project will increase system reliability by providing a loop system, increase service capabilities, and insure adequate fire protection for the Rancho Jamul Estates area. The project is planned to coincide with the development of Rancho Jamul Estates Unit No. 3 and surrounding land areas.

COMMENTS:

This project is to coincide with development of Rancho Jamul Estates Unit No. 3 and/or other nearby land areas.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 9		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$4	\$5	\$5	\$120	\$94			\$228

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2190

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/05

06/07

DESIGN:

07/07

06/10

CONSTRUCTION:

07/10

06/12

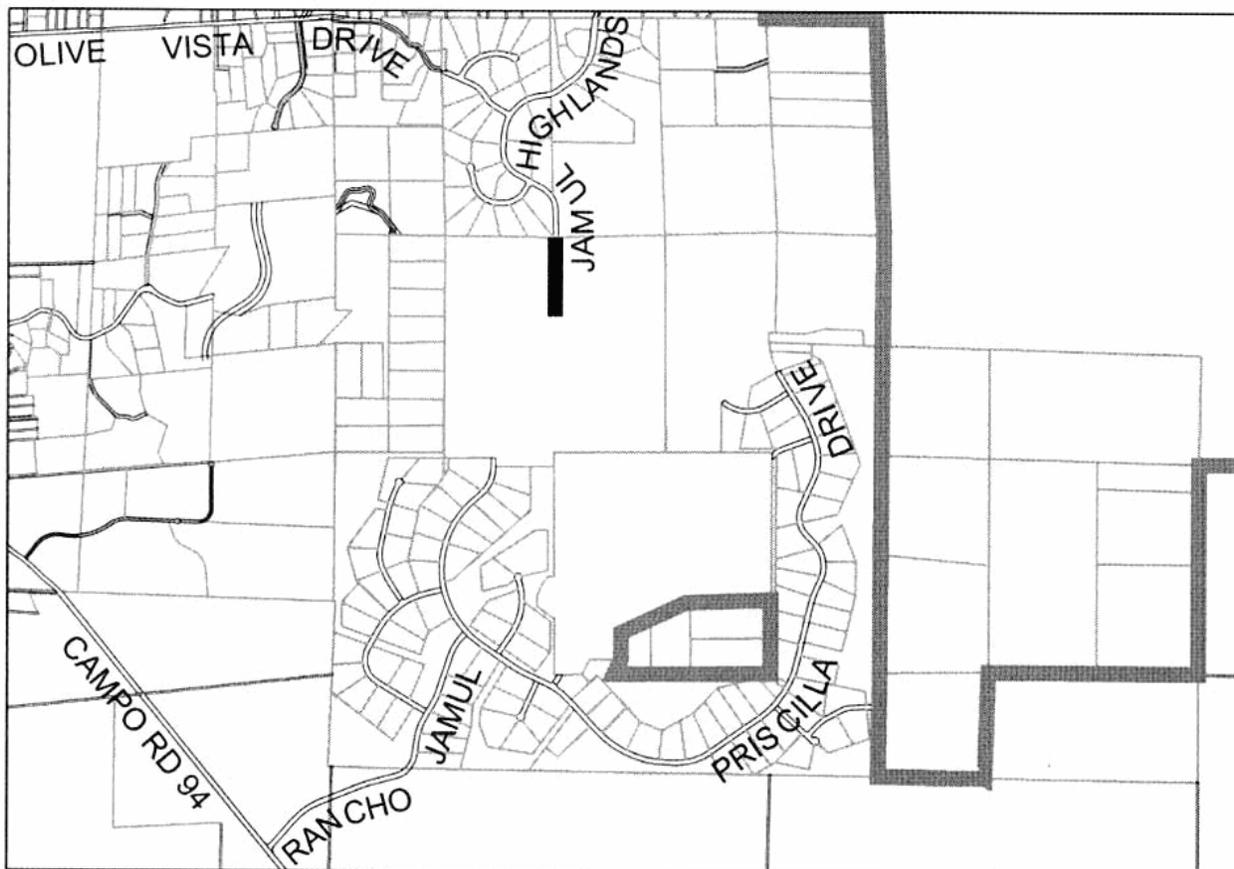
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
				\$400	\$400	\$800

PROJECT LOCATION:

Thomas Bros. Map: 1293

OWD Map Book: 310



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2191

PROJECT TITLE: Res - 850-4 Reservoir 2.2 MG

WORK ORDER NO:	Various	DIRECTOR DIVISION:	3
PROJECT MANAGER:	Kay	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	7/16/1997	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$3,250,000

DESCRIPTION OF PROJECT:

Construction of a 2.2 million gallon steel reservoir on Otay WD property adjacent to the existing 850-2 Reservoir in the La Presa System 850 Pressure Zone. The project is located at the South terminus of Ledge Avenue in Spring Valley.

JUSTIFICATION OF PROJECT:

This project is required to increase operational, emergency, and fire storage in the 850 Pressure Zone. The 850 Pressure Zone storage is currently at capacity and will require this additional storage volume to meet the projected ultimate storage volume.

COMMENTS:

See Work Order Nos. 8808 and 8943.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	27%	73%		100%
TOTAL:	27%	73%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,100	\$1,950	\$200					\$3,250

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2191

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/03

12/04

DESIGN:

01/05

12/07

CONSTRUCTION:

01/08

12/09

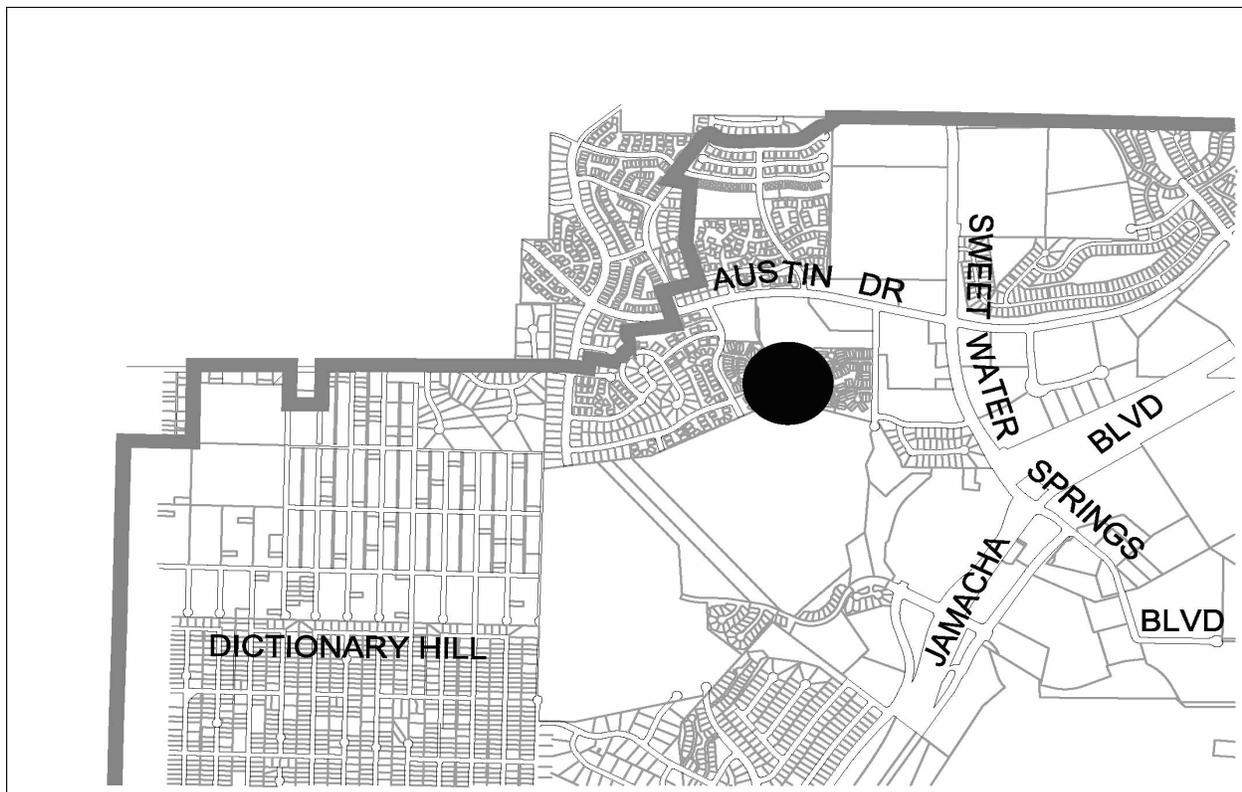
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
	\$2,100	\$4,300	\$4,400	\$4,500	\$4,600	\$19,900

PROJECT LOCATION:

Thomas Bros. Map: 1291

OWD Map Book: 317



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2318

PROJECT TITLE: PL - 20-Inch, 657 Zone, Summit Cross-Tie and 36-Inch Main Connections

WORK ORDER NO:	DIRECTOR DIVISION: 3
PROJECT MANAGER: Ripperger	I.D. LOCATION: 1
ORIGINAL APPROVED DATE: 7/16/1997	PRIORITY: 1
RELATED CIP PROJECTS: P2185, P2370	BUDGET AMOUNT: \$601,000

DESCRIPTION OF PROJECT:

Construction of a 20-inch pipeline between the two existing 18-inch mains to allow for bypass of the existing 36-inch transmission main near the old San Diego County Water Authority Otay FCF No. 5 that was on Pipeline No. 3. Also includes construction of several system connections to the existing 36-inch transmission main within the La Presa System.

JUSTIFICATION OF PROJECT:

This will provide adequate and enhanced pipeline transmission capacity, increase reliability, and provide operational flexibility for the existing La Presa System network. This project is required when the 640 Reservoirs become operational.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
North District Fee		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$57	\$200	\$344					\$601

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2318

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

11/97

11/07

DESIGN:

12/07

05/09

CONSTRUCTION:

06/09

06/10

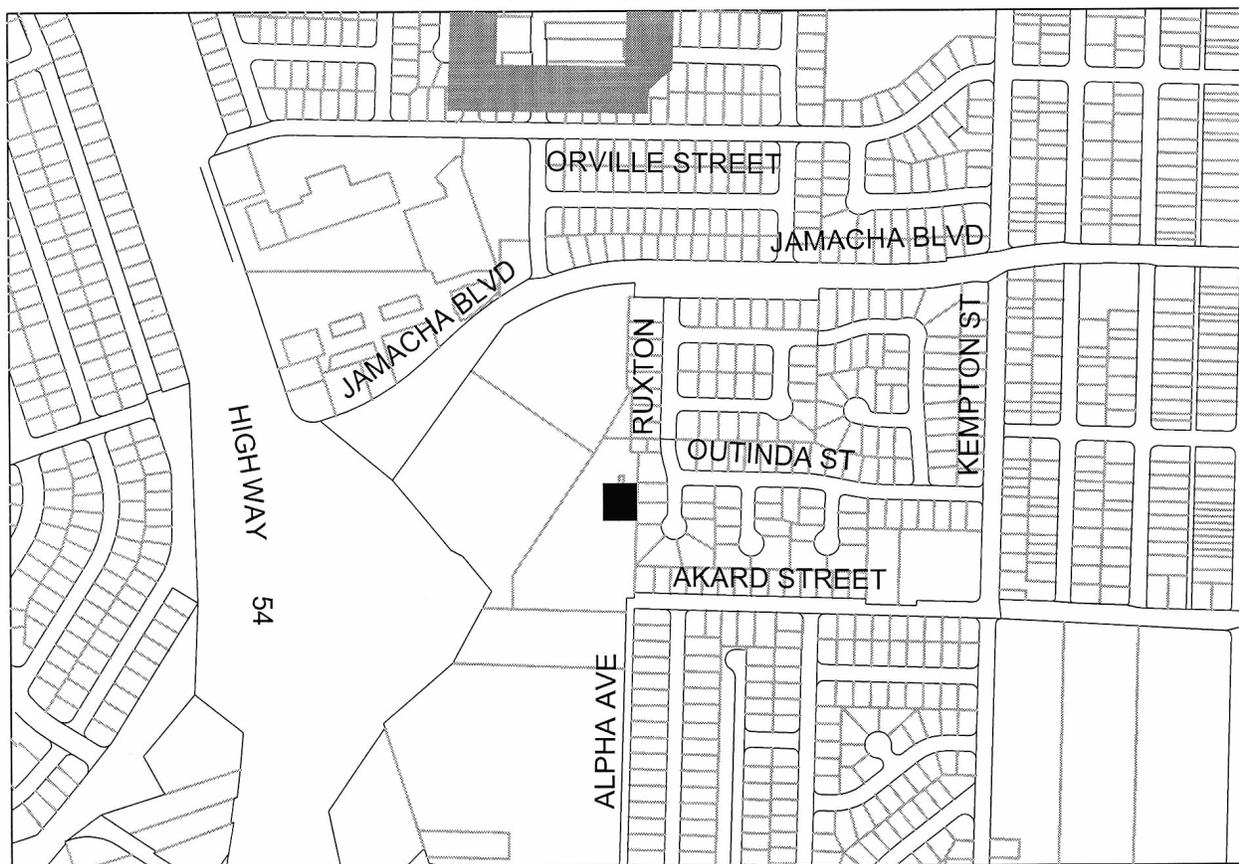
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
		\$100	\$100	\$100	\$100	\$400

PROJECT LOCATION:

Thomas Bros. Map: 1291

OWD Map Book: 198



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2387

PROJECT TITLE: PL - 12-Inch, 832 Zone, Steele Canyon Road - Via Caliente/Campo

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Kay	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	6/5/2002	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$584,000

DESCRIPTION OF PROJECT:

Replacement of the existing 12-inch pipeline along Steele Canyon Road with approximately 1,800 feet of 12-inch main within the 832 Pressure Zone.

JUSTIFICATION OF PROJECT:

The existing pipeline is within front yards of several homes and it poses a potential threat to cause significant property damage.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 2		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$84	\$500						\$584

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2387

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/05	08/06
DESIGN:	09/06	03/08
CONSTRUCTION:	04/08	06/09

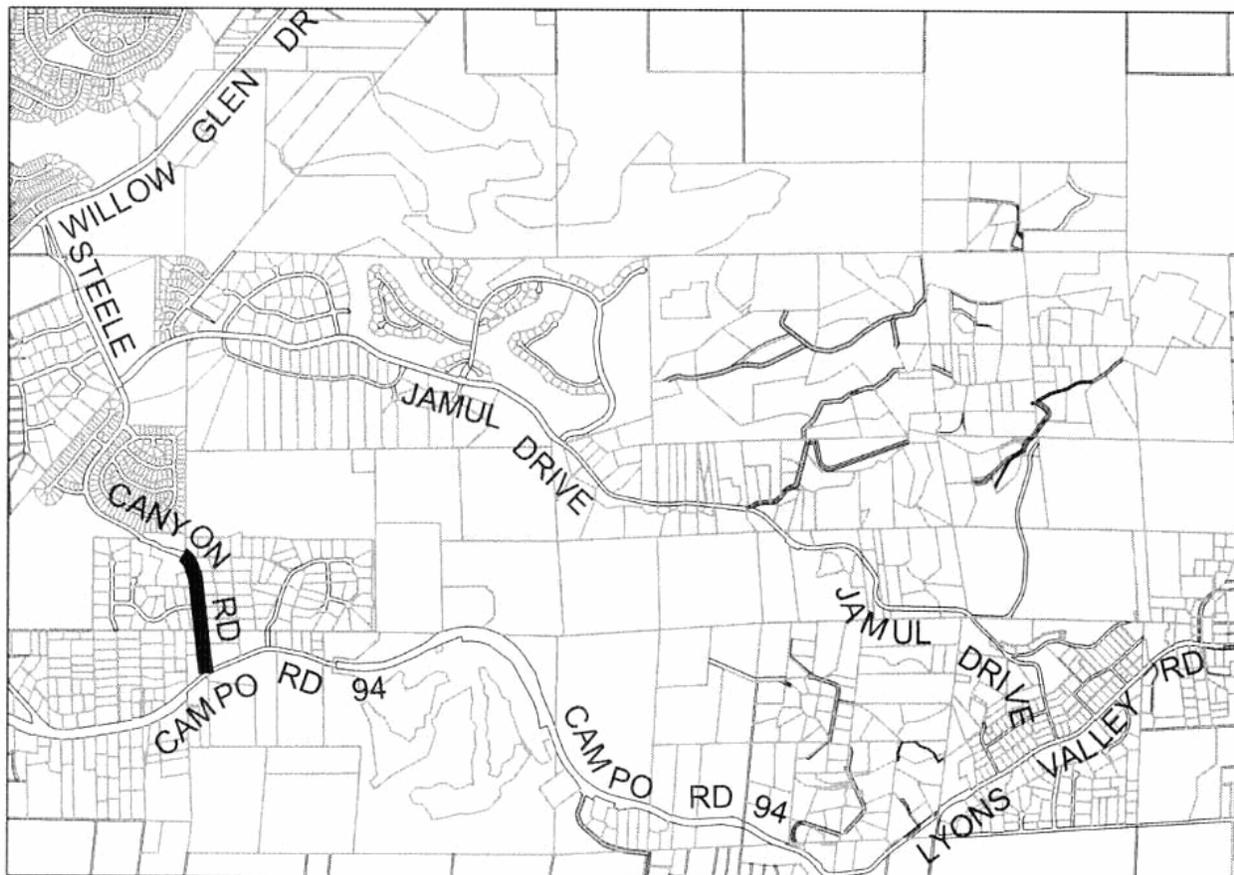
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
	\$600	\$600	\$600	\$600	\$600	\$3,000

PROJECT LOCATION:

Thomas Bros. Map: 1272

OWD Map Book: 321



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2450

PROJECT TITLE: Otay River Groundwater Well Demineralization/Development

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:	P2129, P2462	BUDGET AMOUNT:	\$5,000,000

DESCRIPTION OF PROJECT:

The Sweetwater Authority and Otay WD are investigating the possibility to develop a brackish water demineralization facility within the Otay River to produce say 5 million gallons per day of potable water.

JUSTIFICATION OF PROJECT:

This project will provide for a level of water supply independence from San Diego County Water Authority.

COMMENTS:

The Sweetwater Authority was awarded a Proposition 50 grant to help pay for 50% of the cost of the feasibility study.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$115	\$85	\$800	\$3,600	\$400		\$5,000

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2450

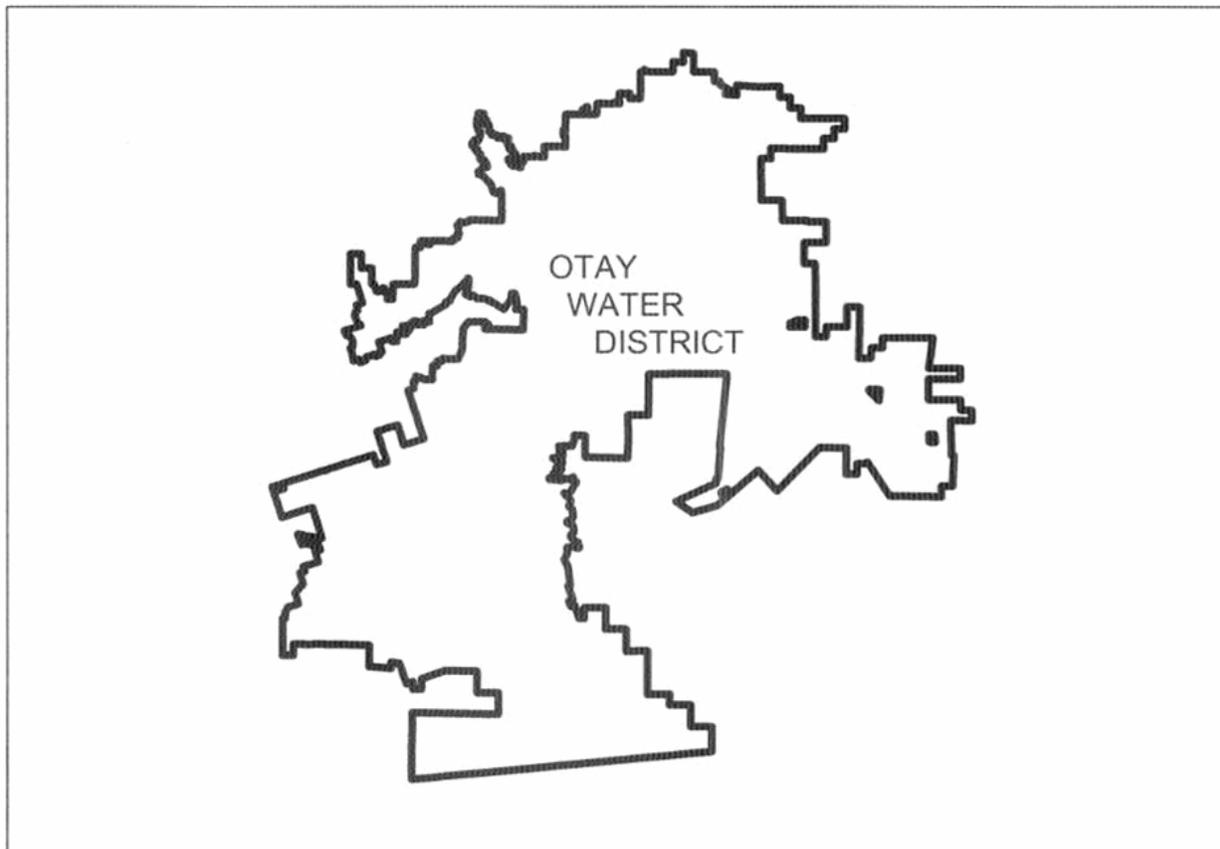
PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/07	06/10
DESIGN:	07/10	12/11
CONSTRUCTION:	01/12	06/13

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
					\$28,100	\$28,100

PROJECT LOCATION: **Thomas Bros. Map:** District Wide **OWD Map Book:** District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2451

PROJECT TITLE: Rosarito Desalination Facility Conveyance System

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$5,000,000

DESCRIPTION OF PROJECT:

The San Diego Region could potentially receive a potable water supply source from the planned Rosarito Desalination Facility via a conveyance system or an exchange arrangement.

JUSTIFICATION OF PROJECT:

The conveyance system or exchange concept could provide for a independent water source to the San Diego County Region.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$50	\$150	\$150	\$150	\$150	\$1,350	\$3,000	\$5,000

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2451

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/06

06/10

DESIGN:

07/10

12/11

CONSTRUCTION:

01/12

06/14

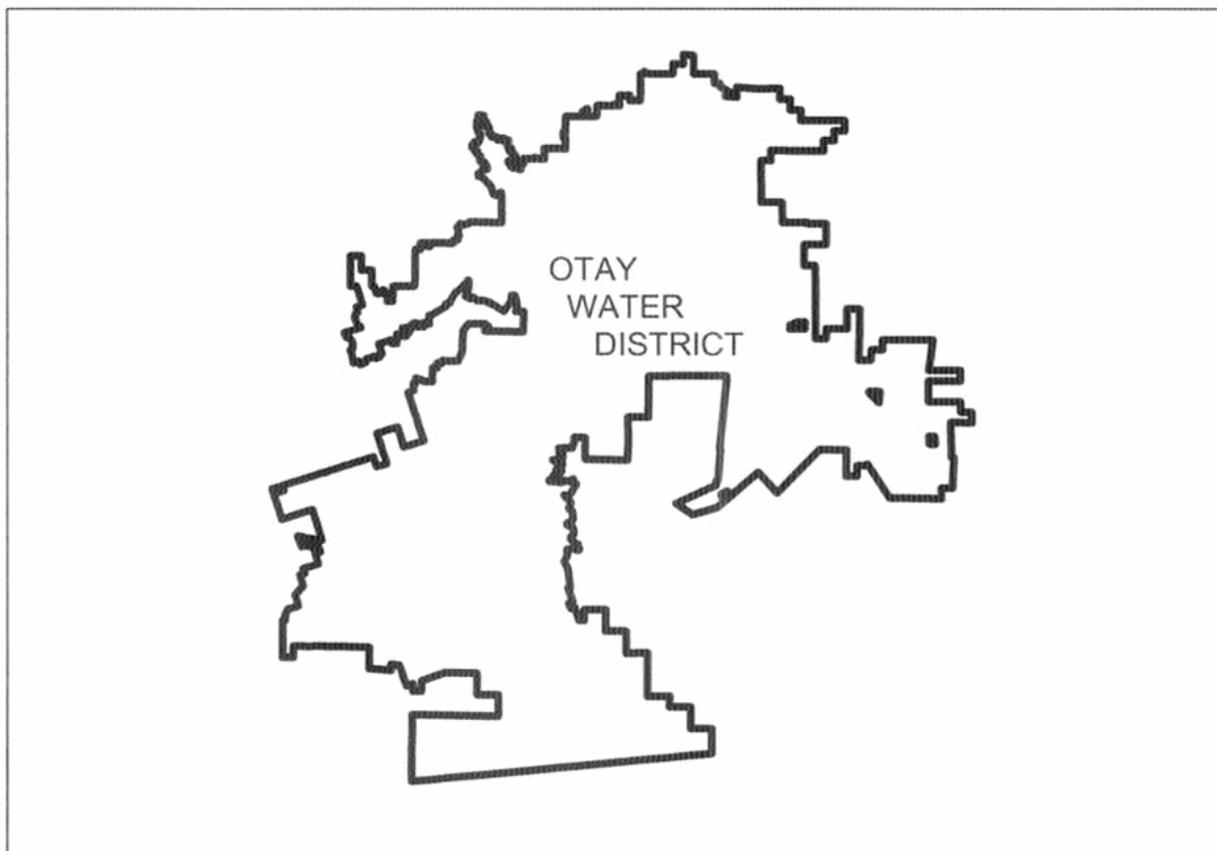
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2457

PROJECT TITLE: Otay Mountain Groundwater Well Development

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Peasley	I.D. LOCATION:	7
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	2
RELATED CIP PROJECTS:	P2129	BUDGET AMOUNT:	\$6,500,000

DESCRIPTION OF PROJECT:

This project is to provide funding for development of a potential groundwater production well on Otay Mesa near the foot of Otay Mountain.

JUSTIFICATION OF PROJECT:

The potential of an agreement for the development of a potable water production well could provide the possibility of an independent local water supply resource for the Otay WD.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$10	\$290	\$6,000	\$200			\$6,500

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2457

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

12/07

06/09

DESIGN:

07/09

09/10

CONSTRUCTION:

10/10

06/12

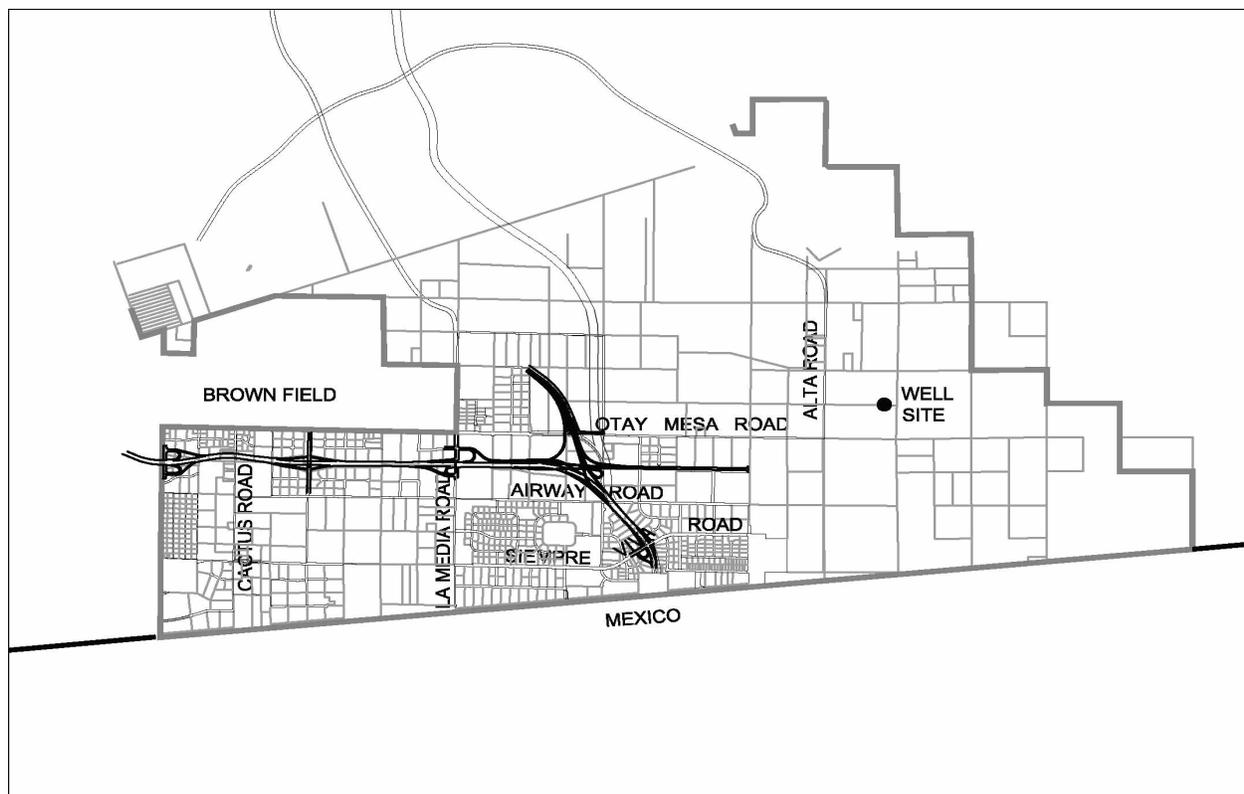
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
				\$11,200	\$11,500	\$22,700

PROJECT LOCATION:

Thomas Bros. Map: 1352

OWD Map Book: 27



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2460

PROJECT TITLE: I.D. 7 Trestle and Pipeline Demolition

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	7
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	2
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$376,000

DESCRIPTION OF PROJECT:

The proposed project is to remove the existing trestle and 24-inch pipeline that crosses the Otay River valley. This pipeline was the transmission main to supply water to the Otay Mesa System.

JUSTIFICATION OF PROJECT:

The existing pipeline is no longer in service and should be removed to address liability concerns. The Central Area-Otay Mesa Interconnection Pipeline supplies water to the Otay Mesa System.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1	\$20	\$55	\$300				\$376

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2460

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/07	10/08
DESIGN:	11/08	06/10
CONSTRUCTION:	07/10	06/11

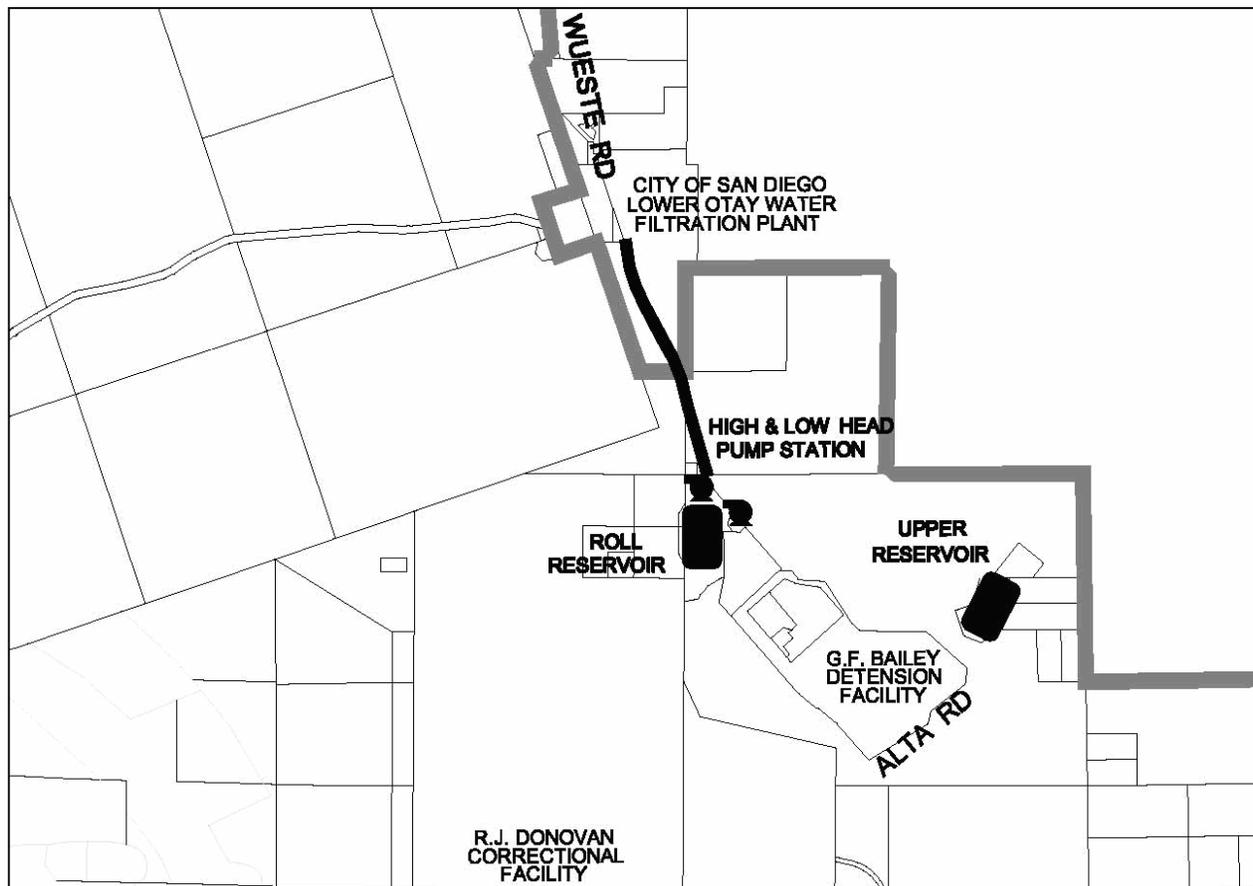
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014		

PROJECT LOCATION:

Thomas Bros. Map: 1332

OWD Map Book: 71



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2462

PROJECT TITLE: Otay River Demineralization Feasibility Study

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:	P2450	BUDGET AMOUNT:	\$200,000

DESCRIPTION OF PROJECT:

This project is a feasibility study of the concept to potentially develop a demineralization facility within the Otay River valley. The project is being jointly funded by Sweetwater Authority and Otay WD. Proposition 50 funding for 50% of the cost has been secured by Sweetwater Authority.

