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Our Mission

*Water and wastewater specialists providing exceptional and sustainable services.*

This mission of exceptional and sustainable services is reflected in this budget and in the attitudes and commitment of the Vallecitos Water District staff and Board Members.

From left to right: Craig Elitharp, James Hernandez, Betty Evans, Hal Martin and Mike Sannella

Board of Directors
- Betty Evans, President
- Mike Sannella, Vice President
- Hal Martin
- Jim Hernandez
- Craig Elitharp

Vallecitos Water District is a public agency organized in 1955 and proudly serves the City of San Marcos, portions of the cities of Escondido and Carlsbad, and portion of the surrounding unincorporated areas.
Date: June 17, 2015

To: Honorable Board of Directors

Regarding: Fiscal Year 2015/16 Budget

Enclosed is the Budget for Fiscal Year 2015/16. The budget totals $140,694,000 compared to $132,683,000 for the 2014/15 budget and is comprised of $43,788,000 of operational expenses (a 7.4% decrease from the $47,266,000 in 2014/15 operating budget) and a commitment of $96,906,000 for capital projects ($85,811,000 in 2014/15).

The operational decrease of $3,478,000 is attributable to a projected $4,647,000 decrease in cost of water due to lower demand and anticipated conservation; $535,000 increase in information technology; $518,000 increase in cost of labor; $343,000 increase in wastewater treatment; and a net decrease of $227,000 in all other expenses. The District continues to hold the most controllable costs (operating costs without water purchases and labor) with only slight increases. In addition, $9.8 million from operations is being set aside for capital replacement.

Rate increases contained in this budget for Sewer, Ready-to-Serve and Pumping were adopted in October 2013 and meet strategic and financial objectives of the budget. Water commodity rates effective for Calendar Year 2016 are conservatively estimated to absorb the wholesale pass-through. For purposes of the long-range projection, wholesale rate spikes from desalinated water are partially mitigated by decreases to the retail portion. Average combined bill increases are estimated between 4% and 5% over the next five years.

**STABILITY IN UNCERTAINTY**

For 60 years, the Vallecitos Water District has made a priority of providing reliable water and sewer services to all of its customers. This budget reflects the desire of the Board of Directors and management to continue reliable services through the current drought and far into the future. Working with a finite amount of natural resources, maintaining a level of quality service and continuing to meet demands will always be a challenge. However, through long range financial planning, diversifying the water portfolio, exploring reuse alternatives and educating our customers about the complexities of utility operations, the scarcity of water and how to conserve, Vallecitos is providing stability in these times of uncertainty.

**Diversifying Our Water Portfolio**

During this budget year, the “San Elijo Pump Station” will be completed. The new pump station will enable the District to receive 2,750 acre feet of treated water from Olivenhain Municipal Water District’s David C. McCollom Treatment plant at a cost less than water from the San Diego County Water Authority. Also this budget year we will complete the “Desalinated Water Connection” project. The connection to the Carlsbad Desalination Plant will provide a contracted 3,500 acre feet of desalinated water directly to the Vallecitos water infrastructure. The graphs on the next page display the diversifying water portfolio over time. In addition, Vallecitos has joined forces with a number of agencies to form the North San Diego County Water Reuse Coalition and pursue water reuse projects that benefit the region and environment and reduces reliance on imported water.
Public Outreach and Educational Programs

A future with a reliable and safe water source is made possible by working with our customers and keeping apprised of current issues.

The District hosts or participates in several outreach programs such as:

- The Water Academy Tours - Whereby customers of the District can join a full day tour of the facilities that provide the water and wastewater services they receive.

- School Tours and Programs - Create awareness of the diverse components of the water system.

- Palomar College Water Technology – Education is provided for adult students so they can earn certifications to operate facilities as field personnel.

- Other programs fall under the public outreach umbrella and are continuous year-round including: free landscape irrigation audits; various rebate programs; sustainable vegetation gardens throughout the district and many more.

In 2015, a customer survey was performed to determine key focus areas for future outreach. As a result of the survey, new messaging topics and activities will include:

- Maximizing use of recycled water to reduce our dependence on imported water.
- Tap water - still the best value around.
- Importance of proper grease disposal.

Long-range Financial Planning

As with recent budgets, this budget includes a 10-year projection of operating costs and capital needs in order to plan for a sound future in water supply and reliability. Fiscal sustainably is absolutely a necessary factor in the equation for future reliability.
All District employees are responsible to consider costs involved with activities and try to work as efficiently and effectively as possible. Consideration of controlling costs translates into the future viability of the District. Some of these considerations are: rate affordability; maintaining reserves, assess adequacy to cover debt obligations now and in the future; and a credit worthy cash position. We plan to meet our capital needs and maintain a strong financial position by refinancing existing debt and without incurring or by minimizing new borrowing.

**FINANCIAL HIGHLIGHTS**
The following narratives are financial highlights and comparisons of this budget, FY 2015/16, and last budget; FY 2014/15.

**Water Operations** (pages 3-14)
Water purchases are projected to total 12,378 acre feet with sales of 11,876 acre feet for 2015/16. The water operating budget increased by $609,000 from last year’s budget, excluding water costs. With water costs, the budget decreased $4,038,000 or -11.4%, due to decreased water demands related to the drought and conservation efforts.

**Wastewater Operations** (pages 15-24)
Wastewater operating costs increased by $560,000, or 4.7%, over last year’s budget due to increases in treatment, personnel, information technology and outside services. Reclaimed water costs are recovered by contractual sales to the Carlsbad Municipal Water District and Olivenhain Municipal Water District.

**Personnel** (pages 25-31)
Fiscal year 2015/16 adds one new position and a reclassification. All positions have previously been identified in the five-year staffing plan.

Salaries and benefits for 2015/16 increased from last budget year by $518,000 or 3.7% due to: increasing costs to provide health insurance, retirement benefits and longevity of existing employees. Management will continue to scrutinize the need for all positions and only fill positions if absolutely necessary.

**Capital Budget** (pages 33-103)
Capital projects are summarized on the Comprehensive Project List found on page 34. Details of each project, including timing of phases and spending, are presented on pages 36 through 101, followed by requests for vehicles and equipment of $1.3 million. Of the $95.6 million capital budget, $35.9 million are new requests, $9.2 million are for future projects included for planning purposes. The remainder is from projects carried over from the prior year resulting in a capital budget increase of $11.5 million.

**Reserve Budget and Projection** (pages 105-111)
The Reserve Budget includes revenues and transfers from various sources and summarizes appropriations and expected cash outflows for debt service and capital projects. Page 106 displays the 2015/16 reserve budget for consideration. Page 107 forward display detailed reserve projections for four subsequent years followed by a summary projection for the five years thereafter.

As a final note, our projections are based on trends, anticipated large one-time expenditures, economic factors within our industry, and global factors influencing our operations. Obviously, a good amount of forethought and monitoring at both the Board and staff levels has been required to produce such a realistic and useable financial guide.

Respectfully submitted,

Dennis O. Lamb, General Manager
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budgetary Considerations</td>
<td>1</td>
</tr>
<tr>
<td>Chart - Overall Budget</td>
<td>2</td>
</tr>
<tr>
<td>Operations</td>
<td>3</td>
</tr>
<tr>
<td>Water Statistics Graphs</td>
<td>4</td>
</tr>
<tr>
<td>Function Definitions - Water Operations</td>
<td>6</td>
</tr>
<tr>
<td>Graph - Water Operating Budget</td>
<td>10</td>
</tr>
<tr>
<td>Water Operations Budget</td>
<td>11</td>
</tr>
<tr>
<td>Water Operations Budget Expense Detail</td>
<td>12</td>
</tr>
<tr>
<td>Wastewater Statistics Graphs</td>
<td>15</td>
</tr>
<tr>
<td>Function Definitions - Wastewater Operations</td>
<td>18</td>
</tr>
<tr>
<td>Chart - Wastewater Operating Budget</td>
<td>20</td>
</tr>
<tr>
<td>Wastewater Operations Budget</td>
<td>21</td>
</tr>
<tr>
<td>Wastewater Operations Budget Expense Detail</td>
<td>22</td>
</tr>
<tr>
<td>Salary and Benefit Recap</td>
<td>25</td>
</tr>
<tr>
<td>Organization Chart</td>
<td>26</td>
</tr>
<tr>
<td>Personnel Budget</td>
<td>31</td>
</tr>
<tr>
<td>Public Awareness &amp; Conservation Programs</td>
<td>32</td>
</tr>
<tr>
<td>Capital</td>
<td>33</td>
</tr>
<tr>
<td>Master Projects List</td>
<td>34</td>
</tr>
<tr>
<td>Capital Improvement Program Details</td>
<td>36</td>
</tr>
<tr>
<td>Vehicles and Equipment Schedule</td>
<td>103</td>
</tr>
<tr>
<td>Debt Service</td>
<td>104</td>
</tr>
<tr>
<td>Long-Range Planning</td>
<td>105</td>
</tr>
<tr>
<td>Reserve Budget</td>
<td>106</td>
</tr>
<tr>
<td>Reserve Projections</td>
<td>107</td>
</tr>
<tr>
<td>Replacement Reserve Limits</td>
<td>112</td>
</tr>
</tbody>
</table>
BUDGET FOR THE YEAR ENDING JUNE 30, 2016

BUDGETARY CONSIDERATIONS

Mission Statement

Water and wastewater specialists providing exceptional and sustainable services.

The budget reflects the mission statement

Budgetary Approach

Governmental agencies, such as cities and counties, usually approach their budgets from the “revenue end.” Since their revenues are somewhat predictable and restricted, their budgetary considerations are based on setting a level of service (expense total) that can be attained with those available funds.

A special district, however, must make a more thorough analysis. Normally, the expenses can be determined with a high degree of accuracy, and it’s the revenues that must be set to cover those expenses. To complicate matters, factors such as weather variability and customer usage habits can have a profound effect on the overall revenue projection.

Operations vs. Capital Budget

The budget is designed to ensure that various revenues and fees are used as intended. The Operations Budget, which covers the ongoing cost of running the District, is paid by the rate payers of the District through charges for water and sewer service. The Capital Facilities Budget is covered primarily by fees on new development and existing customers with increased demands.

Operating revenue in excess of operating expense is earmarked for transfer to the Replacement Reserve Fund for the future replacement of assets. This ensures that current users of our system are paying their fair share for the maintenance of existing facilities as they depreciate.
2015-16 OVERALL BUDGET
$140,694,000

- $12,437,000 (9%)
- $10,683,000 (7%)
- $20,668,000 (15%)
- $96,906,000 (69%)

- Water Purchases
- Water Operations
- Wastewater Operations
- Capital
2015-2016 OPERATING BUDGET

WATER
Unbilled Water includes use acquired with one-day permits, tie-ins, operational use, fire hydrant damage and use, meter malfunctions, and leaks.
REVENUES

Water Sales: Monthly charges to cover the wholesale cost of water, with a minimal markup targeted to cover some operating costs and provide funds for capital improvements and replacement.

Ready To Serve: Monthly charge to cover fixed costs, regardless of water sales. Examples include maintenance of reservoirs and transmission lines, meter reading and administrative costs such as insurance.

Pumping Charges: Charges to customers at high elevations, to cover the power costs required to deliver water.

Interest and Other: Interest revenue, late charges, backflow fees, engineering fees and other miscellaneous revenues.

OPERATING EXPENSES

Pumping: To move water to various elevations, and to provide adequate pressure and storage to higher service connections. Includes maintenance of ten pump stations, readings, and power costs.

Water Quality: To monitor incoming water in accordance with federal and state regulations. Includes collecting samples and reporting results, and maintenance of monitoring equipment.

Water Treatment: To treat water in tanks, handle chemicals, and use and maintain injection equipment for pipelines.

Tanks and Reservoirs: Maintenance of 17 steel tanks and 2 reservoirs. Includes corrosion control, security, and water level monitoring.

Transmission and Distribution: Maintenance of pipeline system within 45 square miles, consisting of 329 miles of pipes. Includes 26 pressure reducing stations, 3 (internal) flow control facilities, all air releases/blow-offs, fire hydrants (buried portion), cross-tie valves with other districts, and valve exercising.

Services: Maintenance of all service lines located from main lines to meters.

Meters: Maintenance of all customer meters. Includes lens and/or complete meter replacement for slow or non-operating meters.
Backflow Prevention: Ensures compliance with Title 17, requiring backflow devices for specific connections to protect quality of water in our system.

Meter Reading: Reading of approximately 21,900 meters on a monthly basis for billing purposes.

Customer Accounts: Costs related to opening and closing accounts, response to customer concerns, billing costs (statements, mailing), and uncollectible accounts.

Equipment and Vehicles: Maintenance of District equipment. Includes all construction equipment, water and administrative vehicles, and miscellaneous tools and equipment.

Buildings and Grounds: Maintenance of administrative and operations buildings, warehouse, and shops. Also includes power costs, alarmed security system, landscape service, janitorial, and pest control.

Engineering: All costs of engineering, capital facilities and inspection services. Includes review and monitoring of development to ensure compliance with standard design practices, impact on existing system and environment, and orderly planning to provide adequate water and sewer service as demand dictates.

Safety and Regulatory Affairs: Program to control unnecessary risks, hazardous conditions, and unsafe practices, and minimize physical losses, personnel injuries, and district liability, and to provide for regulatory compliance in environmental, public health and other mandated areas.

Information Technology: Centralization of the District’s technology to maintain hardware, software, servers, networks, and interfaces.

General and Administrative
Cost of Labor:
- Salaries include administrative and conservation personnel salaries and all vacation, sick leave, and holiday time for administrative and water personnel.
- Group Insurance is health, vision, and dental costs for all administrative and water personnel.
- Workers' Compensation Insurance costs for all administrative and water personnel.
- Public Employees Retirement System (PERS) participation costs for all administrative and water personnel.
- Social Security costs for all administrative and water personnel.
FUNCTION DEFINITIONS - WATER OPERATIONS (Continued)

General and Administrative (continued)

- Other Taxes/Benefits includes unemployment and other miscellaneous employee taxes and benefits such as annual luncheon, picnic, and awards for all personnel.

District Insurance premium costs protect District assets, such as buildings and vehicles, and provide liability coverage for potential claims.

Outside Services are provided by consultants and temporary help.

Legal costs are incurred for general legal counsel (presence at board meetings, contracts, employment issues, etc.)

Auditing is conducted by a certified public accounting firm to provide an opinion on the annual financial report.

Banking Services are provided to maintain the District’s general and payroll accounts.

Office Supplies are purchased for necessary administration of the District including office equipment costing less than the capitalization threshold.

Postage not related to public relations or customer billing includes notifications, such as shutdowns and hearing notification mailings.

Office Equipment Repair covers maintenance contracts on computer system, billing equipment, copiers, telephone system, and other repairs as needed.

Telephone costs are for service of 46 lines with 100 extensions at administration and water operations, long distance, data lines, and cellular phone service for field and key personnel.

Travel costs are for administrative and water personnel.

Meetings and Seminars for administrative and water personnel provide District representation and professional development.

Dues and Subscriptions are for memberships and periodicals to various organizations, such as American Water Works Association (AWWA).

Public Awareness/Conservation is the "image and information" arm of the District, utilizing publications, special events, the speakers' bureau, and the VWD School Program to present Vallecitos as the “Water and Wastewater Specialists” and promote effective water conservation programs.
General and Administrative (continued)

*Regulatory Fees* are incurred for renewal fees for personnel certifications such as water distribution and treatment, notary, and professional memberships, state regulatory agencies, and other compliance matters.

