Consolidated Annual Report

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<th>Address</th>
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<td>7601 Highway 301 North, Tampa, Florida 33637-6759</td>
<td>(813) 985-7481 or 1-800-836-0797</td>
</tr>
</tbody>
</table>

For further information regarding this report, contact the External Affairs Section at (352) 796-7211, or planning@swfwmd.state.fl.us. This report is also available on the District’s web site at: www.WaterMatters.org

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Executive Summary

Section 373.036, Florida Statutes, requires the water management districts to prepare a "Consolidated Water Management District Annual Report" consisting of several reporting documents that had historically been submitted separately. The legislation requires the consolidated report to be submitted by March 1st of each year to the Governor, Department of Environmental Protection, the President of the Senate and the Speaker of the House of Representatives. In addition, copies must be provided, "... to the chairs of all legislative committees having substantive or fiscal jurisdiction over the districts and the governing body of each county in the district having jurisdiction or deriving any funds for operations of the district. Copies of the consolidated annual report must be made available to the public, either in printed or electronic format."

This consolidated report is a significant communication tool for the District and allows greater efficiency in comparing differing reporting mechanisms. The agency formerly produced these components individually and distributed them at various times of the year. Their consolidation results in streamlining these required reporting documents so that they now come forward in one package. Descriptions and highlights from the chapters that make up the 2015 Consolidated Annual Report follow.

The Water Management District Performance Measures Annual Report consists of 14 performance measures that measure the District’s progress in implementing activities related to its core areas of responsibility: Water Supply, Flood Protection, Water Quality and Natural Systems. Noteworthy highlights in this report include a 13 gallon per day decline in the uniform gross per capita water use since 2008, year when established. The estimated additional quantities of water supply made available through District water supply development assistance continues to show a steady upward trend, increasing from 215 million gallons per day (mgd) in 2002 to 425 mgd in 2014. To address the increasing levels of nitrate contamination in many springs, the District added three first magnitude springs to its SWIM priority list and is developing new management plans for all five of its first magnitude spring systems. This effort is being conducted in collaboration with the newly formed Springs Coast committees. The District also continues to support funding partnerships for springs restoration projects. In FY2014, Minimum Flows and Levels were adopted for 3 lakes. The acreage of non-native aquatic plant species remains at historically low levels, with less than a 3% coverage in 2013. Finally, the District continues to automate its structures – 41 of the District’s 81 structures will have remote operational capability by the end of 2015.

The Minimum Flows and Levels Annual Priority List and Schedule (DEP approval pending) The District's expenditures for MFL adoption have changed from approximately $1 million in 1998 to $1.7 million in FY2014. As of the end of FY2014, 203 MFLs and a single water reservation have been adopted by the District. By the end of 2024, 47 new MFLs and 1 new reservation are scheduled for adoption and 35 existing MFLs are scheduled for reevaluation. MFLs for all publicly-owned first and second magnitude springs are proposed for adoption by the end of 2017.

The Annual Five-Year Capital Improvements Plan includes projected revenues and expenditures for planned improvements for FY2014-15 through FY2018-19. For FY2014-15, $2,864,000 is budgeted for the continuation of the Florida Forever Program land acquisition. These funds represent prior year funds available for land acquisition through the Florida Forever Program. Some of the Facilities Construction and Major Renovation highlights for FY2014-15 include: (1) $100,000 budgeted for District Site Survey for the Tampa Service Office. The Tampa Service Office, centrally located within the District, consists of approximately 21 acres and has 70,4 thousand square feet of buildings under roof, including 46 thousand square feet of office and meeting space. As a result of District staff being relocated to the Tampa Service Office, there is limited office and public meeting space and insufficient parking areas. (2) $300,000 budgeted for the annual Districtwide roof, heating, ventilation and air conditioning repair and remodeling projects. (3) $116,000 budgeted for the Districtwide Carpet Replacement for the Tampa Service Office, Building #1, 2,625 square yards.
The Alternative Water Supplies Annual Report describes alternative water supply projects funded, as well as the quantity of new water to be created as a result of these projects. The report also separately accounts for other funding sources, such as grants or the use of District lands or facilities to implement regional water supply plans. FY2015 marks the 29th year of District alternative water supply funding, which to date has resulted in the funding of 357 reclaimed water projects that are anticipated to make available more than 244 mgd. In FY2015 alone, the District has budgeted more than $41 million in alternative water supply funding for projects that, upon completion, are projected to provide more than 58 mgd of water supply. In addition to funding alternative source infrastructure, the District continues to participate in studies and research with utilities and entities such as the WateReuse Research Foundation. The scientific substantiation of alternative water sources increases the District’s confidence in meeting its mission to find and maintain adequate and ecologically sustainable resources.

The Five-Year Water Resource Development Work Program describes the District’s implementation strategy for the Water Resource Development (WRD) component of the 2010 Regional Water Supply Plan. This 14th annual edition of the Work Program covers the period from FY2015 through FY2019. The Work Program is a comprehensive discussion of WRD “Data Collection and Analyses” activities and more narrowly defined “projects” that the District is financially and technically undertaking to enhance the amount of water available to meet projected demands. The Work Program also includes a list of Water Supply Development (WSD) projects funded in the FY2015 budget to demonstrate the magnitude of funding provided for these efforts. The WSD projects are developed primarily by water providers, but qualify for District financial assistance under the District’s policies and Section 373.705, F.S. At the request of the FDEP, the categorization and format of tables in the Work Program have been slightly modified from prior year programs to more clearly cross reference items to the District’s FY2015 tentative budget submission. The FY2015 allocations are approximately $32 million for WRD activities and projects and $43 million for WSD projects. The District has also budgeted approximately $1 million for water supply planning activities including the Central Florida Watershed Initiative. The District anticipates that future funding levels will be maintained with a strong emphasis on agricultural irrigation efficiency projects to reduce groundwater withdrawals and improve aquifer levels, and watershed management activities that will be critical for flood protection, water quality, and springshed health. The District also continues its investigations of aquifer recharge feasibility and the viability of the Lower Floridan aquifer as a potential water resource for the Heartland planning region.

The Florida Forever Work Plan. In 2008, the Florida Legislature reauthorized the Florida Forever program. The reauthorized Florida Forever Act continues Florida’s successful land acquisition initiative that has included the Save Our Rivers and Preservation 2000 programs, providing funding to state agencies, water management districts and local governments. Water management district funding is used for land acquisition (including less-than-fee purchases), water resource development and water body restoration. Over the life of the program, at least 50 percent of the funds allocated to the water management districts must be used for land acquisition.

As required by Section 373.199(7), Florida Statutes, the District is required to file an annual update of its Florida Forever Work Plan. The Work Plan identifies conservation lands, lands necessary for water resource development projects and waterbody restoration projects that meet acquisition criteria outlined in the Florida Forever Act (259.105, F.S.). Modifications to the 2015 Work Plan consist of adding approximately 1,500 acres that have been identified for proposed acquisition within the Chassahowitzka Springs, Homosassa Springs, Shady Brook Springs and Weeki Wachee Springs springsheds and are important for water quality, recharge, flood protection, and wetland habitat preservation/restoration; and the addition of a new water resource development project: “Hydrogeological Investigation of the Lower Floridan Aquifer.”