JUSTIFICATION OF PROJECT:

The potential of an agreement for the development of a potable water production well could provide the possibility of an independent local water supply resource for the Otay WD.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$50	\$150						\$200

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2462

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/07

06/09

DESIGN:

CONSTRUCTION:

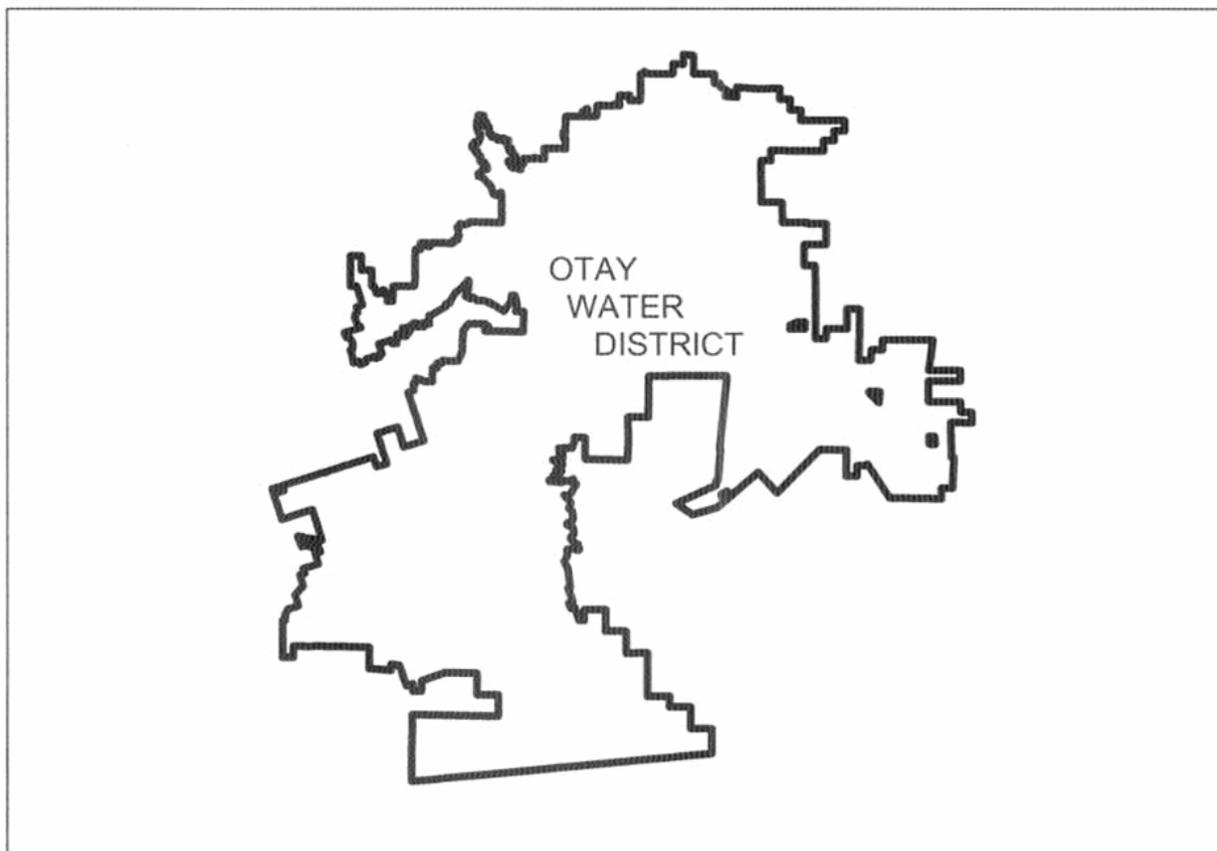
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2463

PROJECT TITLE: South Bay Regional Concentrate Conveyance Feasibility Study

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$25,000

DESCRIPTION OF PROJECT:

This project is a feasibility study of the concept to potentially develop a South Bay regional concentrate conveyance facility. The project is being jointly funded by San Diego County Water Authority (SDCWA), Sweetwater Authority, the City of San Diego, and Otay WD. Proposition 50 funding for 50% of the cost has been secured by the SDCWA.

JUSTIFICATION OF PROJECT:

The potential of the development of a regional concentrate conveyance facility within the South Bay would provide the region with the ability to dispose of brine concentrates into the ocean. The facility could be an important element for the development of a potable water production wells that could provide the possibility of an independent local water supply resource for the Otay WD and others.

COMMENTS:

The San Diego County Water Authority has stated that they will fund the entire cost share on behalf of the other partnering agencies.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$10	\$15						\$25

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2463

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/07

06/09

DESIGN:

CONSTRUCTION:

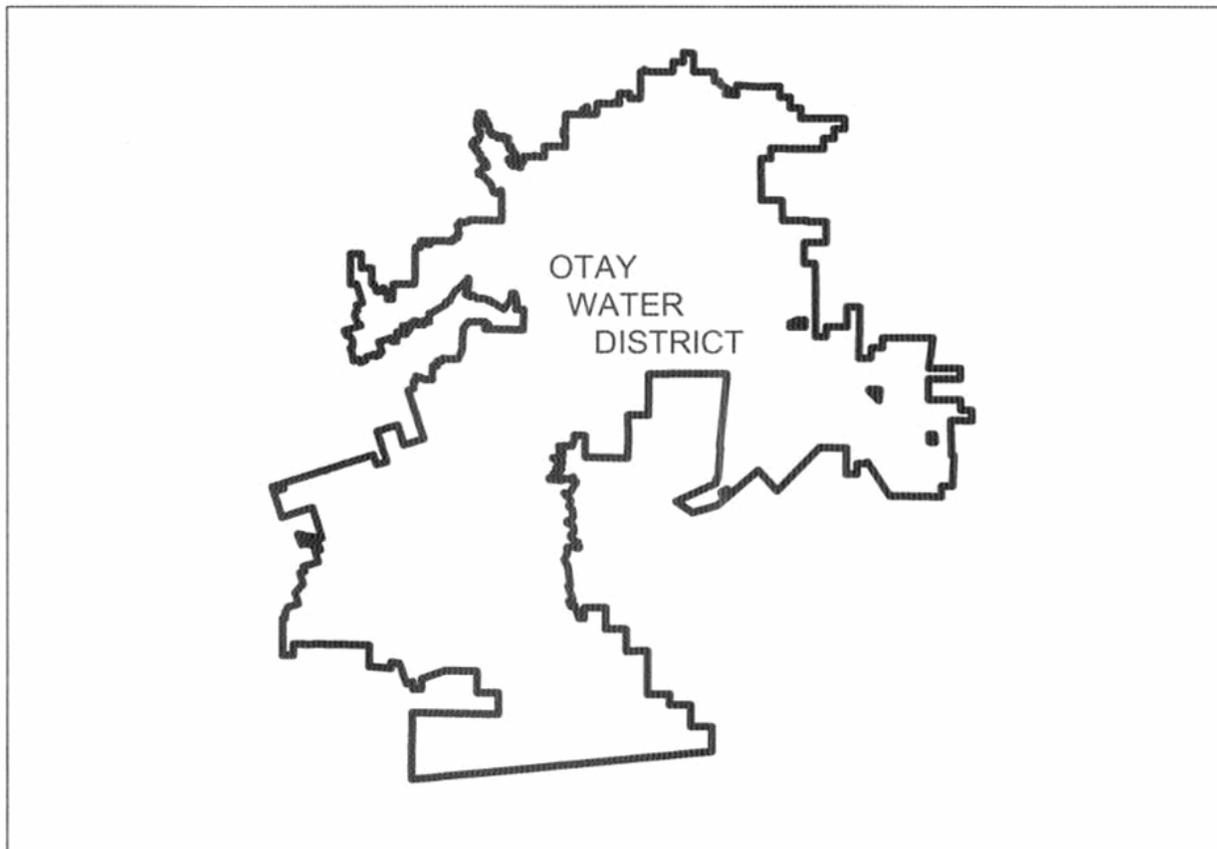
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2464

PROJECT TITLE: San Diego 17 Pump Station and Flow Control Facility

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$30,000

DESCRIPTION OF PROJECT:

This project is for the construction of a pump station by the City of San Diego, known as SD17 at their Alvarado Water Treatment Plant. The pump station capacity is 60 million gallons per day (mgd) of which Otay may acquire up to 35 mgd. The City of San Diego has the potential to acquire Proposition 50 funding for about \$6,500,000 from construction of SD17.

JUSTIFICATION OF PROJECT:

With the pending agreement approval with the City of San Diego and the San Diego County Water Authority and subsequent construction of SD17, Otay WD will be able to take water supply from the Alvarado WTP.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$15	\$15						\$30

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2464

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/07

06/09

DESIGN:

CONSTRUCTION:

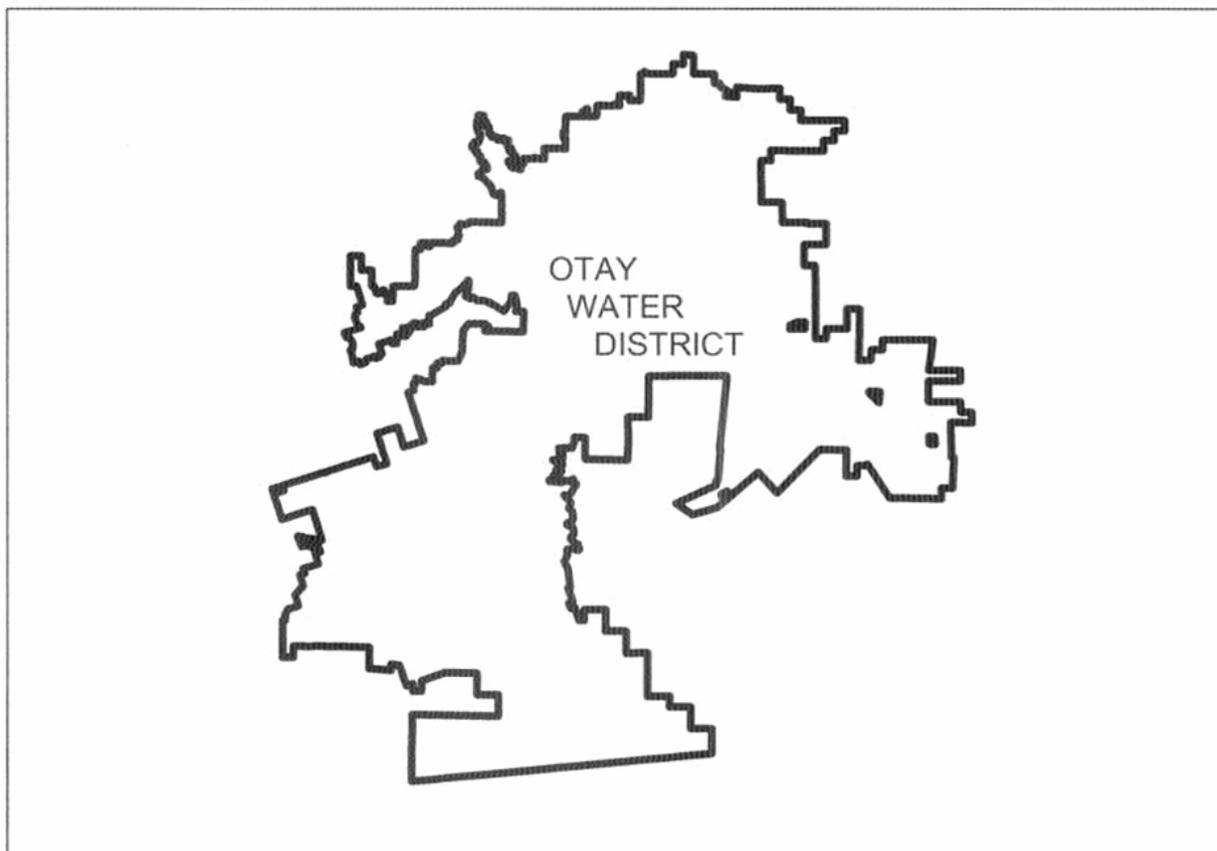
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2465

PROJECT TITLE: Regulatory Site Material Storage Bins

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Grunow	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:	P2185	BUDGET AMOUNT:	\$250,000

DESCRIPTION OF PROJECT:

This project is to install material storage bins at the Regulatory Site.

JUSTIFICATION OF PROJECT:

The material storage bins will improve the efficiency of the Otay WD operations for their installation and construction efforts.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$30	\$220						\$250

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2465

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/07	09/07
DESIGN:	10/07	01/08
CONSTRUCTION:	02/08	12/08

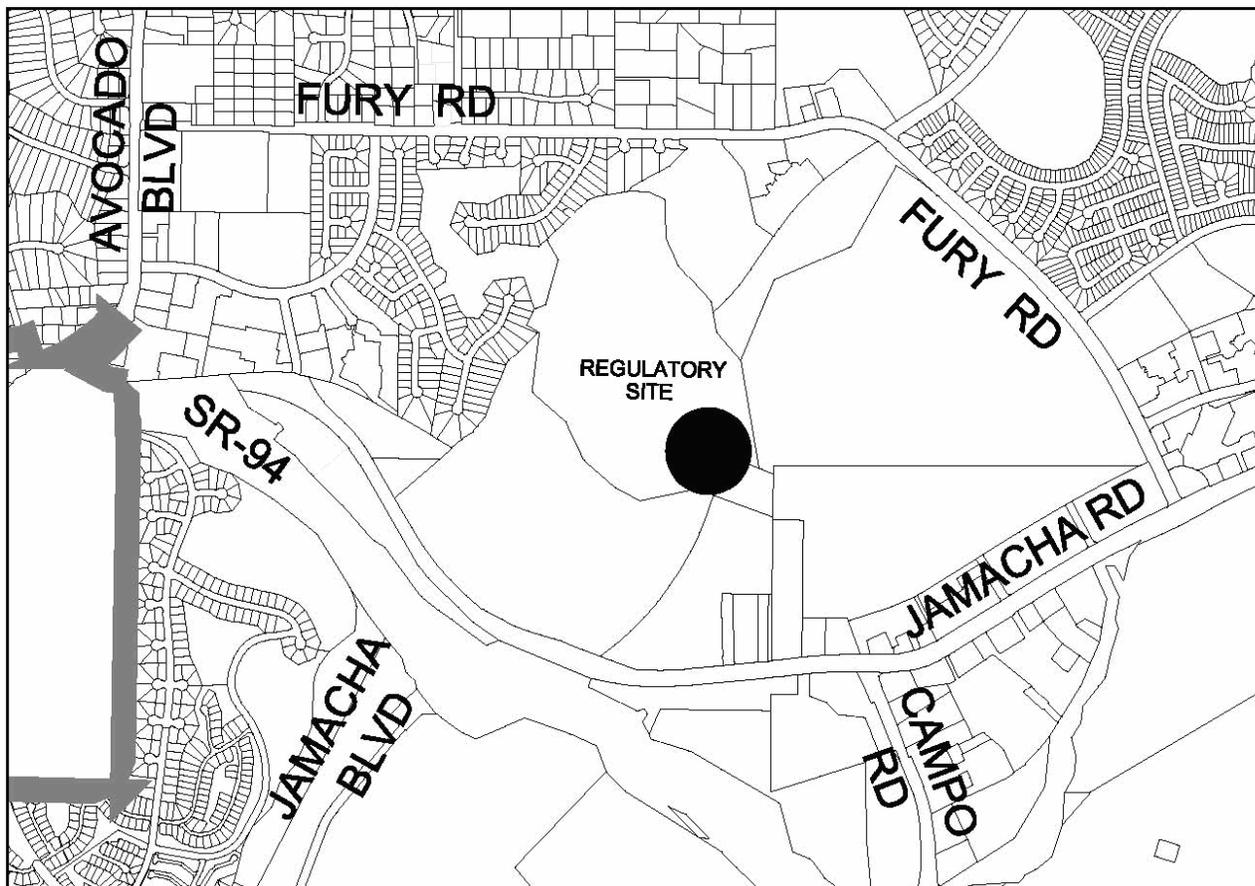
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	TOTAL						
2009	2010	2011	2012	2013	2014		

PROJECT LOCATION:

Thomas Bros. Map: 1271

OWD Map Book: 343



Submitted By: Lisa Coburn-Boyd

Date: 03/10/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2466

PROJECT TITLE: Regional Training Facility

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Coburn-Boyd	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$220,000

DESCRIPTION OF PROJECT:

The project is the construction of a Regional Training Facility at the Regulatory Site through a partnership with the San Miguel Consolidated Fire Protection District.

JUSTIFICATION OF PROJECT:

The Otay WD needs a training center to train staff on trenching, shoring, fire safety, rescue, and confined space. The San Miguel Consolidated Fire Protection District has secured funding for this project and will be the lead agency in the development of the training facility.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$70	\$150						\$220

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2466

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

08/06

06/07

DESIGN:

07/07

01/08

CONSTRUCTION:

02/08

01/09

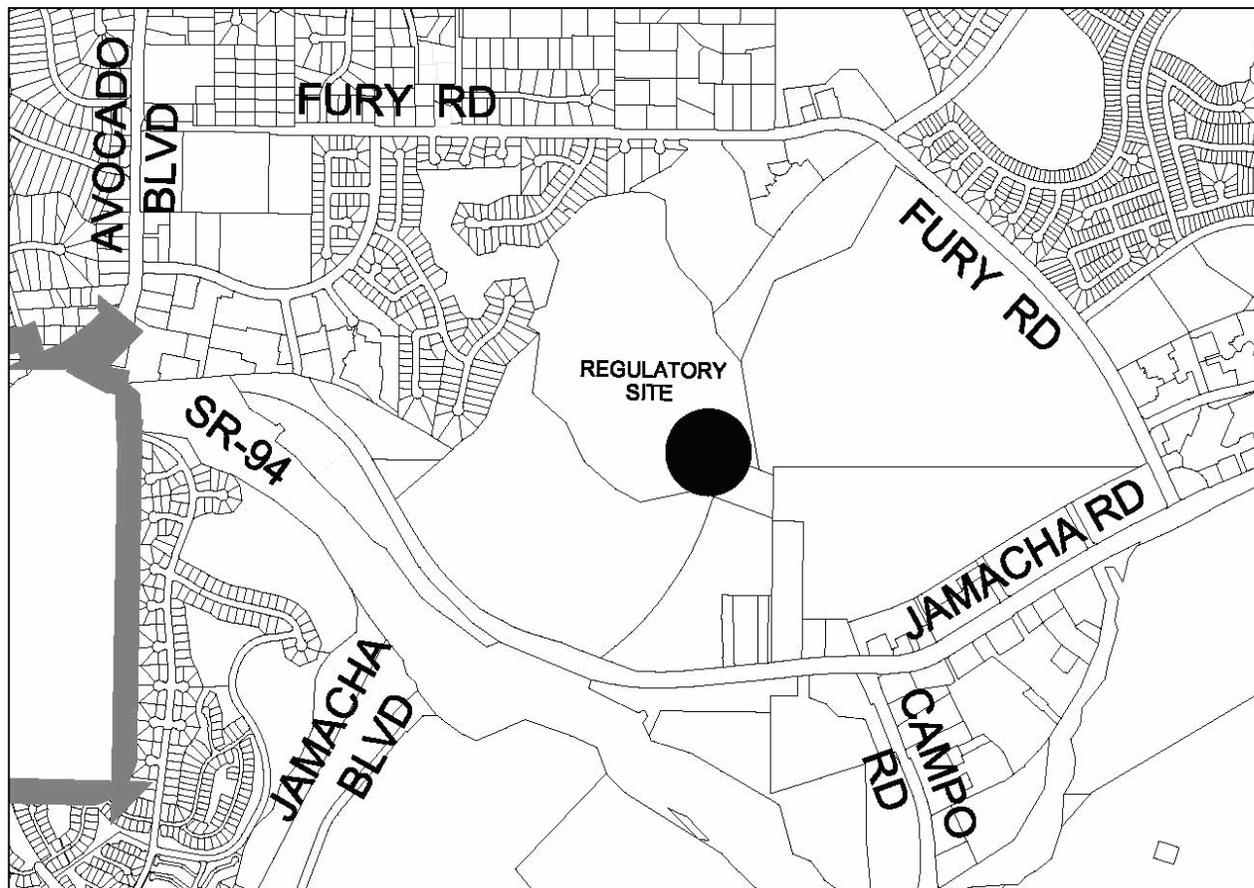
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1271

OWD Map Book: 343



Submitted By: Lisa Coburn-Boyd

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2467

PROJECT TITLE: San Diego Formation Groundwater Feasibility Study

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$1,600,000

DESCRIPTION OF PROJECT:

This project is a research and data gathering effort to enhance the ongoing USGS study of the concept to potentially develop a groundwater supply from the San Diego Formation. The project is planned to be jointly funded by Sweetwater Authority and Otay WD. A proposal for the San Diego County Water Authority LISA grant program was developed to fund up to 50% of the cost of the effort.

JUSTIFICATION OF PROJECT:

The potential of an agreement for the development of a potable water production well within the San Diego Formation could provide the possibility of an independent local water supply resource for the Otay WD and others.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$400	\$400	\$800					\$1,600

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2467

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/07

06/10

DESIGN:

CONSTRUCTION:

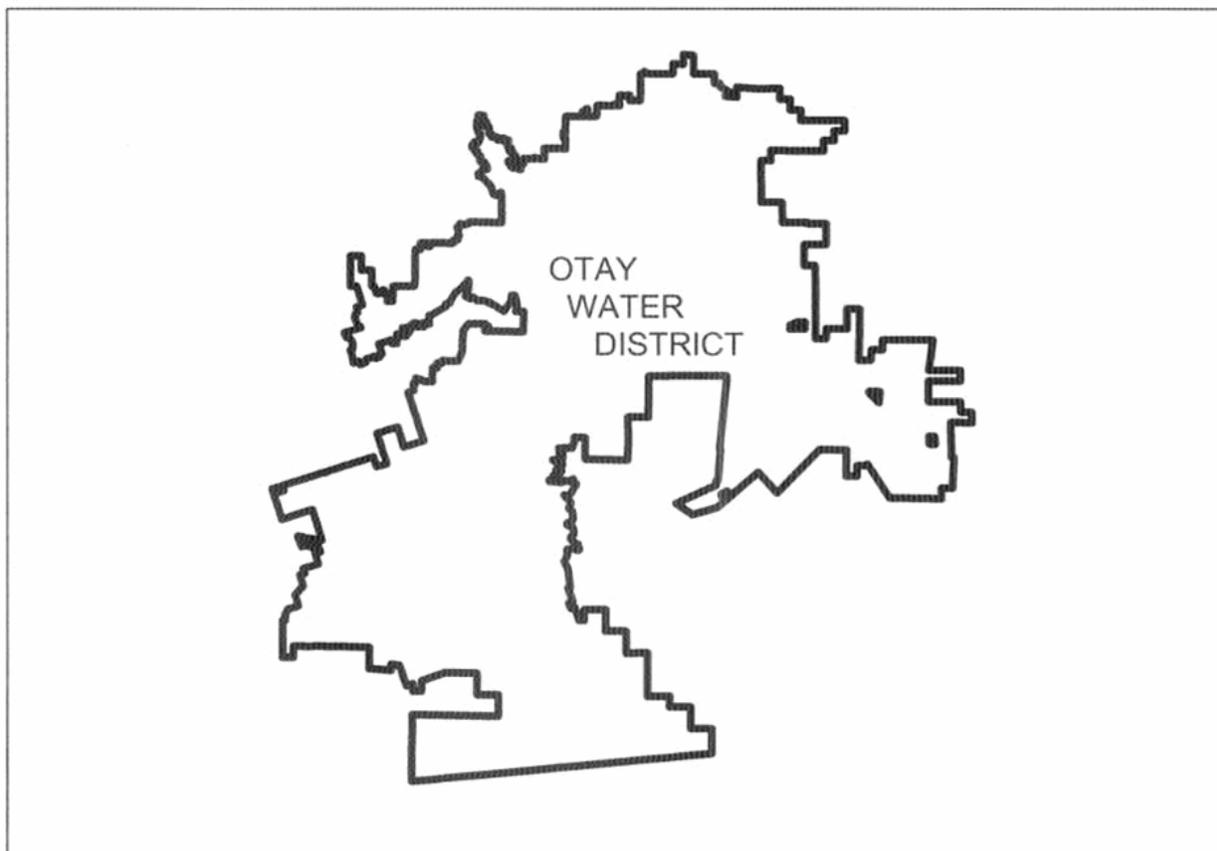
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2471

PROJECT TITLE: 850/657 PRS at La Presa Pump Station

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	4
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:		PRIORITY:	2
RELATED CIP PROJECTS:	P2357	BUDGET AMOUNT:	\$300,000

DESCRIPTION OF PROJECT:

Construct a 850 to 657 Pressure Zone pressure reducing station at the La Presa Pump Station. The project consists of installing pressure reducing valves and installation of SCADA monitoring systems.

JUSTIFICATION OF PROJECT:

The pressure reducing station will allow for necessary increased flow rates into the 657 Pressure Zone to meet supply requirements.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 1		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$5	\$90	\$205				\$300

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2471

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/08	09/08
DESIGN:	10/08	09/10
CONSTRUCTION:	10/10	06/11

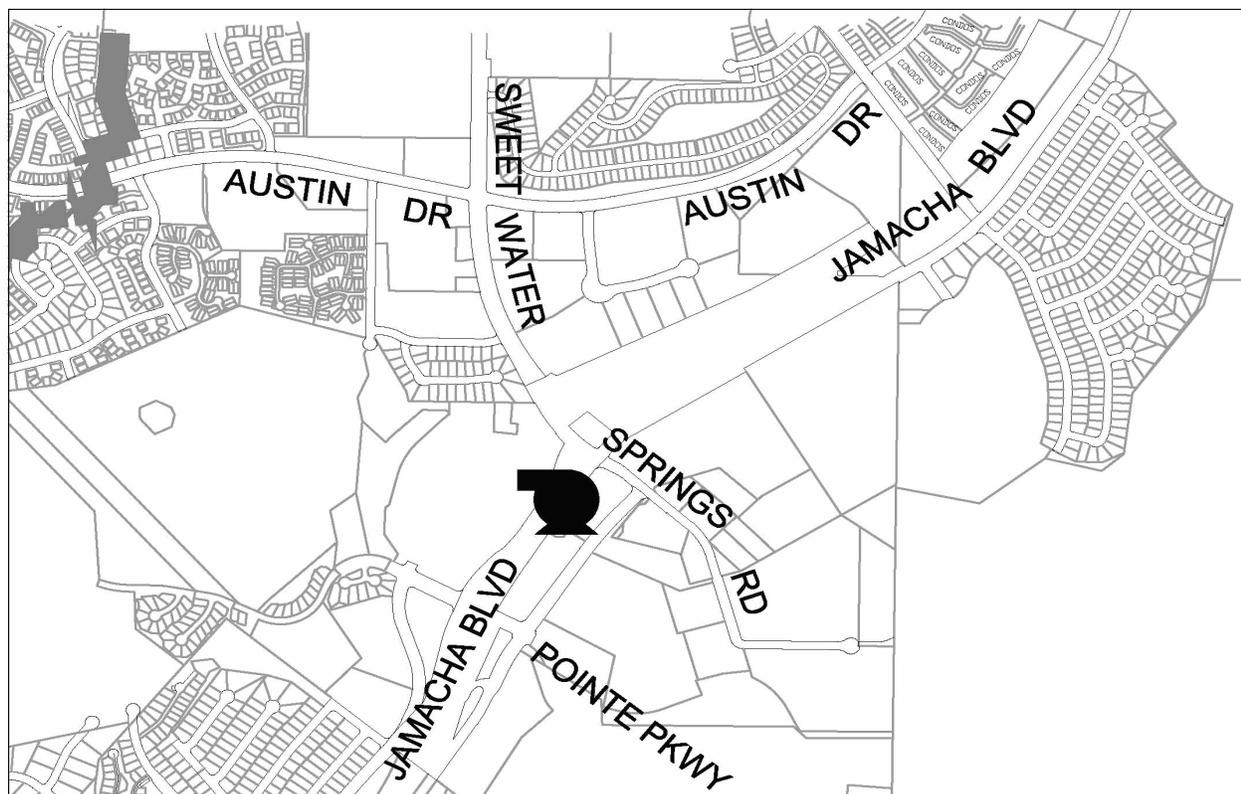
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014		

PROJECT LOCATION:

Thomas Bros. Map: 1291

OWD Map Book: 317



Submitted By: Jim Peasley

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2472

PROJECT TITLE: Water Supply Feasibility Studies

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$400,000

DESCRIPTION OF PROJECT:

This project provides funding for general water supply feasibility planning study efforts that benefit existing and future customers.

JUSTIFICATION OF PROJECT:

Implementation of the Integrated Water Resources Plan to enhance reliability, achieve diversification, increase flexibility, etc. require funding to continue to pursue alternative supply opportunities, etc.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$150	\$50	\$50	\$50	\$50	\$50	\$400

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2472

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/08

06/14

DESIGN:

CONSTRUCTION:

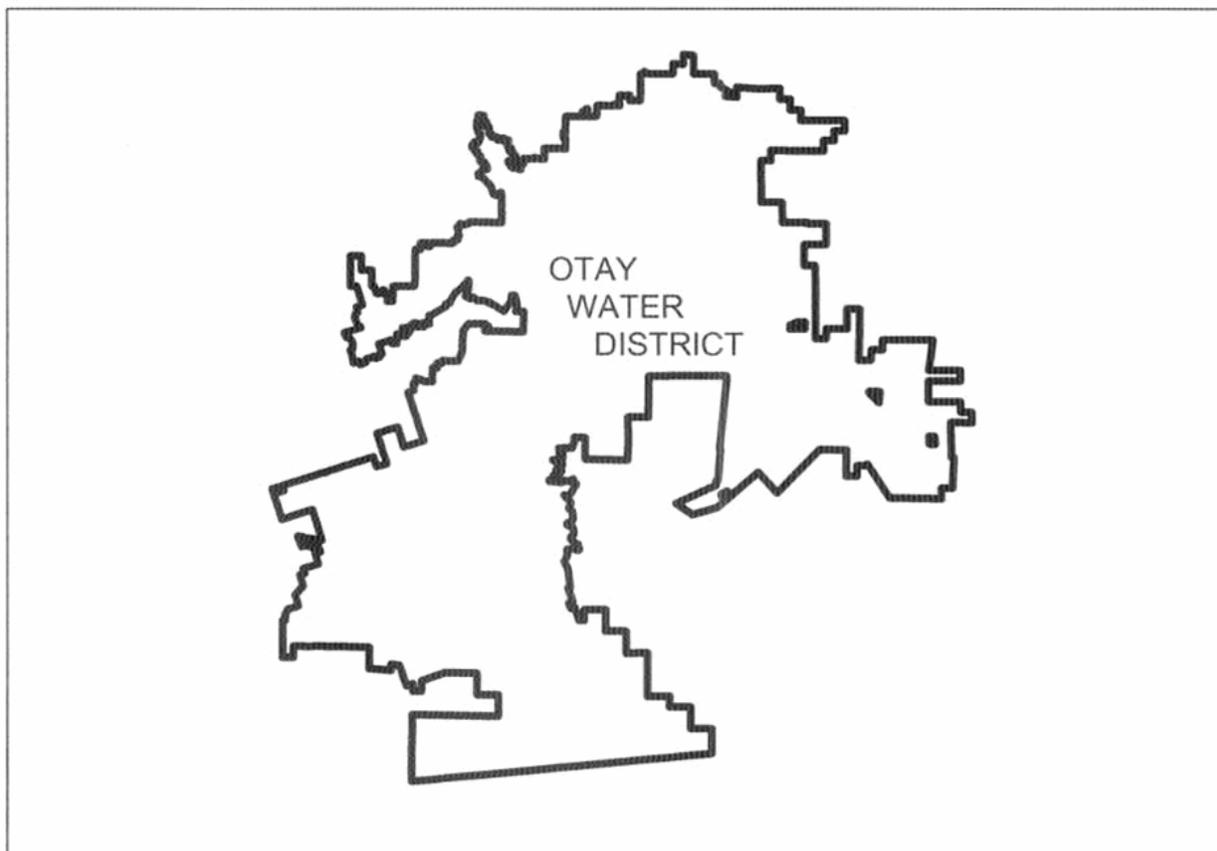
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2473

PROJECT TITLE: PS - 711-1 Pump Station Improvement

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	1
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	22
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$200,000

DESCRIPTION OF PROJECT:

Replace existing pumps and potentially the suction manifold at the 711-1 Pump Station to resolve vibration and cavitation issues.