*Election and Annexations* facilitation costs are assessed by the County.

*Director Fees* are paid for attendance of board meetings, professional conferences, and other District-sanctioned organizations.

*Director Expenses* include all costs incurred by Directors, such as travel reimbursement and conference fees.

*Other/Mandated Reimbursements* include miscellaneous expenses that do not specifically apply to any of the above-referenced categories less mandated cost reimbursements due from the State.

*Administrative Credit Transfer* is a collection or recovery of overhead costs that are applied to all construction work orders.
2015-2016 WATER OPERATING BUDGET
$34,514,000
## WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2016

### OPERATING REVENUES

<table>
<thead>
<tr>
<th></th>
<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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<tbody>
<tr>
<td>Water Sales</td>
<td>$26,031,460</td>
<td>$29,570,000</td>
<td>$24,998,000</td>
<td>$20,229,000</td>
<td>$23,065,000</td>
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<tr>
<td>Ready to Serve</td>
<td>11,484,584</td>
<td>12,379,000</td>
<td>12,724,000</td>
<td>13,502,000</td>
<td>13,839,000</td>
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<tr>
<td>Pumping Charges</td>
<td>192,427</td>
<td>181,000</td>
<td>181,000</td>
<td>198,000</td>
<td>201,000</td>
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<tr>
<td>Interest</td>
<td>74,086</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
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<tr>
<td>Other Various</td>
<td>749,586</td>
<td>535,000</td>
<td>580,000</td>
<td>580,000</td>
<td>592,000</td>
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<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>38,532,143</strong></td>
<td><strong>42,670,000</strong></td>
<td><strong>38,488,000</strong></td>
<td><strong>34,514,000</strong></td>
<td><strong>37,702,000</strong></td>
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### OPERATING EXPENSES

<table>
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<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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<tr>
<td>Water Purchases</td>
<td>24,145,579</td>
<td>25,315,000</td>
<td>23,790,000</td>
<td>20,668,000</td>
<td>25,505,000</td>
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<tr>
<td>Pumping</td>
<td>352,802</td>
<td>359,000</td>
<td>335,000</td>
<td>396,000</td>
<td>412,000</td>
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<td>Water Quality</td>
<td>121,493</td>
<td>190,000</td>
<td>99,000</td>
<td>201,000</td>
<td>168,000</td>
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<td>Water Treatment</td>
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<td>335,000</td>
<td>350,000</td>
<td>264,000</td>
<td>279,000</td>
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<td>Tanks &amp; Reservoirs</td>
<td>308,030</td>
<td>387,000</td>
<td>255,000</td>
<td>423,000</td>
<td>433,000</td>
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<td>Transmission &amp; Dist.</td>
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<td>1,204,000</td>
<td>1,110,000</td>
<td>1,460,000</td>
<td>1,534,000</td>
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<td>Services</td>
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<td>163,000</td>
<td>101,000</td>
<td>149,000</td>
<td>157,000</td>
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<td>Meters</td>
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<td>629,000</td>
<td>652,000</td>
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<td>Backflow Prevention</td>
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<td>56,000</td>
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<td>Customer Accounts</td>
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<td>581,000</td>
<td>752,000</td>
<td>787,000</td>
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<td>Equipment &amp; Vehicles</td>
<td>284,435</td>
<td>306,000</td>
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<td>332,000</td>
<td>351,000</td>
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<td>Building &amp; Grounds</td>
<td>441,746</td>
<td>339,000</td>
<td>416,000</td>
<td>349,000</td>
<td>390,000</td>
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<td>Engineering</td>
<td>1,177,307</td>
<td>1,412,000</td>
<td>1,254,000</td>
<td>1,338,000</td>
<td>1,419,000</td>
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<td>Safety &amp; Reg. Affairs</td>
<td>194,901</td>
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<td>197,000</td>
<td>253,000</td>
<td>258,000</td>
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<td>Information Technology</td>
<td>510,326</td>
<td>636,000</td>
<td>523,000</td>
<td>910,000</td>
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<td>General &amp; Admin.</td>
<td>2,983,272</td>
<td>3,033,000</td>
<td>2,933,000</td>
<td>3,137,000</td>
<td>3,373,000</td>
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<tr>
<td><strong>Total Expense</strong></td>
<td><strong>33,283,213</strong></td>
<td><strong>35,389,000</strong></td>
<td><strong>32,865,000</strong></td>
<td><strong>31,351,000</strong></td>
<td><strong>36,777,000</strong></td>
</tr>
</tbody>
</table>

### OPERATING INCOME

<table>
<thead>
<tr>
<th></th>
<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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<tr>
<td><strong>Operating Income</strong></td>
<td>$5,248,930</td>
<td>$7,281,000</td>
<td>$5,623,000</td>
<td>$3,163,000</td>
<td>$925,000</td>
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### LESS TRANSFERS TO REPLACEMENT RESERVE

<table>
<thead>
<tr>
<th></th>
<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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<tbody>
<tr>
<td><strong>Less Transfers</strong></td>
<td>$5,248,930</td>
<td>$7,281,000</td>
<td>$5,623,000</td>
<td>$3,163,000</td>
<td>$925,000</td>
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### NET INCOME

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<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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<tbody>
<tr>
<td><strong>Net Income</strong></td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
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## WATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2016

<table>
<thead>
<tr>
<th></th>
<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER PURCHASES</td>
<td>$24,145,579</td>
<td>$25,315,000</td>
<td>$23,790,000</td>
<td>$20,668,000</td>
<td>$25,505,000</td>
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<td>PUMPING</td>
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<tr>
<td>Cost of Labor</td>
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<td>69,000</td>
<td>55,000</td>
<td>115,000</td>
<td>121,000</td>
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<td>Materials &amp; Supplies</td>
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<td>41,000</td>
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<td>237,000</td>
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<td>WATER QUALITY</td>
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<td>Cost of Labor</td>
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### SAFETY & REG. AFFAIRS

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<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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### INFORMATION TECHNOLOGY

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### GENERAL & ADMINISTRATION

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2015-2016 OPERATING BUDGET

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EDUs Added Each Fiscal Year

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Sewer Flow in MGD*

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<td>2016</td>
<td>6.11</td>
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*Based on average flow each April.
BUDGET FOR THE YEAR ENDING JUNE 30, 2016

FUNCTION DEFINITIONS - WASTEWATER OPERATIONS

REVENUES

Sewer Service: Monthly charges to cover the cost to collect, treat and dispose of wastewater, and to maintain the various wastewater facilities.

Reclaimed Water Sales: Revenue generated from contractual sale of reclaimed water to the Carlsbad Municipal Water District and the Olivenhain Municipal Water District on a cost recovery basis.

Other: Interest revenue, late charges, engineering fees and other miscellaneous revenues.

OPERATING EXPENSES

Collection and Conveyance: Maintaining flow in 249 miles of District sewer lines. Includes blockage removal, television inspection, and maintenance of pipeline system and manholes.

Lift Stations: Cost of lifting sewage flows at the Montiel Lift Station, Lake San Marcos Lift Station and Questhaven sewer lift station. Includes maintenance and power costs of the pumping systems.

Peroxide Station: Odor control by injection of hydrogen peroxide at outfall line on El Camino Real. Includes monitoring, maintenance, and chemicals. This site has been decommissioned, but continues to be maintained for potential future use.

Industrial Waste: Costs to ensure compliance with federal, state, and local regulations as administered through the Encina Wastewater Authority.

Encina Disposal: Cost reimbursement to the Encina Wastewater Authority for processing wastewater and returning clean water to the environment.

Meadowlark Plant: All costs attributed to treating wastewater and for production and sale of reclaimed water to Carlsbad MWD, and OMWD including operation and maintenance of the plant, No. 1 Lift Station, and Mahr Reservoir.

Customer Accounts: Responds to customers, associated billing costs, and uncollectible accounts.

Equipment and Vehicles: Maintenance of sewer vehicles and equipment and transfer of a portion of administrative and water operations vehicle costs attributable to sewer.

Buildings and Grounds: A transfer of costs attributable to sewer.

Engineering: All attributable sewer engineering, capital facilities and inspection costs.
Safety and Compliance: A transfer of safety and regulatory affairs costs attributable to sewer operations.

General and Administrative

Cost of Labor:

- **Salaries** include all vacation, sick leave, and holiday time for sewer personnel.
- **Group Insurance** is health, vision, and dental costs for all sewer personnel.
- **Workers’ Compensation Insurance** covers all sewer personnel.
- **Public Employees Retirement System (PERS)** participation costs for all sewer personnel.
- **Social Security** cost for all sewer personnel.
- **Other Taxes** include unemployment and other miscellaneous employee taxes for sewer personnel.

**Travel** costs for sewer personnel.

**Meetings and Seminars** fees for sewer personnel are to provide District representation and professional development.

**Dues and Subscriptions** are periodical costs for sewer-related activities.

**Other** includes miscellaneous expenses that do not specifically apply to any of the above-referenced categories.

**Administrative Credit Transfer** is the collection or recovery of overhead costs that apply to all construction work orders.
2015-2016 WASTEWATER OPERATING BUDGET
$19,096,000

- Treatment: $2,188,000 (11%)
- General & Administrative: $6,202,000 (32%)
- Operation & Maintenance: $2,781,000 (15%)
- Replacement Reserve: $1,266,000 (7%)
- Collection & Conveyance: $6,659,000 (35%)
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<thead>
<tr>
<th></th>
<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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## VALLECITOS WATER DISTRICT

### WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2016

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<tr>
<th></th>
<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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<td>Materials &amp; Supplies</td>
<td>Chemicals</td>
<td>Outside Services</td>
<td>Power</td>
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<th>FY 14-15</th>
<th>FY 15-16</th>
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## WASTEWATER OPERATIONS BUDGET FOR THE YEAR ENDING JUNE 30, 2016

<table>
<thead>
<tr>
<th></th>
<th>Actual FY 13-14</th>
<th>Budget FY 14-15</th>
<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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# BUDGET FOR THE YEAR ENDING JUNE 30, 2016

## SALARY AND BENEFIT RECAP

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<th>Projected FY 14-15</th>
<th>Budget FY 15-16</th>
<th>Estimated FY 16-17</th>
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## Benefits as a Percentage of Salaries

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<th></th>
<th>57.4%</th>
<th>54.4%</th>
<th>55.6%</th>
<th>60.3%</th>
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<td>18.0</td>
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<td>115.5</td>
<td>111.5</td>
<td>115.25</td>
<td>117.25</td>
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</table>
Administrative Services Manager (5-1)

- Human Resources Technician
- Administrative Services Assistant

Information Technology Supervisor (4-1)
- System Administrator
- Applications Specialist I/II (2)
- Information Technology Technician

Risk Management Supervisor (2-1)
- Safety Technician
- Source Control Technician

Public Information Conservation Supervisor (3.5-1)
- Public Information Representative (3)
- Student Worker (.5)
2015-16 PERSONNEL BUDGET

POSITIONS/PERSOONNEL:
Positions included in the budget were previously identified in the five year staffing plan which is reviewed on an annual basis. Management will scrutinize the need for all positions and only fill positions if absolutely necessary.

RECLASSIFICATIONS:
An overall evaluation of efficiencies created the need to reclassify a full-time Office Assistant position to a Finance Assistant. Other position titles throughout the District were changed to better describe the duties of the position and facilitate comparability between Vallecitos and similar agencies.

NEW POSITION:
Applications Specialist - Estimated annual Cost $75,800 plus benefits
This position will fill-in the gaps within the IT Department such as lack of a quality assurance person to test and review programming and reports created by current Applications Specialist. There is also a need for programming and create reports across multiple applications. Adding another specialist will reduce the dependence on consultants and allow better control of systems within the District's ERP. This position is budgeted for nine months of the fiscal year.
### 2015-16 PUBLIC AWARENESS AND CONSERVATION PROGRAM BUDGET

**REBATE PROGRAMS**  
Prj 2016100055  
W/O 117447  
To encourage the purchase of qualified low flow devices, appliances, and artificial turf by issuing rebates on qualified products. For purchase of rain water harvesting barrels to encourage use of alternative water sources for residential customers. May also be used to provide rebates to customers who remove their existing turf grass and install a low-water landscape (i.e. Cash for Grass program).  
$5,000

**OUTREACH & ADVERTISING**  
Prj 2016100056  
W/O 117448  
For purchase of items and services used to assist customers in becoming better informed about water related issues. Includes but not limited to: purchase of videos, books, displays and promotional items; advertising; cost to participate in community events; employee education; and to provide tours of District facilities. Includes cost to produce and mail Splash! newsletters, consumer confidence report, brochures, bill inserts, special hearing notifications, and others as needed.  
$63,000

**VIDEO PRODUCTION**  
Prj 2016100057  
W/O 123555  
Cost to hire outside production company to produce videos highlighting the District. Videos to be shown during tours of District, speaking engagements, and/or on the new VWD website. Highlighted topics to include overview of VWD and Meadowlark Water Reclamation Facility. If time allows, additional topics to include Landscape Irrigation Audit program and sustainable garden.  
$6,000

**EDUCATION**  
Prj 2016100058  
W/O 117451  
For continued development and purchase of materials designed to promote and implement K-12 education programs. This includes the Splash Science Mobile Lab visits to area elementary schools and payment for bus transportation to Jack’s Pond Park and Heritage Park to listen to educational water history information by District staff. Also includes bus transportation for school tours of North Twin Oaks Reservoirs, Meadowlark Water Reclamation Facility, and District Administration office and demonstration garden. Includes materials and costs to participate in annual Water Awareness Campaign (4th grade calendar/poster contest), such as the purchase of calendars, entry forms, prizes for entrants and poster contest winners. Also includes participation in Palomar College GEAR UP program. May include cost for high school video contest if contest is offered in the future by the North County Water Agencies group.  
$17,000

**COOPERATIVE PROGRAMS**  
Prj 2016100059  
W/O 117452  
For participation in cost-sharing programs such as residential surveys; large property audits, which are outsourced due to extensive staff time that would be required; customer service surveys; and supplies such as dye tablets, showerheads and moisture probes.  
$6,000

**WATERWISE LANDSCAPE**  
Prj 2016100060  
W/O 117453  
To promote low water use landscape and irrigation practices. Includes the cost for sponsoring, maintaining and upgrading water-wise demonstration gardens**, landscape irrigation/plant selection workshops, signage and promotion of demonstration gardens, waterwise plant promotions, and purchase of waterwise landscape brochures and publication reprints. ** Demonstration gardens include: Sustainable Demonstration Garden at VWD Administration building, Heritage Park native plant garden and Jack's Pond Park native plant garden.  
$23,000

**MEMBERSHIPS & EQUIPMENT**  
Prj 2016100061  
W/O 117454  
To maintain memberships in related organizations and committees and for the purchases of new or replacement equipment.  
$2,000

**COMMERCIAL/INDUSTRIAL**  
Prj 2016100062  
W/O 117455  
To assist large commercial and public agency customers by providing workshops, written materials, monetary incentives, and using outside consultants.  
$2,000

**BRANDING CONSULTING**  
Prj 2016100063  
W/O TBA  
Consulting services to assist the District through a process to create brand awareness.  
$20,000

**NSDEC NEWSLETTERS**  
Prj 2016100064  
W/O 152162  
Creating content for newsletters managed my North San Diego Economic Development Council.  
$2,000

**TOTAL PUBLIC AWARENESS/CONSERVATION PROGRAM BUDGET**  
$146,000

* Uncertainty in the funding from the Metropolitan Water District may adversely impact the availability of programs.
2015-2016 CAPITAL BUDGET
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<th>Project Title</th>
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<th>Previous Expended</th>
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<td>MRF - Refurbish Backwash Pumps and Motors</td>
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Total: $82,293,200 $22,626,200 $59,667,000 $4,776,000
# Comprehensive Project List

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Capital Improvement Program
Encina Parallel Land Outfall

Description: This project calls for the installation of approximately 43,500 feet of new outfall pipeline varying between 18 and 30 inches in diameter. The pipeline will parallel the existing sewer interceptor from Lift Station No. 1 to the Encina Water Pollution Control Facility.