The Mitigation Donation Annual Report identifies all cash donations accepted during the preceding fiscal year for wetland mitigation purposes. As with last year, there were no donations received.
The Strategic Plan 2014-2018, and the 2014 Strategic Plan Annual Work Plan. The Strategic Plan is the guiding document for the District, identifying targets and how success will be achieved and measured. The Plan identifies 10 Districtwide strategic initiatives, including regional water supply planning, alternative water supplies, reclaimed water, water conservation, water quality assessment and planning, water quality maintenance and improvement, minimum flows and levels establishment and recovery, natural systems conservation and restoration, floodplain management and emergency flood response, and 35 regional priorities and objectives. The Plan has a five-year time horizon, and is updated on an annual basis.

The Strategic Plan Annual Work Plan details progress on efforts implementing priorities and objectives of the Strategic Plan. Notable accomplishments for 2014 include completion of the Withlacoochee Regional Water Supply Authority’s Regional Water Supply Plan and the Peace River Manasota Regional Water Supply Authority’s Regional Integrated Loop System Project (i.e., three of eight phases). The District partnered on funding for both projects. Other completed projects include the Surface Water Resource Assessment for the Peace Creek Canal Watershed and the Feasibility Study for the Flatford Swamp Hydrologic and Adaptive Management Restoration. In addition, the District partnered with the Saint Johns River and South Florida water management districts for the completion of a draft Central Florida Water Initiative – Regional Water Supply Plan. The districts are expected to approve this plan in 2015. The Annual Work Plan also identifies a Districtwide decline in water use per capita and positive progress in meeting the interim 2020 reuse utilization/resource benefit goals.
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Water Management Performance Measures

Government, like any meaningful enterprise, needs to measure the results of its actions to ensure that services provided are effective and efficient. The purpose of any measurement process must be aimed at accomplishing sound resource management while improving accountability. If measures are successfully developed, and communicated, they can be expected to:

- Provide better information for decision making;
- Document to taxpayers their dollars are being spent wisely;
- Spot potential problems before they become crises; and
- Coordinate effective resource management among agencies.

The water management districts and the FDEP jointly developed these performance measures. They are organized around the four primary AORs of the districts: Water Supply, Water Quality, Natural Systems and Flood Protection. Base years, assumptions and data sources for each measure were mutually agreed upon as one means of achieving consistency among districts. The time frames associated with each measure may vary, based upon the availability of data. A number of measures are provided for the areas of responsibility. The concept is that a few key measures for each of the District’s responsibilities will be tracked over time to identify trends as they are reported annually. These measures will continue to be refined and coordinated with other agencies and the public, and periodic assessments will be necessary to ensure a measuring system that provides true accountability.

Summary of Water Management Performance Measures

Water Supply Measures

Objective 1: Increase available water supplies and maximize overall water use efficiency to meet identified existing and future needs.

- Percentage of domestic wastewater reused
- Uniform gross per capita water use (Public Supply) by District and water supply planning regions
- Uniform residential per capita water use (Public Supply) by District and water supply planning regions
- Within each water supply planning region: 1) the estimated amount of water supply to be made available through the water resource development component of the Regional Water Supply Plan; 2) percent of estimated amount under development; and 3) percent of estimated amount of water actually made available
- Within each water supply planning region, the estimated additional quantities of water supply made available through District water supply development assistance

Objective 2: Prevent contamination of water supplies.

- Percentage of surface water supply sources for which water quality fully attains the designated use

Water Quality Measures

Objective 1: Protect and improve surface water quality.

- Percentage of surface waters with healthy nutrient levels
- Percentage of surface waters with healthy biological conditions

Objective 2: Protect and improve groundwater quality.

- Improving, degrading and stable trends in nitrate concentrations in springs
**Natural Systems Measures**

Objective 1: Maintain the integrity and functions of water resources and related natural systems.
   a. Number of MFLs, by water body type, established annually and cumulatively
   b. Percentage of MFLs established in accordance with previous year’s schedule
   c. For the previous fiscal year, the total acres of wetlands or other surface waters authorized by Environmental Resource Permit (ERP) to be impacted and the number of acres required to be created, enhanced, restored and preserved

Objective 2: Restore degraded water resources and related natural systems to a naturally functioning condition.
   a. Acres of invasive nonnative aquatic plants in inventoried public waters

**Flood Protection Measures**

Objective 1: Minimize damage from flooding.
   a. Percentage of District works maintained on schedule
**Water Supply Measure 1a: Percentage of domestic wastewater reused**

The State and the District emphasize the beneficial use of reclaimed water as part of water supply planning strategies. This water resource has become an important alternative for potable quality supplies for such beneficial uses as irrigation, industrial processing, power generation and environmental enhancement. This measure is intended to reflect the quantity of reclaimed water available and reused.

*Data reflects the FDEP’s definition of reclaimed water, includes RIBs and sprayfields. Reduced reuse percentages utilized in 1995, 1998 and 2003 were due to increased wastewater treatment plant flows associated with increased infiltration and inflow of stormwater into sanitary sewer systems. The slightly reduced amount and percentage reused in 2010 is primarily due to a decrease in residential utilization, which is likely associated with the economic downturn and foreclosure crisis. The slightly reduced amount and percentage reused in 2013 is likely due to above normal rainfall in the southern region of the District where reuse is more common.*
**Water Supply Measure 1b: Uniform gross per capita water use (Public Supply) by District and water supply planning regions**

Public supply represents one of the largest water use sectors, and is experiencing the greatest growth. Public supply water use includes the water distributed by most public and private water utilities. This measure is intended to show the trend of such use, recognizing that water conservation can serve as a significant source of “new water” to meet public needs. In 2008 the FDEP and the water management districts established uniform statewide methods of measuring per capita for public water supply for the purposes of consistent statewide assessment of water conservation performance, reporting, program evaluation and for public communication. The Uniform Gross Per Capita is defined as utility service area finished water use divided by utility service area residential population and is reported for 2008-2013. Other years (1995-2007) were generated using an earlier methodology for gross per capita public supply use, calculated by dividing the total publicly supplied water used (in gallons per day) by the functional population (includes seasonal and tourist) served.

The graphic reports gross per capita water use for the last 19 years. While it is recognized that many factors influence water use (e.g., rainfall), there has been a clear trend toward reduced per capita rates. This trend can be attributed in part to the increasing availability of reuse systems, water conservation programs, enhanced public awareness and related efforts. The per capita figures for 1999 and 2000 are reflective of the severe drought experienced Districtwide and resulting higher use levels, in contrast to the per capita reduction in 2001 and 2002 “wet years.” Years 2003 to 2007 reflect some of the lowest gross per capita achieved to date within the Southwest District. Years 2008 to 2013, which give the uniform per capita water use, also show a general downward trend. This is credited to the continued increase in non-residential reclaimed water use and the implementation of conservation practices.