JUSTIFICATION OF PROJECT:

This project is to redesign the existing suction system and installation of different pumps at the pump station to resolve vibration and cavitation issues. The existing pumps have a useful life of about two years or less and where they should last seven to ten years.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$50	\$150					\$200

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2473

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/08

09/08

DESIGN:

10/08

06/09

CONSTRUCTION:

07/09

06/10

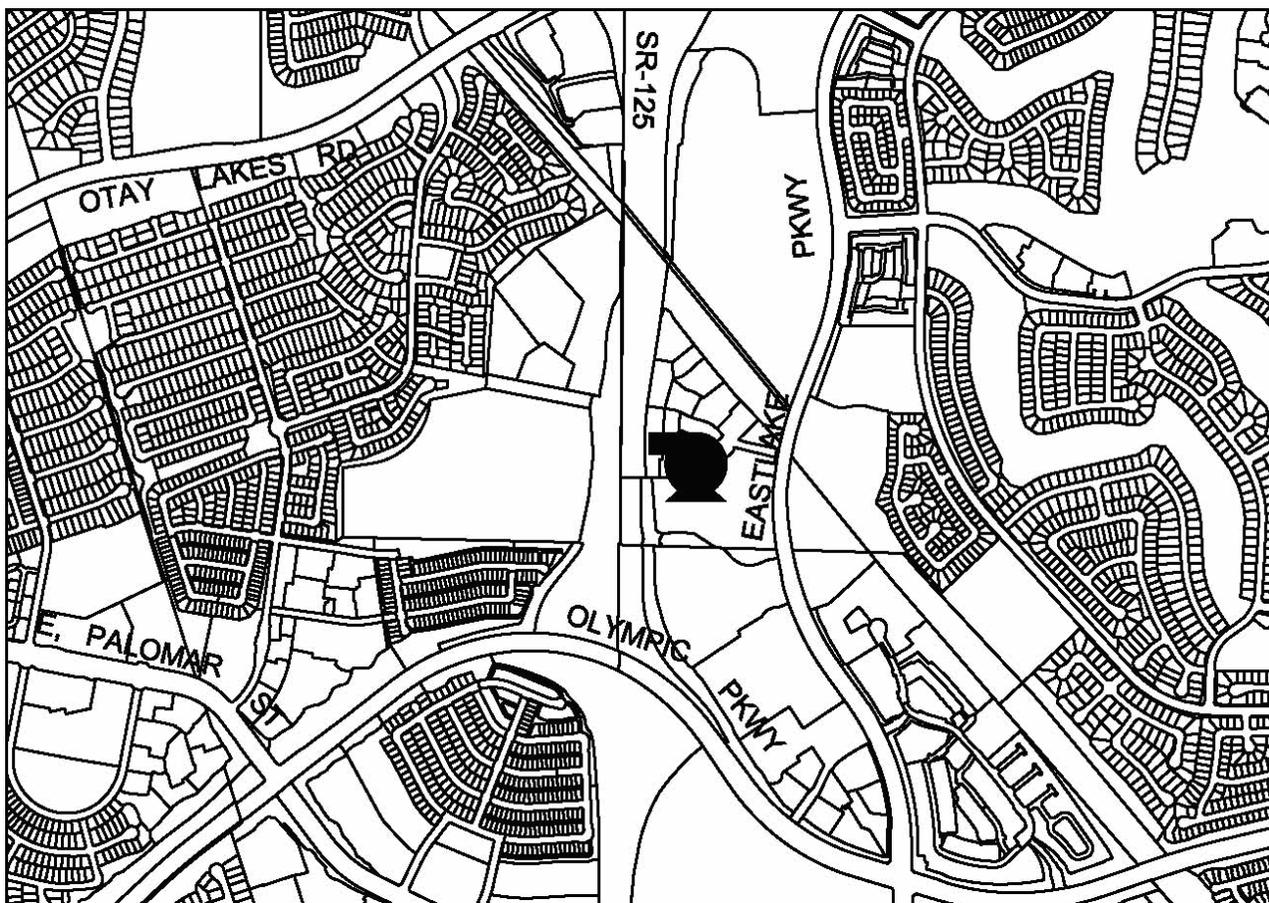
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1311

OWD Map Book: 114



Submitted By: Gary Stalker

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2474

PROJECT TITLE: Fuel Storage Covers and Containment

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$100,000

DESCRIPTION OF PROJECT:

Construction of eight permanent covers for remote pump station diesel fuel storage tanks and one fuel containment system at the 870-1 Pump Station.

JUSTIFICATION OF PROJECT:

The existing diesel fuel tanks are exposed to direct sunlight and the elements causing extreme temperature fluctuations which promotes fuel contamination problems from condensation and algae growth. The 870-1 Pump Station requires a fuel spill containment system.

COMMENTS:

The fuel storage tanks supply a fuel source to the emergency engine/generator sets and direct engine driven pumping units.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$100						\$100

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2474

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/08

09/08

DESIGN:

10/08

12/08

CONSTRUCTION:

01/09

06/09

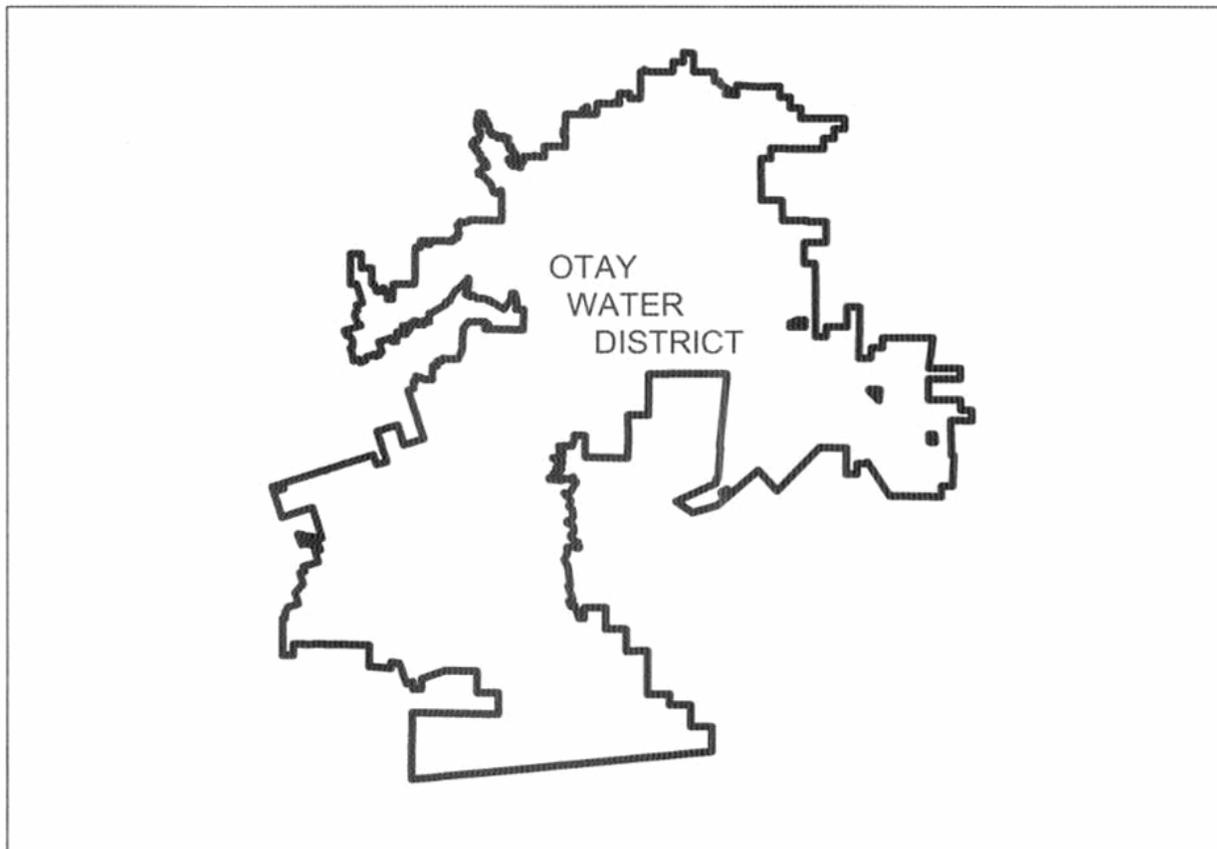
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Don Henderson

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2475

PROJECT TITLE: Pump Station Fire Safety Improvements

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$50,000

DESCRIPTION OF PROJECT:

This project is to provide funding for the installation of fire hydrants near pump stations where required and installation of fine mesh screens for wind blown debris control.

JUSTIFICATION OF PROJECT:

The project is required to lower the risk of wild fire related hazards.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$50						\$50

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2475

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

DESIGN:

CONSTRUCTION:

07/08

06/09

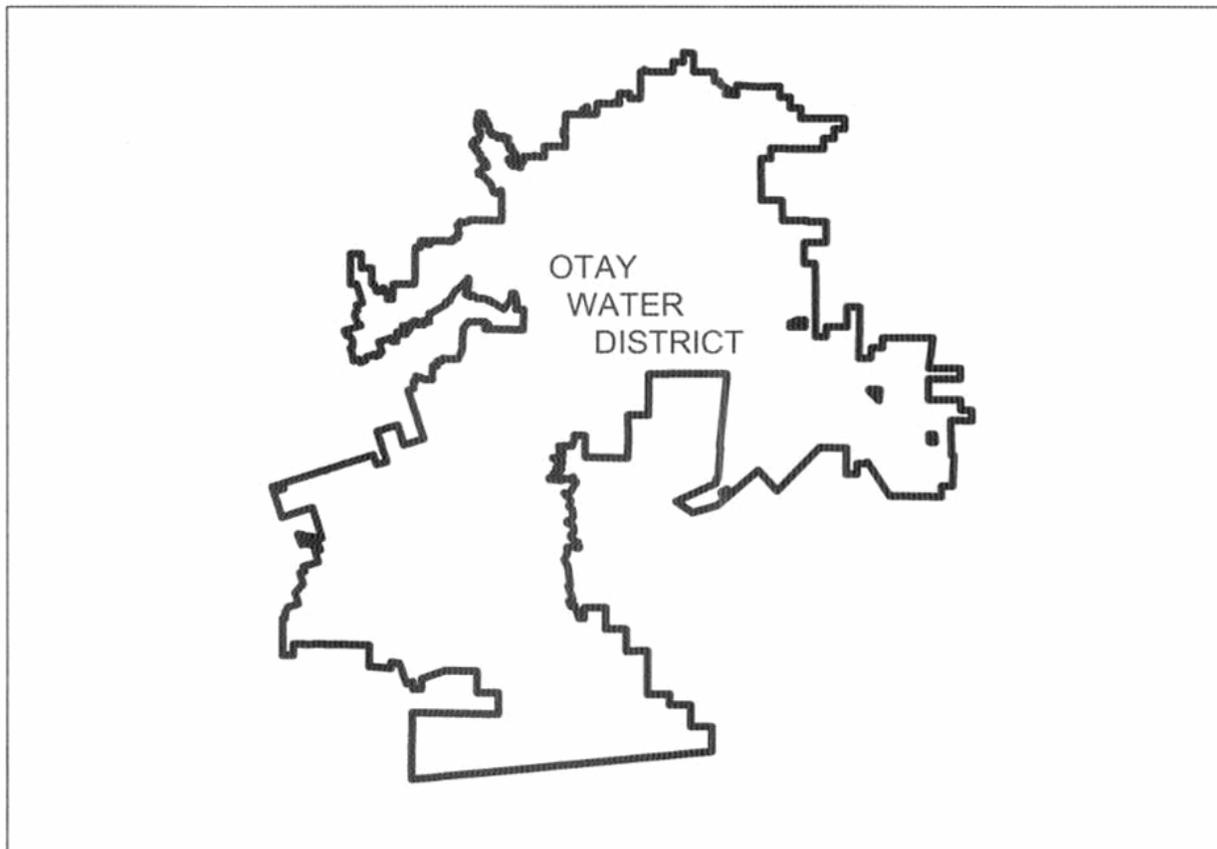
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Gary Stalker

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2476

PROJECT TITLE: Dis - 1090-1 Pump Station Disinfection System Upgrade

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	2
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$100,000

DESCRIPTION OF PROJECT:

Construction to upgrade the existing disinfection facility for the 1090-1 Pump Station. This will include new chemical feed equipment, a chlorine analyzer, and automatic controls for SCADA communication.

JUSTIFICATION OF PROJECT:

The 1090-1 Pump Station existing disinfection facility requires upgraded systems for improved assurance of water quality in the 1090-1 Reservoir.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 2		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$100						\$100

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2476

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/08	09/08
DESIGN:	10/08	12/08
CONSTRUCTION:	01/09	06/09

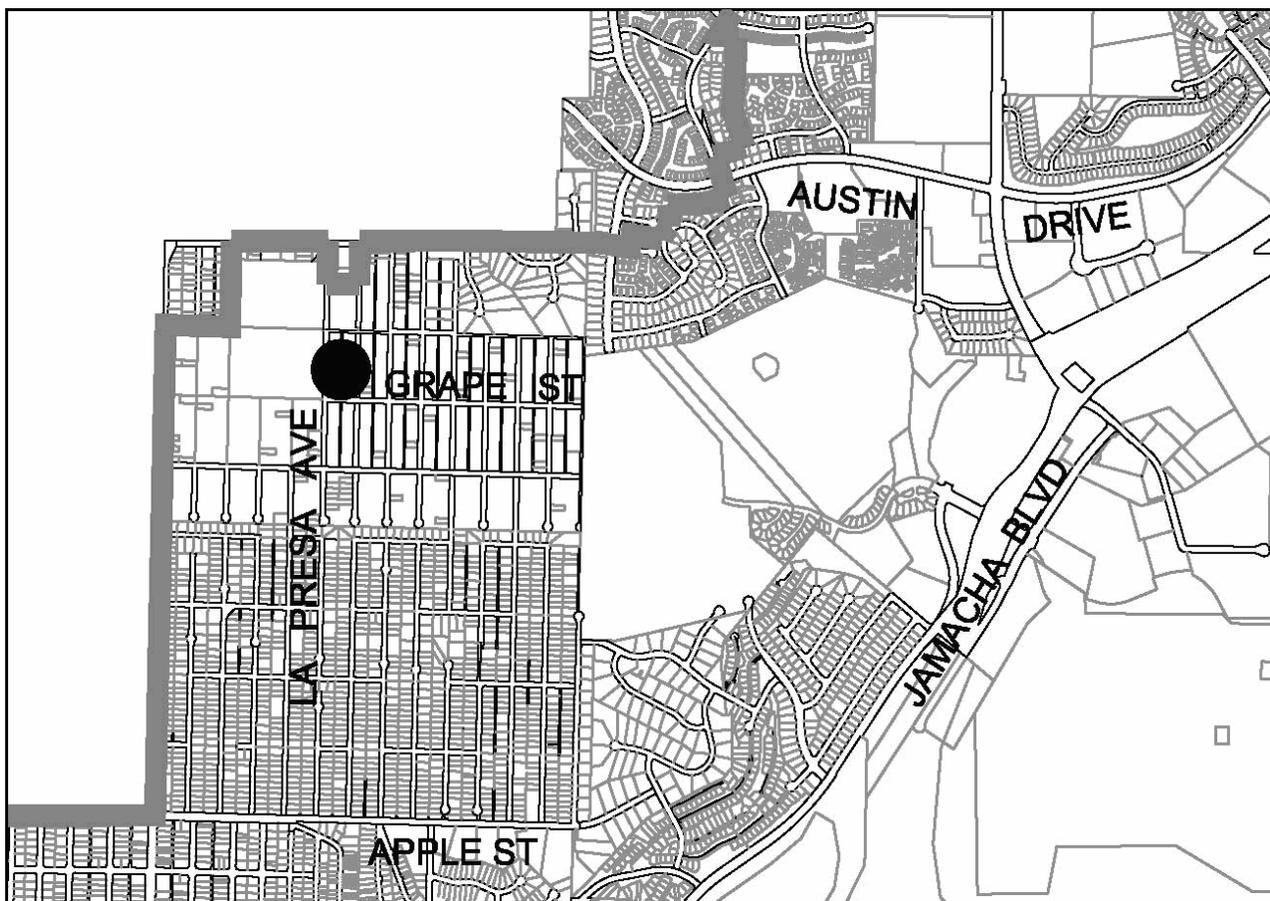
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	TOTAL						
2009	2010	2011	2012	2013	2014		

PROJECT LOCATION:

Thomas Bros. Map: 1292

OWD Map Book: 320



Submitted By: Gary Stalker

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2477

PROJECT TITLE: Res - 624-1 Reservoir Cover Replacement

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	1
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	22
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$450,000

DESCRIPTION OF PROJECT:

This project is for the replacement of the existing membrane floating cover with new membrane material system.

JUSTIFICATION OF PROJECT:

The existing floating membrane cover has reached the end of its useful life and requires replacement to meet regulatory requirements.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$250	\$200					\$450

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2477

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/08

09/08

DESIGN:

10/08

06/09

CONSTRUCTION:

07/09

06/10

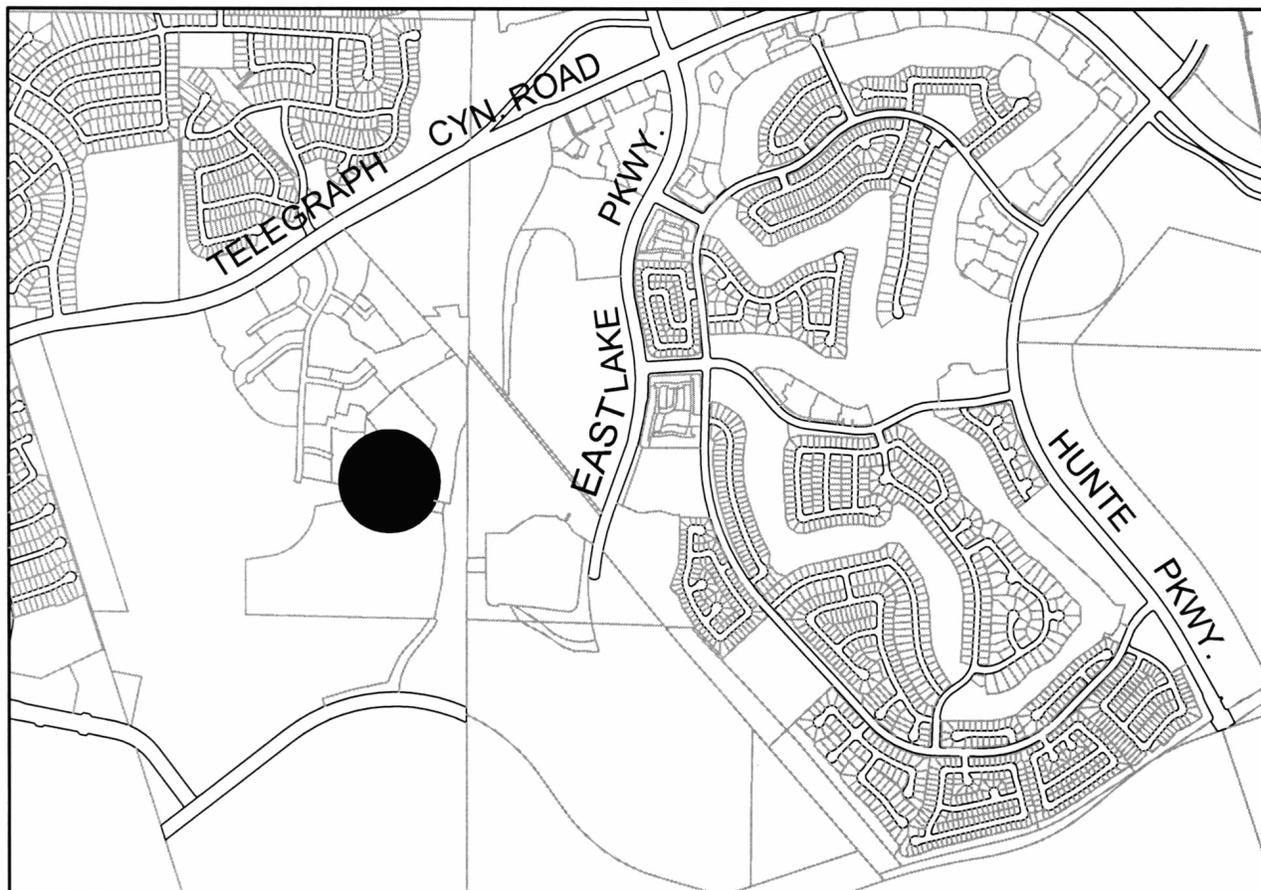
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1311

OWD Map Book: 114



Submitted By: Gary Stalker

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2034

PROJECT TITLE: RecRes - 860-1 Reservoir 4 MG

WORK ORDER NO:	DIRECTOR DIVISION: 2
PROJECT MANAGER: Ripperger	I.D. LOCATION: 7
ORIGINAL APPROVED DATE: 5/23/2006	PRIORITY: 2
RELATED CIP PROJECTS: R2088	BUDGET AMOUNT: \$3,800,000

DESCRIPTION OF PROJECT:

Construction of a 4 million gallon reservoir to create the 860 Pressure Zone for the recycled water system within Otay Mesa.

JUSTIFICATION OF PROJECT:

This project will receive water from the 944 Pressure Zone within the Central Area System to supply demands in the Otay Mesa System recycled water system. The facility is intended balance the 24-hour supply rate with a peaking rate generated by the Otay Mesa demand.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$2	\$104	\$394	\$1,800	\$1,500			\$3,800

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2034

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

09/06

09/07

DESIGN:

10/07

06/10

CONSTRUCTION:

07/10

06/12

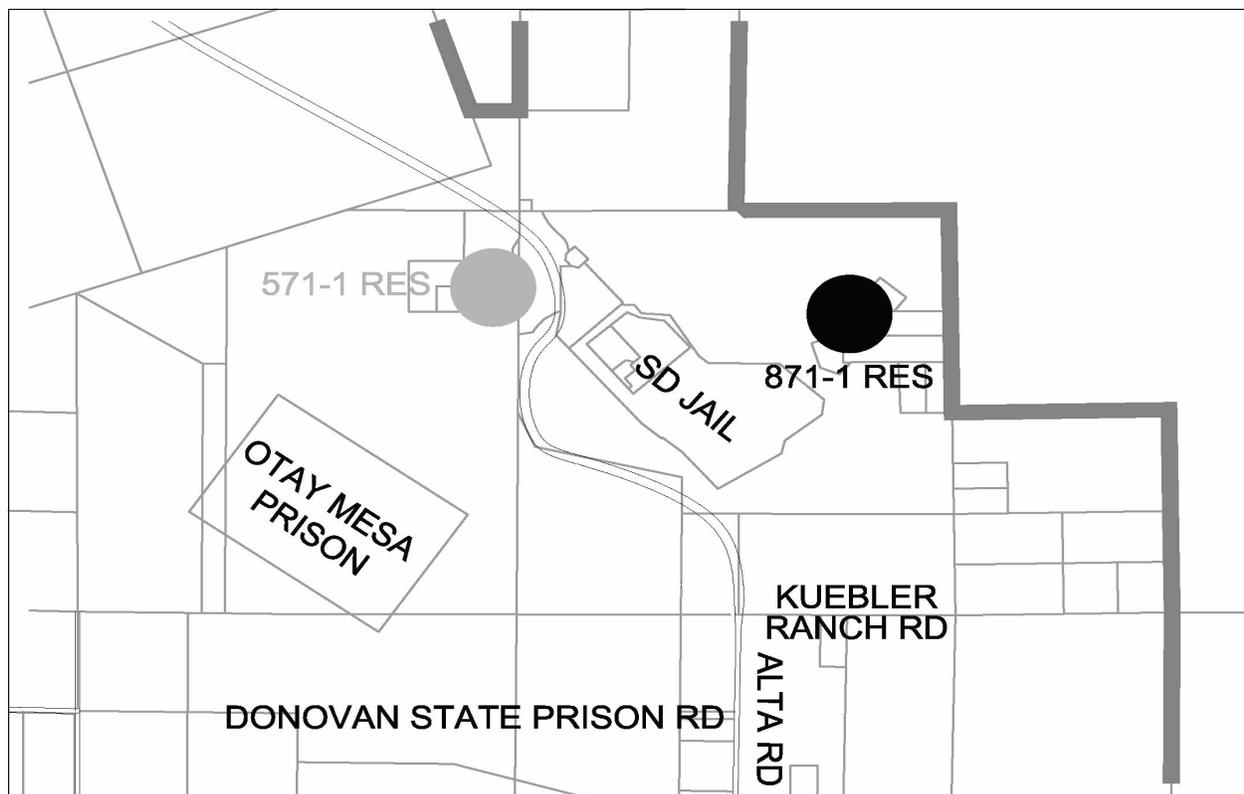
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
				\$7,500	\$7,700	\$15,200

PROJECT LOCATION:

Thomas Bros. Map: 1332

OWD Map Book: 55



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2048

PROJECT TITLE: RecPL - Otay Mesa Distribution Pipelines and Conversions

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	7
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:	R2058, R2077, R2088	BUDGET AMOUNT:	\$2,000,000

DESCRIPTION OF PROJECT:

Construction of various distribution pipeline links and conversion of existing pipelines for recycled water use within the 860 Pressure Zone of the Otay Mesa System.

JUSTIFICATION OF PROJECT:

This project will connect the existing distribution recycled water pipelines, currently supplied with potable water, to the planned construction of pipeline links to supply all those existing water demands within the Otay Mesa System with recycled water.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$10	\$1,200	\$650	\$140			\$2,000

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2048

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/08	12/08
DESIGN:	01/08	06/09
CONSTRUCTION:	07/09	07/12

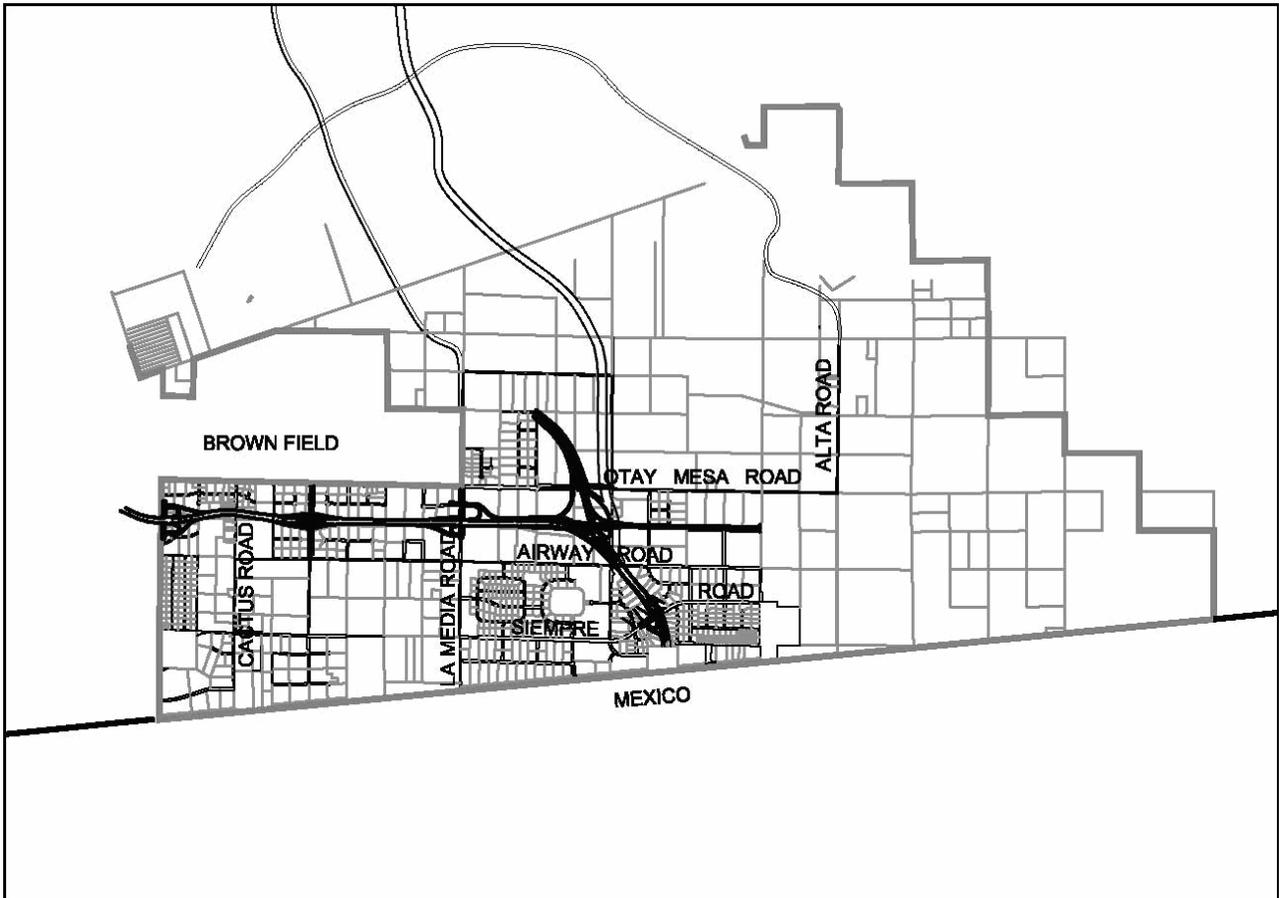
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

| FY |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | TOTAL |
| | | | | \$10,200 | \$10,500 | \$20,700 |

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 04/10/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2053

PROJECT TITLE: RWCWRF - R.O. Building Remodel and Office Furniture

WORK ORDER NO:	Various	DIRECTOR DIVISION:	3
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	7/16/1997	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$495,000

DESCRIPTION OF PROJECT:

Installation of offices and training room and purchasing of furniture upon the existing reverse osmosis building site at the RWCWRF.

JUSTIFICATION OF PROJECT:

This project will eliminate the rental costs for trailers that currently contain the required offices space. The existing systems at the RWCWRF will be used in a more effective and cost efficient manner.