Project Manager: James Gumpel
Department: Engineering

Project: 90001
Work Order: 90001

Funding Source: 100% Fund 220 – Sewer Capacity

Comments: This project will increase the District’s sewer handling capacity by allowing more wastewater flow to the Encina Water Pollution Control Facility. The District will work with other interested agencies (City of Carlsbad, Buena Sanitation District & City of Vista) when possible in pursuit of cost-sharing alternatives.

Operations Impact: Increased sewerage handling capacity and additional flexibility & redundancy in outfall system during average and low flow periods. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

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FY 15/16 Budget Request - $0

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Capital Improvement Program
San Marcos Interceptor

Description: The project consists of three separate phases constructing approximately 9,000 LF of 36” sewer interceptor replacing an existing 21” sewer line. The existing line is prone to groundwater inflow and infiltration (I&I) and at risk for failure.

The sewer interceptor runs along San Marcos Creek from north of the 78 FWY past McMahr Road. The project includes open cut and tunnel section as well as right of way acquisition.

Project Manager: James Gumpel
Department: Engineering

Funding Source: 31% Fund 210 – Sewer Replacement
69% Fund 220 – Sewer Capacity

Comments: This project is identified in the 2002 Master Plan. The reduction of I&I will help extend the life of the sewer system downstream of the San Marcos interceptor and reduce unnecessary treatment of groundwater at Encina and Meadowlark. The new line will also reduce the likelihood of spills within San Marcos Creek. Design and land acquisition will move forward in FY 13/14 for the last phase between Via Vera Cruz and Pacific Street in order to be consistent with the future road within the creek district.

Operations Impact: Minimal impact is anticipated as this project increases the size of an existing sewer line and does not add significant lineal footage of sewer for maintenance.

Project Spending Plan

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FY 15/16 Budget Request - $1,050,000

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Capital Improvement Program
Coronado Hills Tank #2

Description: Build-out demands for the 1530, 1115 and 1320 pressure zones are projected to require a storage volume of 9.63 million gallons over and above existing storage capacity. This project will add 4.73 million gallons of potable water storage to meet the projected near-term total storage deficits in the 1530 and neighboring pressure zones. This reservoir will be constructed on the same site as the existing Coronado Hills Tank.

Project Manager: Jason Hubbard
Department: Engineering

Project: 2013100001
Funding Source: 100% Fund 120 – Water Capacity

Comments: The existing Coronado Hills Tank resides on a large, flat parcel that can accommodate additional storage reservoirs with little grading and preparation efforts. The ultimate plan is to locate a total of 3 tanks at this site, with a Coronado Hills #3 tank sized for 3.21 million gallons being constructed around 2030. The Master Plan has identified this as Project R-3.

Operations Impact: The project will add 4.73 million gallons of potable water storage to the service system.

Project Spending Plan

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FY 15/16 Budget Request - $0

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Capital Improvement Program
Meadowlark Tank No. 3

Description: This existing Meadowlark Tank site is comprised of one 1.25 million gallon tank and a second 2.75 million gallon tank. The 1.25 million gallon tank will be demolished and replaced by a new 2.8 million gallon tank. As part of this project, grading for a future 2.8 million gallon Meadowlark Tank No. 4 will also occur. Site improvements include grading and clearing, landscaping, and installation of new 20” and 16” inlet/outlet piping.

Project Manager: Jason Hubbard

Funding Source: 35% Fund 110 – Water Replacement
               65% Fund 120 – Water Capacity

Comments: The site was master planned during the 76-1 Assessment District to accommodate three tanks total. The final tank is not expected to be needed until 2021. At build-out, the Meadowlark Tanks will provide a total storage capacity of 8.35 million gallons.

Operations Impact: The project will increase capacity at the site by 1.55 million gallons with the construction of the new tank. Daily monitoring of water levels and conditions at the tank site is expected.

Project Spending Plan

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FY 15/16 Budget Request - $0

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Description: This project involves the construction of three 1,000 gallon-per-minute pumps and 125 horsepower motors, along with all corresponding electronics, within a new building next to the existing Mountain Belle Reservoir. Approximately 1,800 feet of 16-inch connector pipe from the pump station to an existing 10” pipeline in the North Twin Oaks (1330’) Pressure Zone will also be installed.

Project Manager: Jason Hubbard

Department: Engineering

Project: 71219
Work Order: 71219 (207504)

Funding Source: 100% Fund 120 – Water Capacity

Comments: The Mountain Belle Pump Station is intended to serve as a completely redundant water supply to the new North Twin Oaks (1330’) pump station. It will be sized to meet ultimate build-out demands in the North Twin Oaks 1330’ Pressure Zone, the 1059’ Pressure Zone, and the North 1228’ Pressure Zone. A pad for this pump station has already been placed next to the Mountain Belle Reservoir (see picture above).

Operations Impact: Redundant pumping capacity to the North Twin Oaks Pressure Zone. Daily, routine monitoring and inspections of the pump station is expected, as are regular maintenance efforts and some infrequent repair work.

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FY 15/16 Budget Request - $0

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Capital Improvement Program
MRF Solids Force Main Replacement

**Description:** The Meadowlark Reclamation Facility (MRF) solids force main transports concentrated brine byproduct generated from recycled water production to the land outfall for treatment at the Encina Water Pollution Control Facility. This project involves the replacement of approximately 5,700’ of existing 6” DIP force main with a new 7,400-foot section of PVC pipeline from the Meadowlark Reclamation Facility (MRF) through Melrose Drive to Poinsettia Lane. This project will also make improvements at the MRF including replacement of an existing influent line and gravity sludge line.

**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2013100004

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** The MRF solids force main has broken on several occasions over the last few years. It has spilled concentrated wastewater brine that has resulted in emergency clean-up activities and fines. This project will replace the existing DIP force main with a new PVC pipeline that has more capacity and greater corrosion resistance. This project will also relocate the pipeline out of environmentally sensitive areas and local neighborhoods and into more accessible areas. Though the design was completed in FY 14/15 and costs were based on a lean interpretation of the 2010 Master Plan, an increasingly more competitive bid environment has delayed the project until additional funds can be allocated for the construction phase.

**Operations Impact:** Reduced risk of sewer spilling and reduced energy usage. Annual and routine pipeline maintenance is expected with the completion of this project.

**Project Spending Plan**

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**FY 15/16 Budget Request - $1,225,000**

**Estimated Project Timeline**

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Description: The District is a member agency of the Encina Wastewater Authority (EWA). The District shares in the cost of planned asset replacements and capital acquisitions.

Project Manager: Tom Scaglione
Department: General Manager

Project: 2015100001
Funding Source: 100% Fund 210 – Sewer Replacement

Comments: These miscellaneous Encina Wastewater Authority capital projects are budgeted each year based on the District’s 20.24% ownership share.

Operations Impact: No significant increase in costs or changes in efficiencies are anticipated from this project.

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FY 15/16 Budget Request - $0

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Capital Improvement Program  
Rock Springs Sewer Replacement

**Description:** This project calls for the abandonment and/or removal of approximately 2,500 feet of 8” VCP sewer main and 10 manholes within Rock Springs Road and adjacent greenbelt. This will be replaced by 3,000 feet of new PVC sewer main, 16 new manholes, and rehabilitating 4 existing manholes. This will eliminate an existing surcharging condition in the District’s collection system between Woods Dr. and Hannigans Way within a greenbelt drainage area south of Rock Springs Rd.

**Project Manager:** Jason Hubbard  
**Department:** Engineering

**Project:** 90003  
**Work Order:** 90003  
**Funding Source:** 45% Fund 210 – Sewer Replacement  
55% Fund 220 – Sewer Capacity

**Comments:** This project will bring relief to a section of existing sewer pipe within a greenbelt drainage area that is currently operating beyond its design limits. The 2008 Master Plan has identified this upgrade as project SP-5. An increasingly more competitive bid environment and a lean cost analysis in the Master Plan, has resulted in the necessity for additional funds to be allocated.

**Operations Impact:** Less inflow and infiltration into the collection system; reduced risk of sewer spilling. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

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**FY 15/16 Budget Request - $560,000**

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Capital Improvement Program  
San Elijo Hills Pump Station

**Description:** This pump station will transport at least 2,750 acre-feet of potable water each year that was treated by the Olivenhain Municipal Water District’s David C. McCollom water treatment plant. The pump station will be sized to pump approximately 3,000 gallons per minute to VWD’s 877 Pressure Zone. A building to house the pumps, header pipeline and electrical equipment will also be constructed. The pump station will be connected to VWD’s existing 16-inch distribution pipeline in San Elijo Road. This item is part of the VWD Strategic Plan – Strategic Focus Area 6.1

**Project Manager:** Jason Hubbard  
**Department:** Engineering

**Project:** 2013100530  
**Funding Source:** 100% Fund 120 – Water Capacity

**Comments:** VWD and the Olivenhain Municipal Water District signed a Water Purchase Agreement (WPA) in November 2012 for the purchase of 2,750 acre-feet of treated water per year. This water is being purchased by VWD at a reduced treatment rate compared to CWA water, and because the water will be treated more recently than CWA water, it is expected to reduce nitrification issues in the San Elijo Hills service area.

**Operations Impact:** Offers a second supply of potable water to the San Elijo Hills service area. Daily, routine monitoring and inspection of the pump station is expected, as are regular maintenance efforts and some infrequent repair work.

### Project Spending Plan

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**FY 15/16 Budget Request - $0**

### Estimated Project Timeline

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-44-
Capital Improvement Program
Desalinated Water Connection

Description: The District will receive 3,500 acre-feet of desalinated water per year from the Carlsbad Desalinated Water Facility when it comes on-line in 2016. This project includes the installation of approximately 250 feet of pipeline and a new 20-cfs metering facility at the VAL IX connection to bring desalinated water directly into the 920 Pressure Zone instead of through CWA’s 2nd Aqueduct system. This item is part of the VWD Strategic Plan – Strategic Focus Area 6.1

Project Manager: James Gumpel

Department: Engineering

Project: 2014100005

Funding Source: 100% Fund 120 – Water Capacity

Comments: VWD plans to utilize the existing VAL IX flow control facility for the desalinated water connection. A smaller 20-cfs metering facility will replace the existing 30-cfs metering facility in order to properly meter the anticipated flow rates. The budget also includes funds to study the water chemistry and compatibility with traditional CWA supplies.

Operations Impact: Management of a dedicated desalinated water source where VWD must take 3,500 acre-feet of water per year at a constant base-loaded rate.

Project Spending Plan

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FY 15/16 Budget Request - $20,000

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Capital Improvement Program
Wulff Pressure Reducing Station

**Description:** This project will install a new pressure reducing station to allow water to be pumped from the High Point hydro-pneumatic pump station to the Wulff pressure zone.

**Project Manager:** Jason Hubbard

**Department:** Engineering

**Work Order:** 71025

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** After the High Point residential development is completed to the south, an offsite waterline and pressure reducing station will be built to provide an additional source of water from the High Point/Palos Vista area. The offsite waterline construction is the developer’s responsibility.

**Operations Impact:** The operation of Wulff Pump Station will be reduced after the installation of the proposed pressure reducing station. The new pressure reducing station will allow for a redundant water supply to the Wulff pressure zone.

### Project Spending Plan

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**FY 15/16 Budget Request - $690,000**

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-46-
Capital Improvement Program
Richland Invert Replacement

Description: This project calls for the replacement of the existing 100-foot wastewater siphon pipeline that travels under San Marcos Creek from the Diamond Environmental Services parking lot south of Mission Road to the 18-inch Richland Interceptor. The existing 8-inch and 10-inch pipelines will be replaced with either a new 15-inch siphon to be located at the existing pipelines’ location or by a new 15-inch gravity pipeline in Mission Road and a new crossing further to the west.

Project Manager: Jason Hubbard
Department: Engineering

Project: 2012100002
Funding Source: 100% Fund 210 – Sewer Replacement

Comments: The existing 8-inch and 10-inch invert pipelines were installed over 27 years ago and were originally designed to be temporary. Because of their size restrictions, they surcharge upstream gravity pipelines during peak flows. In addition, recent inspections by the District’s collections crew have revealed damage to the existing pipe. This project crosses underneath San Marcos Creek, and staff anticipates environmental wetland permitting requirements. The 2008 Master Plan has identified this replacement as project SP-10.

Operations Impact: The project increases sewage handling capacity in the collections system and solves an existing sewer surcharge issue during daily peak and wet weather events. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

Project Spending Plan

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FY 15/16 Budget Request - $455,000

Estimated Project Timeline

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Capital Improvement Program
Lift Station 1 Pump Improvements

Description: The intent of this project is to increase the capacity of Lift Station 1 from about 2,000 gallons per minute (gpm) to 3,100 gpm through the installation of a new pump. This will increase the amount of wastewater flow to VWD’s Meadowlark Water Reclamation Facility (MRF) and thus increase the amount of recycled water that can be produced at MRF. Also part of this project is the replacement of an older 600 gpm pump with a new 600 gpm pump. This item is part of the VWD Strategic Plan – Strategic Focus Area 6.2

Project Manager: Jason Hubbard
Department: Engineering

Project: 2013100533
Funding Source: 76% Fund 220 – Sewer Capacity
24% Fund 210 – Sewer Replacement

Comments: MRF currently receives an average wastewater flow of 3.9 million gallons per day (MGD) from which it produces approximately 3.6 MGD of recycled water. The installation of the new 1,900 gallon-per-minute pump would increase wastewater flows to MRF to approximately 4.8 MGD and allow MRF to produce approximately 4.4 MGD of recycled water. The project can receive up to $338,000 toward construction costs through a Proposition 84 grant, provided that VWD matches at least 25%.

Operations Impact: Increased pumping capacity of wastewater to MRF. Daily, routine monitoring and inspection of the lift station is expected, as are regular maintenance efforts and some infrequent repair work.

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FY 15/16 Budget Request - $676,000

Estimated Project Timeline

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Capital Improvement Program
Questhaven Basin Water and Sewer Facilities

Description: The 2002 Master Plan required the oversizing of water and sewer facilities to provide adequate infrastructure within the Questhaven basin. The Master Development Agreement with San Elijo Hills incorporated these facilities for construction and reimbursement of oversizing costs.

Project Manager: Robert Scholl
Department: Engineering
Project: 71077
Work Order: 71077 (204030)
Funding Source: 50% Fund 120 – Water Capacity
50% Fund 220 – Sewer Capacity

Comments: The remaining reimbursable items include payment for increased water main pipe size from 10” to 16” in Planning Area O.