**Water Supply Measure 1c: Uniform residential per capita water use (Public Supply) by District and water supply planning regions**

This measure accounts for the portion of publicly supplied water that is used for residential purposes only. The uniform residential per capita is defined as the utility service area finished water used by dwelling units (not connections) divided by the utility service area residential population. The FDEP and the five water management districts agreed on this per capita definition in 2008, and to include the data in the annual progress report. This is the sixth reporting year for the residential uniform per capita measure.

![Uniform Residential Per Capita Water Use](chart.png)


To ensure a sustainable water supply, utilities are tapping alternative sources and emphasizing conservation. Opportunities exist for all public supply users to conserve, including residential users, which makeup a significant portion of the public supply customers. The District has devoted considerable resources to encourage the implementation of water conserving rate structures and indoor/outdoor practices for residential water users. These efforts have resulted in uniform residential per capita water use declining by 7 gallons per day since 2008.
Water Supply Measure 1d: Within each water supply planning region: 1) the estimated amount of water supply to be made available through the water resource development component of the Regional Water Supply Plan (RWSP); 2) percent of estimated amount under development; and 3) percent of estimated amount of water actually made available

The District is charged with expanding the "water pie" to assure future water supply availability. This can be done, in part, through water resource development. Projects receiving District funding assistance are categorized as either Water Resource Development (WRD) or Water Supply Development assistance. This measure is intended to document progress toward WRD. The District typically has the lead role in identifying and implementing WRD efforts.

Water Resource Development


The District’s WRD component takes two forms: activities and projects. WRD “activities” include hydrologic data collection and investigations, the Minimum Flows and Levels (MFLs) Program to define limits of significant harm to water resources and ecology, the Quality of Water Improvement Program (QWIP) that plugs abandoned wells to protect water quality, a network of geohydrologic monitoring wells, and flood control projects. The District has budgeted 13 more narrowly defined WRD “projects” in FY2015. These are regional projects designed to create an identifiable, quantifiable supply of water from either traditional or alternative sources. The WRD projects include research and pilot projects for alternative water supplies, agricultural water conservation projects, and hydrologic/environmental restoration projects that will enhance the amount of water available for both natural systems and supply development. The water quantities produced or conserved by many WRD projects are difficult to measure until the projects are complete and the benefits are realized. Based on the WRD projects undertaken and quantified since 2003, a total of 33.2 mgd has already been made available, including 6.5 mgd by the lower Hillsborough River recovery strategy and 25.7 mgd by agricultural conservation projects.
**Water Supply Measure 1e: Within each water supply planning region, the estimated additional quantities of water supply made available through District water supply development assistance**

The Water Supply Development (WSD) component of the District’s RWSP identifies water supply options from which regional authorities, local governments, private utilities, and other water users can choose to meet their individual needs. The options are provided as reasonable concepts that water users may pursue for their water supply planning efforts. Water users are primarily responsible for developing these options and are encouraged to apply for funding assistance from the District. Some options are large scale alternative water supply projects that would likely be implemented by a regional water supply authority or a group of users. Other options, such as reclaimed water infrastructure and conservation programs, could be implemented by individual utilities and other users.

![Water Supply Development](image)


This graphic shows water supply made available or being developed on a cumulative basis through WSD funding assistance. From 1994 through 2014, the District provided $867 million in cumulative project funding to develop and conserve water supplies. An estimated 425 mgd has been made available by completed or ongoing projects. District funds are typically matched on a 50/50 cost-share basis with the partnering entity. A major accomplishment of the District’s WSD component in FY2014 was the completion of the pilot ASR degasification project with the City of Bradenton. The technology developed by this multi-year project allows for the safe and cost-effective utilization of ASR systems for seasonal water storage throughout central Florida.
**Water Supply Measure 2a: Percentage of surface water supply sources for which water quality fully attains the designated use**

Protecting and maintaining high quality water for human use is a critical component of water management. It is essential these sources be monitored and maintained in a high quality state for future water supply use. Under Florida’s water quality monitoring programs, surface water bodies are regularly assessed to determine if designated uses are being attained.

![Class I Watersheds or Streams Meeting Established Standards](chart)

*Source: Florida Department of Environmental Protection, 2009-2014.*

Of the 61 Class I water body identification units (WBIDs) in the District, 28 water bodies were assessed in 2014. Data indicate these surface waters are currently meeting their designated use. Since the 2010 reporting period, the methodologies utilized for determining whether a Class I Water is meeting its designated use were modified to include only toxics. The year 2009 methodologies included surface water standards for toxics, dissolved oxygen and nutrients.

*FDEP provides performance data for this measure and has advised that new data is not being provided for 2014, as an effort is underway to implement new reporting criteria. Consequently, 2014 data is the same as 2013. Data that reflects the new reporting criteria will be available in next year’s report.*
**Water Quality Measure 1a: Percent of surface waters with healthy nutrient levels**

The District has an abundance of surface waters used for a variety of purposes by the people who live and work here, by those who are visiting, and by the fish and wildlife that depend on these waters. Excessive nutrient loading remains the largest single threat to these resources. While nutrients are essential to life and ecosystem functions, excessive nutrients can cause nuisance algal and plant growth, oxygen depletion, loss of water clarity, loss of desirable species, loss of biodiversity, flavor effects on drinking water, increased probability of human and animal pathogens and other water quality impairments. This measure documents the percentage of surface waters with healthy nutrient levels.

![Watersheds or Streams with Healthy Nutrient Levels](chart)

Of the total water bodies with assessment data, 63.2 percent were determined to be healthy for nutrients in 2014, closely matching the results for 2009-2013. Waters with healthy levels of nutrients are those which do not have elevated Chlorophyll concentrations or Trophic State Indices (TSI). The health of these surface waters is based on the following guidelines:

<table>
<thead>
<tr>
<th>Waterbody Type</th>
<th>Guideline for Annual Average Conditions</th>
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<tbody>
<tr>
<td>Estuary</td>
<td>&lt;11 ug/l Chlorophyll</td>
</tr>
<tr>
<td>Stream</td>
<td>&lt;20 ug/l chlorophyll</td>
</tr>
<tr>
<td>Lake</td>
<td>&lt;60 TSI (colored lake) &lt;40 TSI (Clear lake)</td>
</tr>
</tbody>
</table>

*FDEP provides performance data for this measure and has advised that new data is not being provided for 2014, as an effort is underway to implement new reporting criteria. Consequently, 2014 data is the same as 2013. Data that reflects the new reporting criteria will be available in next year’s report.*
**Water Quality Measure 1b: Percentage of surface waters with healthy biological conditions**

Biological conditions are included in the broader definition of water quality. These conditions are indicators of water body health, and include investigations of dissolved oxygen, habitat conditions and the health of aquatic insect communities. Most importantly, the conditions provide cumulative information on all activities occurring within the watershed and can be used to establish baseline characteristics, characterize the overall condition of a watershed, identify potential problem pollutants, target more intensive diagnostic sampling and to support land use planning and management. This measure addresses the percentage of assessed watersheds or stream reaches with healthy biological conditions.