COMMENTS:

See Work Order Nos. 8690 and 8760.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 22		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$445	\$50						\$495

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2053

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/97	01/06
DESIGN:	02/06	07/07
CONSTRUCTION:	08/07	07/08

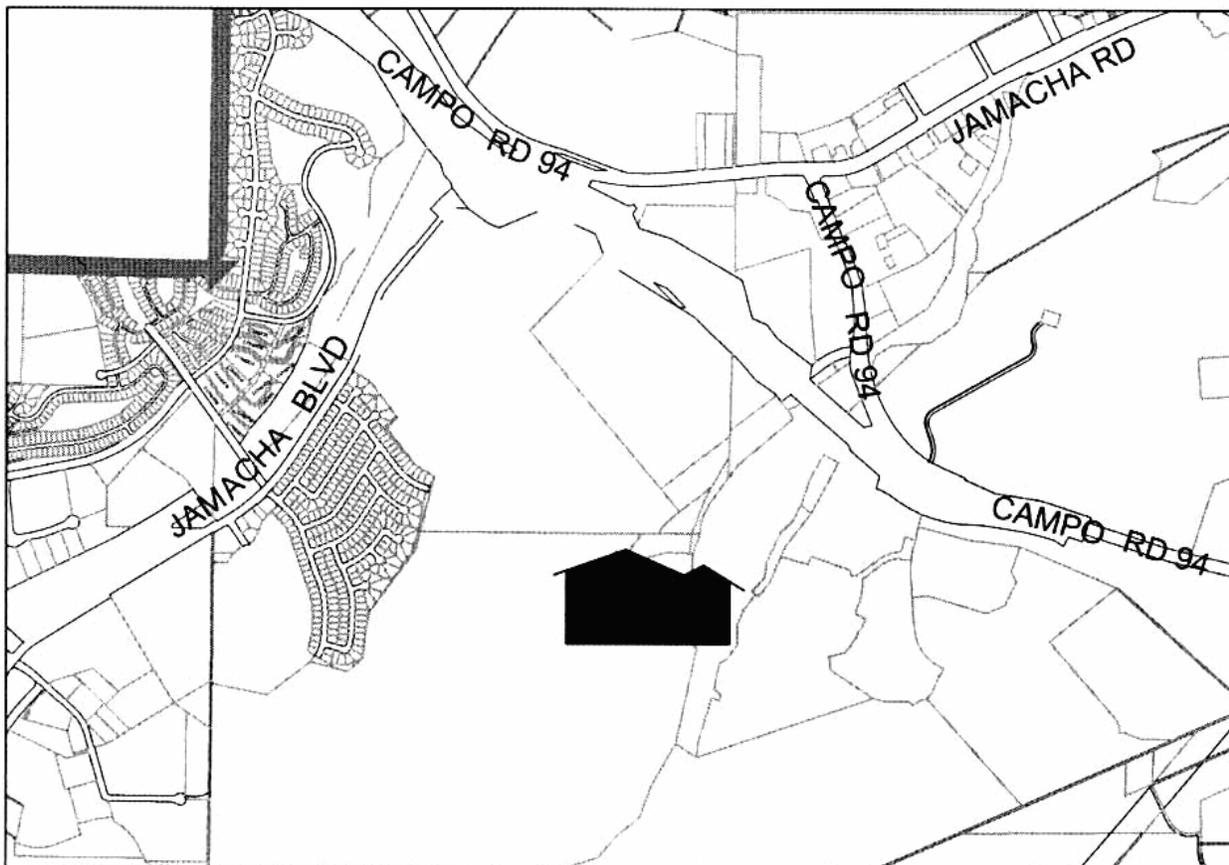
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	TOTAL						
2009	2010	2011	2012	2013	2014		

PROJECT LOCATION:

Thomas Bros. Map: 1271

OWD Map Book: 319



Submitted By: Lisa Coburn-Boyd

Date: 03/10/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2058

PROJECT TITLE: RecPL - 16-Inch, 860 Zone, Airway Road - Otay Mesa/Alta

WORK ORDER NO:	DIRECTOR DIVISION: 2
PROJECT MANAGER: Ripperger	I.D. LOCATION: 7
ORIGINAL APPROVED DATE: 6/16/1999	PRIORITY: 1
RELATED CIP PROJECTS: R2073, R2077	BUDGET AMOUNT: \$3,000,000

DESCRIPTION OF PROJECT:

Construction of approximately 16,000 feet of 16-inch pipeline within the 860 Pressure Zone in Airway Road from Otay Mesa Road to Alta Road. Portions of this project will be constructed by developers and these are subject to reimbursement at actual cost per Board policy.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development of Otay Mesa within the 860 Pressure Zone.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$320	\$100	\$300	\$750	\$1,000	\$530		\$3,000

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2058

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/01

12/08

DESIGN:

01/08

06/09

CONSTRUCTION:

07/09

07/12

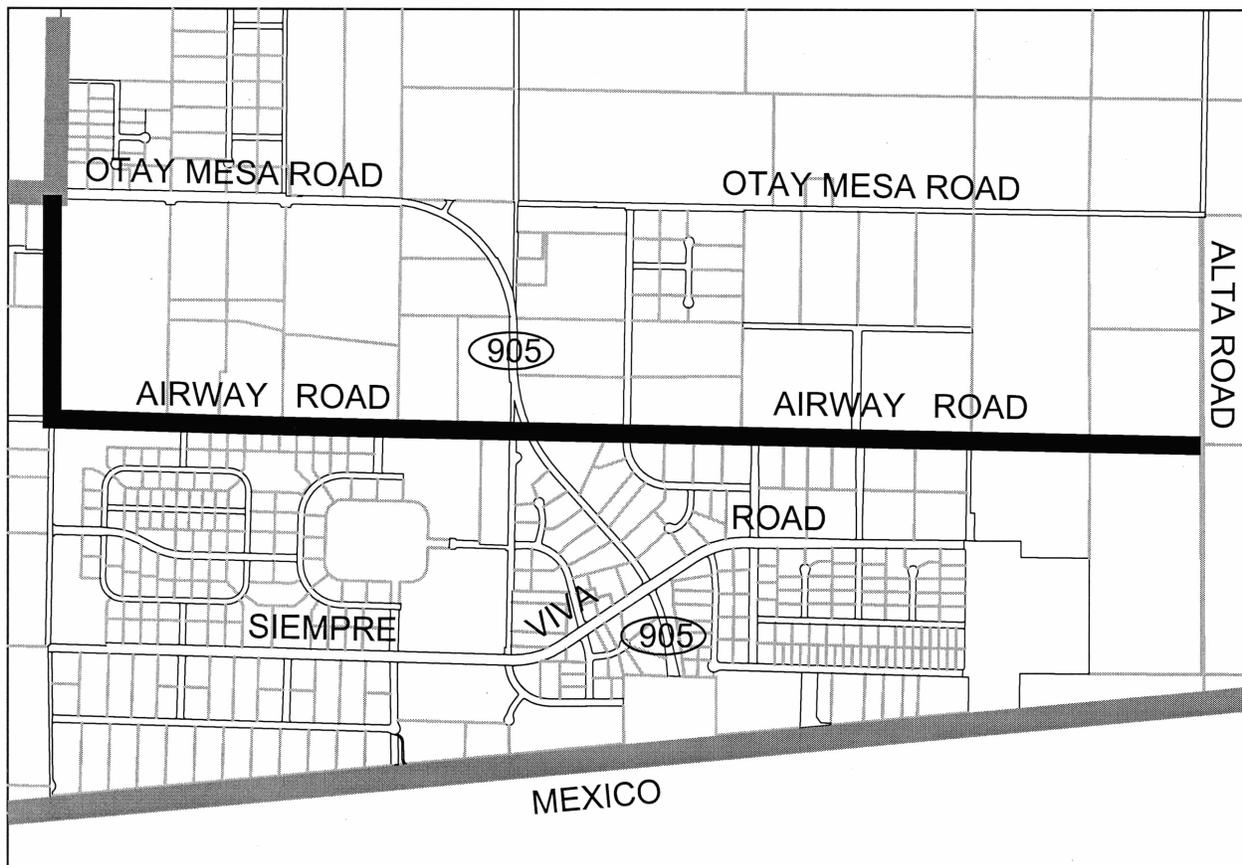
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
				\$5,400	\$5,600	\$11,000

PROJECT LOCATION:

Thomas Bros. Map: 1351

OWD Map Book: 12



Submitted By: David Charles

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2077

PROJECT TITLE: RecPL - 24-Inch, 860 Zone, Alta Road - Alta Gate/Airway

WORK ORDER NO:	DIRECTOR DIVISION: 2
PROJECT MANAGER: Ripperger	I.D. LOCATION: 7
ORIGINAL APPROVED DATE: 5/23/2006	PRIORITY: 1
RELATED CIP PROJECTS: R2058	BUDGET AMOUNT: \$4,100,000

DESCRIPTION OF PROJECT:

Construction of a 24-inch pipeline within the 860 Pressure Zone in Alta Road from the Alta Gate location to Airway Road. This project will be constructed as part of the Otay Mesa recycled water system.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development of Otay Mesa and link the planned 860-1 Reservoir with the recycled water transmission system in Otay Mesa.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$23	\$200	\$1,000	\$377	\$1,000	\$1,500		\$4,100

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2077

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	09/06	12/08
DESIGN:	01/08	06/09
CONSTRUCTION:	07/09	07/12

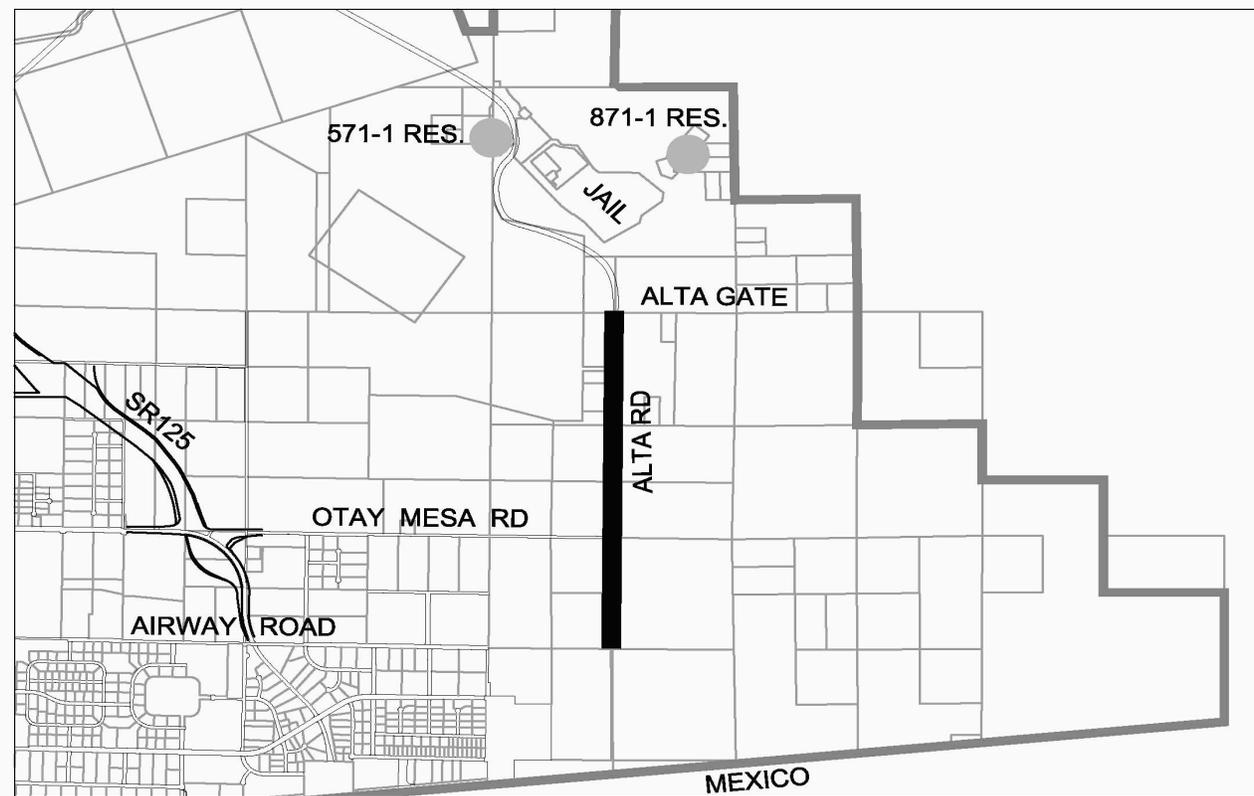
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
				\$2,700	\$2,800	\$5,500

PROJECT LOCATION:

Thomas Bros. Map: 1332

OWD Map Book: 39



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2081

PROJECT TITLE: RecPL - 20-Inch, 944 Zone, Lane Avenue - Proctor Valley/Pond No. 1

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	4
PROJECT MANAGER:	Kay	I.D. LOCATION:	22
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$1,090,000

DESCRIPTION OF PROJECT:

Construction of a 20-inch pipeline within the 944 Pressure Zone in Lane Avenue from Proctor Valley Road to Pond No. 1 within the Use Area.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development of Otay Ranch and other areas within the 944 Pressure Zone.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$500	\$590						\$1,090

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2081

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/06	08/06
DESIGN:	09/06	12/07
CONSTRUCTION:	01/08	12/08

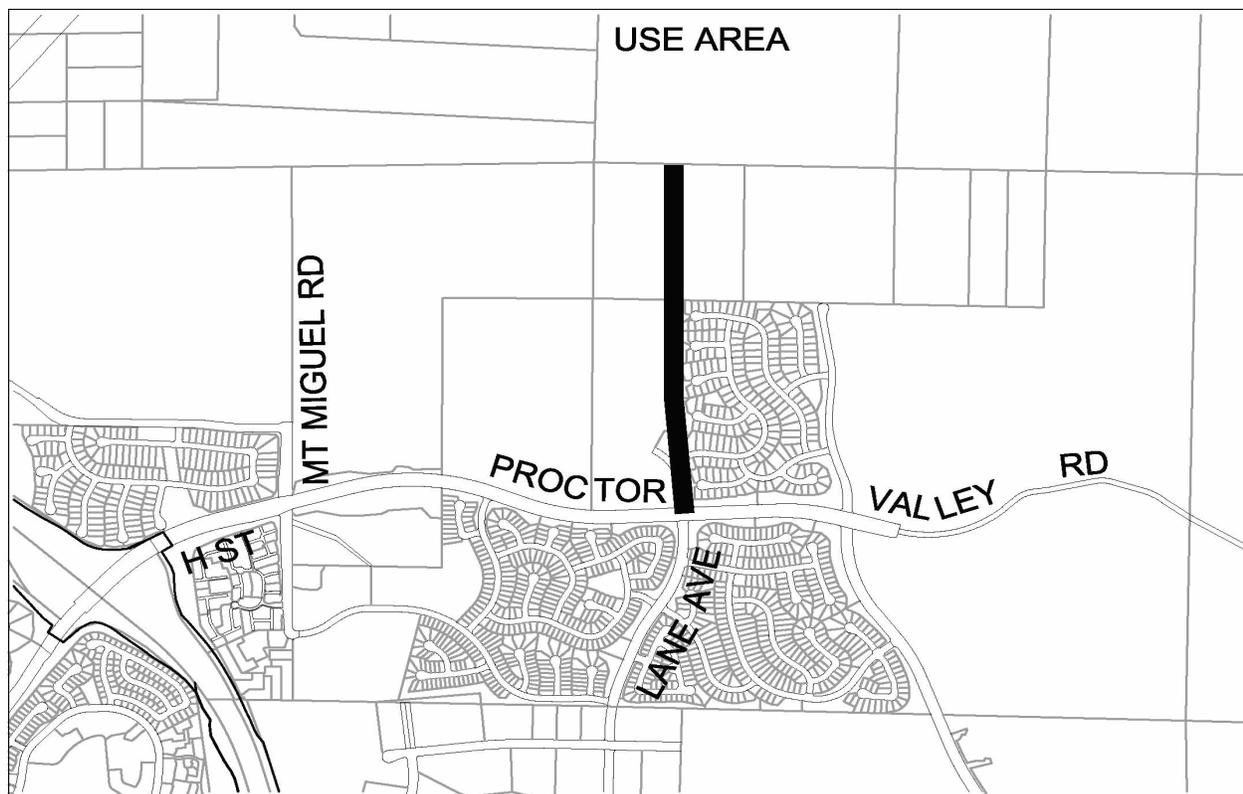
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
\$1,400	\$2,800	\$2,900	\$3,000	\$3,100	\$3,200	\$16,400

PROJECT LOCATION:

Thomas Bros. Map: 1311

OWD Map Book: 159



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2087

PROJECT TITLE: RecPL - 20-Inch, 944 Zone, Wueste Road - Olympic/Otay WTP

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	22
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$2,000,000

DESCRIPTION OF PROJECT:

Construction of a 20-inch pipeline within the 944 Pressure Zone in Wueste Road from Olympic Parkway to near the existing City of San Diego Otay WTP. This project will be constructed as part of the Otay Mesa recycled water system supply link.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development of Otay Mesa and is a part of the link to the 944 Pressure Zone supply to the planned 860-1 Reservoir within the Otay Mesa recycled water system.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$50	\$100	\$1,200	\$600	\$50			\$2,000

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2087

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

09/06

09/07

DESIGN:

10/07

06/10

CONSTRUCTION:

07/10

09/11

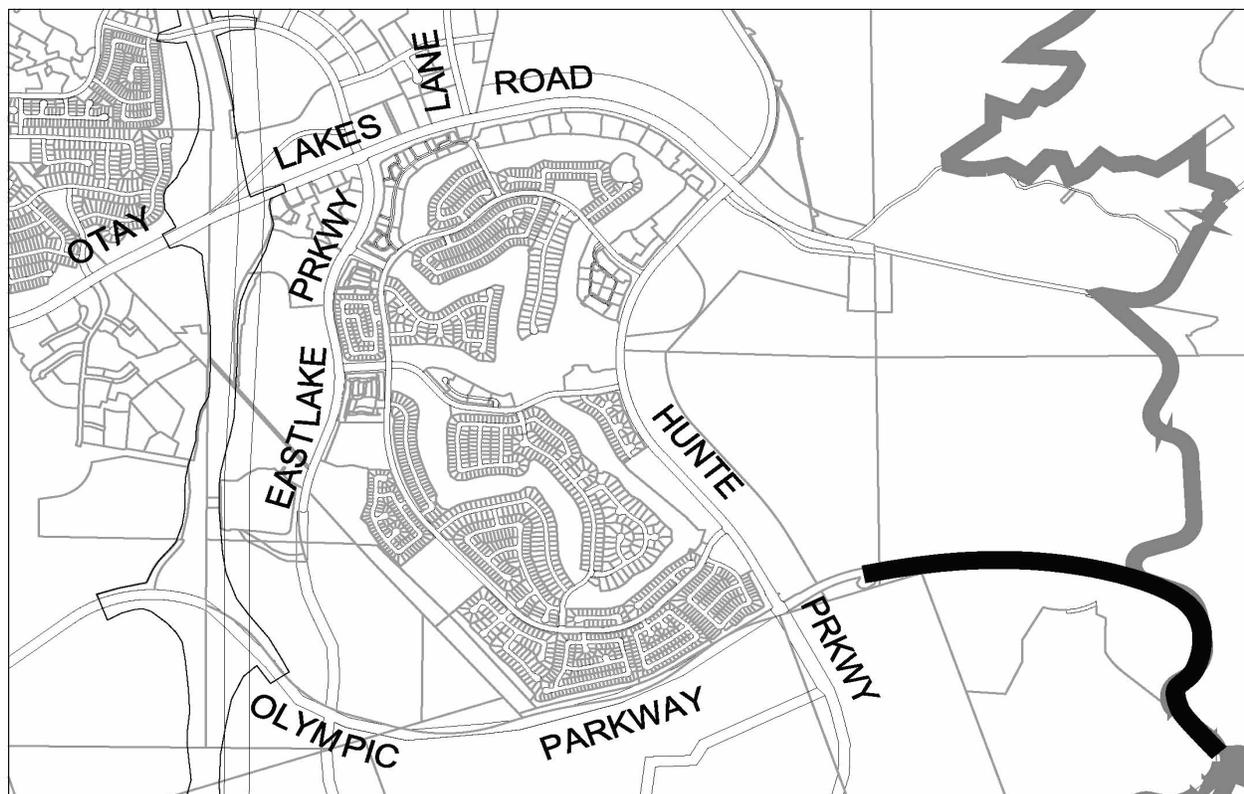
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
			\$1,100	\$1,500	\$1,500	\$4,100

PROJECT LOCATION:

Thomas Bros. Map: 1312

OWD Map Book: 85



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2088

PROJECT TITLE: RecPL - 20-Inch, 860 Zone, County Jail - Roll Reservoir/860-1 Reservoir

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	7
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:	R2034	BUDGET AMOUNT:	\$1,500,000

DESCRIPTION OF PROJECT:

Construction of a 20-inch pipeline within the 860 Pressure Zone from the 571-1 Reservoir site to the planned 860-1 Reservoir. This project will be constructed as part of the Otay Mesa recycled water system supply link.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development of Otay Mesa and link the planned 944 Pressure Zone supply to the planned 860-1 Reservoir within the Otay Mesa recycled water system.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$20	\$81	\$149	\$1,000	\$250			\$1,500

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2088

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

09/06

09/07

DESIGN:

10/07

06/10

CONSTRUCTION:

07/10

09/11

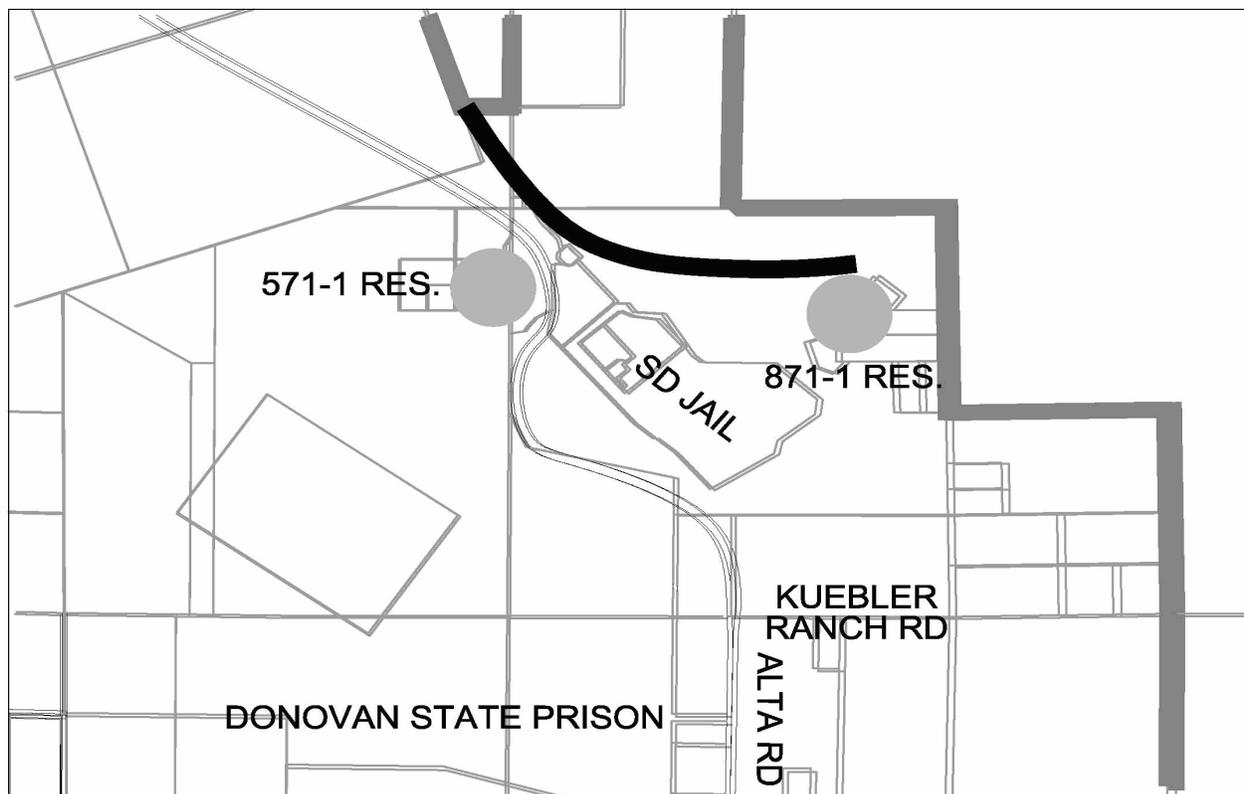
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
			\$1,800	\$2,500	\$2,600	\$6,900

PROJECT LOCATION:

Thomas Bros. Map: 1332

OWD Map Book: 55



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2089

PROJECT TITLE: North District Recycled Water Regulatory Compliance

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Coburn-Boyd	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$200,000

DESCRIPTION OF PROJECT:

This project is to fund any RWQCB Basin Plan revisions, State Department of Health Services reporting requirements addressing health, safety, institutional, and water quality concerns and potential CEQA compliance requirements.

JUSTIFICATION OF PROJECT:

Regulatory and institutional requirements for recycled water use within the Jamacha Basin must be addressed to further the vision for eventual development of recycled water infrastructure within the North District.

COMMENTS:

The necessary infrastructure of storage, transmission mains, and distribution pipelines for recycled water will be budgeted under another CIP project once the regulatory and institutional issues resolve into a successful outcome.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	TOTAL
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$90	\$110						\$200

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2089

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

05/07

12/08

DESIGN:

CONSTRUCTION:

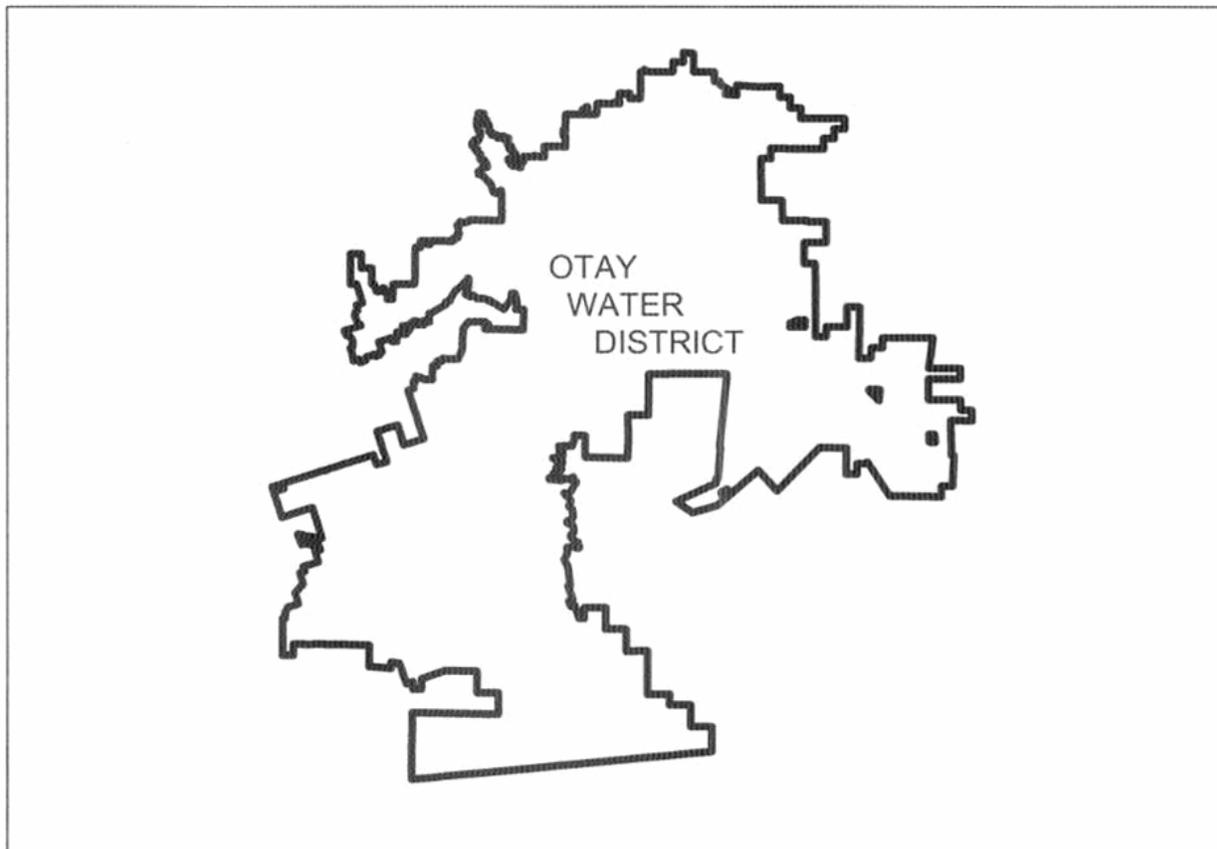
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Lisa Coburn-Boyd

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2091

PROJECT TITLE: RecPS - 944-1 Pump Station Upgrade

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	1
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	22
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:	R2003	BUDGET AMOUNT:	\$325,000

DESCRIPTION OF PROJECT:

This project consists of adding a new pump and modifying two existing pumps to operate within the system at higher efficiencies.

JUSTIFICATION OF PROJECT:

The overall operating conditions of the pump station have been modified as a result of the planned service to the Otay Mesa System recycled water system from the Central Area System and the conversion of a existing potable water pipeline within the Use Area for recycled water service.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	50%	50%		100%
TOTAL:	50%	50%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1	\$324						\$325

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2091

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/07	04/08
DESIGN:	05/08	12/08
CONSTRUCTION:	01/09	06/09

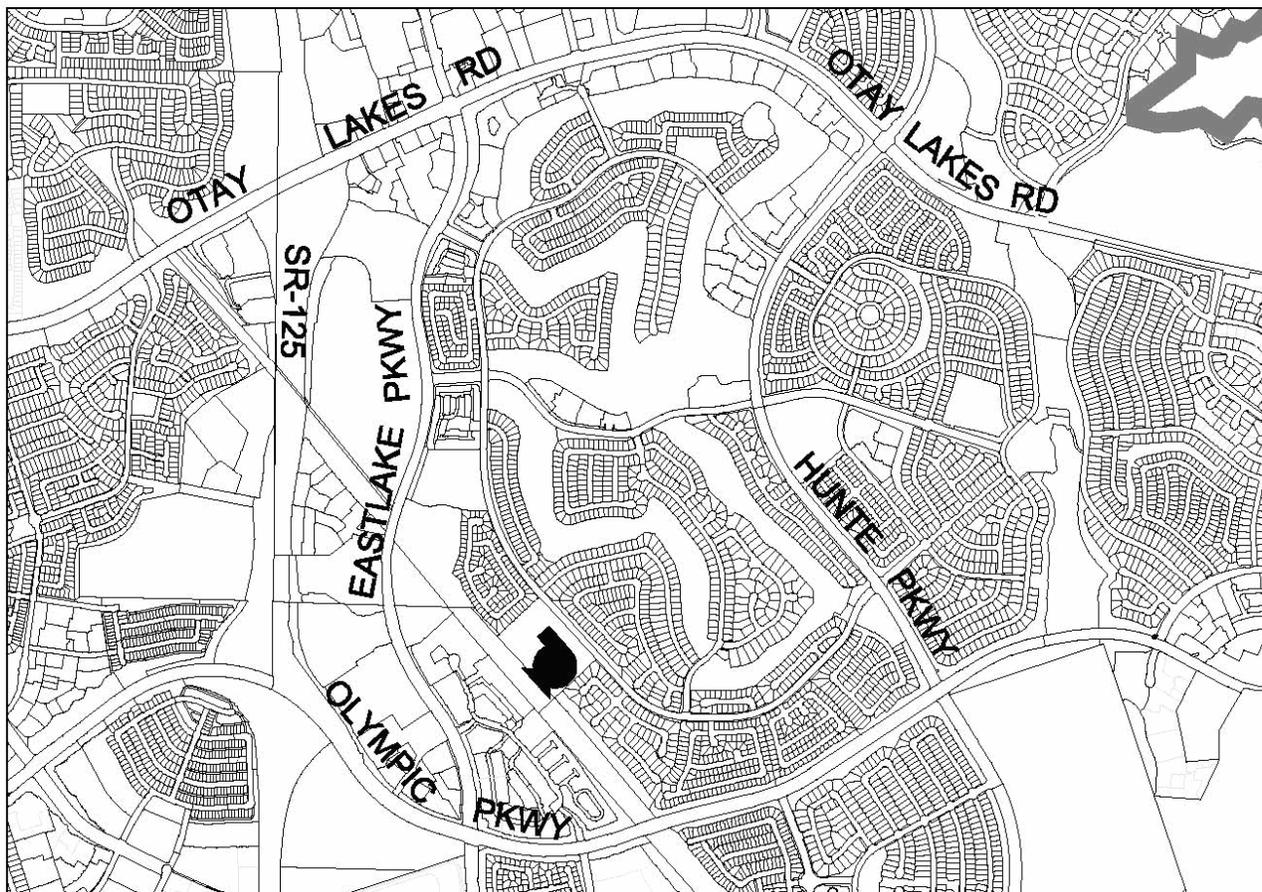
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

| FY |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | TOTAL |
| | \$107,900 | \$111,100 | \$114,400 | \$117,800 | \$121,300 | \$572,500 |

PROJECT LOCATION:

Thomas Bros. Map: 1311

OWD Map Book: 115



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2092

PROJECT TITLE: Dis - 450-1 Reservoir Disinfection Facility

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	1
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	10
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:	R2001, R2004	BUDGET AMOUNT:	\$830,000

DESCRIPTION OF PROJECT:

This project consists of construction of a disinfection system facility at the 450-1 Reservoir.