Operations Impact: None

Project Spending Plan

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FY 15/16 Budget Request - $0

Estimated Project Timeline

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Capital Improvement Program
Asset Management Replacement Schedule

Description: Create a prioritized Asset/Infrastructure replacement schedule for the District Facilities. This item is part of the VWD Strategic Plan – Strategic Focus Area 1.2

Project Manager: James Gumpel
Department: Engineering

Project: 2014100004
Funding Source: 50% Fund 110 – Water Replacement
50% Fund 210 – Sewer Replacement

Comments: The District’s infrastructure is aging and proper planning requires an understanding of when, where, and how much replacing that infrastructure will cost. Proper preventative maintenance helps insure the District obtains the maximum beneficial life out of its infrastructure. The District has already taken steps towards this by implementing a computerized maintenance management system (CMMS) also known as Maximo to implement and track preventative, corrective, and emergency maintenance/repairs on all assets or infrastructure. This project will take the CMMS information and prioritize a replacement schedule as well as cost over the expected life of all assets/infrastructure.

Operations Impact: None

Project Spending Plan

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<tr>
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<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
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FY 15/16 Budget Request - $0

Estimated Project Timeline

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</table>
Capital Improvement Program
Water and Sewer Master Plan

Description: Master Plans are typically updated every 5 years because project priorities shift and land use agencies approve zoning changes in the Districts’ boundaries. Since the adoption of the 2008 Master Plan, VWD’s per capita water and wastewater demands have declined due to drought and the recession, and the City of San Marcos has approved several developments with zoning changes. VWD has also inked contracts for the purchase of treated water from the Olivenhain Water District and desalinated water directly from Poseidon Resources – both of which will likely shift capital project priorities. These reasons will trigger the need for a master plan update. This item is part of the VWD Strategic Plan – Strategic Focus Areas 1.3 and 6.4

Project Manager: James Gumpel

Department: Engineering

Project: 2014100003

Funding Source: 50% Fund 110 – Water Replacement
50% Fund 210 – Sewer Replacement

Comments: An Environmental Impact Report will be prepared in conjunction with the master plan update. This document will detail the impacts, at a programmatic level, that the master plan projects may create on the community and the environment. The District’s water and wastewater models will also be updated during this master plan update, and a water supply planning section that will analyze expansion of recycled water use will be included.

Operations Impact: Will identify new projects that will likely require frequent maintenance activities by Operations.

<table>
<thead>
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<th>FY 16/17</th>
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*FY 15/16 Budget Request - $50,000*

**Estimated Project Timeline**

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<td>June-2016</td>
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</table>
Capital Improvement Program
Old Questhaven Sewer Replacement

**Description:** Installation of 1400 feet of 24” PVC sewer main in the old Questhaven Road right-of-way, along with 6 new manholes; abandonment of 935 feet of 21” VCP and 255 feet of 21” PVC temporary sewer pipe in the old Questhaven Road right-of-way; abandonment of 1470 feet of 24” DIP temporary sewer pipe in Rancho Santa Fe Road.

**Project Manager:** Jason Hubbard  
**Department:** Engineering

**Project:** 80001  
**Work Order:** 80001  
**Funding Source:** 77% Fund 210 – Sewer Replacement  
23% Fund 220 – Sewer Capacity

**Comments:** This project will replace a section of existing temporary sewer pipe in the old Questhaven Road right-of-way. The new pipe section will be higher in elevation to connect to the permanent pipeline in Rancho Santa Fe Road and allow the temporary pipeline in both old Rancho Santa Fe Road and old Questhaven Road right-of-way and San Marcos Creek to be abandoned.

**Operations Impact:** Less inflow and infiltration into the collection system; abandonment of a temporary sewer pipeline. Annual, routine sewer pipeline maintenance is expected with the completion of this project.

### Project Spending Plan

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**FY 15/16 Budget Request - $0**

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Capital Improvement Program
High Point Pipeline

**Description:** Approximately 2,800 feet of 12” PVC potable water pipeline is proposed to connect the 1625 High Point Pressure Zone to the 1567 Wulff Pressure Zone. This project also includes the construction of a pressure reducing valve to the 1567 Wulff Pressure Zone’s hydraulic grade line. The High Point development is responsible for installation of an 8” pipeline as part of its development conditions, and the District will reimburse the developer for upsizing the pipeline to 12”.

**Project Manager:** Robert Scholl

**Department:** Engineering

**Project:** 2013100006

**Funding Source:** 100% Fund 120 – Water Capacity

**Comments:** This pipeline provides an auxiliary feed from the 1625 High Point Pressure Zone to the 1567 Wulff Pressure Zone. And with the completion and acceptance of the High Point Hydro-pneumatic Pump Station, the District will have some limited ability to transfer potable water from the 920 Pressure Zone to the higher northern pressure zones that does not currently exist. The 2008 Master Plan has identified this pipeline as Project P-43.

**Operations Impact:** Minimal impact is anticipated as this project does not add significant lineal footage of potable water pipeline for maintenance.

### Project Spending Plan

<table>
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<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
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**FY 15/16 Budget Request - $0**

### Estimated Project Timeline

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Capital Improvement Program
Environmental Mitigation Property

Description: This project allocates funds for the purchase and/or maintenance of mitigation property for the environmental impacts associated with future District capital projects. Such funds could be utilized for either purchasing credits at existing mitigation banks, or purchasing property for performance of mitigation.

Project Manager: Robert Scholl
Department: Engineering

Project: 2010100003
Funding Source: 90% Fund 220 – Sewer Capacity
10% Fund 120 – Water Capacity

Comments: This project will fund land and credit purchases for projects identified in the 2002 Master Plan for purposes of environmental mitigation. These funds could move to and from other capital projects, such as the San Marcos Interceptor Sewer or the Encina Land Parallel Outfall, or to easement acquisition and/or maintenance.

Operations Impact: Maintenance of purchased property is expected. This may include extended maintenance of mitigation property that could require the service of a specialty contractor.

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<th>Project Phase</th>
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FY 15/16 Budget Request - $150,000

Estimated Project Timeline

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Capital Improvement Program
Northwest Lake San Marcos Sewer Replacement and Relining Project

Description: This project involves the replacement of approximately 1000 feet of existing 8-inch VCP sewer pipeline with new 8-inch PVC pipe. In addition, approximately 750 feet of adjacent VCP pipeline will be lined to extend its useful life. This item is part of the VWD Strategic Plan – Strategic Focus Area 1.4

Project Manager: Jason Hubbard
Department: Engineering

Project: 2014100002
Funding Source: 100% Fund 210 – Sewer Replacement

Comments: The sewer pipeline in the northwest Lake San Marcos area is being compromised due to lime leaching into the pipe. This pipe was installed between 1964 and 1971 and is reaching the end of its useful life. While lime damage warrants replacement of most of the pipe in this area, some pipeline can be relined instead to extend its life.

Operations Impact: Annual and routine sewer pipeline maintenance.

Project Spending Plan

<table>
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<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
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FY 15/16 Budget Request - ($895,000)

Estimated Project Timeline

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</tbody>
</table>
Capital Improvement Program
Land Outfall Clearing & Access Road

**Description:** The Land Outfall is located with easements for a significant portion of its length where it runs parallel to Palomar Airport Road in Carlsbad. One parcel of land is wet and swampy and is being developed as a mitigation bank by the land owner. This is an opportunity to remove the overgrown vegetation while it is being developed and construct a drivable access.

**Project Manager:** James Gumpel

**Department:** Engineering

**Project:** 71177

**Work Order:** 71177

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** The developer has included the District in the process and considered this access in the permitting and developing of the site. The Outfall is owned by the District and shares capacity in this stretch with the cities of Carlsbad and Vista and the Buena Sanitation District. The joint agreement requires them to pay their proportionate share of this maintenance activity.

**Operations Impact:** Routine maintenance

### Project Spending Plan

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
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**FY 15/16 Budget Request - $330,000**

### Estimated Project Timeline

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Capital Improvement Program
City of San Marcos Joint Projects

Description: This amount is set-aside to cover services rendered in conjunction with various City of San Marcos projects involving District infrastructure per the District/City Cost Sharing Agreement dated March 31, 2009.

Project Manager: James Gumpel

Department: Engineering

Project: 90007

Funding Source: See below

Funding Sources:

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Comments: These projects are in conjunction with the City’s Capital Improvement Plan.

Operations Impact: Normal maintenance for infrastructure

Project Spending Plan

<table>
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FY 15/16 Budget Request - ($67,000)

Estimated Project Timeline

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Capital Improvement Program
Twin Oaks Reservoir: On-site Generation of Sodium Hypochlorite

**Description:** Replace the existing gas chlorine injection system with on-site generation of sodium hypochlorite for water disinfection.

**Project Manager:** Ed Pedrazzi  
**Department:** Water Systems Operations

**Project:** 2014100006  
**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** The Twin Oaks Reservoir Chlorination Facility uses 100% chlorine gas for water disinfection. Chlorine gas is an acute respiratory hazard. Its use requires the District to maintain expensive safety equipment and meet strict regulatory standards set by the US EPA and OSHA. Replacing the chlorine gas system with the on-site generation of sodium hypochlorite (0.8% bleach) will remove the acute hazard from the site. The District would no longer be required to maintain the safety equipment or the regulatory programs. It’s assumed that all construction in support of new equipment can be performed by in house staff.

**Operations Impact:** Routine Maintenance.

**Project Spending Plan**

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
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<th>FY 16/17</th>
<th>FY 17/18</th>
<th>FY 18/19</th>
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**FY 15/16 Budget Request - $0**

**Estimated Project Timeline**

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Capital Improvement Program
Audiovisual Upgrade

**Description:** Various audiovisual improvements to upgrade technology in the board room and several conference rooms and the training room.

**Project Managers:** Karla Fisher  
**Department:** Information Technology

**Project:** 2015100003  
**Funding Source:** 51% Fund 110 – Water Replacement  
49% Fund 210 – Sewer Replacement

**Comments:**
The audiovisual systems in the District Board Room, Training Room, and Conference Rooms have become outdated and were installed with the construction of Building A. This project will upgrade existing technology to accommodate televised Board of Director meetings and create a consistency between conference rooms and the training room.

**Phase I:** Select a design consultant to determine upgrade requirements, design the audiovisual systems, and approximate cost. The design consultant will create RFP, assist with selection of a contractor, and oversee project through testing, training, and completion.

**Phase II:** Select contractor to implement design from Phase I.

**Operations Impact:** Routine Maintenance

### Project Spending Plan

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<th>FY 15/16</th>
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**Total**  
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**FY 15/16 Budget Request - $0**

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-59-
Capital Improvement Program
Vulnerability Assessment Improvements

Description: The District completed the Vulnerability Assessment as required by the Department of Homeland Security. Recommended improvements were identified and being phased in. Fiscal year 2014/15 purchases are for security devices and a 500 kW generator.

Project Manager: Jerome Janus

Department: Engineering - Safety

Project: 71126
Work Order: 71126 (205120)

Funding Source: 60% Fund 120 – Water Capacity
40% Fund 220 – Sewer Capacity

Comments: Implementing safety measures to mitigate vulnerabilities is an on-going process. Due to the highly confidential and sensitive nature of the assessment findings, specific improvements are not defined in this document. Security measures are implemented with the most vulnerable areas addressed first.

Operations Impact: Continual review of measures implemented and discovery of unidentified areas.

Project Spending Plan

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FY 14/15 Budget Request - $0

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Capital Improvement Program
Mahr Reservoir – Chlorine Injection System

Description: Install a chlorine injection system at Mahr Reservoir to improve water quality.

Project Manager: Ed Pedrazzi
Department: Operations & Maintenance

Project: 2015100003
Funding Source: 100% Reclaimed

Comments: The reclaimed water produced at the District’s Meadowlark Reclamation Facility is stored in the Mahr Reservoir. The water contains high levels of phosphorus and nitrogen which provide a food source for algae. The water quality in Mahr is degraded by the high levels of algae which can create issues with water color and clogging of our customers’ distribution equipment. A species of water bug that feeds on algae lives in the reservoir and has been causing additional clogging issues in the distribution systems of our customers. An onsite generation of sodium hypochlorite (bleach) system will be installed in order to control the levels of algae growing in the reservoir and provide a better quality of water for our customers.

Operations Impact: Electric power requirements and salt used for bleach system. Routine maintenance.

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*FY 15/16 Budget Request - $50,000*

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Capital Improvement Program
Trioxyn Injection Station

Description: New facility for trioxyn/Mg(OH)2 injection into the sewer system. Facility will consist of a building to house a chemical storage tank, a manhole over the Land Outfall line and taping the line to establish an injection point and acquisition of electrical power.

Project Manager: Jason Hubbard
Department: Engineering

Project: 80009
Work Order: 80009
Funding Source: 100% Fund 220 – Sewer Capacity

Comments: A temporary site was installed off Poinsettia Road in Carlsbad to study the effect of trioxyn injection at the site. The test was successful and revealed that maximum results could be achieved by locating a permanent injection station one mile east of where the test was performed. Injecting trioxyn at the new site will increase the effectiveness of the trioxyn due to a longer detention time. A decrease in the amount of trioxyn needed for the treatment of the sewer outfall line may result from the longer detention time thus decreasing the overall amount spent on trioxyn. However, Magnesium hydroxide (Mg(OH)2) will also be studied as a possible alternative. The MRF Solids Force Main Replacement project will install a connection point for injecting Mg(OH)2. After a year of usage, the results will be reviewed and evaluated for consideration of this project.

Operations Impact: Normal maintenance of the facility, chemical purchase and monthly electric service.

Project Spending Plan

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FY 15/16 Budget Request - $5,000

Estimated Project Timeline

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Capital Improvement Program
Tertiary Filter Media

**Description:** Replace Meadowlark’s tertiary coarse filter media with a finer filter media for better filtration.

**Project Manager:** James Gumpel

**Department:** Engineering

**Project:** 2012100004  
**Funding Source:** 100% Fund 250 – Sewer Replacement

**Comments:** The media currently in Meadowlark’s tertiary filters is gravel and anthracite. These two medias are a coarser media allowing for more pass-through of finer particulate material. Having a finer media such as sand, finer anthracite and gravel would allow a more efficient capture of the finer material reducing a significant amount of coagulant usage. Meadowlark is required to meet Title 22 turbidity requirements of for the distribution of reclaimed water.

**Operations Impact:** Normal maintenance

### Project Spending Plan

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FY 15/16 Budget Request - $85,000

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Capital Improvement Program
Lift Station #1 - Perimeter Fencing

Description: Install perimeter fencing and perform grading on both east and west sides of District property at Lift Station #1.

Project Manager: Jason Hubbard
Department: Engineering
Project: 2015100010
Funding Source: 100% Sewer

Comments: The District’s property at Lift Station #1 is between a high school and a shopping center with restaurants and convenience stores. Routine chemical deliveries and daily operations are impacted from unwanted foot traffic, requiring increased awareness and time of District personnel. The perimeter fencing will reduce safety concerns from unauthorized access across District property and provide better control of building & grounds access for security purposes. To accommodate the fencing, to maintain drainage of the site, and to allow proper use of the property, light grading is required.

Operations Impact: Routine maintenance.

Project Spending Plan

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FY 15/16 Budget Request - $225,000

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Capital Improvement Program
South Lake Dam Sluice Gate

**Description:** This project will be performed prior to the City of San Marcos’ South Lake Park Project.

**Project Manager:** Ed Pedrazzi  
**Department:** Operations & Maintenance

**Project:** 71081  
**Work Order:** 71081

**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** This project will begin prior to the South Lake Park improvements.