![Watersheds or Streams with Healthy Biology](image)

*Source: Florida Department of Environmental Protection, 2009-2014.*

The measures used by the FDEP to evaluate the biological conditions in flowing surface waters are primarily the Stream Condition Index (SCI) and Biological Reconnaissance (BioRecon). Of the 157 watersheds or stream reaches assessed in 2014 within the District, 90 watersheds or stream reaches were determined to be impaired based on biological assessments. The numbers for the previous five years are as follows: 2013 (157 assessed/90 impaired), 2012 (163 assessed/94 impaired), 2011 (164 assessed/99 impaired), 2010 (191 assessed/116 impaired), 2009 (104 assessed/42 impaired). The difference in the percentage of healthy water bodies during these years is believed to be largely due to the number and frequency of the water bodies assessed, as well as the basin(s) targeted for the assessment.

*FDEP provides performance data for this measure and has advised that new data is not being provided for 2014, as an effort is underway to implement new reporting criteria. Consequently, 2014 data is the same as 2013. Data that reflects the new reporting criteria will be available in next year’s report.*
**Water Quality Measure 2a: Improving, degrading and stable trends for nitrate concentrations in springs**

Increasing levels of nitrate in Upper Floridan aquifer groundwater discharging from springs continues to be of concern in the District and statewide. While not yet posing significant human health impacts to our water supply, increasing nitrate concentrations stimulate the growth of aquatic vegetation which can alter the ecological function of springs and receiving water bodies. This measure is intended to identify springs in the District where nitrate concentrations are increasing (degrading), decreasing (improving), or remaining stable.

The following table depicts nitrate trend analyses for 32 selected springs within the District. The 2014 trends are derived by utilizing the Wilcoxon Rank-Sum test to compare data from the temporal groups of January 2007–December 2010 (Group 1) against January 2011–September 2014 (Group 2).

### Trends in Nitrate* Concentrations in Selected Springs *(Source: District Data Collection Bureau, 2014)*

<table>
<thead>
<tr>
<th>Spring</th>
<th>Wilcoxon P-Statistic</th>
<th>No. of Samples</th>
<th>Median Nitrate mg/l</th>
<th>No. of Samples</th>
<th>Median Nitrate mg/l</th>
<th>Wilcoxon Trend</th>
</tr>
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<tbody>
<tr>
<td>ALLIGATOR SPRING (GUM SPRING 1A)</td>
<td>0.074732</td>
<td>15</td>
<td>1.31</td>
<td>12</td>
<td>1.47</td>
<td>Stable</td>
</tr>
<tr>
<td>BELTONS MILLPOND MAINTENANCE SPRING</td>
<td>0.303975</td>
<td>16</td>
<td>0.14</td>
<td>15</td>
<td>0.17</td>
<td>Stable</td>
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<tr>
<td>BETEE JAY SPRING</td>
<td>0.068989</td>
<td>16</td>
<td>0.42</td>
<td>15</td>
<td>0.45</td>
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<tr>
<td>BOBHILL SPRING</td>
<td>0.135952</td>
<td>9</td>
<td>0.69</td>
<td>15</td>
<td>0.72</td>
<td>Stable</td>
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<td>BUCKHORN MAIN SPRING</td>
<td>0.001260</td>
<td>12</td>
<td>1.78</td>
<td>15</td>
<td>1.92</td>
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<tr>
<td>CANAL 485A SPRING 1B</td>
<td>0.044182</td>
<td>15</td>
<td>1.14</td>
<td>15</td>
<td>1.30</td>
<td>Degrading</td>
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<tr>
<td>CATFISH SPRING</td>
<td>0.000061</td>
<td>13</td>
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<td>CHASSAHOWITZKA 1 SPRING</td>
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<td>CITRUS-BLUE SPRING</td>
<td>0.000051</td>
<td>16</td>
<td>0.61</td>
<td>15</td>
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<td>FENNEY SPRING</td>
<td>0.004401</td>
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<td>0.702139</td>
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<td>GUM SPRINGS MAIN</td>
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<tr>
<td>HIDDEN RIVER 2 SPRING</td>
<td>0.000003</td>
<td>16</td>
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<td>RAINBOW SWAMP 3 SPRING</td>
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<td>WEEKI WACHEE SPRINGS</td>
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<td>0.61</td>
<td>15</td>
<td>0.50</td>
<td>Improving</td>
</tr>
</tbody>
</table>

* The sum of nitrite and nitrate is used to represent nitrate.
The Wilcoxon Rank-Sum test was used to determine whether there is a significant difference between spring water quality data populations grouped by time periods. It is a non-parametric statistical test that is used to determine whether one independent group of observations tends to contain larger values than another independent group. The Wilcoxon Rank-Sum test calculates a p-value, a significance level obtained by the data. If the calculated p-value is less than 0.05, the 95 percent confidence level, the groups are considered to be significantly different.

The overall water quality trend for these 32 selected springs in the District shows an increase in nitrate contamination. Nitrate concentrations in springs may fluctuate based on a variety of factors including land use change, climate, irrigation practices, etc.

Various FDEP initiatives support funding for investigations and implementation of strategies to improve water quality in Florida’s springs, including recognition of the significance of public education. District initiatives include adding three first magnitude spring systems (Weeki Wachee, Chassahowitzka, Homosassa) to the SWIM priority list and developing new SWIM management plans for each of the first magnitude spring systems with the newly formed Springs Coast Steering Committee. The District also supports cooperative funding initiatives and restoration efforts, such as storm water improvement projects in spring basins.
Natural Systems Measure 1a: Number of MFLs, by water body type, established annually and cumulatively

The District maintains and annually updates a “Minimum Flows and Levels Priority List and Schedule” that identifies water bodies for which the District plans to establish minimum flows and levels (MFLs). The List is based on the importance of the waters to the State or region, and includes those waters which are experiencing or may reasonably be expected to experience adverse impacts. The District continues to make progress in the establishment of MFLs.

By the end of FY2014, the District had established (i.e., adopted by rule) MFLs for 119 lakes, 41 wetlands, 19 river segments, 15 springs or spring complexes, 7 aquifer sites north of Tampa Bay, a single aquifer site in the Dover/Plant City area, and the Floridan aquifer system in the most impacted area of the Southern Water Use Caution Area (SWUCA), for a total of 203 established MFLs. The District had also determined that development of minimum flows for the intermediate aquifer system in the SWUCA was not technically feasible and adopted revised minimum flows for the lower Hillsborough River. The following graphic shows the number of MFLs that have been developed annually and cumulatively by the District during the past 15 years.

### Lakes/Wetlands, Rivers/Streams, Springs and Aquifers with MFLs

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<td>Lakes and Wetlands Cumulatively</td>
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<td>56</td>
<td>56</td>
<td>70</td>
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<td>Aquifers (Wells or Systems) Annually</td>
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<td>0</td>
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</tbody>
</table>

Source: SWFWMD Water Resources Staff, 2014.
Natural Systems Measure 1b: Percentage of MFLs established in accordance with previous year’s schedule

The District’s Minimum Flows and Levels Priority List and Schedule identifies the lakes, wetlands, river/streams, springs and aquifers for which minimum flows and levels (MFLs) are to be established. The Schedule is updated annually and submitted to the FDEP for approval. The following graphic shows the number of water bodies scheduled for MFLs establishment on an annual basis along with the number actually adopted to provide a means for tracking progress in MFLs establishment.