JUSTIFICATION OF PROJECT:

The recycled water received from the City of San Diego South Bay Water Reclamation Plant is not planned to be sufficiently disinfected with chemicals. The recycled water will be disinfected prior to deliver to the Otay WD customers.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
I.D. 22		100%		100%
TOTAL:		100%		100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$80	\$750						\$830

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2092

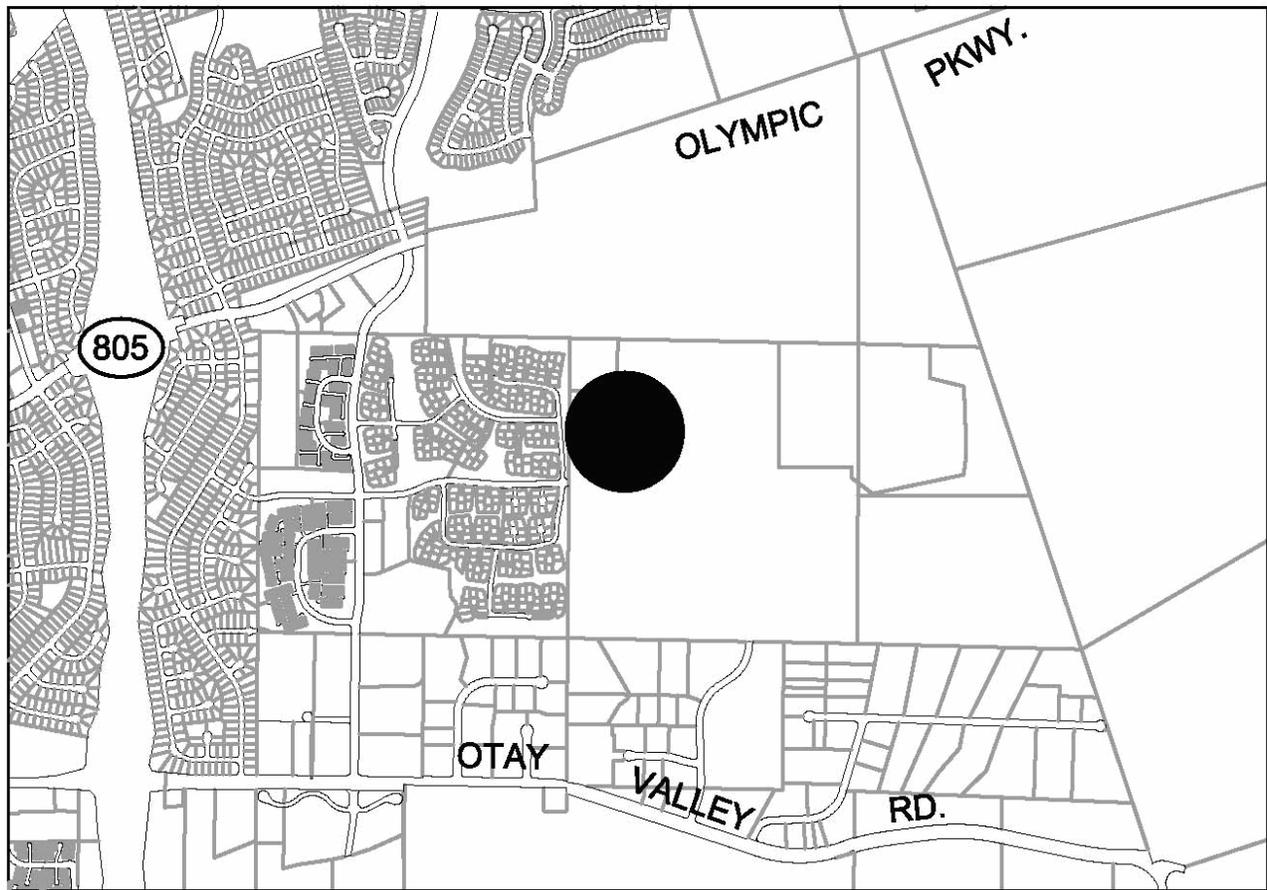
PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/07	10/07
DESIGN:	11/07	03/08
CONSTRUCTION:	04/08	06/09

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
	\$10,700	\$11,000	\$11,300	\$11,600	\$11,900	\$56,500

PROJECT LOCATION: **Thomas Bros. Map: 1330** **OWD Map Book: 66**



Submitted By: Ron Ripperger

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2093

PROJECT TITLE: MBR City of Chula Vista

WORK ORDER NO: n/a

DIRECTOR DIVISION:

PROJECT MANAGER: Peasley

I.D. LOCATION:

ORIGINAL APPROVED DATE:

PRIORITY: 1

RELATED CIP PROJECTS: R2090

BUDGET AMOUNT: \$5,000,000

DESCRIPTION OF PROJECT:

This project is to fund the joint water recycling facility feasibility efforts for future recycled water supply needs. The potential partners for this effort are the City of Chula Vista and Otay WD.

JUSTIFICATION OF PROJECT:

This project has the potential to create a new and much needed recycled water supply source for the Otay WD.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$50	\$50	\$50	\$50	\$1,500	\$3,300	\$5,000

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2093

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/08

06/09

DESIGN:

07/09

06/11

CONSTRUCTION:

07/11

12/13

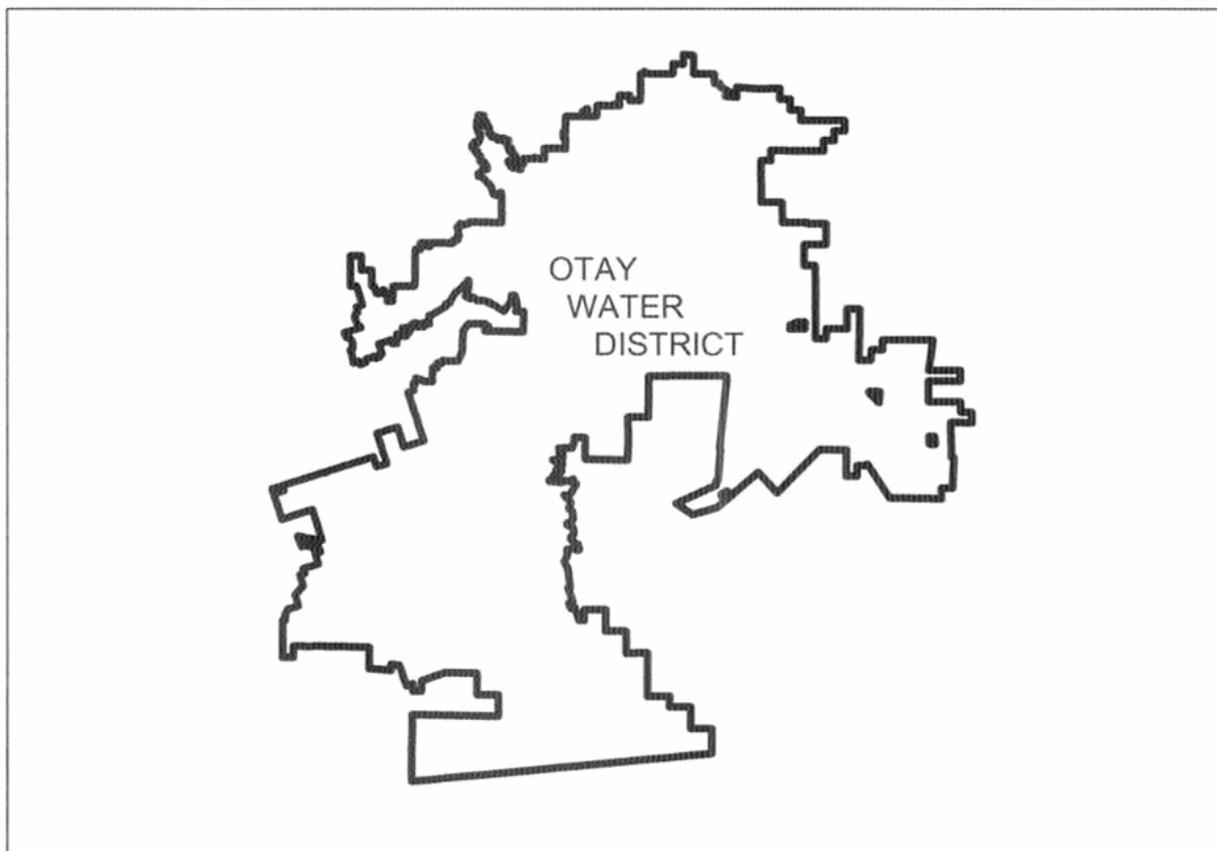
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: S2016

PROJECT TITLE: Solar Panel Installation Phase I

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	4
PROJECT MANAGER:	Ripperger	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$710,000

DESCRIPTION OF PROJECT:

The solar panel installation of a 65 KW AC solar system at the roof of the operations building or on the administration building.

JUSTIFICATION OF PROJECT:

The installation of the solar panels will potentially assist in reducing electrical costs and aid in the effort to provide a clean environment. The photovoltaic system can produce electricity from a clean, renewable resource without noise or air pollution.

COMMENTS:

An average commercial photovoltaic system costs from about \$8 to \$10 per AC watt. The California Public Utilities Commission approved the California Solar Initiative (CSI) in November 2006. The CSI program pays the public sector owner such as Otay WD \$0.50 per kwh generated every month to five years.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$10	\$100	\$200	\$200	\$200			\$710

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: S2016

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/06

09/07

DESIGN:

10/07

12/09

CONSTRUCTION:

01/10

12/11

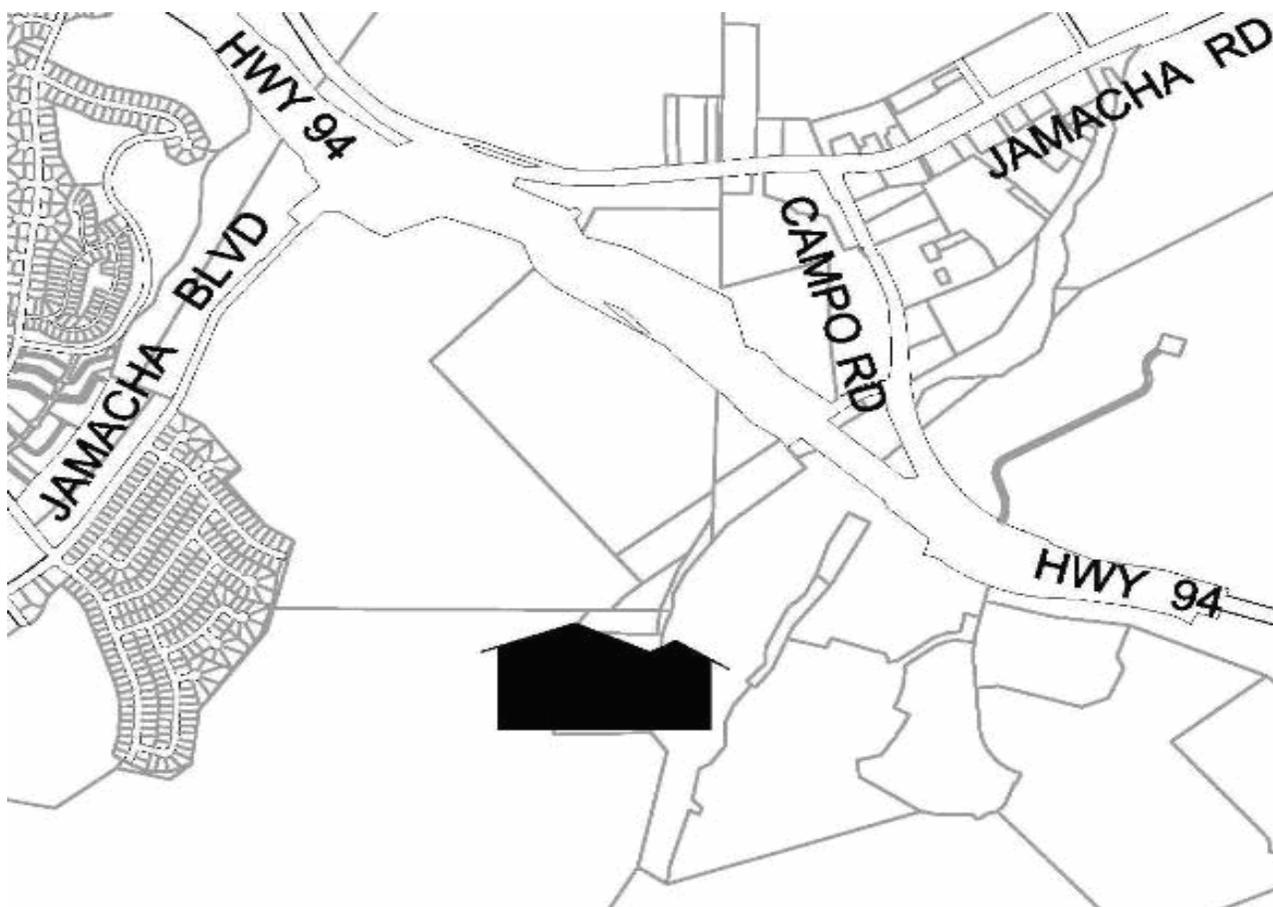
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1271

OWD Map Book: 318



Submitted By: Lisa Coburn-Boyd

Date: 03/10/2008

Replacement/Renewal Projects



**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2356

PROJECT TITLE: PL - 12-Inch, 803 Zone, Jamul Drive Permastran Pipeline Replacement

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Kay	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	5/23/2005	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$815,000

DESCRIPTION OF PROJECT:

Replacement of the existing 12-inch permastran pipeline within Jamul Drive with approximately 3,600 feet of 12-inch main in the 803 Pressure Zone.

JUSTIFICATION OF PROJECT:

The existing permastran pipeline has experienced failures and is sensitive to the normally occurring pressure changes.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$110	\$705						\$815

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2356

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	07/05	08/06
DESIGN:	09/06	03/08
CONSTRUCTION:	04/08	06/09

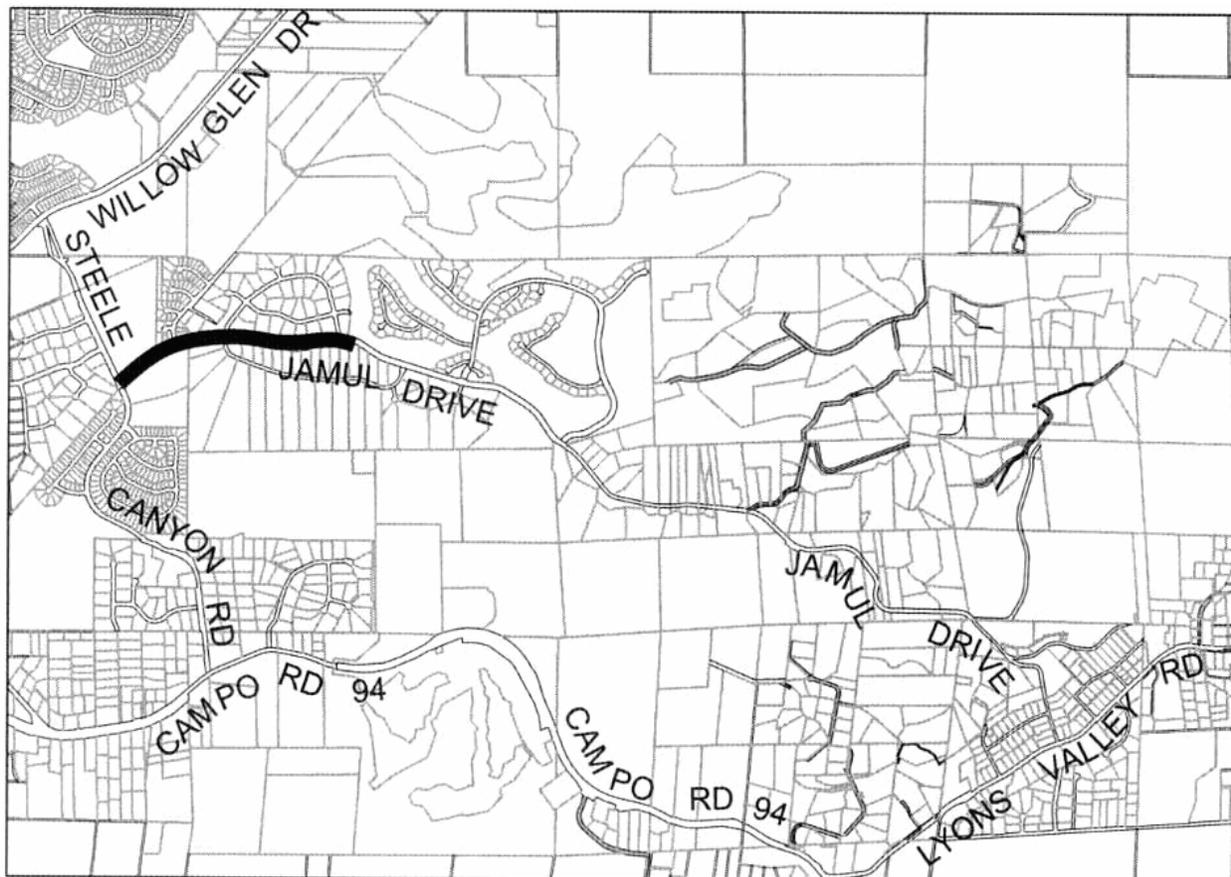
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	TOTAL						
2009	2010	2011	2012	2013	2014		

PROJECT LOCATION:

Thomas Bros. Map: 1272

OWD Map Book: 332



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2366

PROJECT TITLE: APCD Engine Replacements and Retrofits

WORK ORDER NO:	Various	DIRECTOR DIVISION:	
PROJECT MANAGER:	Rahders	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	12/6/2000	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$2,798,000

DESCRIPTION OF PROJECT:

This project is to replace and/or retrofit 14 diesel fuel burning engines with best technology exhaust gas control systems throughout the Otay WD to comply with APCD engine emission regulations. The Otay WD also needs to replace, repower, and/or retrofit the heavy vehicle diesel fleet to comply with upcoming emissions regulations.

JUSTIFICATION OF PROJECT:

The Otay WD is required to replace and/or retrofit 14 of its engines to meet current APCD requirements including the Air Toxics Control Measures, and to be consistent with the intended operation of the engines to meet system demands. The Otay WD also needs to replace, repower, and/or retrofit the heavy vehicle diesel fleet to meet future emissions requirements.

COMMENTS:

See Work Order Nos. 30034, 30043, and 30083.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,638	\$170	\$180	\$190	\$220	\$200	\$200	\$2,798

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2366

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

12/00

06/01

DESIGN:

07/01

06/10

CONSTRUCTION:

07/05

06/14

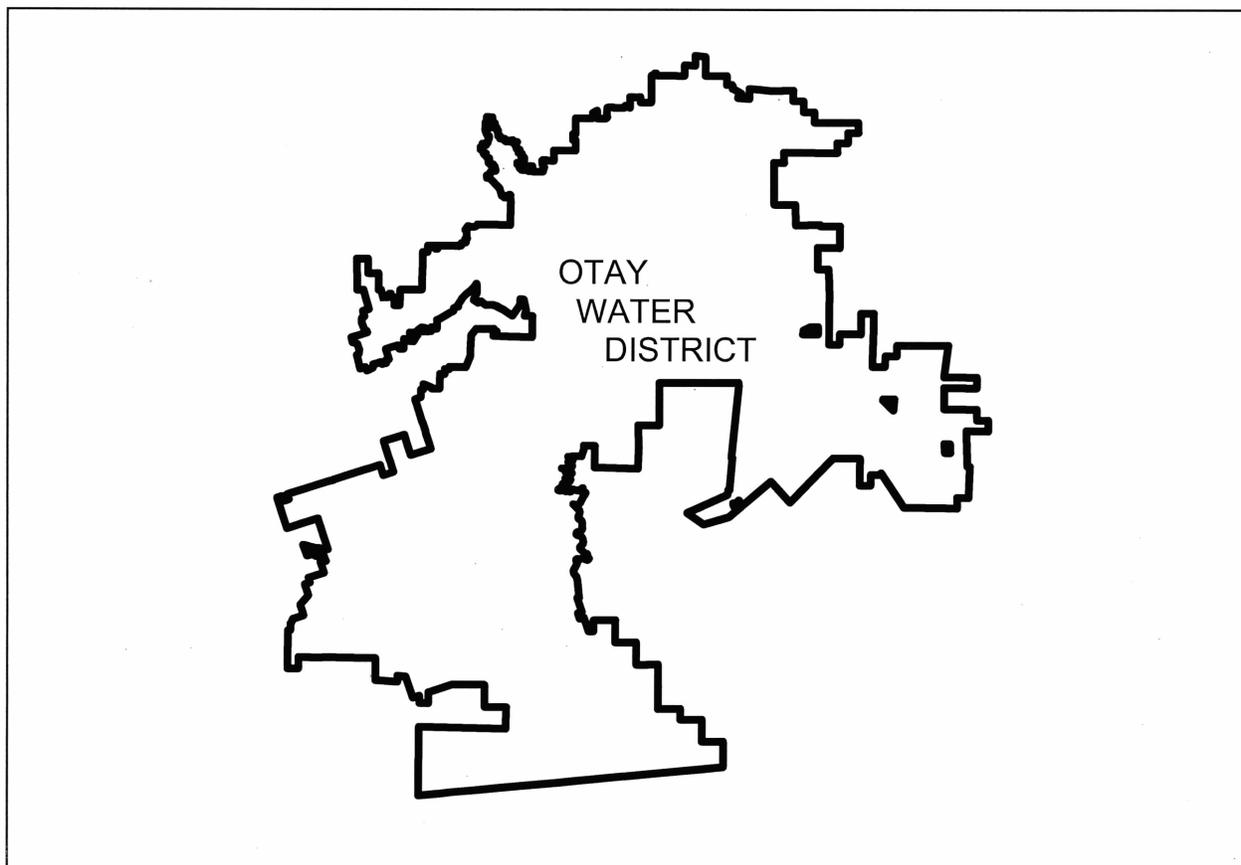
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Lisa Coburn-Boyd

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2382

PROJECT TITLE: Safety and Security Improvements

WORK ORDER NO:	Various	DIRECTOR DIVISION:	
PROJECT MANAGER:	Gerber	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	6/5/2002	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$1,317,000

DESCRIPTION OF PROJECT:

This project is to improve the security of the Otay WD facilities by developing a response plan, installing protection systems, and contracting with a protection monitoring and response service. This project will also include additional safety and security improvements as required throughout the Otay WD. The security improvements are a result of the Otay WD Vulnerability Assessment Report completed in March 2003.

JUSTIFICATION OF PROJECT:

Although existing facilities are relatively safe and secure, the Federal government may mandate that security of water systems be improved by monitoring and response to intrusions. The security improvements are in response to the September 11, 2001 incident and potential future acts of terrorism.

COMMENTS:

See Work Order Nos. 30074 and 30079.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	20%		80%	100%
TOTAL:	20%		80%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,048	\$169	\$40	\$30	\$30			\$1,317

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2382

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/02

08/03

DESIGN:

09/03

06/09

CONSTRUCTION:

08/04

06/12

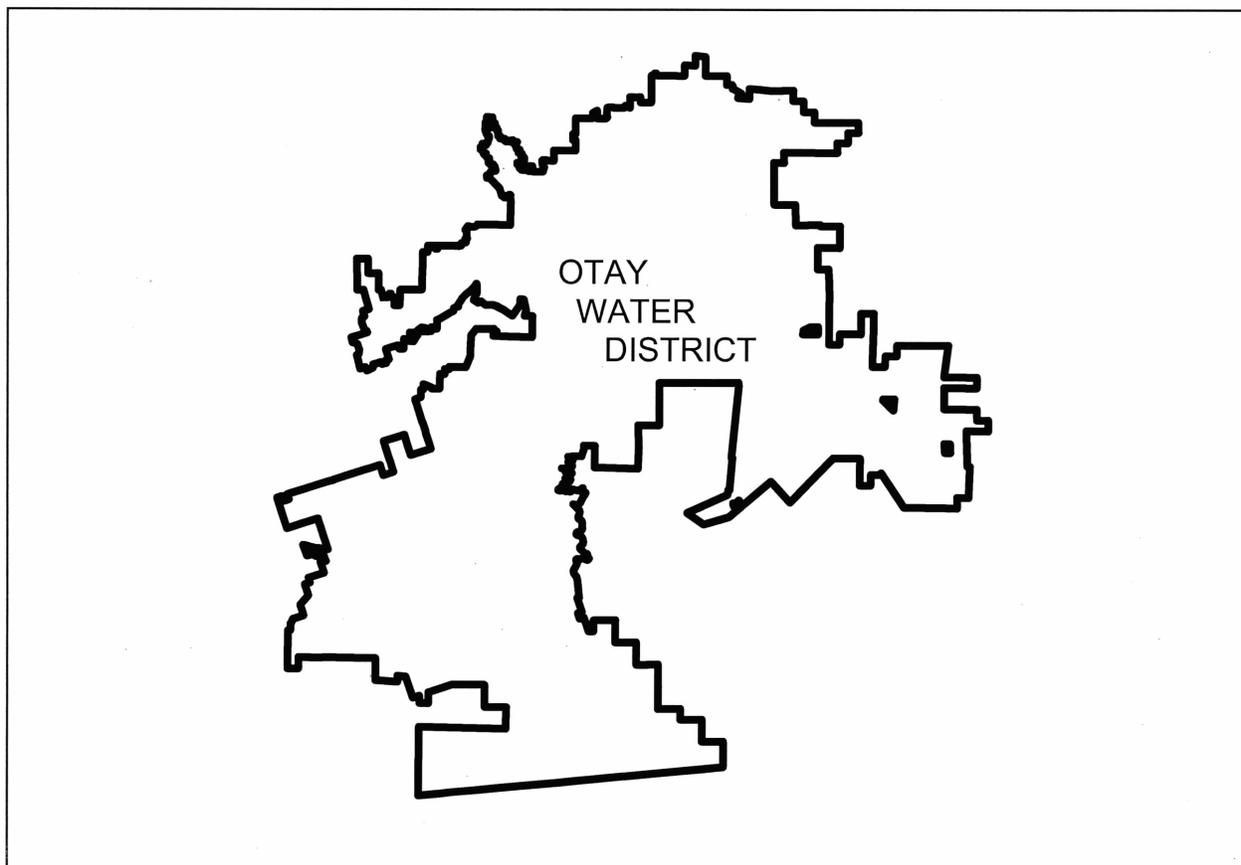
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Gerber

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2416

PROJECT TITLE: SR-125 Utility Relocations

WORK ORDER NO:	Various	DIRECTOR DIVISION:	
PROJECT MANAGER:	Kay	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	6/4/2003	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$870,000

DESCRIPTION OF PROJECT:

This project provides funding for all utility relocations required due to construction of SR-125. Facility relocations vary in size from 8-inch to 24-inch and they impact both the potable and recycled water systems.

JUSTIFICATION OF PROJECT:

Otay River Constructors, under contract with California Transportation Ventures, is constructing SR-125, which conflicts with existing Otay WD facilities at various locations. In some cases, the Otay WD does have prior and superior rights. Various facilities must be relocated to avoid physical conflicts.

COMMENTS:

A master agreement has been signed with Otay River Constructors to define the relationship between the two entities and outline the process for defining the scope and cost of each required facility relocation. See Work Order Nos. 30094 and 30103.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$860	\$10						\$870

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2416

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	10/02	12/03
DESIGN:	01/04	12/05
CONSTRUCTION:	10/04	06/09

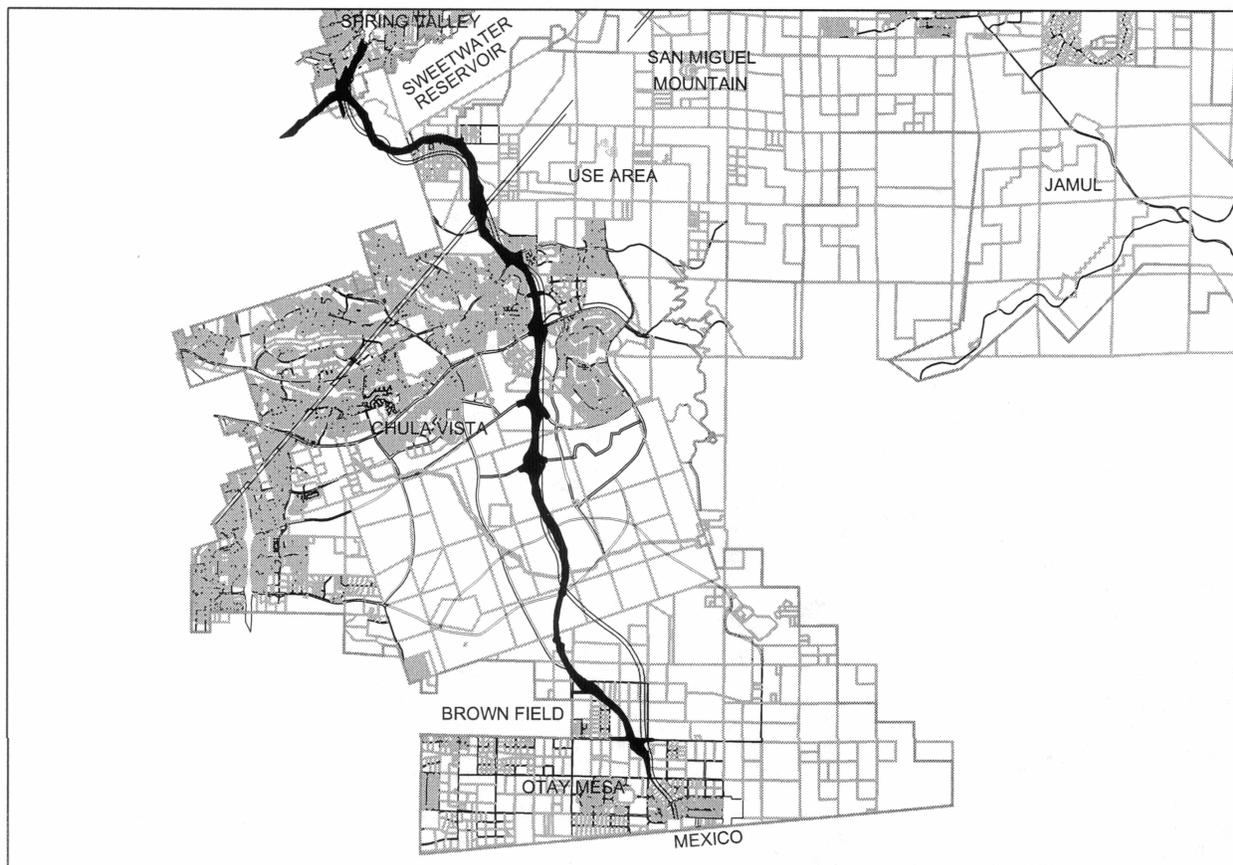
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

| FY |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | TOTAL |
| | | | | | | |

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2422

PROJECT TITLE: Agency Interconnections

WORK ORDER NO:

DIRECTOR DIVISION:

PROJECT MANAGER: Kay

I.D. LOCATION:

ORIGINAL APPROVED DATE: 6/4/2003

PRIORITY: 1

RELATED CIP PROJECTS:

BUDGET AMOUNT: \$1,600,000

DESCRIPTION OF PROJECT:

This project will provide funding to improve the existing interconnections with the Otay WD neighboring agencies. Some of these connections are very old and require the installation of meters, pressure gauges, valves, air/vacuum valves, blow-offs, etc., to ensure efficient, effective, and reliable operation.