**Operations Impact:** Annual maintenance

### Project Spending Plan

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**FY 15/16 Budget Request - ($50,000)**

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Capital Improvement Program
Knoll Road Sewer Replacement

Description: Replace approximately 300 feet of 8-inch diameter VCP pipeline with new 8-inch PVC pipe.

Project Manager: Jason Hubbard
Department: Engineering

Project: 2014100716
Funding Source: 100% Fund 210 – Sewer Replacement

Comments: Camera inspection has revealed several sags and standing water in the line which affects the carrying capacity of the sewer and increases the frequency of cleaning. The project was previously part of the Annual Sewer Replacement and I&I Repairs, however, a new budget is being created due to the size and scope of the project.

Operations Impact: Minimize additional cleaning in the main and improve flow characteristics.

Project Spending Plan

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Additional FY 15/16 Budget Request - $55,000

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Capital Improvement Program
North Vista Pressure Reducing Station Upgrade

Description: Upgrade the existing North Vista Pressure Reducing Station with electrical power and bring it up to current standards.

Project Manager: Jason Hubbard
Department: Water Systems Operations
Project: 2014100008
Funding Source: 100% Fund 110 – Water Replacement

Comments: North Vista Pressure Reducing Station is one of the oldest in the District. VWD does not have a SCADA system at this site due to lack of electrical power. The station is one of the few remaining sites in the District without SCADA monitoring. The funds requested are for design and construction to upgrade the pressure reducing station to meet all current standards, including electrical power and SCADA monitoring equipment.

Operations Impact: Routine Maintenance.

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FY 15/16 Budget Request - $60,000

Estimated Project Timeline

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Capital Improvement Program
South Vista Pressure Reducing Station Upgrade

**Description:** Replace the existing South Vista Pressure Reducing Station with a larger vault and bring it up to current standards.

**Project Manager:** Jason Hubbard  
**Department:** Water Systems Operations

**Project:** 2014100007  
**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** South Vista Pressure Reducing Station is one of the oldest in the District. We do not have a SCADA system at this site due to lack of electrical power. The pressure station vault is extremely small with minimal working space. The station is one of the few remaining sites in the District without SCADA monitoring. The funds requested are for design and construction to replace the pressure reducing station with a new vault that meets all current standards, including electrical power and SCADA monitoring equipment.

**Operations Impact:** Routine Maintenance.

### Project Spending Plan

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*FY 15/16 Budget Request - $28,000*

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-68-
Capital Improvement Program
Vactron Pit – District Yard

Description: The intent of this project is to install a concrete pit for the District Vactron vehicles to dump sewer discharge into until the discharge is permanently removed.

Project Manager: James Gumpel  
Department: Engineering

Project: 2014100018  
Funding Source: 100% Fund 210 – Sewer Replacement

Comments: District sewer maintenance staff currently dumps into a small dirt pit in the District yard.

Operations Impact: Will provide better access for sewer discharge dumping and more temporary storage capacity.

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FY 15/16 Budget Request - $45,000

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**Capital Improvement Program**  
**Nitrate Monitoring Meters**

**Description:** To control aeration dissolved oxygen based upon nitrate levels.

**Project Manager:** Dawn McDougle  
**Department:** Meadowlark Reclamation Facility

**Project:** 2015100007  
**Funding Source:** 100% Sewer

**Comments:** Meadowlark’s process continually needs to be monitored for nitrification. If nitrate levels become too high, Meadowlark staff has to manually adjust to reduce nitrate levels. Having in-line instrumentation would allow for automatic control through the plant’s SCADA system to reduce nitrates.

**Operations Impact:** It would provide more information of the process during afterhours allowing Meadowlark staff to trend and evaluate the process more efficiently. Routine maintenance would include calibration and sensor cleaning.

### Project Spending Plan

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Capital Improvement Program  
Palos Vista Pump Station

**Description:** Refurbish pumps and convert from packing sealed to mechanical sealed pumps. Upgrade of 4 each - 6” Pump control valves @ Palos Vista Pump Station

**Project Manager:** Robert Salazar  
**Department:** Mech/Elect

**Project:** 2014100012  
**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** Pumps are overdue for refurbishment to ensure peak operating efficiency. Pumps currently use rope packing to seal the shaft where it enters the discharge head. Packed pumps require constant adjustment of the packing gland to keep leakage to a minimum. This can’t be done due to the SDG&E operating restrictions, as a result the packing leaks excessively and is causing severe corrosion of the pumps and surrounding equipment. A mechanical seal would remedy this and extend life of the pump. The velocity of water flowing through the existing valves is causing damage to the internal components of valve. An upgrade to a Model 60-73 will prevent this.

**Operations Impact:** Normal maintenance

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**FY 15/16 Budget Request - $0**

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Capital Improvement Program  
Chlorine Injection System

**Description:** Equipment for the injection of chlorine into the secondary effluent.

**Project Manager:** Dawn McDougle  
**Department:** Meadowlark Reclamation Facility

**Project:** 2015100014  
**Funding Source:** 100% Fund 250 – Sewer Replacement

**Comments:** A temporary chlorination system was installed and tested in the secondary effluent channel for tertiary disinfection. This system is very efficient, allowing Meadowlark to decrease total chlorine injection by 400 pounds of chlorine per day. A permanent system needs to be designed and installed to replace the temporary application in order to provide reliability and functionality.

**Operations Impact:** Efficient chlorination will reduce chlorine usage; a permanent application will allow removal of the temporary system from the walkways, eliminating a tripping hazard and will make the system safer and easier to maintain.

### Project Spending Plan

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**FY 15/16 Budget Request - $17,000**

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Capital Improvement Program
Roughing Filter Motors

Description: Replace three motors with severe duty, totally enclosed fan cooled motors (TEFC).

Project Manager: Dawn McDougle
Department: Meadowlark Reclamation Facility

Project: 2015100015
Funding Source: 100% Fund 210 – Sewer Replacement

Comments: The current motors have had numerous failures due to weather and everyday environmental conditions at Meadowlark. Replacing these motors with TEFC motors will eliminate these impacts and provide more reliability.

Operations Impact: Reduce costs due to failures and increase reliability.

### Project Spending Plan

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FY 15/16 Budget Request - $12,000

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Capital Improvement Program
Questhaven Lift Station – Wet Well Aeration

**Description:** Install wet well aeration using practices currently utilized within the industry.

**Project Manager:** Braden McCrory  
**Department:** Systems Collection  

**Project:** 2015100013  
**Funding Source:** 100% Sewer

**Comments:** Low wet well and long force main retention time has resulted in increased BOD from sewage sitting in the force main during daily pumping operations. This has resulted in odor complaints received during station pumping cycles.

**Operations Impact:** By oxygen enriching sewage in the forcemain, BOD requirements have a greater chance of being satisfied minimizing potential needs for future injection of odor control chemicals. Added water surface agitation will also aid in grease log and/or grease matting elimination.

### Project Spending Plan

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Vallecitos Water District

Capital Improvement Program
1208 Valve Cans and Lids Upgrade

Description: Upgrade existing 1208 valve cans and lids to 1208n's in high traffic areas.

Project Manager: Kerek Howe
Department: Construction

Project: 2014100022
Funding Source: 100% Fund 110 – Water Replacement

Comments: The valve crew has discovered that in certain areas of high traffic speed roads that the 1208 valve can lids are popping out of the can. The new 1208n cans and lids are much heavier and do not pop out when hit by cars or trucks at higher speeds.

Operations Impact: Routine Maintenance

Project Spending Plan

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FY 15/16 Budget Request - $0

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Capital Improvement Program
Constant Speed Aeration Blower

**Description:** Upgrade the constant speed aeration blower to deliver more air flow (CFM).

**Project Manager:** Dawn McDougle  
**Department:** Meadowlark Reclamation Facility

**Project:** 2015100018  
**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** Currently, the constant speed blower does not provide enough air flow to meet air demand during higher influent flow periods. Making modifications to the blower would allow the blower to produce more air flow during higher influent flow periods.

**Operations Impact:** More efficient operations of the aeration system when running constant speed blower; providing more redundancy and reliability.

### Project Spending Plan

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Capital Improvement Program
B.O. Gate Valve Upgrades

**Description:** Upgrade 20 existing 2” B.O. gate valves to 2” ball valves and drop in lids to 1243 cans.

**Project Manager:** Kerek Howe  
**Department:** Construction

**Project:** 2014100026  
**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** The ball valves are a newer style and do not break like the old 2” gate valves often do. The Blow offs will be upgraded in conjunction with the flushing program as needed.

**Operations Impact:** Routine Maintenance

### Project Spending Plan

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**FY 14/15 Budget Request - $0**

### Estimated Project Timeline

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Capital Improvement Program
Encina Wastewater Authority – Capital Projects Five Year Plan

Description: The District is a member agency of the Encina Wastewater Authority (EWA). The District shares in the cost of planned asset replacements and capital acquisitions.

Project Manager: Tom Scaglione

Department: General Manager
Project: 2016100001
Funding Source: 100% Fund 210 – Sewer Replacement

Comments: These miscellaneous capital projects are budgeted each year.

Operations Impact: No significant increase in costs or changes in efficiencies are anticipated from this project.

## Project Spending Plan

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FY 15/16 Budget Request - $15,729,000

## Estimated Project Timeline

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June-2020
## Capital Improvement Program

### Chlorine Contact Tank Expansion

**Description:** Expand the existing Chlorine Contact Tank (CCT) at the Meadowlark Reclamation Facility (MRF) from 5 million gallons a day (MGD) to 7 MGD. Evaluate updating CCT process to utilize Ultraviolet Sterilization.

**Project Manager:** James Gumpel  
**Department:** Engineering

**Project:** 2016100002  
**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** The existing CCT were part of the original expansion of MRF in the 80’s. During the latest expansion of MRF which started in 2005, the CCTs were rerated to handle the expanded flow but were not updated. Currently the CCTs remain one of the bottlenecks in the process at MRF.

CCTs at MRF can process up to 5 MGD of reclaimed water. Future reclamation demand as well as other water possible resource needs such as Indirect and Direct Potable Reuse (IPR, DRP) may present an opportunity for expansion. The recent draft Nutrient Removal Study show that MRF has the ability to expand up to 7 MGD without adding additional basins or filters.

**Operations Impact:** Normal maintenance.

### Estimated Project Timeline

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**FY 15/16 Budget Request - $1,950,000**

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Capital Improvement Program
Montiel Gravity Outfall

**Description:** Construct approximately 920 feet of new 12 inch gravity main underneath SR-78 to Mission Road to the City of Escondido’s sewer system.

**Project Manager:** Jason Hubbard  
**Department:** Engineering

**Project:** 2016100003  
**Funding Source:** 45% Fund 210 – Sewer Replacement  
55% Fund 220 – Sewer Capacity

**Comments:** To offset the Montiel Lift Station Replacement, the Montiel Lift Station Force Main Replacement, and the Nordahl Shopping Center Sewer Replacement projects as identified in the Master Plan and consistent with the District’s Strategic Plan – Strategic Focus Area 1.4, staff is investigating the possibility of constructing a gravity sewer outfall to the City of Escondido’s sewer system. Upon entering an agreement with the City of Escondido for a new gravity sewer connection, the Montiel Lift Station Replacement and the Montiel Lift Station Force Main Replacement will be eliminated and the Nordahl Shopping Center Sewer Replacement project may be eliminated.

**Operations Impact:** Annual and routine sewer pipeline maintenance.

### Project Spending Plan

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<th>FY 15/16</th>
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*FY 15/16 Budget Request - $1,750,000*

### Estimated Project Timeline

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</table>
Capital Improvement Program
District-wide Valve Replacement Program

Description: Replace broken or leaking valves throughout the District.

Project Manager: Kerek Howe
Department: Construction

Project: 2016100004
Funding Source: 100% Fund 110 – Water Replacement

Comments: The valve crew has discovered many broken valves requiring replacement. This project targets 20 valves per year over four years.

Operations Impact: Routine maintenance.

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<th>Project Spending Plan</th>
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<tbody>
<tr>
<td>Project Phase</td>
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FY 15/16 Budget Request - $700,000

Estimated Project Timeline

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<td>Begin</td>
<td>June-2019</td>
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</table>
Description: Expansion of the men’s locker room in Building B for Operations & Maintenance staff.

Project Manager: Ed Pedrazzi

Department: Operations & Maintenance

Project: 2016100005

Funding Source: 51% Water – 49% Sewer

Comments: The Operations & Maintenance (O&M) men’s locker room in Building B is no longer large enough to accommodate the number of employees utilizing it. The expansion will double the size of the locker room. The number of lockers, showers, sinks and urinals will also be doubled. This will provide adequate space for O&M staff to clean up and change uniforms.

Operations Impact: Routine maintenance.

Project Spending Plan

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<th>FY 16/17</th>
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FY 15/16 Budget Request - $465,000

Estimated Project Timeline

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<td>June-2016</td>
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Capital Improvement Program
Lift Station #1 - Waterman Valves Replacement

Description: The Waterman valves in front of Lift Station #1 are in need of replacement.

Project Manager: Braden McCrory
Department: Collections

Project: 2016100006
Funding Source: 100% Fund 210 - Sewer Replacement

Comments: Both the station and the bypass valves have exhausted their useful service life. The sluice gate, frame, and guides are in disrepair which hinders valve operation. Due to the harsh atmospheric conditions that the valves are in, deterioration is inevitable. When operated, the valves take significant time to seal allowing valuable flow to bypass the lift station.

Operations Impact: Installing new valve assemblies will help restore correct operation, eliminate the need for hammering to free or close the valves, and minimize Confined Space Entries needed to manually free the stuck valves.

Project Spending Plan

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FY 15/16 Budget Request - $265,000

Estimated Project Timeline

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Capital Improvement Program
Rock Springs Valve Replacement

Description: Replace the existing 12 inch and 14 inch valve cluster at Rock Springs Road and Bennet Avenue and associated piping. The valves are non-operational and the nearby pipeline has failed in recent years.

Project Manager: Jason Hubbard  
Department: Engineering

Project: 2016100007  
Funding Source: 100% Fund 110 – Water Replacement

Comments: This project will allow proper control of the water system and prevent further failures.

Operations Impact: The valves are non-operational. Operations and maintenance repair costs will be minimized at this location.

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FY 15/16 Budget Request - $210,000

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Capital Improvement Program
Palos Vista Pump Station - Motor Replacement

Description: Replace the motors on all four pumps at Palos Vista Pump Station.

Project Manager: Robert Salazar
Department: Mechanical/Electrical
Project: 2016100008
Funding Source: 100% Fund 110 – Water Replacement

Comments: The existing pump motors have been in service for over 20 years. They are no longer efficient and should be upgraded to the new premium efficiency motors. The new motors will operate more efficiently and save on energy costs.


Project Spending Plan

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FY 15/16 Budget Request - $118,000

Estimated Project Timeline

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<td>June-2019</td>
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-85-
Capital Improvement Program
Sewer Replacement and I&I Repairs

**Description:** During the course of the year, unexpected damage and emergency repairs are needed. This budget item sets aside money to perform necessary repairs.

**Project Manager:** Braden McCrory

**Department:** Collections

**Project:** 2016100009

**Funding Source:** 100% Fund 210 – Sewer Replacement

**Comments:** These funds will only be used after review and approval by the District Engineer and the Operations and Maintenance Manager.