The FY2014 MFLs Priority List identified a total of 27 MFLs scheduled for establishment or reevaluation during the fiscal year, including 21 lakes, 5 river segments, and 1 spring group. MFLs were adopted for 3 of the 27 priority water bodies in FY2014 and included those established for lakes Hanna, Keene, and Kell.

MFLs adoption was delayed for 8 priority water bodies scheduled for establishment in FY2014, including lakes Hancock and Starvation; the Braden, Manatee (lower segment), and Pithlachascotee (upper and lower segments) rivers; Brooker Creek; and the Gum Springs Group. Scheduled reevaluation of adopted MFLs was also delayed for 16 water bodies, including lakes Bird, Crystal, Dan, Hobbs, Horse, Juanita, Merrywater, Rainbow, Stemper, Sunset, Big Fish, Buddy, Camp, Moon, Padgett and Pasadena. Factors causing delays in the adoption or reevaluation of scheduled MFLs included staffing priorities, discussions with water-supply stakeholders, the need for additional data collection and analysis, and coordination with the St. Johns River Water Management District on development of spring MFLs. Despite these delays, the progress of this program is considered good.
Natural Systems Measure 1c: For the previous fiscal year, the total acres of wetlands or other surface waters authorized by Environmental Resource Permit (ERP) to be impacted and the number of acres required to be created, enhanced, restored and preserved

The ERP Program evaluates surface water management systems for impacts to natural systems (surface water and wetlands), water quality, and water quantity (flood protection) from various development projects. Impacts to surface waters and wetlands, unless specifically exempted, must be eliminated or reduced and, if unavoidable, mitigated. The intent of mitigation is to replace the functions of the impacted natural systems, whether involving water quality treatment, flood protection, wildlife habitat or other factors. This measure addresses the extent to which natural systems are impacted, and the extent to which impacted systems are replaced.

<table>
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<td><strong>Impacted</strong></td>
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<tr>
<td>(temporary &amp; permanent)</td>
<td>243</td>
<td>190</td>
<td>368</td>
<td>333</td>
<td>399</td>
<td>475</td>
<td>571</td>
<td>851</td>
<td>743</td>
<td>840</td>
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<td>535</td>
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<td><strong>Created/Restored</strong></td>
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<td>271</td>
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<td><strong>Enhanced</strong></td>
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<td>24</td>
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</table>

Source: SWFWMD Environmental Resource Permitting Database, October 2014.

The District’s ERP Program shows a strong preference for avoiding wetland impacts as the best means to retain the functions of these important systems. Where wetland impacts were unavoidable, the combination of creating, restoring and enhancing wetlands more than offset acres impacted in most years.

* Acreages are rounded to whole numbers. In FY 2012, the methodology for calculating the ERP wetland acres was adjusted to only reflect UMAM acres of creation, preservation and restoration during application review. Prior to FY2012, the data included acres not impacted in the “Preserved” total. The “Preserved” total now only includes acres actually preserved by a conservation easement. Short form modifications to Mitigation Banks, which are reported in earlier years, are also now excluded.
Natural Systems Measure 2a: Acres of invasive nonnative aquatic plants in inventoried public waters

The protection and management of natural surface waters cannot be accomplished without effectively managing troublesome exotic aquatic plant species that can reduce the abundance and diversity of beneficial native plant populations, negatively impact fish and wildlife habitat, hinder navigation and recreational use, degrade water quality, impede water flow and increase sedimentation rates. Aquatic plant management operations conducted by the District on publicly accessible natural waters are funded by and coordinated with the Florida Fish and Wildlife Conservation Commission (FWC) under the Cooperative Aquatic Plant Control Program. This measure is intended to monitor how well the District is managing invasive plant populations on the public waterways it is responsible for managing.

![Invasive Aquatic Plant Annual Survey](image)

Source: Florida Fish and Wildlife Conservation Commission Invasive Plant Management Section’s Annual Survey Database, 2013.

There has been significant progress made managing populations of the invasive aquatic plant species, hydrilla, water hyacinth and water lettuce, on the public waters managed by the District during the period depicted (1982-2013). These species are the primary invasive species managed on an annual basis on these waters. In 2013, a total of 651 acres of these invasive aquatic plant species were detected on the 22,502 acres of District managed lakes, rivers and canals. This represents less than a 3% coverage of the aforementioned invasive species and reflects a continuation of effective maintenance control. Some variation in plant acreages is expected on a year to year basis since ecological conditions, such as water levels, may result in increased or decreased growth potential or affect planned control operations. It is not realistic to expect complete eradication - the goal is "maintenance control" where targeted plants are regularly monitored and maintained at the lowest feasible level. Additionally, the management philosophy for hydrilla has been evolving since control of the aquatic plant management program was transferred to the FWC. On some waters, the FWC supports allowing increased coverage of hydrilla if it will benefit the primary use of a water body such as waterfowl hunting.
**Flood Protection Measure 1a: Percentage of District works maintained on schedule**

The District maintains a total of 81 structures, including water conservation structures, salinity barriers, canals and flood control structures. It is essential these facilities be maintained in order to optimally perform their respective functions. Information contained in the Structure Operations Five-Year Maintenance Plan serves as the guideline for scheduling maintenance on District works.

<table>
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<th>Year</th>
<th>Number of Structures</th>
<th>Percent of Structures Maintained on Schedule</th>
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<tr>
<td>2013</td>
<td>81</td>
<td>100</td>
</tr>
<tr>
<td>2014</td>
<td>81</td>
<td>100</td>
</tr>
</tbody>
</table>

*Source: SWFWMD Operations Staff, 2014.*

District structures were maintained on schedule in FY2014. There are currently 40 structures with remote operational capability. This past year, refurbishment projects continued on major flood control gates, including one gate at structure S-160 and the single gate at structure S-163. Both structures are located on the Tampa Bypass Canal in Hillsborough County. Planned activities for FY 2015 include the refurbishment of two gates at Structure S-551 on Lake Tarpon in Pinellas County and evaluating stop log structure replacements on the Thirteen Mile Run lakes in Hillsborough County. A total of 41 structures will be remote control by the end of FY2015. The District uses a five-year plan to address all needed routine and preventive maintenance on District structures, including the necessary budgets to accomplish the work.
Governing Board Approved 2015 Minimum Flows and Levels Priority List and Schedule and Reservations List and Schedule

Priority Water Bodies with Adopted and Effective Minimum Flows and Levels Rules, Including Those That Have Been Reevaluated