JUSTIFICATION OF PROJECT:

The existing interconnections play a vital role in supplying the Otay WD with alternative water resources during an outage or supply shortfall from the normal San Diego County Water Authority (SDCWA) facility, known as Pipeline No. 4. Typically on an annual basis, the SDCWA shuts down Pipeline No. 4 for inspection, maintenance, and/or installation of new system components.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$100	\$250	\$250	\$250	\$250	\$250	\$250	\$1,600

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2422

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/03

06/14

DESIGN:

06/06

06/14

CONSTRUCTION:

07/07

06/14

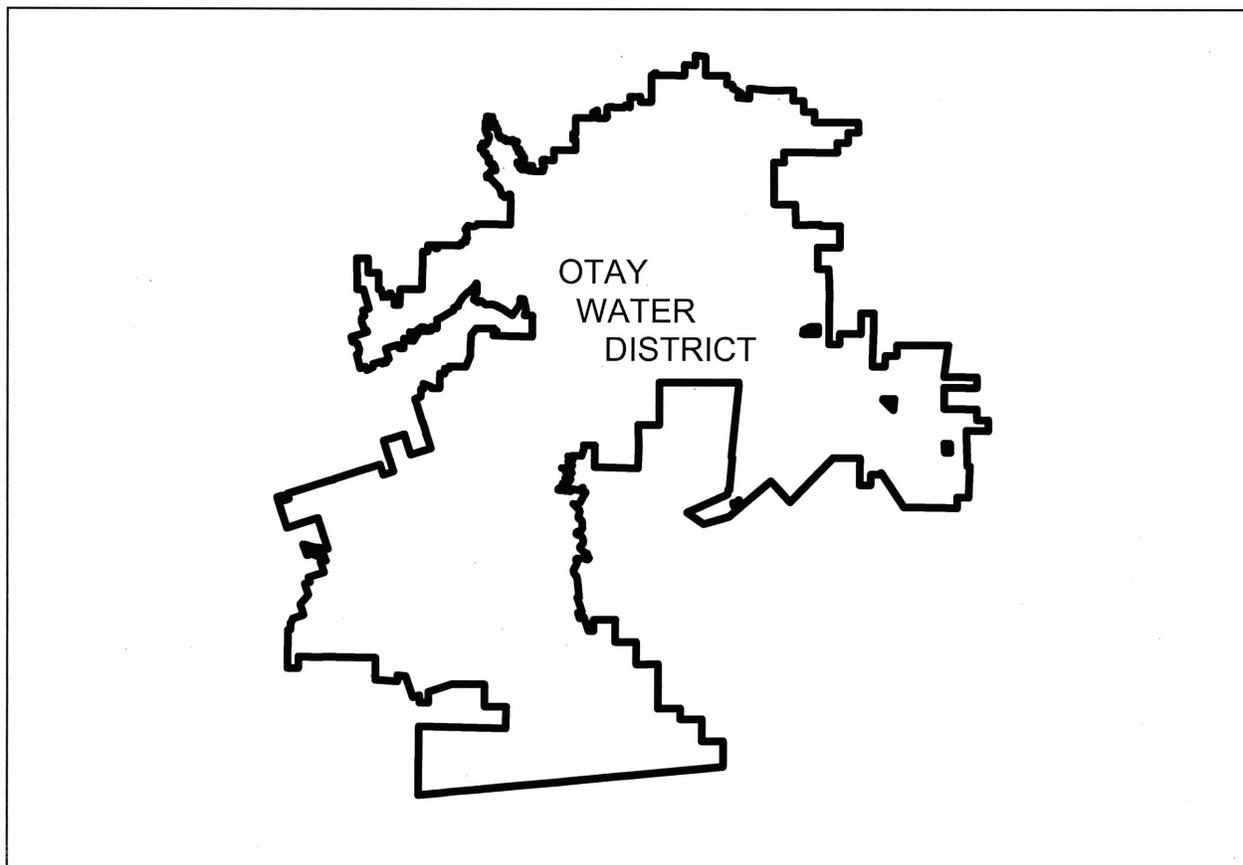
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2440

PROJECT TITLE: I-905 Utility Relocations

WORK ORDER NO:	Various	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Kay	I.D. LOCATION:	7
ORIGINAL APPROVED DATE:	6/2/2004	PRIORITY:	1
RELATED CIP PROJECTS:	P2454	BUDGET AMOUNT:	\$2,460,000

DESCRIPTION OF PROJECT:

This project provides funding for all utility relocations required due to construction of I-905 on the Otay Mesa. Pipeline relocations vary from 12-inch to 24-inch. Five locations have been identified where existing facilities are in conflict with I-905.

JUSTIFICATION OF PROJECT:

Caltrans will construct I-905, which will result in utility conflicts with Otay WD pipelines. In all cases, the Otay WD has prior and superior rights. The facilities must be relocated prior to Caltrans construction of I-905. The cost of the facilities relocations that have prior rights will be reimbursed by Caltrans.

COMMENTS:

Utility agreements were developed by Caltrans for each of the required facility relocations. Any betterment work such as pipeline size increase and /or additional length are at the Otay WD expense. See Work Order Nos. 30128, 30129, 30130, and 30131.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,410	\$925	\$125					\$2,460

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2440

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	01/03	09/06
DESIGN:	10/03	09/06
CONSTRUCTION:	10/06	06/10

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014		

PROJECT LOCATION: Thomas Bros. Map: 1351

OWD Map Book: 10



Submitted By: Daniel Kay

Date: 03/21/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2441

PROJECT TITLE: NG/RAMAR Meter Replacements

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Henderson	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:	P2458	BUDGET AMOUNT:	\$2,035,000

DESCRIPTION OF PROJECT:

This project is to replace the existing meters that were installed in recent years that have become inoperable due to allowed frequencies by the Federal Communication Commission.

JUSTIFICATION OF PROJECT:

The Otay WD is currently in pending litigation to recoup the cost of replacing the non functioning NG/Ramar meters. The Board has directed staff to proceed with the replacements. The replaced meters are being retained for potential legal purposes.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,935	\$100						\$2,035

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2441

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

DESIGN:

CONSTRUCTION:

12/06

06/09

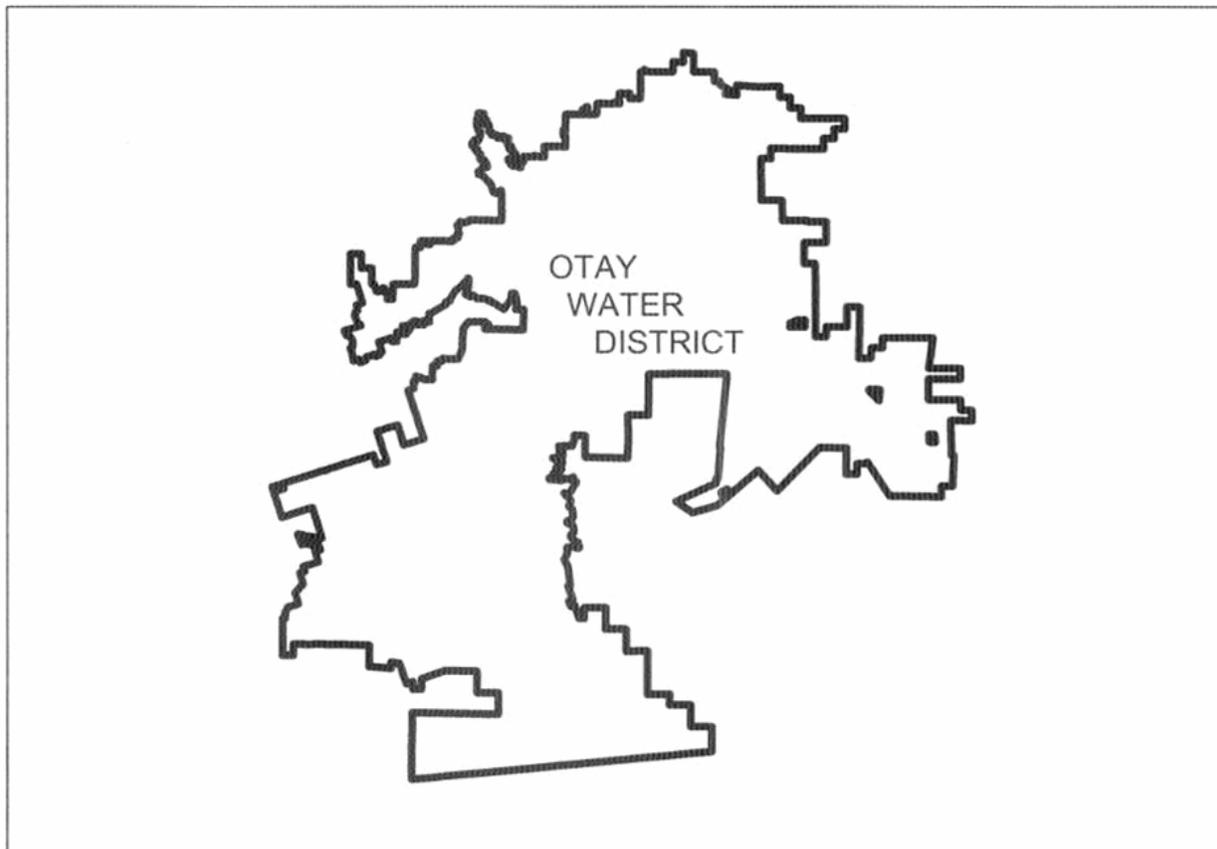
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Don Henderson

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2453

PROJECT TITLE: SR-11 Utility Relocations

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Kay	I.D. LOCATION:	7
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$500,000

DESCRIPTION OF PROJECT:

This project provides funding for all utility relocations required due to construction of SR-11 on the Otay Mesa. Facility relocations vary in size from 8-inch to 24-inch. Both the potable and recycled water systems are impacted.

JUSTIFICATION OF PROJECT:

Caltrans will construct SR-11, which will result in utility conflicts with existing Otay WD facilities at various locations. In most cases, the Otay WD does have prior and superior rights. The facilities must be relocated prior to Caltrans construction of SR-11. The cost of the facilities relocations that have prior rights will be reimbursed by Caltrans.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$5	\$165	\$125	\$205			\$500

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2453

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/06

06/09

DESIGN:

07/07

10/09

CONSTRUCTION:

11/09

06/12

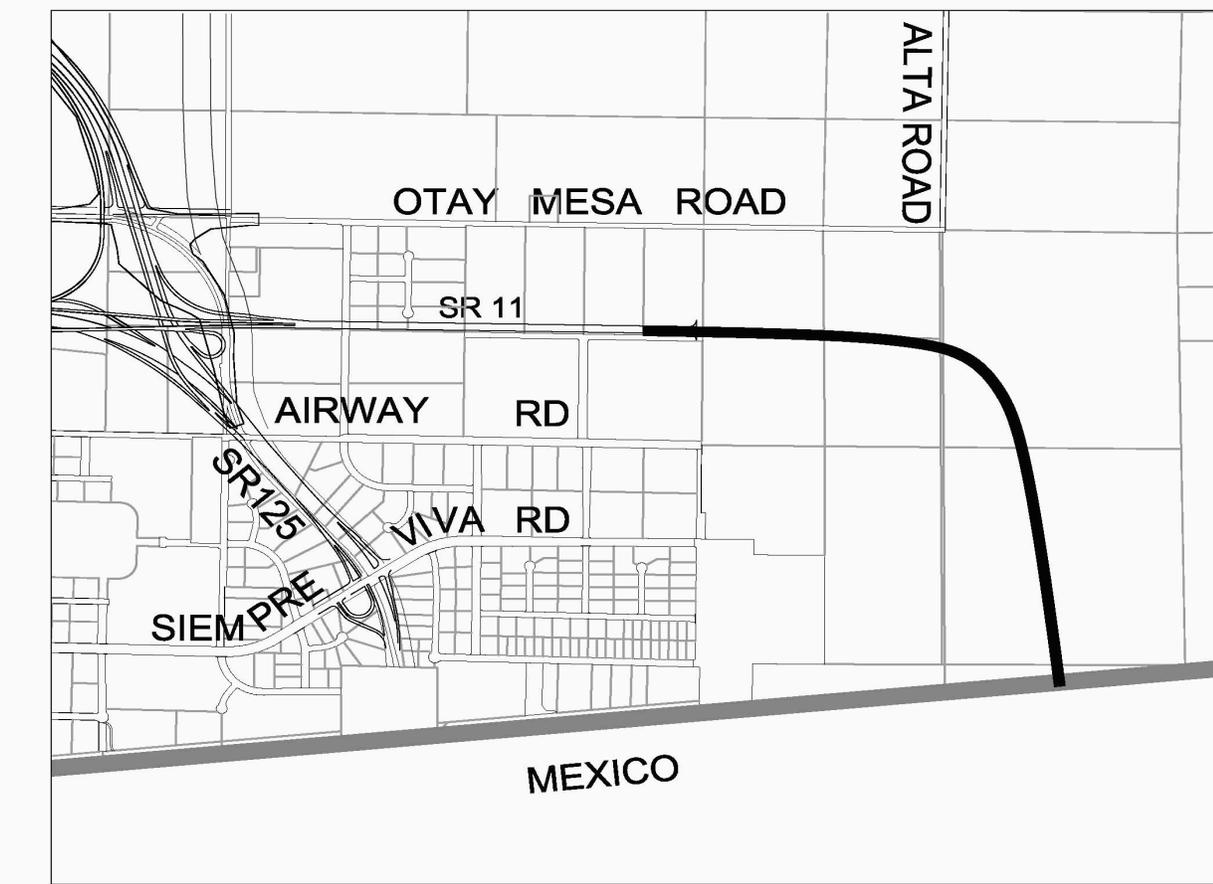
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1351

OWD Map Book: 5



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2456

PROJECT TITLE: Air and Vacuum Valve Upgrades

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Henderson	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$4,214,000

DESCRIPTION OF PROJECT:

This project is to provide funding for the upgrading of approximately 750 existing air and vacuum valves that are currently below grade.

JUSTIFICATION OF PROJECT:

The current Department of Health regulations require that all potable air and vacuum valves be installed above grade to eliminate the possibility of back siphoning ground water into the potable water system in the event of pressure loss within the water system.

COMMENTS:

Some of the existing air and vacuum valves are located in streets and roadways. These facilities will require extension of the piping outside of the traveled way. It is planned to upgrade approximately 140 units per year.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund		26%	74%	100%
TOTAL:		26%	74%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$704	\$520	\$550	\$580	\$600	\$620	\$640	\$4,214

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2456

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

DESIGN:

CONSTRUCTION:

07/06

06/14

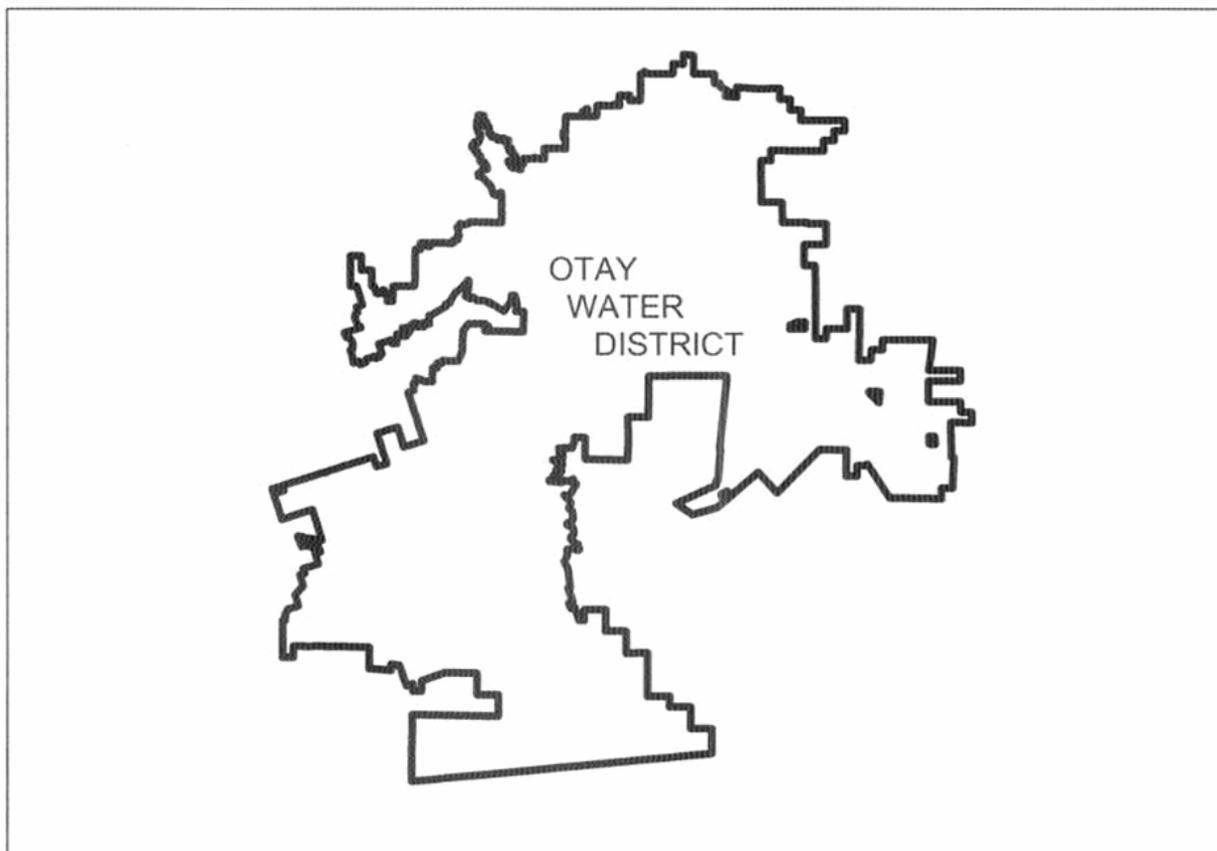
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Don Henderson

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2458

PROJECT TITLE: AMR Manual Meter Replacement

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Henderson	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2006	PRIORITY:	1
RELATED CIP PROJECTS:	P2441	BUDGET AMOUNT:	\$10,277,000

DESCRIPTION OF PROJECT:

This project will provide funding to replace all manually read meters with AMR meters. Approximately 34,700 existing manual 3/4-inch meters will be replaced with the AMR meter.

JUSTIFICATION OF PROJECT:

This program will benefit the Otay WD in the form of reducing manpower resources as the water systems are expanded.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,052	\$1,250	\$1,375	\$1,500	\$1,650	\$1,700	\$1,750	\$10,277

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2458

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

DESIGN:

CONSTRUCTION:

07/06

06/14

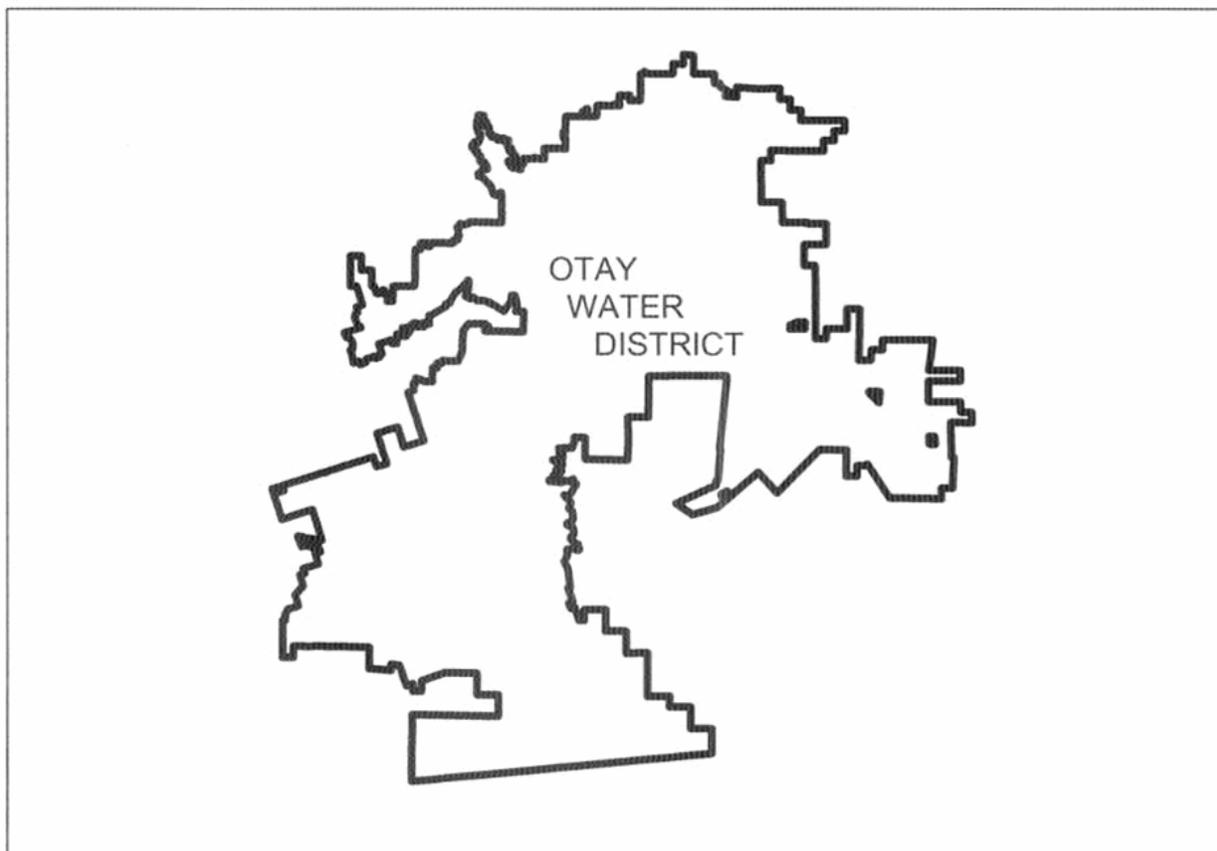
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
\$-36,500	\$-34,500	\$-34,700	\$-39,300	\$-40,400	\$-41,000	\$-226,400

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Don Henderson

Date: 02/15/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2086

PROJECT TITLE: RWCWRF Force Main AirVac Replacements and Road Improvements

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	3
PROJECT MANAGER:	Kay	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2005	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$1,300,000

DESCRIPTION OF PROJECT:

Replacement of 21 existing two inch air release and vacuum valves on the recycled water force main from the RWCWRF to the Use Area with improved capacity and corrosion resistance features. The existing seven isolation valves on the force main will be replaced. The existing roadway along the force main will be improved.

JUSTIFICATION OF PROJECT:

The existing air release and vacuum valves on the force main have failed frequently, which causes unauthorized discharges of recycled water. The existing isolation valves are corroded and exhibit signs of leakage. The existing access road along the force main is damaged and improvements will increase safety for operations personnel.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$300	\$1,000						\$1,300

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2086

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/05

07/06

DESIGN:

08/06

05/08

CONSTRUCTION:

06/08

06/09

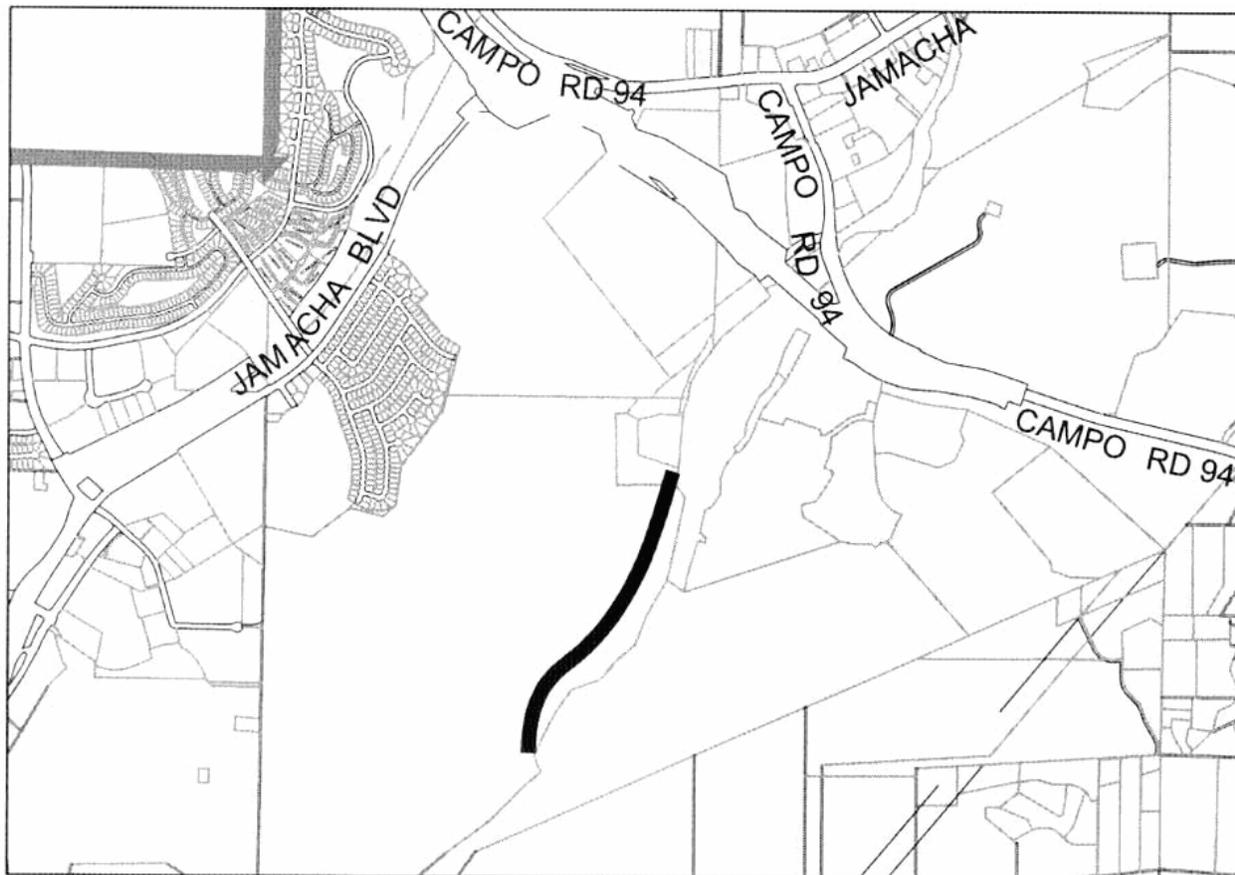
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1271

OWD Map Book: 319



Submitted By: Daniel Kay

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: S2012

PROJECT TITLE: SVSD Outfall and RSD Replacement and OM Reimbursement

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Peasley	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	6/4/2003	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$2,846,000

DESCRIPTION OF PROJECT:

This project provides funding for the Otay WD proportionate share of the SVSD total costs for replacement of various system components of the existing Spring Valley and Rancho San Diego Outfall Systems per terms of an existing agreement with the SVSD. The reimbursement also includes a proportionate share of operating and maintenance costs.

JUSTIFICATION OF PROJECT:

Various components of the SVSD Spring Valley Outfall and the Rancho San Diego Outfall are in very bad condition and are need of repair and/or replacement.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,886	\$430	\$130	\$100	\$100	\$100	\$100	\$2,846

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: S2012

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/03

06/14

DESIGN:

CONSTRUCTION:

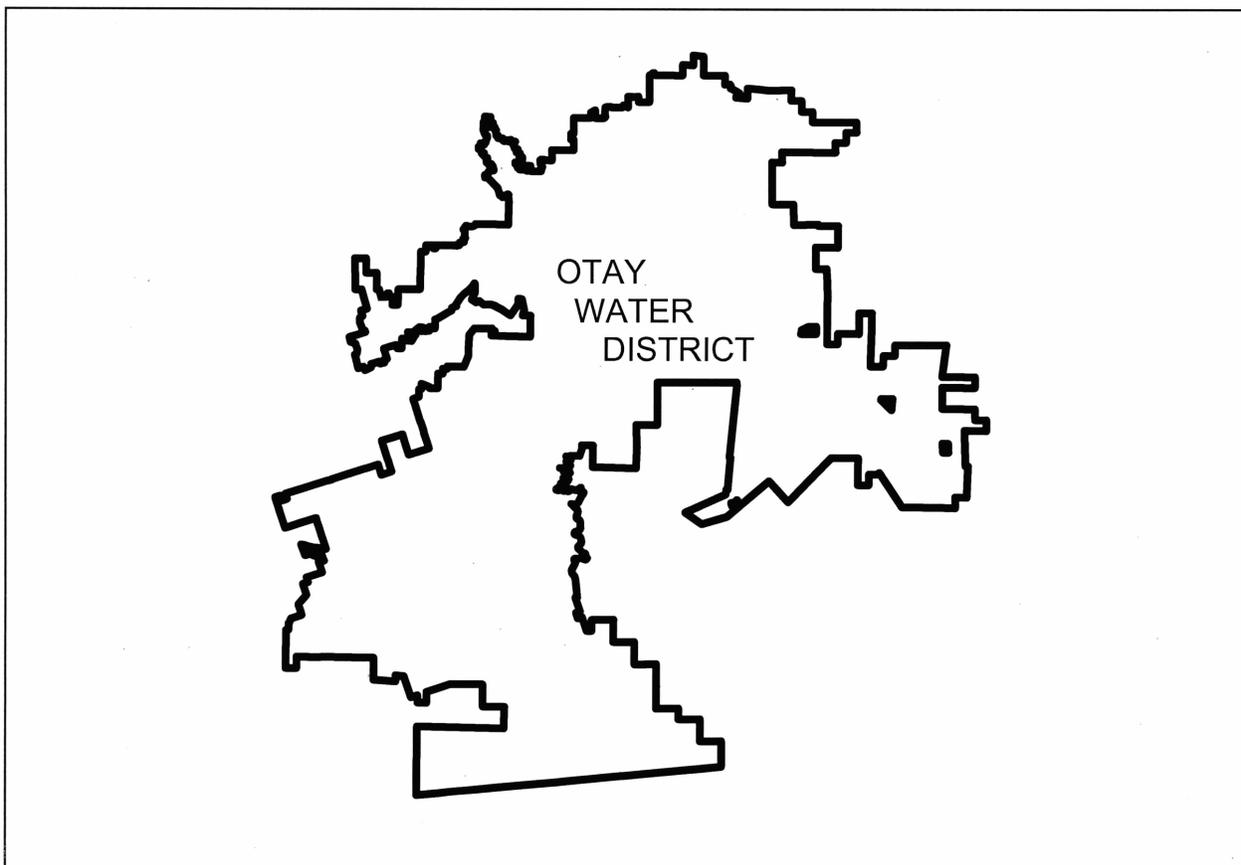
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Jim Peasley

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: S2015

PROJECT TITLE: Calavo Lift Station Replacement

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Kay	I.D. LOCATION:	14
ORIGINAL APPROVED DATE:	5/23/2005	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$526,000

DESCRIPTION OF PROJECT:

Construction of a new sewer lift station to replace the existing lift station.

JUSTIFICATION OF PROJECT:

The existing lift station has no remaining useful life, has groundwater intrusion problems, and replacement and repair components are hard to find.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$226	\$300						\$526

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: S2015

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE:	ESTIMATED FINISH DATE:
PLANNING:	12/05	08/06
DESIGN:	09/06	02/08
CONSTRUCTION:	03/08	06/09

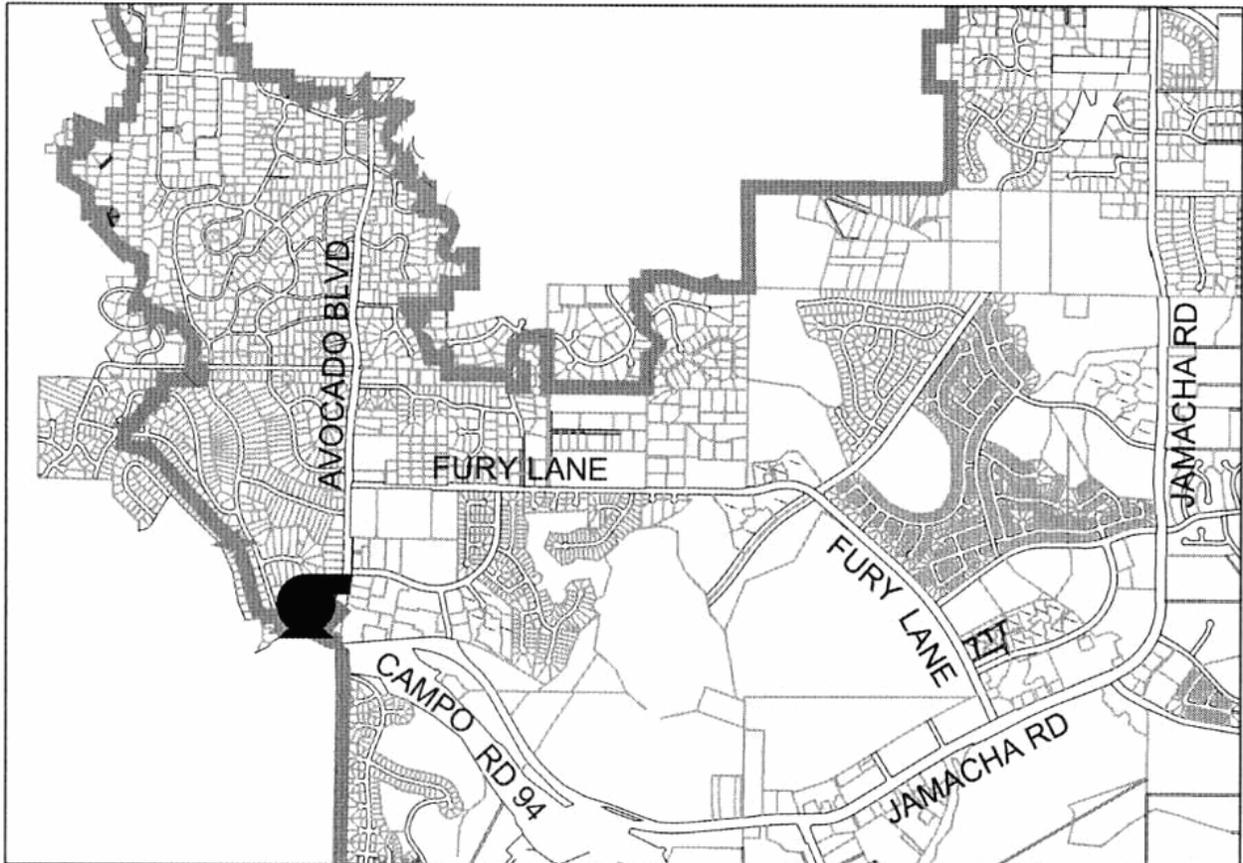
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1271

OWD Map Book: 342



Submitted By: Daniel Kay

Date: 02/26/2008

Capital Purchase Projects



**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2282

PROJECT TITLE: Vehicle Capital Purchases

WORK ORDER NO:

DIRECTOR DIVISION:

PROJECT MANAGER: Porras

I.D. LOCATION:

ORIGINAL APPROVED DATE: 6/3/1996

PRIORITY: 1

RELATED CIP PROJECTS:

BUDGET AMOUNT: \$2,689,000

DESCRIPTION OF PROJECT:

This project provides funding for capital purchase of various vehicles for daily Otay WD functions.