**Operations Impact:** None.

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### Project Spending Plan

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**FY 15/16 Budget Request - $100,000**

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<td>June-2016</td>
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-86-
Capital Improvement Program
MRF - Chlorine Contact Tank Safety Railing Replacement

Description: Replacement of the safety railing around the chlorine contact tank, stairs and retaining walls at the Meadowlark Reclamation Facility (MRF).

Project Manager: Dawn McDougle
Department: Meadowlark Reclamation Facility
Project: 201610001
Funding Source: 100% Reclaim

Comments: The railing currently in place is failing due to age and environmental exposure. The railing does not meet the safety code with only two (2) horizontal rails. New safety regulations require three (3) horizontal rails. There are also some areas with only chain instead of railing. Some of the chain and railing currently in use will not provide the necessary fall protection required.


<table>
<thead>
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<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
<th>FY 17/18</th>
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FY 15/16 Budget Request - $95,000

Estimated Project Timeline

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Capital Improvement Program
Fulton Road and NCTD Sewer Line Rehabilitation

**Description:** Two sewer line sections need rehabilitation to lengthen the shelf life of the aging main line.

**Project Manager:** Jason Hubbard

**Department:** Engineering

**Project:** 2016100011

**Funding Source:** 100% Fund 210 - Sewer Replacement

**Comments:** Currently 2 sections, (1) a 600 foot section of 8 inch VCP located approximately 600 feet east on Fulton Road from the intersection with Richland Road, and (2) a 100 foot section of 8 inch DIP under North County Transit District’s railroad tracks located 550 feet east of the intersection of the tracks with Woodland Parkway are in need of rehabilitation to restore pipe integrity. Due to several factors, including environmental sensitivity and/or depth of their locations, a Cured in Place Pipe (CIPP) will be used. This will provide the necessary rehabilitation, restoring structural integrity and increasing the service life of the pipe. The pipe sections have become compromised either due to age, material type, or ground settlement requiring rehabilitation. Significant costs will be accrued upon line failure if the sections of pipe are not rehabilitated. There is sufficient pipe material remaining that will allow CIPP as an option in lieu of total replacement.

**Operations Impact:** Restored structural integrity and increased service life of sewer line sections.

### Project Spending Plan

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**FY 15/16 Budget Request - $90,000**

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Capital Improvement Program
Peroxide Station - Enclosure and Site Renovation

**Description:** Removal of the block enclosure and renovation of the Peroxide Station and the surrounding area.

**Project Manager:** Braden McCrory

**Department:** Collections

**Project:** 2016100012

**Funding Source:** 100% Fund 210 - Sewer Replacement

**Comments:** The existing block enclosure housing the peroxide injection tank is no longer used. The enclosure has become a canvas for graffiti and a potential liability. A new manhole needs to be installed at this facility to replace the existing in-line meter which has become obsolete. When the existing in-line meter fails, a new open-channel meter will be used in its place.

**Operations Impact:** The rehabilitated site will be easier to manage for daily operations, improve aesthetics for the neighborhood, remove a potential liability, and minimize down time while switching sewer flow meters.

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**FY 15/16 Budget Request - $85,000**

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Capital Improvement Program
MRF - Fall Protection Equipment

**Description:** Installation of fall protection equipment around various process tanks at the Meadowlark Reclamation Facility (MRF).

**Project Manager:** Dawn McDougle  
**Department:** Meadowlark Reclamation Facility  
**Project:** 2016100013  
**Funding Source:** 100% Sewer

**Comments:** When taking process tanks offline for maintenance and/or cleaning, Meadowlark staff has to remove covers to allow access. When the covers are removed it poses a serious fall hazard. Having fall protection equipment would allow District staff to work safely and meet all fall protection safety standards.

**Operations Impact:** Allows for safer work practices. Would increase preventative maintenance for annual certification of fall protection devices. This increased cost would be added in future budgets.

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*FY 15/16 Budget Request - $70,000*

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**Capital Improvement Program**  
Via Vera Cruz Tank Hill Stabilization

**Description:** A side slope adjacent to the Via Vera Cruz Tank requires slope stabilization treatment.

**Project Manager:** Jason Hubbard  
**Department:** Engineering

**Project:** 2016100014  
**Funding Source:** 100% Fund 110 – Water Replacement

**Comments:** A portion of the existing slope adjacent to the Visa Vera Cruz Tank on District property is failing due to steep terrain and material composition. The foundation of a property line fence is being eroded and exposed and material washes down to the tank elevation. Routine clean-up of the area is done and falling rocks threaten to damage the tank. This project will apply a shotcrete cover or tensioned slope stabilization system to approximately 500 SF of steep slope to prevent further failures. Repairs to the property line fence will also be performed and landscaping repairs may be necessary.

**Operations Impact:** Reduced risk of damage to the tank from falling rocks. Eliminate clean-up of the area from debris. Maintain security of property with intact fence. Annual and routine monitoring of the slope.

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*FY 15/16 Budget Request - $70,000*

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Capital Improvement Program
MRF - Headworks Building Skylight

Description: Installation of a skylight for removing the heavy equipment from the Headworks building for maintenance at the Meadowlark Reclamation Facility (MRF).

Project Manager: Dawn McDougle  Department: Meadowlark Reclamation Facility

Project: 2016100015  Funding Source: 100% Sewer

Comments: Currently there is an “A” frame hoist in the headworks building that is utilized for removing the heavy equipment. This system is temporary (to be taken down and set up as needed) and does not provide an efficient means of removing the equipment. Safety is a factor when the current system has to be taken down and set up as needed; not having the ability to determine if the system’s integrity is maintained. Having a skylight will allow District staff to safely access and remove equipment with a crane.

Operations Impact: Efficient maintenance operations and safe work environment. No additional testing or certification will be required.

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FY 15/16 Budget Request - $55,000

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Capital Improvement Program
Office for the Operations & Maintenance Assistant

Description: Construction of an office for the Operations & Maintenance Assistant.

**Project Manager:** Ed Pedrazzi  
**Department:** Operations & Maintenance

**Project:** 2016100016  
**Funding Source:** 51% Water – 49% Sewer

**Comments:** The Operations & Maintenance (O&M) Assistant works in an area that was originally designed as a reception area for O&M. The need for a receptionist in O&M was never realized and the position changed to a department assistant. The receptionist area is not enclosed like an office and the environment is very disruptive, with O&M staff accessing the area throughout the day. The receptionist area will be converted into an office, providing a productive work environment for the O&M Assistant.

**Operations Impact:** Routine maintenance.

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*FY 15/16 Budget Request - $35,000*

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Capital Improvement Program  
MRF - Potable Water Pump Station

**Description:** Upgrade the potable water pump station at the Meadowlark Reclamation Facility (MRF).

**Project Manager:** Robert Salazar  
**Department:** Mechanical/Electrical

**Project:** 2016100017  
**Funding Source:** 100% Fund 210 - Sewer Replacement

**Comments:** The potable water pump station provides all of the potable water for MRF’s offices and some of its process equipment. The existing equipment for the station has been in service for over 13 years and requires an upgrade of its major components. Along with the normal automatic operation of the pumps, a new control system will allow this station to be monitored on MRF’s SCADA computer network and after hours on their portable computer.

**Operations Impact:** Normal maintenance.

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Capital Improvement Program
Sewer Flow Meter Replacements

**Description:** The existing sewer flow meters used for trending and billing purposes have reached the end of their useful life and need to be replaced.

**Project Manager:** Braden McCrory  
**Department:** Collections

**Project:** 2016100018  
**Funding Source:** 100% Fund 210 - Sewer Replacement

**Comments:** Five sewer flow meters are past their useful life and cost more to maintain than purchasing new ones. Purchasing the new meters with a maintenance contact will eliminate wasted time and money trouble-shooting old meters. The new meters use cellular technology which will eliminate expensive installation costs previously required to install the old style meters. The purchase of five new meters will include an 18 month maintenance contract for data collection and meter service.

**Operations Impact:** Improved reliability and accuracy. Reduced staff time.

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*FY 15/16 Budget Request - $30,000*

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Capital Improvement Program
Odor Control - Carbon Structure Replacements

**Description:** Existing structures used for odor control need to be replaced due to daily exposure to sun and sewer atmospheric conditions.

**Project Manager:** Braden McCrory  
**Department:** Collections

**Project:** 2016100019  
**Funding Source:** 100% Fund 210 - Sewer Replacement

**Comments:** Four carbon structures need to be replaced due to exposure to sun and atmospheric conditions. Over time, the plastic material has become brittle and more susceptible to cracking or failure during monthly sampling activities.

**Operations Impact:** The new carbon structures will be moved below ground, which will protect the structures from sun exposure. This will also improve aesthetics while still maintaining functionality. The new structures hold more carbon while decreasing back pressure generated from currently used structures.

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**Total** $27,000

*FY 15/16 Budget Request - $27,000*

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<th>Construction</th>
<th>Completion</th>
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<tbody>
<tr>
<td>July-2015</td>
<td>Begin</td>
<td>Begin</td>
<td>Begin</td>
<td>June-2016</td>
</tr>
<tr>
<td></td>
<td>End</td>
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Capital Improvement Program
MRF – Refurbish Backwash Pumps and Motors

Description: Remove and refurbish backwash pumps and motors at the Meadowlark Reclamation Facility (MRF).

Project Manager: Robert Salazar
Department: Mechanical/Electrical
Project: 2016100020
Funding Source: 100% Fund 210 - Sewer Replacement

Comments: The manufacturer and industry standards recommend the refurbishing of these pumps and motors every 10 years. The pumps and motors at MRF operate in severe environmental conditions, which is another factor in this requirement.

Operations Impact: Routine maintenance.

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
<th>FY 17/18</th>
<th>FY 18/19</th>
<th>FY 19/20</th>
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FY 15/16 Budget Request - $26,000

Estimated Project Timeline

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<thead>
<tr>
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<th>Construction</th>
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<tr>
<td></td>
<td>Begin</td>
<td>Begin</td>
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<td>End</td>
</tr>
</tbody>
</table>
Capital Improvement Program
Palos Vista Pump Station - Flow Meter Replacement

Description: Flow meter replacement at the Palos Vista Pump Station.

Project Manager: Robert Salazar
Department: Mechanical/Electrical
Project: 2016100021
Funding Source: 100% Fund 110 – Water Replacement

Comments: The existing propeller flow meter at Palos Vista Pump Station is over twenty years old. The accuracy of propeller flow meters diminishes over time due to normal wear and tear. The replacement flow meter will be an electro-magnetic type flow meter which contains no moving components and can be calibrated in place. Propeller flow meters have to be removed and taken to a vendor’s site for calibration.

Operations Impact: Greater accuracy and easier maintenance.

Project Spending Plan

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
<th>FY 17/18</th>
<th>FY 18/19</th>
<th>FY 19/20</th>
<th>Total</th>
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FY 15/16 Budget Request - $25,000

Estimated Project Timeline

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<tbody>
<tr>
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</table>
Capital Improvement Program  
Coronado Hills Tank - Chlorine Injection System

**Description:** Installation of a calcium hypochlorite injection system at Coronado Hills Tank for residual maintenance and control of nitrification.

**Project Manager:** Shawn Askine  
**Department:** Water Operations  
**Project:** 2016100022  
**Funding Source:** 100% Water

**Comments:** Coronado Hills Tank is one of our reservoirs that consistently experiences problems with water quality due to its large size and low demand conditions. Water System Operators are required to add additional chlorine to this reservoir on a weekly basis for at least nine months of the year. This requires significant staff time and addition of chlorine in an inefficient process. The chlorine injection equipment will allow operators to load the equipment with chlorine tablets and then use the SCADA computer control systems to treat the reservoir during the pumping cycle. This will allow for an improved mixing of the chlorine in the reservoir and reduce staff time.

**Operations Impact:** Improved water quality within the reservoir and reduced staff time.

**Project Spending Plan**

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
<th>FY 17/18</th>
<th>FY 18/19</th>
<th>FY 19/20</th>
<th>Total</th>
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<tr>
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**FY 15/16 Budget Request - $20,000**

**Estimated Project Timeline**

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<td>End</td>
<td>June-2016</td>
<td>June-2016</td>
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Capital Improvement Program
Lake San Marcos Lift Station – Replacement of VFDs

Description: Replace the Variable Frequency Drives (VFDs) at Lake San Marcos Lift Station.

Project Manager: Robert Salazar
Department: Mechanical/Electrical
Project: 2016100023
Funding Source: 100% Reclaim

Comments: This station has three pumps controlled by VFDs which provide a steady flow of sewer to the Meadowlark Reclamation Facility and maintain the stations wet-well level. The existing VFDs have been in service since 2002 and have exceeded their service life. One VFD recently failed and has been replaced with a new unit. The two remaining VFDs are obsolete and repair parts are no longer available.


Project Spending Plan

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
<th>FY 17/18</th>
<th>FY 18/19</th>
<th>FY 19/20</th>
<th>Total</th>
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FY 15/16 Budget Request - $20,000

Estimated Project Timeline

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</tbody>
</table>
Capital Improvement Program
South Lake – Aeration System Expansion

Description: Expansion of the aeration system at South Lake.

Project Manager: Ed Pedrazzi

Department: Operations & Maintenance

Project: 2016100024

Funding Source: 100% Water

Comments: South Lake’s existing aeration system has improved the lake’s water quality, but more aeration is required in order to prevent the large growth of algae experienced in the hot summer months. The expansion project will double the size of the system and cover a larger area of the lake.


Project Spending Plan

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
<th>FY 17/18</th>
<th>FY 18/19</th>
<th>FY 19/20</th>
<th>Total</th>
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FY 15/16 Budget Request - $15,000

Estimated Project Timeline

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<tr>
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<td>June-2016</td>
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</table>
Vallecitos Water District

Capital Improvement Program
Future Projects

Description: This amount is set-aside to cover projects planned within the next five years with a start date later than the current fiscal year.

Project Manager: James Gumpel
Department: Engineering
Project: TBA

Funding Sources:

<table>
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<tr>
<th>Project</th>
<th>Amount</th>
<th>Source</th>
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<td>Unit C Waterline Relocation</td>
<td>5,940,000</td>
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<tr>
<td>Deer Springs Tank No. 2</td>
<td>520,000</td>
<td>Water</td>
<td>100%</td>
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<tr>
<td>Camino de Amigos Sewer</td>
<td>1,363,000</td>
<td>Sewer</td>
<td>100%</td>
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<tr>
<td>Deer Springs Pump Station Improvements</td>
<td>555,000</td>
<td>Water</td>
<td>100%</td>
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<tr>
<td>Sage Canyon Tank Refurbishment</td>
<td>425,000</td>
<td>Water</td>
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<tr>
<td>Schoolhouse Tank Refurbishment</td>
<td>375,000</td>
<td>Water</td>
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<tr>
<td>Total</td>
<td>$9,178,000</td>
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</table>

Comments: These projects are part of the District’s capital budget beginning after fiscal year 2015-16.