- Alafia River (upper segment)
- Alafia River (lower segment)
- Anclote River (lower segment)
- Anclote River (upper segment)
- Braden River (upper segment)
- Buckhorn Springs
- Chassahowitzka River System and Springs (includes Chassahowitzka Main, Chassahowitzka #1, Crab Creek, Potter, Ruth and Blind Springs)
- Citrus County Lakes – Ft. Cooper, Tsala Apopka – Floral City, Inverness and Hernando Pools
- Crystal Springs
- Dona Bay/Shakett Creek System
- Dover/Plant City Water Use Caution Area Minimum Aquifer Level
- Hernando County Lakes – Hunters, Lindsey, Mountain, Neff, Spring, Tooke, Weekiwachee Prairie, Whitehurst
- Hillsborough County Lakes – Alice, Allen, Barbara, Bird, Brant, Calm, Carroll, Charles, Church, Crenshaw, Crescent, Crystal, Cypress, Dan, Deer, Dosson, Echo, Ellen, Fairy [Maurine], Garden, Halfmoon, Harvey, Helen, Hobbs, Hooker, Horse, Jackson, Juanita, Little Moon, Merrywater, Mound, Platt, Pretty, Rainbow, Raleigh, Reinheimer, Rogers, Round, Saddleback, Sapphire, Stemper, Strawberry, Sunset, Sunshine, Taylor, Virginia, Wimauma
- Hillsborough River (lower segment) (reevaluated)
- Hillsborough River (upper segment)
- Homosassa River System and Springs (includes Halls River Springs, Southeast Fork Homosassa River Springs, Homosassa Main Springs, Hidden River Springs)
- Levy County Lake – Marion
- Lithia Springs
- Marion County Lakes – Bonable, Little Bonable and Tiger
- Myakka River (lower segment)
- Myakka River (upper segment)
- Northern Tampa Bay – 41 Wetland sites
- Northern Tampa Bay – 7 Wells – Upper Floridan aquifer/Saltwater Intrusion
- Pasco County Lakes – Bell, Big Fish, Bird, Buddy, Camp, Clear, Green, Hancock, Iola, Jessamine, King, King [East], Linda, Middle, Moon, Padgett, Parker aka Ann, Pasadena, Pasco, Pierce, Unnamed #22 aka Loyce
- Peace River (lower segment)
- Peace River (middle segment)
- Peace River (three upper segments – "low" minimum flows)
- Sulphur Springs
- Southern Water Use Caution Area – Upper Floridan aquifer
- Tampa Bypass Canal
- WeekiWachee River System and Springs (includes Weeki Wachee, Jenkins Creek, Salt, Little Weeki Wachee and Mud River Springs)
Priority Water Bodies in Rule Development with Adopted but Not Yet Effective Minimum Flows and Levels Rules (with Anticipated Effective Dates)

- Hillsborough County Lakes – Hanna, Keene, Kell (rules anticipated to become effective in January 2015)

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2015

- Braden River (lower segment)
- Central Florida Water Initiative Area and Southern Water Use Caution Area Reevaluation Water Bodies
  - Polk County Lakes – Clinch* (S31-T31S-R28E), Crooked* (S01-T31S-R27E), Eagle* (S01-T29S-R25E), McLeod* (S07-T29S-R26E), Starr* (S14-T29S-R27E), Wales* (S01-T30S-R27E)
- Hillsborough County Lake – Starvation (S21-T27S-R18E)
- Manatee River (lower segment)
- Northern Tampa Bay Reevaluation Water Bodies
  - Hillsborough County Lakes – Bird (S26-T27S-R18E), Crystal (S14-T27S-R18E), Hobbs (S01-T27S-R18E), Steimer (S13-T27S-R18E)
  - Pasco County Lakes – Buddy (S17-T25S-R21E), Camp (S34-T26S-R18E), Moon (S28-T25S-R17E), Padgett (S24-T26S-R18E), Pasadena (S16-T25S-R21E)
- Pasco County Lake – Crews (S20-T24S-R18E)
- Pithlachascotee River (lower segment)
- Pithlachascotee River (upper segment)
- Polk County Lake – Hancock (S08-T29S-R25E)

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2016

- Gum Springs Group**
- Southern Water Use Caution Area Reevaluation Water Bodies
  - Highlands County Lakes – Jackson* (S30-T34S-R29E), Letta* (S31-T33S-R29E), Little Jackson* (S06-T35S-R29E), Lelita* (S26-T33S-R28E)
- Northern Tampa Bay Reevaluation Water Bodies
  - Hillsborough County Lakes – Dan (S06-27S-R17E), Horse (S26-T27S-R17E), Juanita (S22-T27S-R17E), Merrilwater (S22-T27S-R18E), Rainbow (S22-T27S-R17E), Sunset (S17-T27S-R17E)
  - Pasco County Lake – Big Fish (S21-T24S-R19E)
- Polk County Lakes – Eva* (S32-T27-R27), Lowery (S14-T27S-R26E)
- Rainbow River and Springs** (Bubbling and Waterfall Springs and springs in the main spring bowl)

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2017

- Crystal River System and Kings Bay Springs
- Highland County Lakes – Damon* (S03-T33-R28), Pioneer* (S11-T33-R28), Pythias* (S02-T33-R28), Viola* (S14-T33-R38)
- Polk County Lakes – Amoret* (S24-T30S-R27E), Aurora* (S13-T30S-R28E), Bonnet (S14-T28S-R33E), Easy* (S19-T30S-R28E*), Effie* (S03-T30S-R27E), Josephine* (S13-T30S-R27E), Little Aurora* (S13-T30S-R28E), Trout* (S34-T32-R28)
Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2018

- Brooker Creek
- Cypress Creek
- Peace River (lower segment) (reevaluation)
- Shell Creek (lower segment)

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2019

- Chassahowitzka River System and Springs (includes Chassahowitzka Main, Chassahowitzka #1, Crab Creek, Potter, Ruth and Blind Springs) (reevaluation)
- Homosassa River System and Springs (includes Halls River Springs, Southeast Fork Homosassa River Springs, Homosassa Main Springs, Hidden River Springs) (reevaluation)

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2020

- Little Manatee River (lower segment)
- Little Manatee River (upper segment)
- Withlacoochee River System (lower segment)
- Withlacoochee River System (three middle/upper segments)**

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2021

- Bullfrog Creek
- North Prong Alafia River
- South Prong Alafia River

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2022

- Peace River (three upper segments – "intermediate" and "high" minimum flows)

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2023

- Charlie Creek
- Horse Creek

Priority Water Bodies Scheduled for Minimum Flows and Levels Adoption in 2024

- Prairie Creek
- Shell Creek (upper segment)

Adopted Reservations

- Morris Bridge Sink (water reserved to contribute to achieving or maintaining minimum flows adopted for the lower Hillsborough River for the protection of fish and wildlife)
Water Bodies Scheduled for Reservations Adoption in 2015

- Polk County Lake – Hancock (S08-T29S-R25E) (reservation proposed to contribute to achieving or maintaining minimum flows adopted for the upper Peace River and for the protection of fish and wildlife).