JUSTIFICATION OF PROJECT:

Replacements or newly acquired vehicles will be used for operational and administrative functions throughout the entire Otay WD.

COMMENTS:

It is planned to purchase twelve vehicles in fiscal year 2009.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$1,371	\$228	\$220	\$220	\$220	\$220	\$210	\$2,689

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2282

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

12/00

06/14

DESIGN:

CONSTRUCTION:

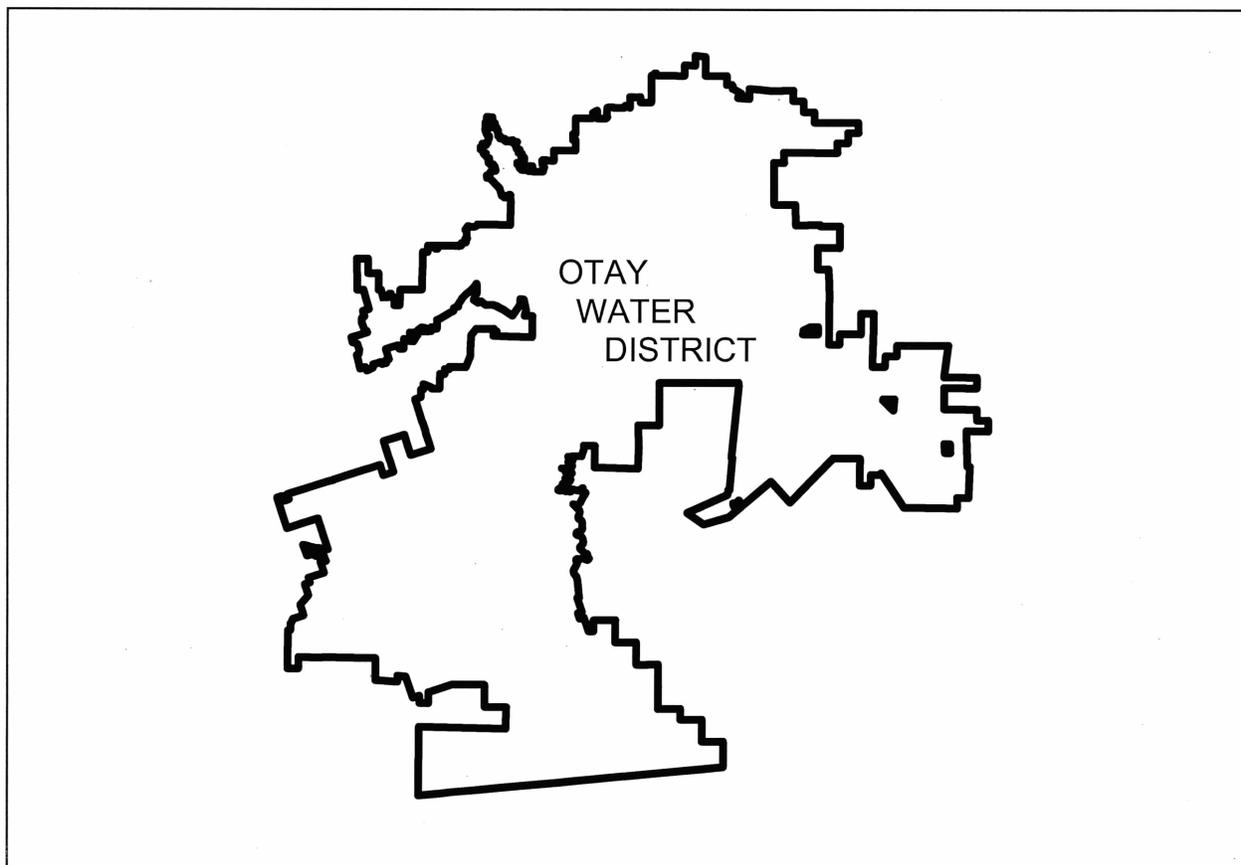
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Pedro Porras

Date: 03/19/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2285

PROJECT TITLE: Office Equipment and Furniture Capital Purchases

WORK ORDER NO:	Various	DIRECTOR DIVISION:	
PROJECT MANAGER:	Bell	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	6/3/1996	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$576,000

DESCRIPTION OF PROJECT:

This project provides funding for capital purchase of various office equipment and furniture items used for daily Otay WD functions.

JUSTIFICATION OF PROJECT:

Replacements or new acquisitions of office equipment and furniture will be used for operational and administrative functions throughout the entire Otay WD.

COMMENTS:

See Work Order Nos. 9178, 9231, 9232, 30013, and 30080.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$256	\$20	\$60	\$60	\$60	\$60	\$60	\$576

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2285

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

12/00

06/14

DESIGN:

CONSTRUCTION:

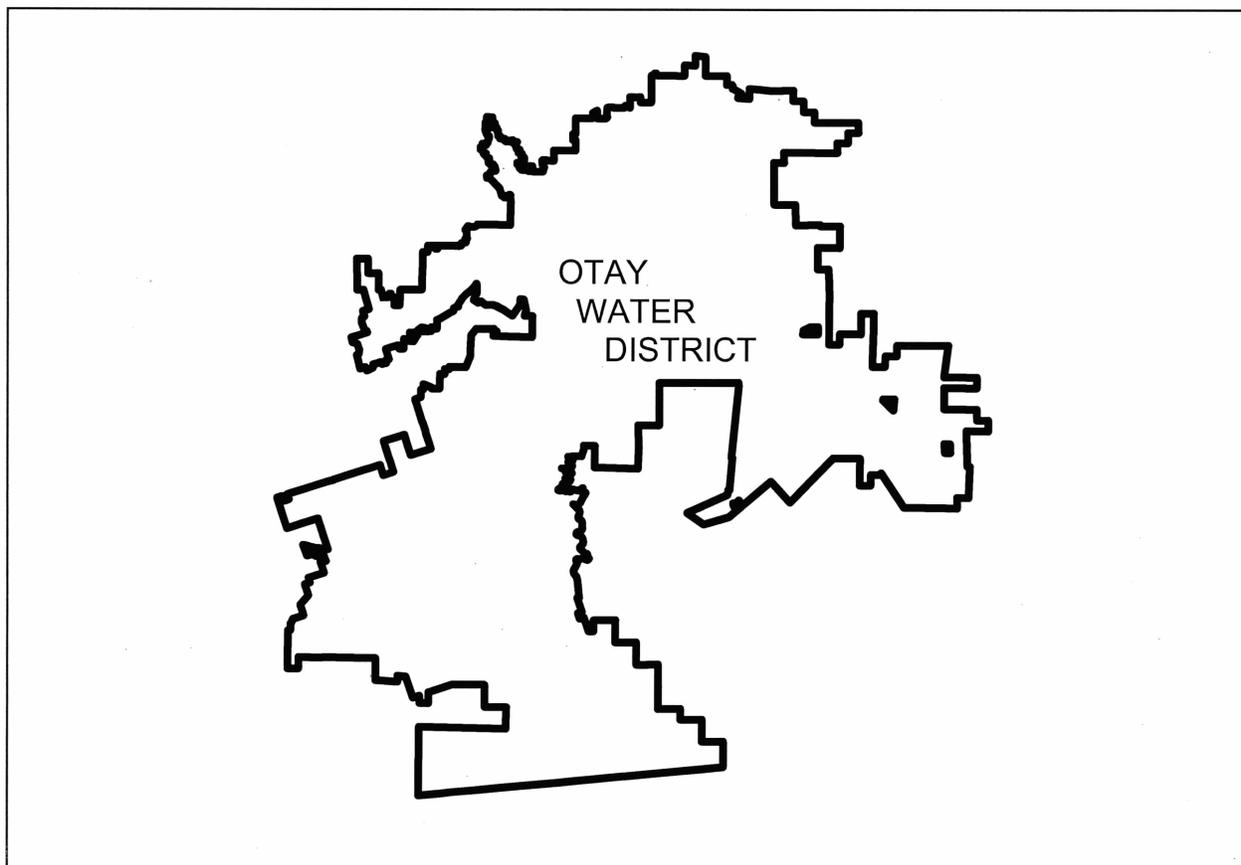
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Rita Bell

Date: 03/19/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2286

PROJECT TITLE: Field Equipment Capital Purchases

WORK ORDER NO:

DIRECTOR DIVISION:

PROJECT MANAGER: Porras

I.D. LOCATION:

ORIGINAL APPROVED DATE: 6/3/1996

PRIORITY: 1

RELATED CIP PROJECTS:

BUDGET AMOUNT: \$1,161,000

DESCRIPTION OF PROJECT:

This project provides funding for capital purchase of various pieces of field equipment used for daily Otay WD functions.

JUSTIFICATION OF PROJECT:

Replacements or new acquisitions of field equipment will be used for operational and administrative functions throughout the entire Otay WD.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$616	\$45	\$100	\$100	\$100	\$100	\$100	\$1,161

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2286

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

12/00

06/14

DESIGN:

CONSTRUCTION:

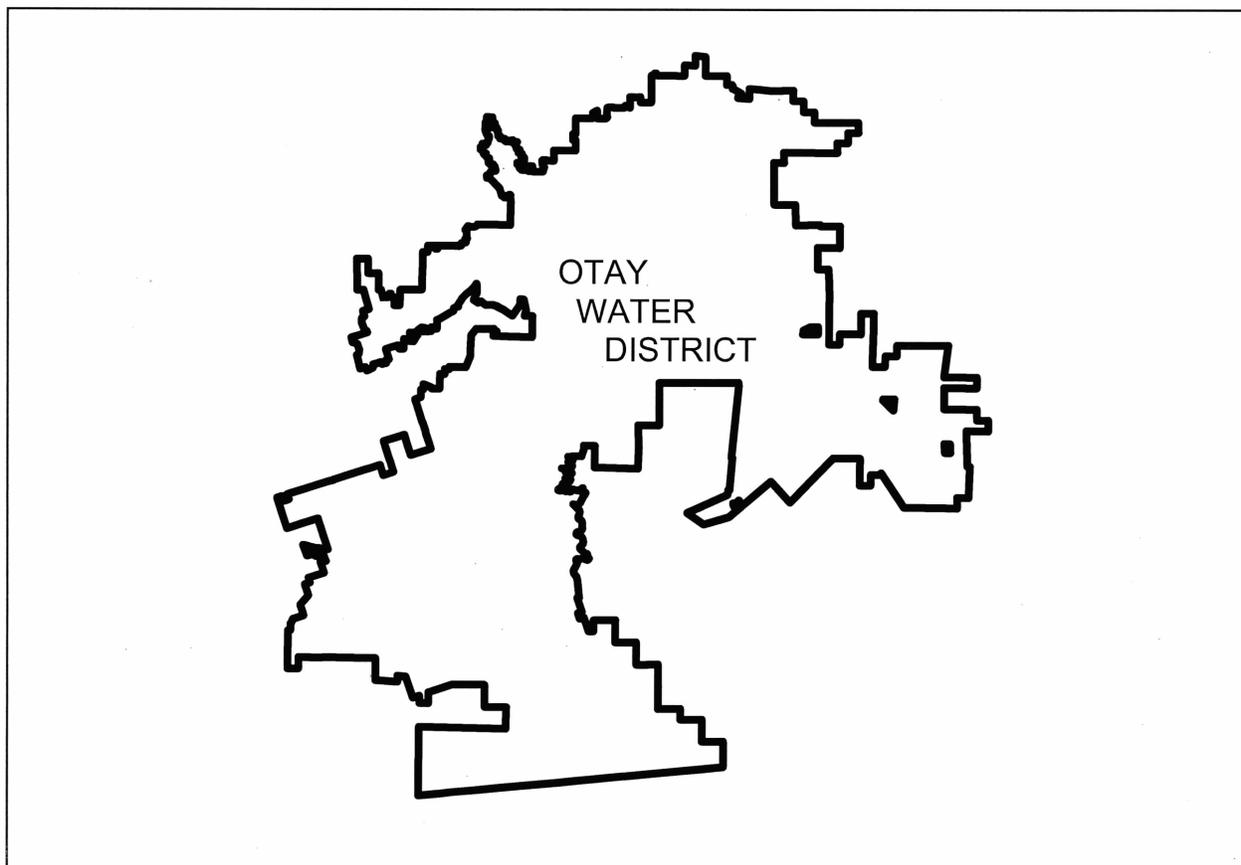
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Pedro Porras

Date: 03/19/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2443

PROJECT TITLE: Information Technology Mobile Services

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Stevens	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/23/2005	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$1,502,000

DESCRIPTION OF PROJECT:

This project will provide for the testing and integration of mobile data and information services to field staff members.

JUSTIFICATION OF PROJECT:

The Otay WD is implementing new work processes that will require field access to GIS data and support field automation such as GPS expansion. This project will ensure that the technology is appropriate and implemented in a planned and cost effective manner.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	25%		75%	100%
TOTAL:	25%		75%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$652	\$250	\$150	\$150	\$150	\$150		\$1,502

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2443

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/05

06/13

DESIGN:

CONSTRUCTION:

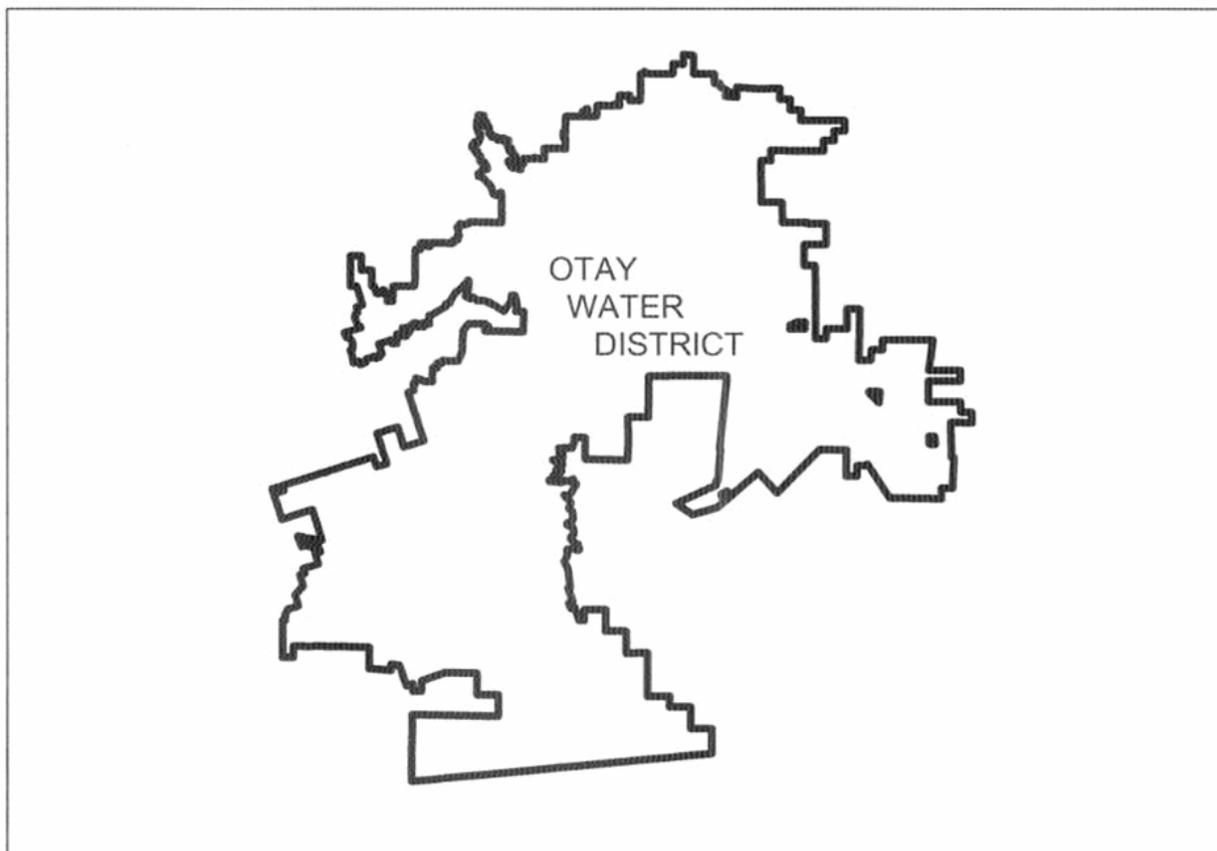
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
\$18,000	\$18,500	\$19,100	\$19,700	\$20,300	\$20,900	\$116,500

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Geoff Stevens

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2461

PROJECT TITLE: Records Management System Upgrade

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Jenkins	I.D. LOCATION:	
ORIGINAL APPROVED DATE:	5/29/2007	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$150,000

DESCRIPTION OF PROJECT:

This project will continue with the expansion of the current records management system to capture existing paper records, scan, categorize, and expand scanning capabilities to all Otay WD departments.

JUSTIFICATION OF PROJECT:

This project is required to achieve strategic objectives for business process improvements. Also, required to meet demands for business backup and recovery goals.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	25%		75%	100%
TOTAL:	25%		75%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$100	\$50						\$150

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2461

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/07

06/09

DESIGN:

CONSTRUCTION:

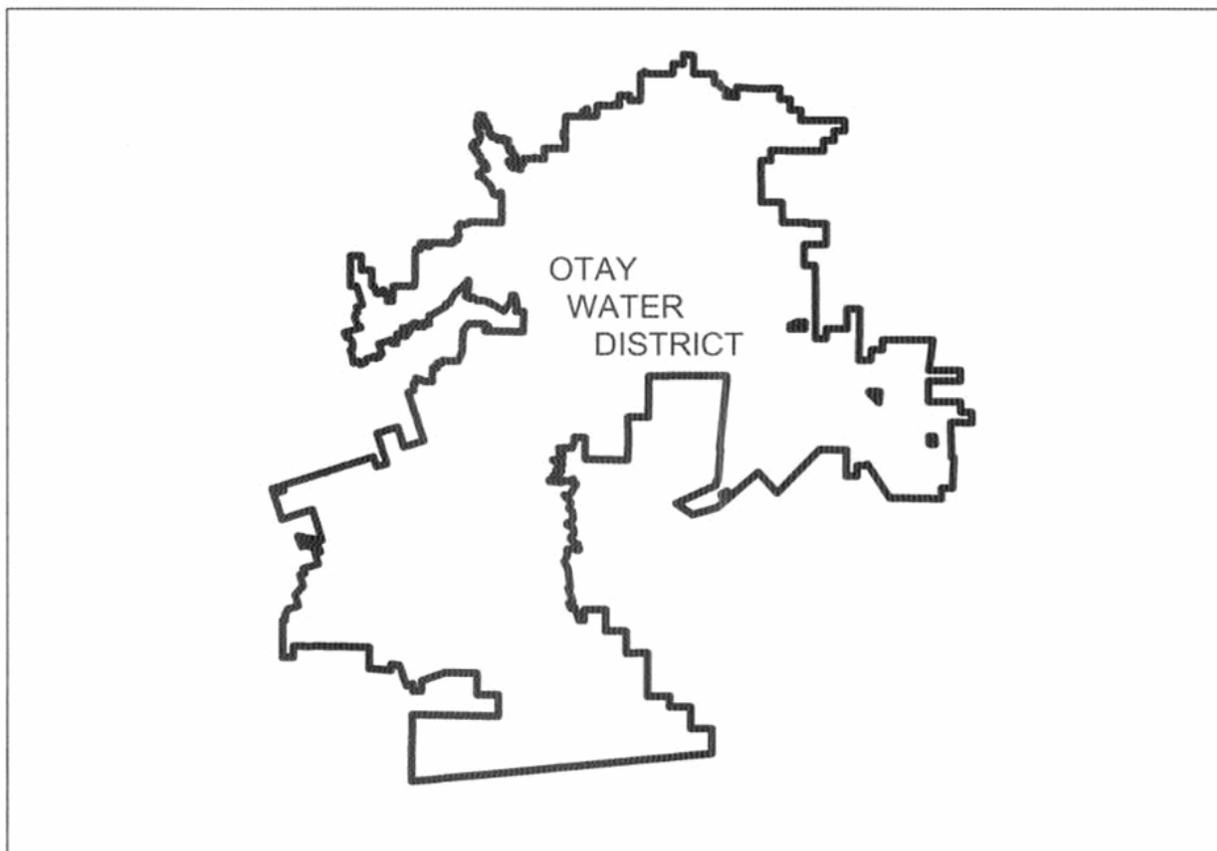
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Bill Jenkins

Date: 04/18/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2469

PROJECT TITLE: Information Technology Network and Hardware

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Jenkins	I.D. LOCATION:	
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:	P2353	BUDGET AMOUNT:	\$1,900,000

DESCRIPTION OF PROJECT:

This project is to provide hardware and operating system improvements to the data center, network, and communications infrastructure.

JUSTIFICATION OF PROJECT:

The network facilities require additions of hardware and software to meet new demands. These needs support OIS, network switch, and servers.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund		40%	60%	100%
TOTAL:		40%	60%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$500	\$300	\$200	\$300	\$300	\$300	\$1,900

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2469

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/08

06/14

DESIGN:

CONSTRUCTION:

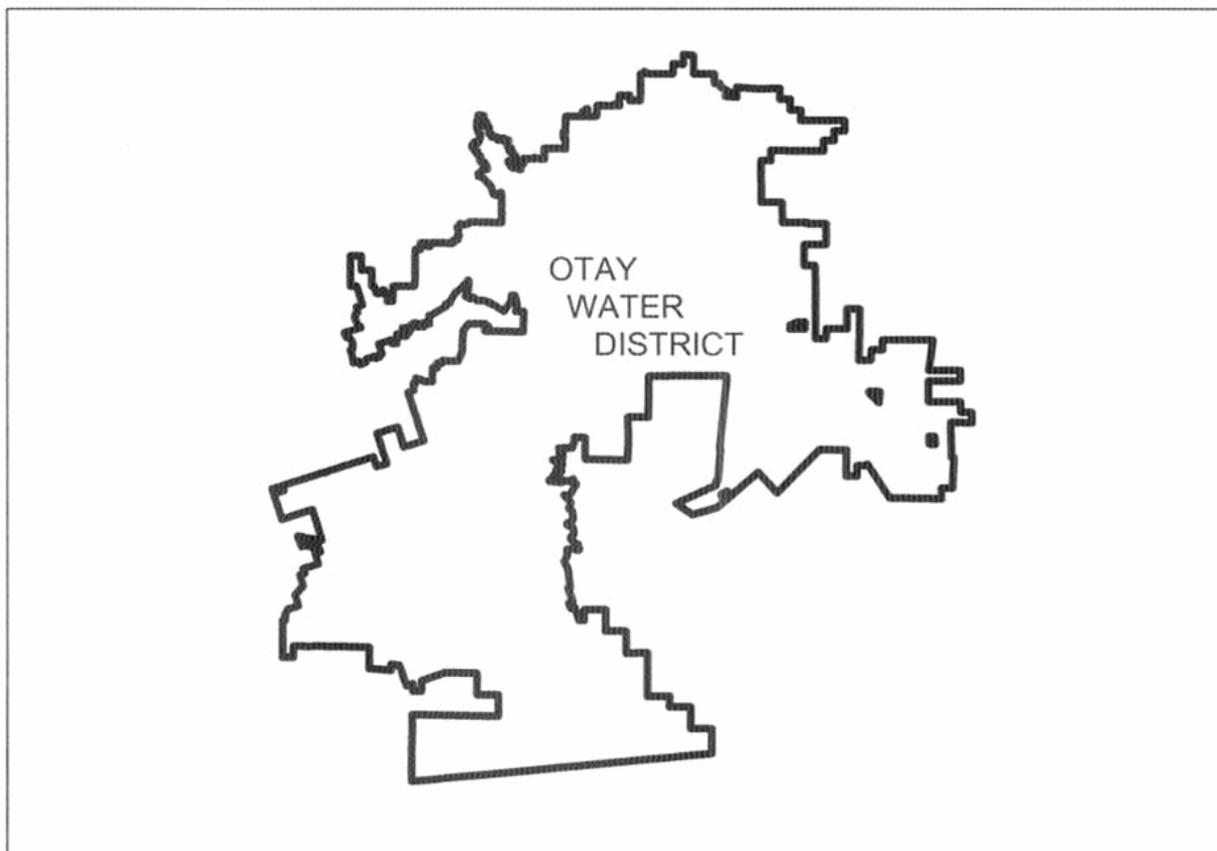
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Bill Jenkins

Date: 02/14/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2470

PROJECT TITLE: Application Systems Development and Integration

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	
PROJECT MANAGER:	Stevens	I.D. LOCATION:	
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$1,380,000

DESCRIPTION OF PROJECT:

This project is for to develop enhancements and new integration functionality for Eden, GIS, IMS, and related core application systems.

JUSTIFICATION OF PROJECT:

New business processes and enhanced capabilities require current systems to be modified to achieve required integration.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund		40%	60%	100%
TOTAL:		40%	60%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$380	\$200	\$200	\$200	\$200	\$200	\$1,380

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2470

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/08

06/14

DESIGN:

CONSTRUCTION:

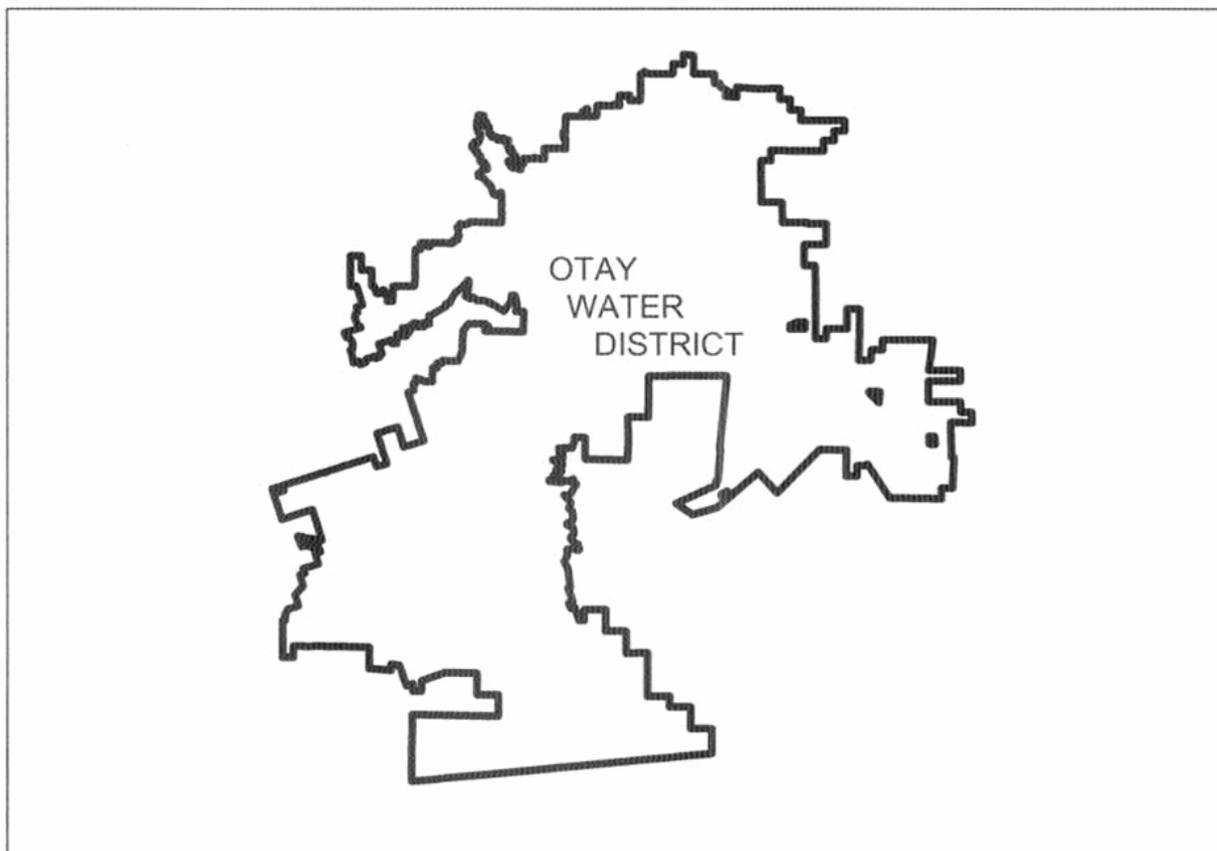
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: District Wide

OWD Map Book: District Wide



Submitted By: Geoff Stevens

Date: 03/19/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2478

PROJECT TITLE: Administration Building Engine/Generator Set

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	4
PROJECT MANAGER:	Anderson	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:		PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$80,000

DESCRIPTION OF PROJECT:

This project is to provide funding for a new engine and generator package to provide backup electrical power for the Administration building. The existing Administration building engine and generator package will be relocated to provide backup electrical power for the Operations building.