Operations Impact: Normal maintenance for infrastructure

Project Spending Plan

<table>
<thead>
<tr>
<th>Project Phase</th>
<th>Previous FY Expenses</th>
<th>FY 15/16</th>
<th>FY 16/17</th>
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FY 15/16 Budget Request - $22,053,000

Estimated Project Timeline

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<td>Begin</td>
<td>Begin</td>
<td>July-2016</td>
</tr>
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</table>
# 2015-16 Capital Budget - Easements, Vehicles & Equipment Schedule

## Easements

<table>
<thead>
<tr>
<th>Requesting Dept.</th>
<th>Description</th>
<th>Project #</th>
<th>Funding Source</th>
<th>Total Cost</th>
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</thead>
<tbody>
<tr>
<td>Development Services:</td>
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<td></td>
</tr>
<tr>
<td>La Moree/Coronado Hills Area</td>
<td></td>
<td>2016100025</td>
<td>Water: $36,000</td>
<td>Sewer: $36,000</td>
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<tr>
<td>South East Area</td>
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<td>2016100026</td>
<td>Water: 27,000</td>
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<td><strong>TOTAL EASEMENTS</strong></td>
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## Vehicles/Mobile Equipment

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<thead>
<tr>
<th>Vehicle #</th>
<th>Description</th>
<th>Project #</th>
<th>New or Replacement</th>
<th>Funding Source</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction:</td>
<td></td>
<td></td>
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<tr>
<td>188</td>
<td>International 7500 Dump Truck</td>
<td>2016100027</td>
<td>Replacement</td>
<td>Water: $69,000</td>
<td>Sewer: $66,000</td>
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<tr>
<td>223</td>
<td>McLaughlin Vac Excavator - Vac Tron</td>
<td>2016100028</td>
<td>Replacement</td>
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<td>Sewer: 39,000</td>
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<tr>
<td></td>
<td>F-250 4X4 Extra Cab</td>
<td>2016100029</td>
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<tr>
<td>152</td>
<td>2015 Ford F-250 XL Truck w/ utility body</td>
<td>2016100033</td>
<td>Replacement</td>
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<td>Meadowlark:</td>
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<tr>
<td>218</td>
<td>Ford Explorer - XLT - 2015</td>
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<td>Replacement</td>
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<td>148</td>
<td>Ford F-150 - Supercab - 4X2</td>
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<td>Replacement</td>
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## Facilities and Equipment

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<th>Description</th>
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<th>New or Replacement</th>
<th>Funding Source</th>
<th>Total Cost</th>
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<tbody>
<tr>
<td>Meadowlark Facility</td>
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<tr>
<td>HACH SC200 Controllers</td>
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<td>2016100036</td>
<td>Replacement</td>
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<td>Aeration Air Blow off Valve Actuator</td>
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<td>2016100037</td>
<td>Replacement</td>
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<tr>
<td>Signal Conditioning Units for Chlorine Chlorinators</td>
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<tr>
<td>Air Conditioning Unit for Switch Gear Building</td>
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<td>Replacement</td>
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<td>10,000</td>
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<tr>
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<td>Construction:</td>
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<tr>
<td>336D CCE Skid Steer</td>
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<td>New</td>
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<td>Highline Trailer with 3,500' of Hose</td>
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<td>2016100042</td>
<td>New</td>
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<td>30,000</td>
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<td>Wachs Valve Operator - HC 100 Controller</td>
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<tr>
<td>40' Landscape Container</td>
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<td>Broyhill Stadium 80 Sprayer</td>
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<td><strong>TOTAL FACILITIES AND EQUIPMENT</strong></td>
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## Vehicles & Equipment Total

$1,305,000
### Debt Service Budget for the Year Ending June 30, 2016

<table>
<thead>
<tr>
<th></th>
<th>Water</th>
<th>Wastewater</th>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td><strong>2015 Refunding</strong></td>
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<td>Outstanding principal as of July 1, 2015</td>
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<td>$ 27,398,400</td>
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<td>June 23, 2015 Principal Transfer to Trustee</td>
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<td><strong>2008 Private Placement</strong> (2)</td>
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<td>$ -</td>
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<td>2015/16 Principal Payments</td>
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<tr>
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<td>$ -</td>
<td>$ -</td>
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<td><strong>2012 Debt</strong> (3)</td>
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<tr>
<td>Outstanding principal as of July 1, 2015</td>
<td>$ -</td>
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<tr>
<td>2015/16 Principal Payments</td>
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<td>2015 Revenue Refunding principal</td>
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<td>2012 Debt - principal</td>
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<tr>
<td>2012 Debt - interest</td>
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<tr>
<td>Total 2014/15 Debt Service Budget</td>
<td>$ -</td>
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</table>

### Projected Debt Service Coverage Ratio (4)

- Excluding Capital Facility Fees: 218%
- Excluding Capital Facility Fees and Property Tax: 185%
- Days of Operating Expenses in Unrestricted Cash and Investments: 362

---

(1) The 14/15 principal payment on the refunding bonds is due to bondholders on July 1, 2015. The District is obligated to transfer the payment before June 30, 2015, to a restricted account maintained by the Trustee, and, therefore, was deducted from the projected July 1, 2015 balance presented in the Reserve Budget.

(2) The District and Union Bank of California executed an $8 million tax-exempt private placement with variable rate interest tied to the LIBOR. The District has the option of changing the LIBOR term. The current term is six months. The current rate is 1.05%. The proceeds partially restored a deficit balance in the restricted wastewater capacity fund from cash funding construction of the Encina Wastewater Authority Phase V expansion.

(3) The District issued bonds on December 21, 2012, to fund the increased capacity portions of San Marcos Interceptor and Linda Vista Sewer projects. The bonds have a 1.98% interest rate over the 10-year term.

(4) Per the 2005 Certificate of Participation official statement, the District is required to maintain a debt service coverage ratio of 1.15. Debt service coverage ratios are presented above inclusive and exclusive of capital facilities fees to demonstrate the District's ability to cover debt service above the required minimum. Capital facility fees are included in the official statement's definition of “Net Revenues”.

---

-104-
2015-2016 LONG-RANGE PLANNING
## Reserve Budget for the Year Ending June 30, 2016

### Water and Wastewater Analysis

<table>
<thead>
<tr>
<th></th>
<th>Replacement</th>
<th>Capacity</th>
<th>Replacement</th>
<th>Capacity</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td>Water</td>
<td>110</td>
<td>120</td>
<td>Wastewater</td>
<td>210</td>
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<td></td>
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<td>Projected July 1, 2015 Balance</td>
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<td>Less 15/16 Appropriations and Transfers Out</td>
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<td>Encina Wastewater Auth 5 Year Cap Plan</td>
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<td>Less Total Appropriations/Transfers</td>
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<tr>
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<td>145,520</td>
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<td>(10,298,220)</td>
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<td>$36,224,300</td>
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<td>$62,834,300</td>
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*See significant assumptions on page 111*
## Reserve Projection for the Year Ending June 30, 2017

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<th>Projected July 1, 2016 Balance</th>
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<tbody>
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<td>Revenues and Transfers In</td>
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<tr>
<td>Operating Transfers</td>
</tr>
<tr>
<td>Capital Facility Fees</td>
</tr>
<tr>
<td>Property Tax</td>
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<tr>
<td>Grant Proceeds</td>
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<tr>
<td>RDA pass-through</td>
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<tr>
<td>Investment Earnings</td>
</tr>
<tr>
<td>Payment on Land Sale to City</td>
</tr>
<tr>
<td>Available Balance</td>
</tr>
<tr>
<td>Less 16/17 Appropriations and Transfers Out</td>
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<td>San Marcos interceptor sewer</td>
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<tr>
<td>Encina Wastewater Auth 5 Year Cap Plan</td>
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<tr>
<td>Richland Invert Replacement</td>
</tr>
<tr>
<td>Rock Springs Sewer Replacement</td>
</tr>
<tr>
<td>High Point Pipeline</td>
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<tr>
<td>City of San Marcos Joint Projects</td>
</tr>
<tr>
<td>Future Projects</td>
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<tr>
<td>Encina Land Parallel Outfall</td>
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<tr>
<td>Wulff Pressure Reducing Station</td>
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<tr>
<td>Northwest Lake San Marcos Sewer Replacement</td>
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<td>Montiel Gravity Outfall</td>
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<td>Audiovisual Upgrade</td>
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<tr>
<td>District-wide Valve Replacement Program</td>
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<td>Rock Springs Valve Replacement</td>
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<tr>
<td>Asset Management Replacement Schedule</td>
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<td>Environmental Mitigation Property</td>
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<td>Chlorine Contact Tank Expansion</td>
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<td>Miscellaneous Projects</td>
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<tr>
<td>Debt Service - 2012 Debt</td>
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<td>Debt Service - 2008 Loan</td>
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<td>Debt Service - 2015 Refunding</td>
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<tr>
<td>Less Total Appropriations/Transfers Out</td>
</tr>
<tr>
<td>Projected June 30, 2017 Balance</td>
</tr>
<tr>
<td>Less Operating Reserves</td>
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<tr>
<td>Less Rate Stabilization</td>
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<tr>
<td>Projected replacement reserve/restricted funds</td>
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<tr>
<td>Adopted replacement reserve floor</td>
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<tr>
<td>Adopted replacement reserve ceiling</td>
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### Debt Service Coverage
- **Debt service coverage**: 272%
- **Debt service coverage without cap fees**: 187%
- **Debt service coverage without cap fees or property tax**: 154%
- **Days of Operating Expenses in Unrestricted Cash and Investments**: 308

*See significant assumptions on page 111*
## Reserve Projection for the Year Ending June 30, 2018

<table>
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<th>110 Water Replacement</th>
<th>110 Water Capacity</th>
<th>210 Wastewater Replacement</th>
<th>210 Wastewater Capacity</th>
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<tr>
<td>Projected July 1, 2017 Balance</td>
<td>$31,277,970</td>
<td>$(11,713,220)</td>
<td>$31,743,260</td>
<td>$(10,479,510)</td>
<td>$40,828,500</td>
</tr>
<tr>
<td>Revenues and Transfers In</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Transfers</td>
<td>1,451,000</td>
<td>-</td>
<td>7,173,000</td>
<td>-</td>
<td>8,624,000</td>
</tr>
<tr>
<td>Capital Facility Fees</td>
<td>-</td>
<td>1,497,000</td>
<td>-</td>
<td>3,176,000</td>
<td>4,673,000</td>
</tr>
<tr>
<td>Sale of Land</td>
<td>150,000</td>
<td></td>
<td>150,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property Tax</td>
<td>978,000</td>
<td>-</td>
<td>834,000</td>
<td>-</td>
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</tr>
<tr>
<td>RDA pass-through</td>
<td>600,000</td>
<td></td>
<td>600,000</td>
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<td>1,200,000</td>
</tr>
<tr>
<td>Investment Earnings</td>
<td>206,000</td>
<td>(86,000)</td>
<td>216,000</td>
<td>(77,000)</td>
<td>259,000</td>
</tr>
<tr>
<td>Payment on Land Sale to City</td>
<td>74,000</td>
<td>-</td>
<td>74,000</td>
<td>-</td>
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<tr>
<td>Available Balance</td>
<td>34,736,970</td>
<td>(10,302,220)</td>
<td>40,640,260</td>
<td>(7,380,510)</td>
<td>57,694,500</td>
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<tr>
<td>Less 17/18 Appropriations and Transfers Out</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Meadowlark Tank #3</td>
<td>1,376,900</td>
<td>2,557,100</td>
<td>-</td>
<td>-</td>
<td>3,934,000</td>
</tr>
<tr>
<td>Encina Wastewater Auth 5 Year Cap Plan</td>
<td>-</td>
<td>-</td>
<td>3,275,000</td>
<td>-</td>
<td>3,275,000</td>
</tr>
<tr>
<td>San Marcos interceptor sewer</td>
<td>-</td>
<td>-</td>
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<td>2,125,000</td>
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<tr>
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<td>-</td>
<td>-</td>
<td>517,500</td>
<td>632,500</td>
<td>1,150,000</td>
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<tr>
<td>Future Projects</td>
<td>825,000</td>
<td>-</td>
<td>71,000</td>
<td>87,000</td>
<td>983,000</td>
</tr>
<tr>
<td>Chlorine Contact Tank Expansion</td>
<td>-</td>
<td>-</td>
<td>700,000</td>
<td>-</td>
<td>700,000</td>
</tr>
<tr>
<td>Encina Land Parallel Outfall</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>300,000</td>
<td>300,000</td>
</tr>
<tr>
<td>Northwest Lake San Marcos Sewer Replacement</td>
<td>-</td>
<td>-</td>
<td>295,000</td>
<td>-</td>
<td>295,000</td>
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<tr>
<td>District-wide Valve Replacement Program</td>
<td>175,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>175,000</td>
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<tr>
<td>Trioxyn Injection Station</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>143,000</td>
<td>143,000</td>
</tr>
<tr>
<td>Asset Management Replacement Schedule</td>
<td>50,000</td>
<td>-</td>
<td>50,000</td>
<td>-</td>
<td>100,000</td>
</tr>
<tr>
<td>Environmental Mitigation Property</td>
<td>-</td>
<td>10,000</td>
<td>-</td>
<td>90,000</td>
<td>100,000</td>
</tr>
<tr>
<td>Coronado Hills Tank #2</td>
<td>-</td>
<td>50,000</td>
<td>-</td>
<td>-</td>
<td>50,000</td>
</tr>
<tr>
<td>Palos Vista Pump Station - Motor Replacement</td>
<td>30,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>30,000</td>
</tr>
<tr>
<td>Nitrate Monitoring Meters</td>
<td>-</td>
<td>-</td>
<td>25,000</td>
<td>-</td>
<td>25,000</td>
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<tr>
<td>Valve Cans and Lids Upgrade</td>
<td>5,500</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5,500</td>
</tr>
<tr>
<td>Debt Service - 2012 debt</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>782,800</td>
<td>782,800</td>
</tr>
<tr>
<td>Debt Service - 2008 Loan</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>454,000</td>
<td>454,000</td>
</tr>
<tr>
<td>Debt Service - 2015 Refunding</td>
<td>-</td>
<td>2,060,900</td>
<td>-</td>
<td>1,984,100</td>
<td>4,045,000</td>
</tr>
<tr>
<td>Less Total Appropriations/Transfers</td>
<td>2,462,400</td>
<td>4,678,000</td>
<td>5,592,250</td>
<td>5,939,650</td>
<td>18,672,300</td>
</tr>
<tr>
<td>Projected June 30, 2018 Balance</td>
<td>32,274,570</td>
<td>(14,980,220)</td>
<td>35,048,010</td>
<td>(13,320,160)</td>
<td>$39,022,200</td>
</tr>
<tr>
<td>Less Operating Reserves</td>
<td>5,859,100</td>
<td>-</td>
<td>6,458,300</td>
<td>-</td>
<td>12,317,400</td>
</tr>
<tr>
<td>Less Rate Stabilization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Projected replacement reserve/restricted funds</td>
<td>$26,415,470</td>
<td>$(14,980,220)</td>
<td>$28,589,710</td>
<td>$(13,320,160)</td>
<td>$26,704,800</td>
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<tr>
<td>Adopted replacement reserve floor</td>
<td>$6,534,600</td>
<td>$15,042,400</td>
<td>$27,984,100</td>
<td>$44,876,600</td>
<td></td>
</tr>
</tbody>
</table>

- Debt service coverage 294%
- Debt service coverage without cap fees 202%
- Debt service coverage without cap fees or property tax 168%
- Days of Operating Expenses in Unrestricted Cash and Investments 272

See significant assumptions on page 111
## RESERVE PROJECTION FOR THE YEARS ENDING JUNE 30, 2019