Notes for Listed Water Bodies

Section-Township-Range (S-T-R) information is listed for lakes scheduled for minimum flows and levels and reservations development to assist in locating individual water bodies. Similar information is provided for lakes with adopted minimum levels in Table 8-2, Rule 40D-8.624(12), Florida Administrative Code.

All proposed spring and river segment minimum flows and levels will be subjected to voluntary scientific peer review based on the expected level of complexity of the minimum flows and levels and the anticipated degree of public concern regarding the minimum flows and levels.

No proposed lake minimum flows and levels are expected to be subjected to voluntary scientific peer review based on anticipated use of previously peer-reviewed methodologies for development of the minimum flows and levels.

Listed water bodies that may be affected by withdrawals occurring in other water management districts are identified with asterisks. These listings are not intended to identify a request for the adoption of a minimum flow or level by the FDEP pursuant to Section 373.0421(1), Florida Statutes.

* Water bodies potentially affected by groundwater withdrawals in the St. Johns River Water Management District (SJRWMD) and South Florida Water Management District (SFWMD). Identified water bodies in Polk County are within the Central Florida Water Initiative Planning Area which is a coordinated effort among the Southwest Florida Water Management District (SWFWMD), SJRWMD, SFWMD, FDEP, local governments, agricultural and commercial interests to effectively manage water resources in the area. For identified water bodies in Highlands County, the SWFWMD has coordinated with the SFWMD on their preparation of the 2014 Lower Kissimmee Basin Regional Water Supply Plan and is collaborating with the SFWMD and SJRWMD on the planned 2018 expansion of the East Central Florida Transient groundwater flow model domain to incorporate Highlands County and other areas of South Florida.

** Water bodies potentially affected by groundwater withdrawals in the SJRWMD. The SWFWMD and SJRWMD are coordinating minimum flows and levels analyses through cooperatively funded projects concerning expansion of the Northern District groundwater flow model that was completed in December 2013 and the proposed Central Florida Springs model scheduled for completion in 2015. Springs coordination meetings also occur on a quarterly basis with water management district/FDEP/Florida Department of Agriculture and Consumer Services participation to improve inter-district communication. SWFWMD has also coordinated with the SJRWMD on a recent update to the water supply plan for the Withlacoochee River Water Supply Authority.
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Introduction ..................................................................................................................................................... 3-1

Five-Year Capital Improvements Plan Schedule .......................................................................................... 3-3

Project Descriptions ....................................................................................................................................... 3-4
Introduction

The Five-Year Capital Improvements Plan (CIP) includes projected revenues and expenditures for capital improvements for FY2014-15 through FY2018-19. As directed by Section 373.536(6)(a)3, Florida Statutes, the CIP is presented in a manner comparable to the fixed capital outlay format set forth in Section 216.043, Florida Statutes. The format for this report was jointly developed by the Executive Office of the Governor, the Department of Environmental Protection, and the water management districts. Capital improvement projects may be budgeted in either of two standard program categories. Those programs and their activities and sub-activities are represented below:

2.0 Acquisition, Restoration and Public Works

2.1 Land Acquisition
2.2 Water Source Development
   2.2.1 Water Resource Development Projects
   2.2.2 Water Supply Development Assistance
   2.2.3 Other Water Source Development Activities
2.3 Surface Water Projects
   2.3.1 Surface Water Management
2.5 Facilities Construction and Major Renovations

3.0 Operation and Maintenance of Lands and Works

3.1 Land Management
3.2 Works
3.3 Facilities
3.4 Invasive Plant Control
3.5 Other Operation and Maintenance Activities

The activities and sub-activities under program 2.0 Acquisition, Restoration and Public Works that may include capital improvement projects are 2.1 Land Acquisition, 2.2.1 Water Resource Development Projects, 2.2.3 Other Water Source Development Activities, 2.3.1 Surface Water Management, and 2.5 Facilities Construction and Major Renovations. The activities under program 3.0 Operation and Maintenance of Lands and Works that may include capital improvement projects are 3.1 Land Management and 3.2 Works.

The purpose of the CIP is to project future needs and anticipated future funding requirements to meet those needs. (The District uses a pay-as-you-go approach and does not incur bonded debt.) The CIP contains only those projects that will be owned and capitalized as fixed assets by the District.

The CIP includes expenditures for basic construction costs (permits, inspections, communications requirements, utilities, outside building, site development, etc.) and other related capital project costs (land, survey, existing facility acquisition, professional services, etc.).

The District’s current capital improvement projects are budgeted under the following program activities: 2.1 Land Acquisition and 2.5 Facilities Construction and Major Renovations.

Standard definitions for these programs and activities used by all five water management districts for CIP preparation follow:

2.0 Acquisition, Restoration and Public Works

This program includes the development and construction of all capital projects (except for those contained in Program 3.0), including land acquisition (i.e., Florida Forever Program), water resource
development projects, water control projects, support and administrative facilities construction, and the restoration of lands and water bodies.

2.1 Land Acquisition – The acquisition of land and facilities for the protection and management of water resources. This activity category does not include land acquisition components of "water resource development projects" or "surface water projects."

2.5 Facilities Construction and Major Renovations – Design, construction, and significant renovation of all district support and administrative facilities. The proposed work for the facilities improvement program includes project management, permitting, and conceptual, preliminary, and detailed engineering for the development and preparation of contract plans and specifications, and the construction of planned replacement, improvement, or repair to the district’s administrative and field facilities.
## Southwest Florida Water Management District
### Five-Year Capital Improvements Plan
#### Fiscal Year 2014-15 through Fiscal Year 2018-19

### 2.1 ACQUISITION, RESTORATION AND PUBLIC WORKS

#### 2.2 LAND ACQUISITION

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<td>$10,530,000</td>
<td>$3,306,000</td>
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#### 2.5 FACILITIES CONSTRUCTION AND MAJOR RENOVATIONS

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| TOTAL CAPITAL EXPENDITURES | | | | | |
|-----------------------------|------------------|------------------|------------------|------------------|
| $3,380,000 | $11,978,500 | $3,741,000 | $400,000 | $400,000 |

### Notes:

1. At the end of FY2013-14, the District had over $16.7 million in prior year funds available for land acquisitions through the Florida Forever program. The funds consisted of $5.1 million being held in a District investment account with its use restricted to land purchases that would be eligible for Florida Forever funding. The $5.1 million was generated from the sale of land or real estate interests to the Natural Resource Conservation (NRCS), the Florida Department of Transportation (FDOT) or local governments for right of way or mitigation purposes. The District also has $11.6 million of prior year allocations of Florida Forever funding available and its release is subject to approval by the Department of Environmental Protection. For FY2014-15, $2.86 has been allocated for planning purposes in the Capital Improvements Plan. Funding for FY2017-18 and beyond is subject to future state appropriations of the Florida Forever Act.