JUSTIFICATION OF PROJECT:

The existing engine and generator package to provide backup electrical power for the Administration building is under sized for the electrical load requirements.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund			100%	100%
TOTAL:			100%	100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$80						\$80

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2478

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

DESIGN:

CONSTRUCTION:

07/08

06/09

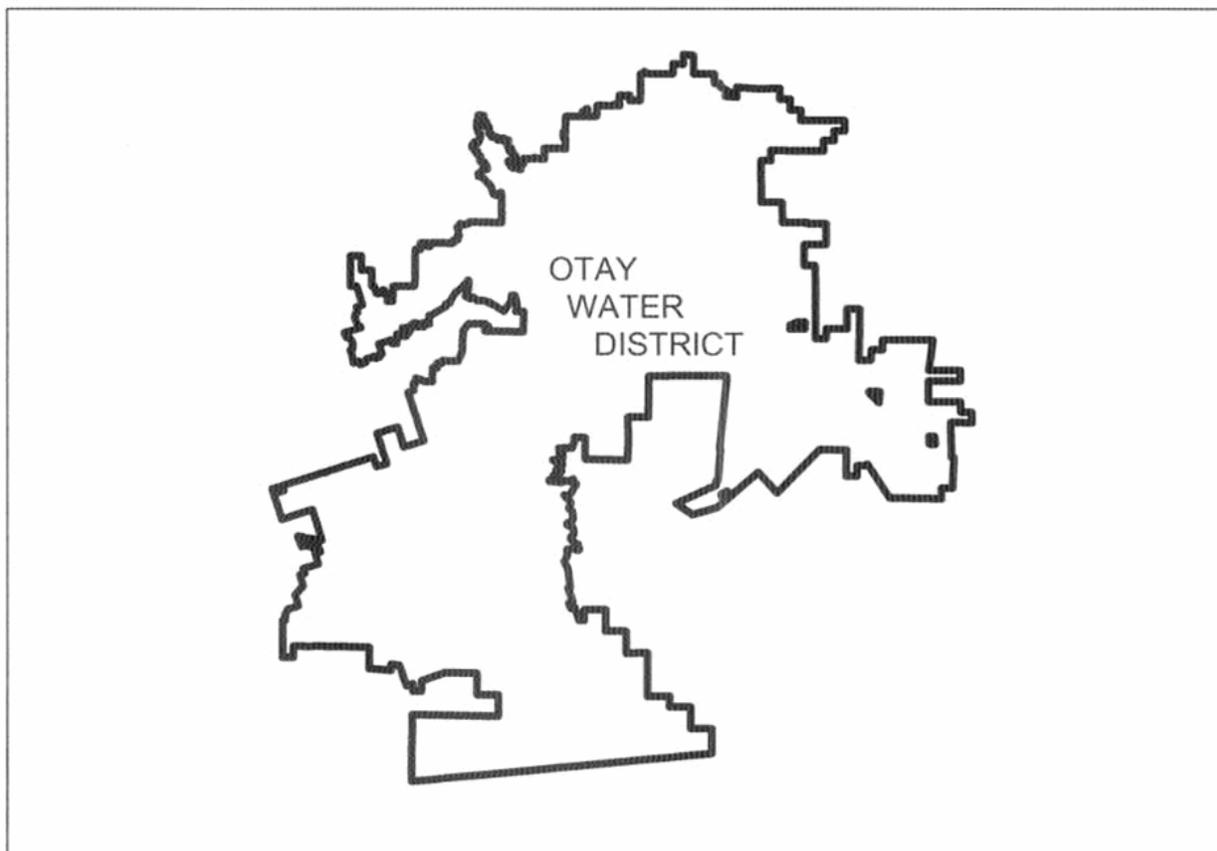
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL

PROJECT LOCATION:

Thomas Bros. Map: 1291

OWD Map Book: 318



Submitted By: Geoff Stevens

Date: 03/19/2008

Developer Reimbursement Projects



**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2134

PROJECT TITLE: PL - 16-Inch, 711 Zone, Birch Road - SR 125/EastLake

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Charles	I.D. LOCATION:	22
ORIGINAL APPROVED DATE:	6/2/2004	PRIORITY:	1
RELATED CIP PROJECTS:	P2133, P2435	BUDGET AMOUNT:	\$210,000

DESCRIPTION OF PROJECT:

Construction of approximately 3,000 feet of 16-inch pipeline within the 711 Pressure Zone in Birch Road from State Route 125 to EastLake Parkway. This project will be constructed by the developer and is subject to reimbursement at actual cost per Board policy.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development of Otay Ranch and other areas within the 711 and higher pressure zones.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$200	\$10					\$210

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2134

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/03

12/03

DESIGN:

01/04

07/04

CONSTRUCTION:

07/09

06/10

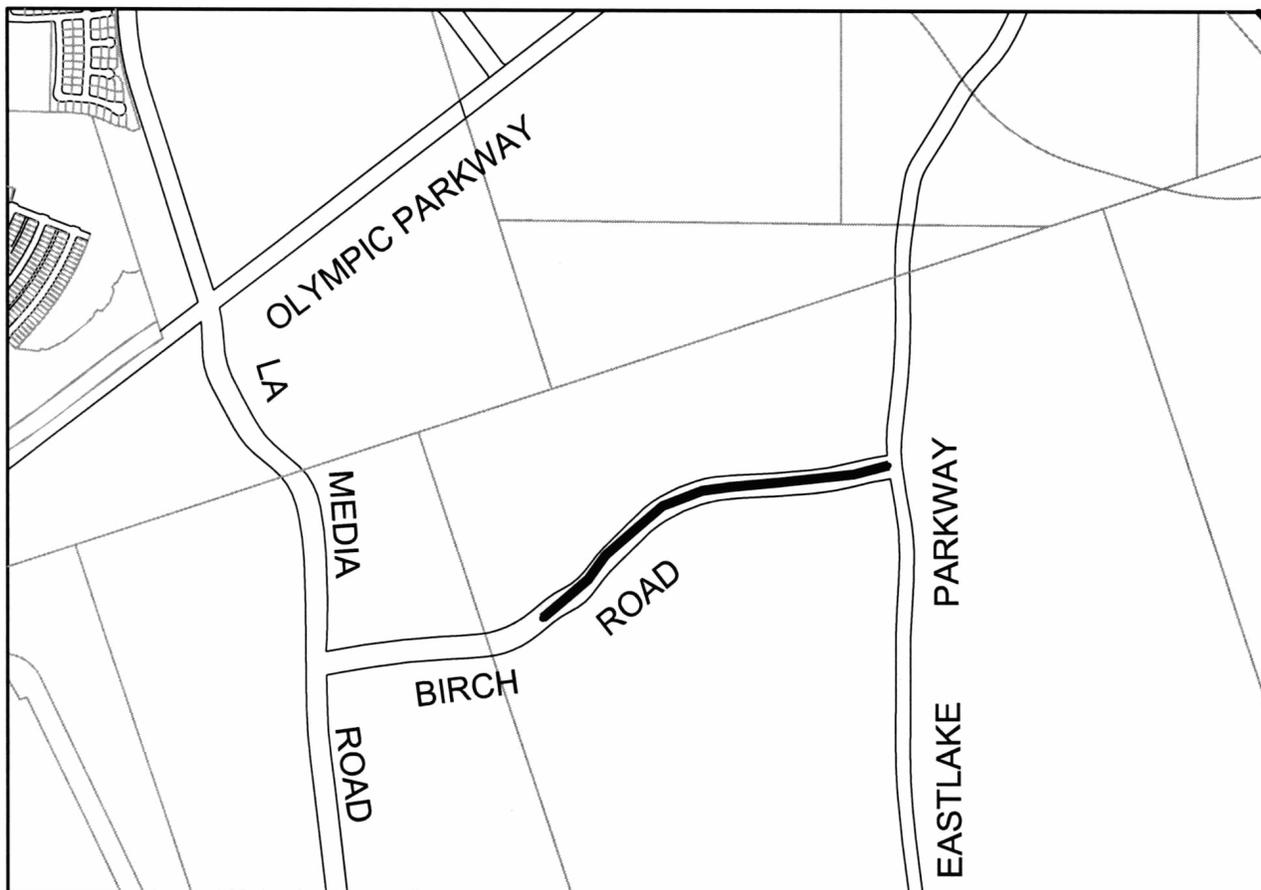
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	TOTAL
2009	2010	2011	2012	2013	2014	
		\$1,000	\$1,000	\$1,000	\$1,000	\$4,000

PROJECT LOCATION:

Thomas Bros. Map: 1331

OWD Map Book: 84



Submitted By: David Charles

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2414

PROJECT TITLE: PL - 12" to 16" Oversize, 803 Zone, Dehesa Road - Dehesa Meadow/OWD Bndy

WORK ORDER NO:	Various	DIRECTOR DIVISION:	5
PROJECT MANAGER:	Charles	I.D. LOCATION:	20
ORIGINAL APPROVED DATE:	6/4/2003	PRIORITY:	1
RELATED CIP PROJECTS:		BUDGET AMOUNT:	\$153,000

DESCRIPTION OF PROJECT:

Construction of approximately 7,200 feet of 16-inch pipeline within the 803 Pressure Zone in Dehesa Road from the existing pipeline to the Otay WD boundary. This project will provide service to the Dehesa Elementary School site; it is a school project and is subject to reimbursement for the oversize portion at actual cost per Board policy.

JUSTIFICATION OF PROJECT:

This project is required to provide water service to the property along Dehesa Road and possibly to properties east of the existing Otay WD jurisdictional boundary.

COMMENTS:

See Work Order Nos. 9454 and 30087.

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
\$143	\$10						\$153

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: P2414

PROJECT SCHEDULE:

PROJECT PHASE:

ESTIMATED START DATE:

ESTIMATED FINISH DATE:

PLANNING:

08/02

12/02

DESIGN:

01/03

07/03

CONSTRUCTION:

08/03

06/09

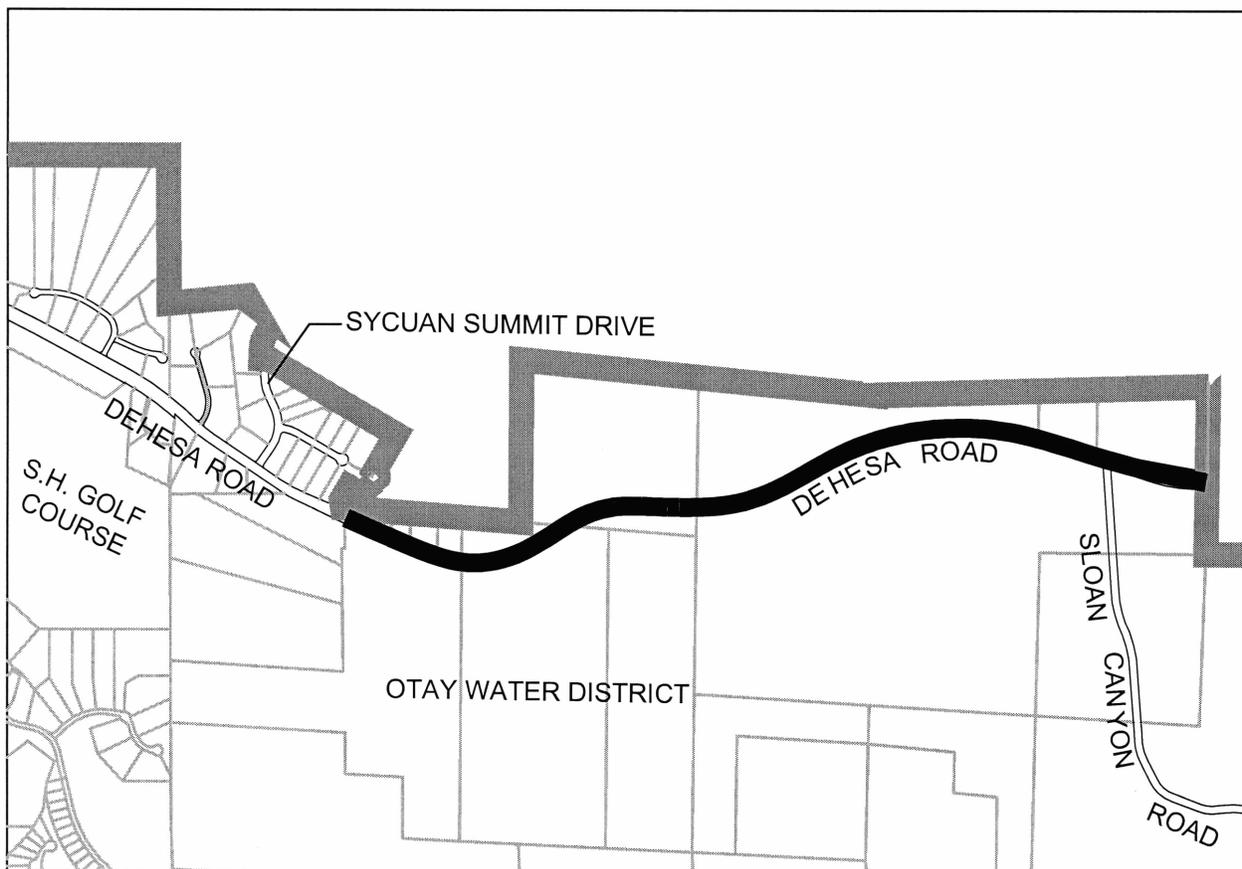
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
	\$2,400	\$2,500	\$2,600	\$2,700	\$2,800	\$13,000

PROJECT LOCATION:

Thomas Bros. Map: 1252

OWD Map Book: 380



Submitted By: David Charles

Date: 02/26/2008

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2033

PROJECT TITLE: RecPL - 12-Inch, 944 Zone, Birch Road - La Media/EastLake

WORK ORDER NO:	n/a	DIRECTOR DIVISION:	2
PROJECT MANAGER:	Charles	I.D. LOCATION:	22
ORIGINAL APPROVED DATE:	6/4/2003	PRIORITY:	2
RELATED CIP PROJECTS:	R2031	BUDGET AMOUNT:	\$330,000

DESCRIPTION OF PROJECT:

Construction of approximately 6,300 feet of 12-inch pipeline within the 944 Pressure Zone in Birch Road from La Media Road to EastLake Parkway. This project will be constructed by the developer and is subject to reimbursement at actual cost per Board policy.

JUSTIFICATION OF PROJECT:

This project will provide transmission capacity for development of Otay Ranch and other areas within the 944 Pressure Zone.

COMMENTS:

FUND DETAIL:

FUNDING SOURCE:	Expansion	Betterment	Replacement	Total
General Fund	100%			100%
TOTAL:	100%			100%

EXPENDITURE SCHEDULE (X \$1000):

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	
TOTAL	2009	2010	2011	2012	2013	2014	TOTAL
	\$330						\$330

**OTAY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM**

CIP Number: R2033

PROJECT SCHEDULE:

**PROJECT
PHASE:**

**ESTIMATED
START DATE:**

**ESTIMATED
FINISH DATE:**

PLANNING:

07/03

11/04

DESIGN:

12/04

05/05

CONSTRUCTION:

06/05

06/09

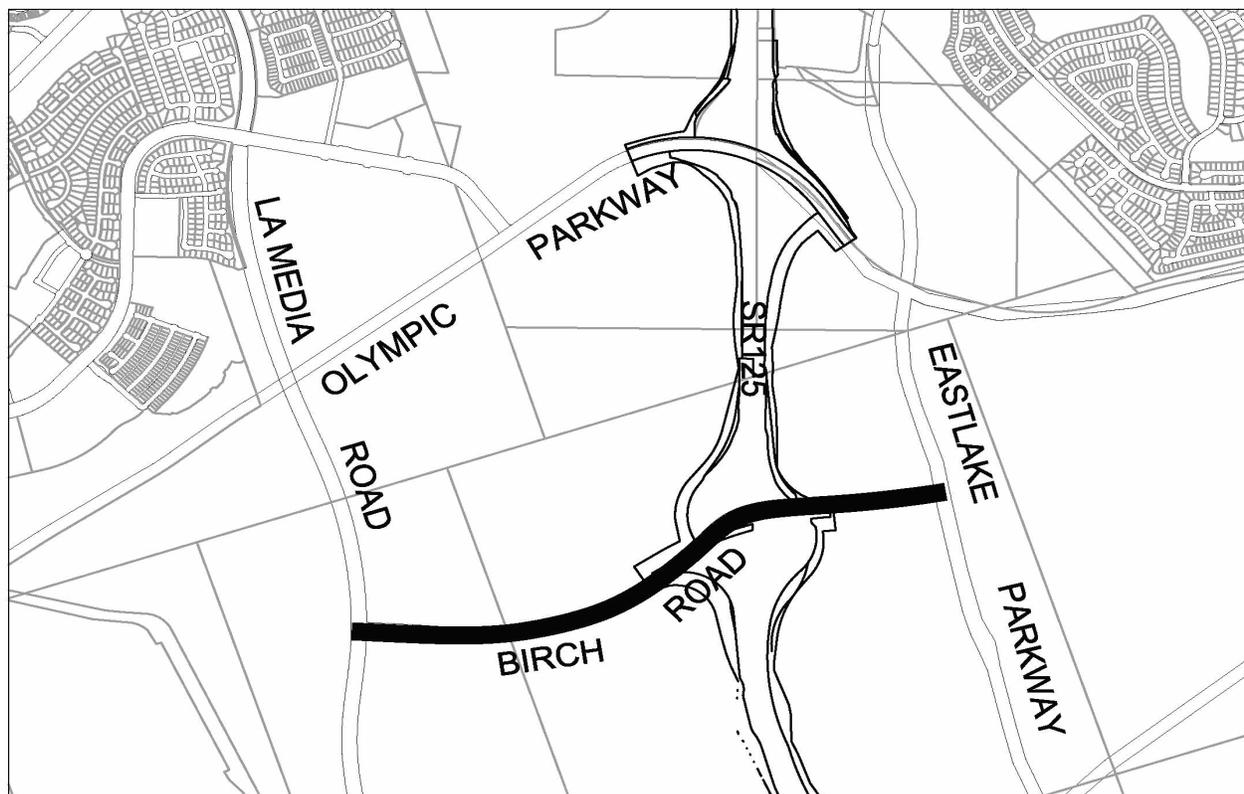
PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

FY	FY	FY	FY	FY	FY	
2009	2010	2011	2012	2013	2014	TOTAL
	\$2,100	\$2,200	\$2,300	\$2,400	\$2,500	\$11,500

PROJECT LOCATION:

Thomas Bros. Map: 1331

OWD Map Book: 84



Submitted By: David Charles

Date: 02/26/2008



Appendix

WATER METER CAPACITY FEES

Effective 7/1/08

NAME	IMPROVEMENT DISTRICT (ID)	CAPACITY FEE	ZONE CHARGE	TOTAL CHARGE
Rancho Jamul Estates Units 1 & 2	ID 9 WITH 1655 ZONE FEE	\$5,157	\$24,322	\$29,479
Capacity Fee Section 28.01	1,2,3,4,9,10, 19, 20,22,25,27	\$5,157	\$0	\$5,157
TRIAD CAPACITY FEE	ID 22/27-BASE	\$3,883	\$0	\$3,883

Note: This is based on a 3/4 inch water meter. For a full listing of fees per meter size visit the District's website at: www.otaywater.gov, Engineering Public Services, General District Fees and Deposits form.

GLOSSARY

The Fiscal Budget contains terminology that is unique to public finance and budgeting. The following budget glossary provides assistance in understanding these terms.

Accrual Basis of Accounting: The basis of accounting under which transactions are recognized when they occur, regardless of the timing of cash receipts and disbursements.

Acre-Foot: The volume of water that will cover one acre to a depth of one foot. One acre-foot equals 435.6 units or 325,850 gallons.

Additional Systems Fees: Effective May 1, 1986, each customer receiving water service in the Improvement District 9 water service zone pays an additional monthly meter system charge of \$2.00 for each meter in service.

Annexation Fees: Whenever utility service is requested for land outside the boundaries of an improvement district, the land to be serviced must first be annexed. The annexation fee for water was set on May 30, 2006 at \$1,411 per EDU. The fee for sewer annexation was set at \$3,819 on December 16, 1998. These base rates are adjusted quarterly according to a cost of living index. Assets: Resources owned or held by Otay Water District that have monetary value.

Availability Fees: The District levies charges each year in developed areas to be used for general purposes for construction of facilities, and in undeveloped areas to provide a source of funding for planning, mapping, and preliminary design of facilities to meet future development. Current legislation provides that any availability charge in excess of \$10.00 per acre shall be restricted only for the purpose of constructing facilities in the improvement district for which it was assessed.

Balanced Budget: A balanced financial plan, for a specified period of time that matches all planned revenues and expenditures with various services. The District uses a fiscal year beginning each July 1 and ending each June 30 for budgetary and financial reporting purposes.

Betterment Fees: In addition to other applicable water rates and charges, certain water customers pay a fee based on water service zone or improvement district. These are restricted for the use in the area where they are collected and may be used for the construction and maintenance of facilities.

Bond: A written promise to pay a sum of money on a specific date at a specified interest rate. The interest payments and the repayment of the principal are authorized in a District bond resolution. The most common types of bonds are general obligation (GO) bonds and Certificates of Participation (COPs). These are frequently used for construction of large capital projects such as buildings, reservoirs, pipelines and pump stations.

GLOSSARY

Budget Basis: The budget and accounting basis for the District is recognized on an accrual basis. Accrual basis means that revenues are recognized when earned and expenses are recognized when incurred.

Capacity Reservation Charge: A Metropolitan Water District charge passed on by the San Diego County Water Authority to individual agencies. This fee is paid based on the District's peak water demand.

Capital Budget: The portion of the annual budget that appropriates funds for the purchase of capital equipment items and capital improvements. These expenditures are separated from regular operating items, such as salaries, utilities and office supplies. The Capital Budget includes funds for capital equipment purchases over \$10,000, such as vehicles, furniture, machinery, microcomputers and special tools or \$20,000 for infrastructure related items, which are distinguished from operating items according to their value and projected useful life.

Capital Equipment: Fixed assets such as vehicles, marine equipment, computers, furniture, technical instruments, etc. which have a life expectancy of more than two years and a value over \$10,000 or \$20,000 for infrastructure related items (this may not extend useful life of the infrastructure, but without it, the whole asset is rendered useless).

Capital Improvement Program: A long-range plan of the District for the construction, rehabilitation and modernization of the District-owned and operated infrastructure.

Class of Service: All customers are classified based on the type of service used. For example, the water rate per unit is determined by a classification such as residential versus business.

CWA: The County Water Authority was organized in 1944 under the State County Water Authority Act for the primary purpose of importing Colorado River water to augment the local water supplies of the Authority's member agencies. The Authority purchases water from the Metropolitan Water District of Southern California (MWD) which imports water from the Colorado River and the State Water Project.

Deannexation Fees: Each request for detachment of land from an improvement district is reviewed on a case-by-case basis. The fees are determined based on the present value of future debt service requirements.

Debt Service: The District's obligation to pay the principal and interest of bonds and other debt instruments according to a predetermined payment schedule.

GLOSSARY

Energy Fees: Water customers are charged an energy pumping charge based on the quantity of water used and the elevation to which the water has been lifted to provide service. The energy pumping charge is the rate of \$.034 (proposed to increase on January 1, 2009 to \$.037) per 100 cubic feet of water for each 100 feet of lift above the base elevation of 450 feet. All water customers are in one of 29 zones based on elevation.

Expenditures/Expenses: These terms refer to the outflow of funds paid or to be paid for an asset, goods or services obtained regardless of when actually paid for. (Note: An encumbrance is not an expenditure). An encumbrance reserves funds to be expended in a future period.

Fire Service: Water service is provided by the District solely for use in fire hydrants or fire sprinkler systems from lines or laterals connected to the District's water mains. The monthly system charge is \$25.40 per month (proposed to increase to \$28.55 on January 1, 2009) for each connection for fire protection service.

Fiscal Year: Twelve-month term designating the beginning and ending period for recording financial transactions. The District has specified July 1 to June 30 as its fiscal year.

Fund Balance: The current funds on hand resulting from the historical collection and use of monies. The difference between assets and liabilities reported in the District's Operating Fund plus residual equities or balances and changes therein, from the result of operations.

General Fund: The District's general fund is an enterprise fund one for each of the District's three business lines Potable, Recycled and Sewer services. Each is an accounting entity with a self-balancing set of accounts established to record the financial position and results that pertain to a specific activity. The activities of enterprise funds closely resemble those of ongoing businesses in which the purpose is to conserve and add to basic resources while meeting operating expenses from current revenues. Enterprise funds account for operations that provide services on a continuous basis and are substantially financed by revenues derived from user charges.

Grants: Contributions or gifts of cash or other assets from another governmental agency to be used or expended for a specified purpose, activity, or facility. Capital grants are restricted by the grantor for the acquisition and/or construction of fixed assets. Operating grants are restricted by the grantor for operating purposes or may be used for either capital or operating purposes at the discretion of the grantee.

Infrastructure Access Charge (IAC): A pass-through charge from CWA to each member agency. The charge is to finance a portion of CWA's fixed annual costs including the construction, operation and maintenance of aqueducts and emergency storage projects. The fee was adopted in January of 1999.

GLOSSARY

Interest Income: Earnings from the investment portfolio. Per District Policy Number 25, interest income will be allocated to improvement districts each month based upon each fund's prior month-ending balance.

Late Charges/Penalties: Charges and penalties are imposed on delinquent accounts. A late payment charge of 5% of the most recent total delinquent amount is added to the account. Other miscellaneous late fees and penalties are detailed in the District's Code of Ordinances.

Meter and Lateral Fees: Charge includes the material costs for the meter, meter box, and the labor cost for installation to connect a new service to the distribution system.

Metropolitan Water District (MWD) Standby Charges: Revenue generated from property taxes by MWD to cover the Readiness-to-Serve (RTS) Charge for the new debt service for construction projects necessary to meet reliability and quality needs. The RTS Charge was adopted in 1996.

Multiple Unit Charges: In addition to the system fee, a monthly charge is made for service provided through one meter to more than one occupant in a building. The rate is \$3.85 (proposed to be eliminated on January 1, 2009) per month for each unit in a multiple unit residential, commercial or industrial building.

1% General Tax: In 1978, Proposition 13 limited general levy property tax rates for all taxing authorities to a total rate of 1% of full cash value. Subsequent legislation, AB8, established that the receipts from the 1% levy were to be distributed to taxing agencies according to approximately the same proportions received prior to Proposition 13. Funds received are to be used for facilities construction or debt service on bonds sold to build facilities.

Operating Budget: The portion of the budget that pertains to daily operations that provide basic governmental services. The operating budget contains appropriations for such expenditures as personnel, supplies, utilities, materials, travel and fuel, and does not include purchases of major capital plant or equipment which is budgeted for separately in the Capital Budget.

GLOSSARY

Other Income: Revenues that are not directly related to the business of providing water and sewer services. For example, contract billing service for the City of Chula Vista and the City of San Diego to bill their sewer customers based on water consumption.

Property Rental Income: Rent or lease agreements for the use of District property.

Reclaimed Water Rates: Non-potable water service provided from water produced by the District's reclamation plant and other non-potable sources. Reclaimed water is not used for domestic purposes and all other uses must comply with federal, state and local laws and regulations regarding the use of reclaimed water.

Reserve Fund: The District maintains Reserve Funds per the District's policy for both designated and restricted balances. Designated Reserve Funds are "general use" funds designated by the Board. Restricted reserves are those that are legally set aside for a particular purpose and cannot be used for any other purpose.

Residential Conservation: The water rates for residential customers are based on an accelerated block structure; as more units are consumed, a higher unit rate is charged. The District has established a water conservation program to promote water conservation and planning.

Revenue: Monies that the District receives as income. It includes such items as water sales and sewer fees. Estimated revenues are those expected to be collected during the fiscal year.

RTS: Readiness-to-Serve Charge was adopted by the Metropolitan Water District (MWD) in Fiscal 1996. The charge will serve as a foundation of fixed revenue for MWD. It will cover the new debt service for construction projects necessary to meet reliability and quality needs of current water-users as opposed to new customers.

Sale of Fixed Assets: District equipment, which has been determined by the Board to be of no use, obsolete and/or beyond the useful life and therefore, may be sold.

Set-up Fees for Accounts: A charge of \$10 is added for each account transferred to another customer.

System Fees: Each water service customer pays a monthly system charge for water system replacement, maintenance and operation expenses. The charge is based on the size of the meter and class of service.

GLOSSARY

Taxes: California Water Code Section 72091 authorizes the District, as a municipal water district, to levy ad valorem property taxes which are equal to the amount required to make annual payments for principal and interest on general obligation bonds approved by the voters prior to July 1, 1978.

Temporary Water Charge: The rate for temporary water service is two times the rate for permanent service. The additional charge is to offset the cost of construction of facilities for larger capacity.

Tier 2 Charge: A Metropolitan Water District charge passed on by the San Diego County Water Authority to individual agencies. This is an added charge on all water sales by CWA in excess of the District's 90% baseline water usage.

Usage Surcharge: In addition to the water rates, a surcharge is paid by each customer when the number of units of water furnished in any month exceeds the monthly usage allowance for the size of meter being used. This charge is proposed to be eliminated on January 1, 2009.

Water Capacity Fees: Charges paid by customers to connect to a District water system for potable or reclaimed water service. Fees are determined by multiplying the demand factor for the meter size by the total of the District-wide capacity fee and applicable zone charge.

Water Rates: Rates vary among classes of service and are measured in units. The water rates for residential customers are based on an accelerated block structure. As more units are consumed, a higher unit rate is charged. All non-residential customers are charged a flat rate per unit. A unit of water is 100 cubic feet or 748 gallons of water.

LIST OF ACRONYMS

AF	Acre-Foot/Feet
AMR	Automated Meter Reader/Reading
APCD	Air Pollution Control District
ASCE	American Society of Civil Engineers
ASU	Assigned Service Unit
AWWA	American Water Works Association
BIT	Bi-annual Inspection Terminals
BMP	Best Management Practices
BOD	Biological Oxygen Demand
BRP	Business Resumption Plan
CADD	Computer Aided Design & Drafting
CARB	California Air Resources Board
CAFR	Comprehensive Annual Financial Report
CCV	City of Chula Vista
CEQA	California Environmental Quality Act
CFS	Cubic Foot per Second
CHP	California Highway Patrol
CIP	Capital Improvement Program
CIS	Customer Information System
CIT	Collaborative Improvement Teams
CMOM	Capacity, Management, Operations & Maintenance
CMTA	California Municipal Treasurers Association
COD	Chemical Oxygen Demand
COPs	Certificates of Participation
CRC	Capacity Reservation Charge
CSC	Customer Service Charge
CSD	City of San Diego
CSMFO	California Society of Municipal Finance Officers
CWA	County Water Authority (San Diego)
DBMS	Database Management System
DBP	Disinfectant By-Products
DEH	Department of Environmental Health
DHS	Department of Health Services
DVP	Delivery-versus-Payment
EDU	Equivalent Dwelling Unit
EIR	Environmental Impact Review
EOC	Equal Opportunity Commission
ESC	Emergency Storage Charge
FCF	Flow Control Facility

LIST OF ACRONYMS

FHLMC	Freddie Mac or Federal Home Loan Mortgage Corporation
FNMA	Fannie Mae or Federal National Mortgage Association
FTE	Full-time Equivalent
FY	Fiscal Year
GASB	Government Accounting Standards Board
GFOA	Government Financial Officers Association
GIS	Geographic Information System
GO	General Obligation (bonds)
GPM	Gallons per Minute
GPS	Global Positioning System
HCF	Hundred Cubic Foot
HMA	Habitat Management Area
HR	Human Resources
HRIS	Human Resources Information System
HWD	Helix Water District
IAC	Infrastructure Access Charge
ID	Improvement District
IID	Imperial Irrigation District
IIPP	Injury and Illness Prevention Program
IMS	Infrastructure Management System
IRP	Integrated Water Resources Plan
IRS	Internal Revenue Service
IT	Information Technology
IVR	Interactive Voice Response
LAFCO	Local Area Formation Commission
LAIF	Local Agency Investment Fund
LMSE	La Mesa Sweetwater Extension
LOPS	Lower Otay Pump Station
MBR	Membrane Bioreactor
MG	Million Gallons
MGD	Million Gallons per Day
MH	Man-hours
MOU	Memorandum of Understanding
MSCP	Multiple Species Conservation Program
MSRB	Municipal Securities Rulemaking Board
MWD	Metropolitan Water District
MWWD	Metropolitan Waste Water Department (City of San Diego)
NCCP	Natural Community Conservation Plan
NEPA	National Environmental Protection Act

LIST OF ACRONYMS

NIMS	National Incident Management System
NOC	Notice of Completion
NOSC	Notice of Substantial Completion
NPDES	National Pollution Discharge Elimination System
O&M or O/M	Operations and Maintenance
OIS	Otay Information System
OWD	Otay Water District
PB	Pacific Bay
PDR	Preliminary Design Report
PEIR	Program Environmental Impact Report
PERS	Public Employees' Retirement System
PL	Pipeline
POU	Principles of Understanding
PRS	Pressure Reducing Station
PS	Pump Station
PT	Part-time
RFID	Radio Frequency Identification
RFP	Request for Proposal
RSD	Rancho San Diego
RTS	Readiness-to-Serve
R/W	Right-of-Way
RWCWRF	Ralph W. Chapman Water Recycling Facility
SAMP	Sub-Area Master Plan
SANDAG	San Diego Association of Governments
SCADA	Supervisory Control and Data Acquisition
SBWRP	South Bay Water Reclamation Plant
SDRMA	San Diego Risk Management Association
SEC	Securities and Exchange Commission
SHRM	Society of Human Resources Management
SLMA	Sallie Mae or Student Loan Marketing Association
SPSD	Spring Valley Sanitation District
SS	Suspended Solids
SSMP	Sewer System Management Plan
SWA	Sweetwater Authority
SWRCB	State Water Resources Control Board
USBR	U.S. Bureau of Reclamation
UWMP	Urban Water Management Plan
WADG	Water Agency Design Guideline
WD	Water District

LIST OF ACRONYMS

WER	Work Environment Review
WRMP	Water Resources Master Plan
WTP	Water Treatment Plant

INDEX

Awards	4-7
Budget Calendar	12
Budget Guide	1
Budget Process	13
Capital Facility Projects	37-120
Capital Improvement Program Narrative	16
Capital Purchases Budget	31
Capital Purchase Projects	147-162
CIP Funding Source and Category	24
CIP Justification and Impact on Operating Budget	27-28
CIP Project Index	35-36
CIP Project Schedule	29-30
CIP Project Sheet Description	32-34
CIP Projects	25-26
CIP Projects in Construction	19
CIP Reserve Funds	23
Demographics	10
Developer Reimbursement Projects	163-168
Economic Conditions	8-9
Flagship CIP Projects in Construction	19
Flagship CIP Projects in Design	21
General Information	3
Glossary	170-175
Index	180
Letter of Transmittal	ii-v
List of Acronyms	176-179
Major CIP Projects	18
Organization Chart	11
Otay Water District At-A-Glance	2
Progress on Major Project	22
Replacement/Renewal Projects	121-146
Resolution No. 4124	15
Water Meter Capacity Fees	169



Otay Water District

2554 Sweetwater Springs Blvd.

Spring Valley, CA 91978-2004

www.otaywater.gov