### Projected July 1, 2018 Balance

<table>
<thead>
<tr>
<th>110 Replacement</th>
<th>120 Capacity</th>
<th>210 Replacement</th>
<th>220 Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$32,274,570</td>
<td>$(14,980,220)</td>
<td>$35,048,010</td>
<td>$(13,320,160)</td>
<td>$39,022,200</td>
</tr>
</tbody>
</table>

### Revenues and Transfers In

<table>
<thead>
<tr>
<th>Description</th>
<th>110 Replacement</th>
<th>120 Capacity</th>
<th>210 Replacement</th>
<th>220 Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Transfers</td>
<td>-</td>
<td>2,748,000</td>
<td>-</td>
<td>2,748,000</td>
<td>9,899,000</td>
</tr>
<tr>
<td>Capital Facility Fees</td>
<td>-</td>
<td>-</td>
<td>1,343,000</td>
<td>-</td>
<td>3,909,000</td>
</tr>
<tr>
<td>Property Tax</td>
<td>993,000</td>
<td>-</td>
<td>847,000</td>
<td>-</td>
<td>1,840,000</td>
</tr>
<tr>
<td>RDA pass-through</td>
<td>600,000</td>
<td>-</td>
<td>600,000</td>
<td>-</td>
<td>1,200,000</td>
</tr>
<tr>
<td>Investment Earnings</td>
<td>220,000</td>
<td>(102,000)</td>
<td>240,000</td>
<td>(93,000)</td>
<td>265,000</td>
</tr>
</tbody>
</table>

### Available Balance

<table>
<thead>
<tr>
<th>110 Replacement</th>
<th>120 Capacity</th>
<th>210 Replacement</th>
<th>220 Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$36,835,570</td>
<td>(13,739,220)</td>
<td>$43,886,010</td>
<td>(10,847,160)</td>
<td>56,135,200</td>
</tr>
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</table>

### Less 18/19 Appropriations and Transfers Out

<table>
<thead>
<tr>
<th>Description</th>
<th>110 Replacement</th>
<th>120 Capacity</th>
<th>210 Replacement</th>
<th>220 Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encina Wastewater Auth 5 Year Cap Plan</td>
<td>-</td>
<td>-</td>
<td>2,965,000</td>
<td>-</td>
<td>2,965,000</td>
</tr>
<tr>
<td>Future Projects</td>
<td>715,000</td>
<td>105,000</td>
<td>414,000</td>
<td>506,000</td>
<td>1,740,000</td>
</tr>
<tr>
<td>Chlorine Contact Tank Expansion</td>
<td>-</td>
<td>-</td>
<td>1,000,000</td>
<td>-</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Coronado Hills Tank #2</td>
<td>-</td>
<td>690,000</td>
<td>-</td>
<td>-</td>
<td>690,000</td>
</tr>
<tr>
<td>Asset Management Replacement Schedule</td>
<td>200,000</td>
<td>-</td>
<td>200,000</td>
<td>-</td>
<td>400,000</td>
</tr>
<tr>
<td>Montiel Gravity Outfall</td>
<td>-</td>
<td>-</td>
<td>157,500</td>
<td>192,500</td>
<td>350,000</td>
</tr>
<tr>
<td>Encina Land Parallel Outfall</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>300,000</td>
<td>300,000</td>
</tr>
<tr>
<td>Tioxyn Injection Station</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>258,000</td>
<td>258,000</td>
</tr>
<tr>
<td>District-wide Valve Replacement Program</td>
<td>175,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>175,000</td>
</tr>
<tr>
<td>Environmental Mitigation Property</td>
<td>-</td>
<td>10,000</td>
<td>-</td>
<td>90,000</td>
<td>100,000</td>
</tr>
<tr>
<td>Palos Vista Pump Station - Motor Replacement</td>
<td>31,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>31,000</td>
</tr>
<tr>
<td>Debt Service - 2012 Debt</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>807,600</td>
<td>807,600</td>
</tr>
<tr>
<td>Debt Service - 2008 Loan</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>452,200</td>
<td>452,200</td>
</tr>
<tr>
<td>Debt Service - 2015 Refunding</td>
<td>-</td>
<td>2,077,700</td>
<td>-</td>
<td>2,000,300</td>
<td>4,078,000</td>
</tr>
<tr>
<td>Less Total Appropriations/Transfers</td>
<td>1,121,000</td>
<td>2,882,700</td>
<td>4,736,500</td>
<td>4,606,600</td>
<td>13,346,800</td>
</tr>
</tbody>
</table>

### Projected June 30, 2019 Balance

<table>
<thead>
<tr>
<th>110 Replacement</th>
<th>120 Capacity</th>
<th>210 Replacement</th>
<th>220 Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>35,714,570</td>
<td>(16,621,920)</td>
<td>39,149,510</td>
<td>(15,453,760)</td>
<td>$42,788,400</td>
</tr>
</tbody>
</table>

### Projected replacement reserve/restricted funds

<table>
<thead>
<tr>
<th>110 Replacement</th>
<th>120 Capacity</th>
<th>210 Replacement</th>
<th>220 Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$29,381,300</td>
<td>(16,621,920)</td>
<td>$32,379,010</td>
<td>(15,453,760)</td>
<td>$29,684,630</td>
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</tbody>
</table>

### Adopted replacement reserve floor

<table>
<thead>
<tr>
<th>110 Replacement</th>
<th>120 Capacity</th>
<th>210 Replacement</th>
<th>220 Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6,772,800</td>
<td>$17,322,300</td>
<td>$12,858,900</td>
<td>$49,797,700</td>
<td></td>
</tr>
</tbody>
</table>

### Debt service coverage

- Total: 321%
- Without cap fees: 225%
- Without cap fees or property tax: 190%

### Days of Operating Expenses in Unrestricted Cash and Investments

- Total: 279

See significant assumptions on page 111
### RESERVE PROJECTION FOR THE YEAR ENDING JUNE 30, 2020

<table>
<thead>
<tr>
<th>Replacement</th>
<th>Capacity</th>
<th>Replacement</th>
<th>Capacity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>120</td>
<td>210</td>
<td>220</td>
<td></td>
</tr>
<tr>
<td>Projected July 1, 2019 Balance</td>
<td>$35,714,570</td>
<td>($16,621,920)</td>
<td>$39,149,510</td>
<td>($15,453,760)</td>
</tr>
<tr>
<td>Revenues and Transfers In</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Transfers</td>
<td>4,021,000</td>
<td>-</td>
<td>7,367,000</td>
<td>-</td>
</tr>
<tr>
<td>Capital Facility Fees</td>
<td>-</td>
<td>1,376,000</td>
<td>-</td>
<td>2,630,000</td>
</tr>
<tr>
<td>Property Tax</td>
<td>1,008,000</td>
<td>-</td>
<td>860,000</td>
<td>-</td>
</tr>
<tr>
<td>RDA pass-through</td>
<td>600,000</td>
<td>600,000</td>
<td>1,200,000</td>
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</tr>
<tr>
<td>Investment Earnings</td>
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<td>273,000</td>
<td>($104,000)</td>
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<tr>
<td>Available Balance</td>
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<td>48,249,510</td>
<td>(12,927,760)</td>
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<tr>
<td>Less 19/20 Appropriations and Transfers Out</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Future Projects</td>
<td>700,000</td>
<td>970,000</td>
<td>128,000</td>
<td>157,000</td>
</tr>
<tr>
<td>Encina Wastewater Auth 5 Year Cap Plan</td>
<td>-</td>
<td>-</td>
<td>3,019,000</td>
<td>-</td>
</tr>
<tr>
<td>Coronado Hills Tank #2</td>
<td>-</td>
<td>690,000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Encina Land Parallel Outfall</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>300,000</td>
</tr>
<tr>
<td>Environmental Mitigation Property</td>
<td>-</td>
<td>10,000</td>
<td>-</td>
<td>90,000</td>
</tr>
<tr>
<td>Debt Service - 2012 Debt</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>777,000</td>
</tr>
<tr>
<td>Debt Service - 2008 Loan</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>449,900</td>
</tr>
<tr>
<td>Debt Service - 2015 Refunding</td>
<td>-</td>
<td>2,081,300</td>
<td>-</td>
<td>2,003,700</td>
</tr>
<tr>
<td>Less Total Appropriations/Transfers</td>
<td>700,000</td>
<td>3,751,300</td>
<td>3,147,000</td>
<td>3,777,600</td>
</tr>
<tr>
<td>Projected June 30, 2020 Balance</td>
<td>40,891,570</td>
<td>(19,113,220)</td>
<td>45,102,510</td>
<td>(16,705,360)</td>
</tr>
<tr>
<td>Less Operating Reserves</td>
<td>6,460,300</td>
<td>-</td>
<td>6,989,400</td>
<td>-</td>
</tr>
<tr>
<td>Less Rate Stabilization</td>
<td>3,604,070</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Projected replacement reserve/restricted funds</td>
<td>$30,827,200</td>
<td>($19,113,220)</td>
<td>$38,113,110</td>
<td>($16,705,360)</td>
</tr>
<tr>
<td>Adopted replacement reserve floor</td>
<td>$7,241,000</td>
<td>$17,050,800</td>
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<td></td>
</tr>
<tr>
<td>Adopted replacement reserve ceiling</td>
<td>$30,827,200</td>
<td>$52,122,300</td>
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<td></td>
</tr>
</tbody>
</table>

*Debt service coverage* 331%
*Debt service coverage without cap fees* 235%
*Debt service coverage without cap fees or property tax* 220%
*Days of Operating Expenses in Unrestricted Cash and Investments* 305

See significant assumptions on page 111
### Long Range Reserve Projection

<table>
<thead>
<tr>
<th></th>
<th>2020/21</th>
<th>2021/22</th>
<th>2022/23</th>
<th>2023/24</th>
<th>2024/25</th>
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</thead>
<tbody>
<tr>
<td><strong>Projected Beginning Balance</strong></td>
<td>$50,176,000</td>
<td>$54,932,000</td>
<td>$60,144,000</td>
<td>$65,826,000</td>
<td>$72,772,000</td>
</tr>
<tr>
<td><strong>Operating transfers</strong></td>
<td>11,673,000</td>
<td>11,965,000</td>
<td>12,264,000</td>
<td>12,571,000</td>
<td>12,885,000</td>
</tr>
<tr>
<td><strong>Capital facility fees</strong></td>
<td>4,106,000</td>
<td>4,209,000</td>
<td>4,314,000</td>
<td>4,422,000</td>
<td>4,533,000</td>
</tr>
<tr>
<td><strong>Property tax</strong></td>
<td>1,896,000</td>
<td>1,924,000</td>
<td>1,953,000</td>
<td>1,982,000</td>
<td>2,012,000</td>
</tr>
<tr>
<td><strong>Investment earnings</strong></td>
<td>341,000</td>
<td>373,000</td>
<td>408,000</td>
<td>449,000</td>
<td>499,000</td>
</tr>
<tr>
<td><strong>Capital outlay</strong></td>
<td>(7,950,000)</td>
<td>(7,950,000)</td>
<td>(7,950,000)</td>
<td>(7,950,000)</td>
<td>(7,950,000)</td>
</tr>
<tr>
<td><strong>Debt service</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Projected Ending Balance</strong></td>
<td>$54,932,000</td>
<td>$60,144,000</td>
<td>$65,826,000</td>
<td>$72,772,000</td>
<td>$80,230,000</td>
</tr>
<tr>
<td><strong>Operating reserves</strong></td>
<td>13,786,000</td>
<td>14,131,000</td>
<td>14,484,000</td>
<td>14,846,000</td>
<td>15,217,000</td>
</tr>
<tr>
<td><strong>Pension reserves</strong></td>
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<td>2,280,000</td>
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<tr>
<td><strong>Projected replacement reserve/restricted funds</strong></td>
<td>$38,866,000</td>
<td>$43,733,000</td>
<td>$49,062,000</td>
<td>$55,646,000</td>
<td>$62,733,000</td>
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<td><strong>Adopted replacement reserve floor</strong></td>
<td>$25,207,000</td>
<td>$26,764,000</td>
<td>$28,117,000</td>
<td>$30,293,000</td>
<td>$33,042,000</td>
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<td><strong>Adopted replacement reserve ceiling</strong></td>
<td>$87,041,000</td>
<td>$91,988,000</td>
<td>$96,609,000</td>
<td>$101,032,000</td>
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### Significant Assumptions

**Operating Transfers** - the result of operating activity transferred from the disbursements fund during the year.

**Tiers & Rates:**

- **Water:** Fiscal Year (FY) 15/16 includes rate increases adopted in October of 2013 of 4¢ (1%) to water commodity Tier 2 rate per unit (748 gallons) effective January 1, 2015, and monthly ready-to-serve (RTS) 5/8” meter of $2.13 (7.2%) effective July 1, 2015. Assumed rate increases for FY 16/17, FY 17/18 FY 18/19 and FY 19/20 are listed below

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<tr>
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<td>Water</td>
<td>76¢</td>
<td>27¢</td>
<td>11¢</td>
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<tr>
<td>Tier 2</td>
<td>(76¢)</td>
<td>(.08¢)</td>
<td>17¢</td>
<td>19¢</td>
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<tr>
<td>Retail</td>
<td>0¢ (0%)</td>
<td>19¢ (+5.2%)</td>
<td>28¢ (+7.3%)</td>
<td>30¢ (+7.3%)</td>
</tr>
<tr>
<td>Net</td>
<td>$1.15 (+3.7%)</td>
<td>$1.16 (+3.6%)</td>
<td>$1.46 (+4.8%)</td>
<td>$1.78 (+5%)</td>
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</table>

**Sewer:** Monthly sewer for a single family resident will increase $1.54 (4.1%) in fiscal year 2015/16, and 3% for all subsequent years.

**Operating Expense Assumptions** - Over the next five years, cost of wholesale water commodity will increase by 53% and wholesale fixed charges will increase 38%. Power, fuel, and chemical costs will increase by 3% while most other operating costs will increase by 2.5% from year-to-year. The District will add 200 water accounts in 2015/16, 180 in 2016/17, and 170 in 2017/18 and every year thereafter. The District will add 218 sewer accounts in 2015/16, 170 in 2016/17 and each year thereafter.

**Capital Facility Fees** – The District will collect capacity charges for 200 water EDUs in 2015/16 and 180 in 2016/17 and 170 EDUs in each fiscal year 2017/18, 2018/19 and 2019/20. The District will collect capacity charges for 180 sewer EDUs in 2015/16 and 170 through 2019/20. The rate per EDU will increase by 3.0% each year.

**Property Tax** - revenue from the 1% allocation will increase by 1.25% each year.

**Investment Earnings** - assumed at 0.648%.
<table>
<thead>
<tr>
<th>Year</th>
<th>Original ENR</th>
<th>Added</th>
<th>Costs</th>
<th>Year of Replacement</th>
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Three-Year Minimum Reserve Balance: $5,830,616
Ten-Year Maximum Reserve Balance: $24,609,959

Vallecitos Water District
Replacement Reserve Limits - Water System
For the 2015/16 Budget year
### Year of Replacement

<table>
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<th>Added</th>
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<th>Costs</th>
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</table>

**ENR Index (as of April 2015)**: 9992

### Replacement Reserve Limits - Wastewater System

- **Vallecitos Water District**
- **Year of Replacement**

**Eight-Year Maximum Reserve Balance**: $7,203,990

**Three-Year Minimum Reserve Balance**: $36,224,314