2. The FY2014-15 budget reflects the annual, ongoing investment for the Facilities Fund CIP. For FY2014-15, the Facilities Fund is budgeted with the Balances from Prior Years as a result of the unallocated funds from the Districtwide Planned Roof, HVAC, Repair and Remodeling projects ($516,000) from previous years. The annual investment is scheduled to be budgeted with Balances from Prior Years for Future Projects for the out years, FY2015-16 through FY2018-19.
**Project Descriptions**

**Program:** Acquisition, Restoration and Public Works

**Activity:** Land Acquisition

**Project Title:** Florida Forever Land Purchases

**Type:** Lands Acquired Through the Florida Forever Program

**Physical Location:** District’s 16-county region

**Square Footage/Physical Description:** To Be Determined

**Expected Completion Date:** Ongoing

**Historical Background/Need for Project:** The District has recognized land acquisition as one of its primary tools for achieving its statutory responsibilities. Section 373.139, Florida Statutes, authorizes the District to acquire fee simple or less-than-fee interests to the lands necessary for flood control, water storage, water management, conservation and protection of water resources, aquifer recharge, water resource and water supply development, and preservation of wetlands, streams and lakes.

The District purchases land and interests in land through fee simple acquisition and less-than-fee simple interests (i.e., conservation easements) under the State's Florida Forever program. The Florida Forever program provides funding for land acquisition and capital improvements to state agencies, the water management districts and local governments. The authorized uses for the Florida Forever Trust Fund include land acquisition, the Surface Water Improvement and Management (SWIM) program, water resource development, and regional water supply development and restoration. An important aspect as to the expenditure of Florida Forever funds is that at least 50 percent of the allocation from the Florida Forever Trust Fund must be for land acquisition. During the 2008 legislative session, the Florida Forever program was extended through 2020. Between the program’s inception in 2001 through 2008, the District had been allocated just over $26 million annually. The legislation extending the program reduced the District’s annual allocation to $22.5 million effective for FY2008-09. New funding was not allocated to the District from the Florida Forever program during the 2009 legislative session. The 2010 Florida Legislature appropriated $1.125 million to the District. New funding was not allocated to the District from the Florida Forever program during the 2011 through 2014 legislative sessions. As of September 30, 2014, the District has an estimated $16.7 million available in prior year funds for land acquisitions (fee or less-than-fee) under the Florida Forever program. This includes $11.6 million of prior year allocations held by the State of Florida in the Florida Forever Trust Fund. The remaining $5.1 million is held in the District’s investment accounts. These funds were generated from the sale of land or real estate interests to the Natural Resources Conservation Service, the Florida Department of Transportation (FDOT), or local governments for right of way or mitigation purposes. The release of the funds from prior year allocations, held by the State of Florida, is subject to approval by the Florida Department of Environmental Protection.

**Plan Linkages:** Strategic Plan; Watershed Management Plans; SWIM Plans; Southern Water Use Caution Area

**Area(s) of Responsibility:** Strategic Plan; Watershed Management Plans; SWIM Plans; Southern Water Use Caution Area

**Alternative(s):** An alternative would be to place additional regulations and restrictions on lands requiring protection rather than purchasing the land or interests necessary. Many of these alternatives are not within the District’s authority.

**Basic Construction Costs (include permits, inspections, communications requirements, utilities, outside building, site development, other):** For FY2014-15, $2.75 million is budgeted for land acquisition. The following amounts are projected for future years: $10 million for FY2015-16 and $3,150,000 for FY2016-17. Funds are not budgeted to individual projects because of potential impacts on successful negotiations with property owners and instead are budgeted in a lump sum for all land acquisitions.
Other Project Costs (include land, survey, existing facility acquisition, professional services, other): For FY2014-15, $114,000 is included for ancillary costs such as appraisals, title insurance, environmental site assessments, and documentary stamps from prior year funds. The following amounts are projected for future years: $530,000 for FY2015-16 and $156,000 for FY2016-17. Ancillary costs are reimbursable from the Florida Forever Trust Fund.

Anticipated Additional Operating Costs/Initial (include salaries, benefits, equipment, furniture, expenses): Real Estate Services and Survey Sections staff time and travel for FY2014-15 are not included in the total. These costs will be funded from District ad valorem revenue sources for FY2014-15.

Anticipated Additional Operating Costs/Continuing: The District acquires real estate interests for projects that would enhance its existing ownership or provide management benefits. Depending on the size of the property, location and interest acquired, the operating costs may be increased or decreased and are evaluated at the time of acquisition. Real Estate Services costs will be funded from District ad valorem revenue sources for FY2014-15.

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<td>$2,864,000</td>
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</table>
Program: Acquisition, Restoration and Public Works

Activity: Facilities Construction and Major Renovations

Project Title: Districtwide Planned Roof, HVAC, Repair, and Remodeling Projects

Type: Repairs and Remodeling as Required

Physical Location: District Headquarters in Brooksville, and Service Offices in Sarasota and Tampa; Florida

Square Footage/Physical Description: As Required

Expected Completion Date: Ongoing

Historical Background/Need for Project: Starting in FY2001-02, the Governing Board created an ongoing program to invest in the replacement and repair of the District facility roofs, heating, ventilation, and air conditioning (HVAC) systems. The Wolf Group, in FY2003-04, completed a multi-year “facilities condition assessment” of all District facilities. Based upon the recommendations in the facilities condition assessment, staff has developed a multi-year schedule for roof improvements, HVAC system repairs, and remodeling projects, this allows planning for building improvements and minimizes the opportunity for building damage. Estimated pricing as of March 2014 is used for budget planning purposes. The projects currently planned in FY2014-15 through FY2018-19 are as follows:

FY2014-15
Sarasota - Building #1, Rooftop HVAC units. Replacement of eight (8) Rooftop HVAC units for $65,000.
Sarasota - Building #1 Roof. Replacement of roof for $200,000.

Unallocated
$35,000 - Represents the remaining balance of the $300,000 to be allocated to future projects.

FY2015-16
Brooksville - Building #3 Vault. Replacement of HVAC units for $12,000.
Brooksville - Building #5 Common Area. Replacement of HVAC units for $12,000.
Brooksville - Building #5 Vault. Replacement of HVAC units for $12,000.
Brooksville - Building #7 Lab Area. Replacement of HVAC units for $115,000

Unallocated
$249,000 - Represents the remaining balance of the $249,000 to be allocated to future projects.

FY2016-17
Brooksville - Building #6 Rooftop HVAC units. Replacement of HVAC units for $24,000.
Brooksville - Building #8 Mail Room. Replacement of HVAC units for $10,000.
Brooksville - Building #8 Hydro Shop. Replacement of HVAC units for $10,000.
Brooksville - Building #34 Office Area. Replacement of HVAC units for $15,000

Unallocated
$341,000 - Represents the remaining balance of the $341,000 to be allocated to future projects.

FY2017-18 and FY2018-19
$400,000 - No specific roof, HVAC, repair and remodeling projects have been scheduled. The $400,000 will be allocated to future projects as identified.

Plan Linkages: Strategic Plan

Area(s) of Responsibility: Water Supply, Flood Protection, Water Quality, and Natural Systems

Alternative(s): If the roof and HVAC projects are not funded, the facilities maintenance costs are expected to increase significantly as additional maintenance activities are required to keep the roofs from leaking and the HVAC units operating properly. Further, roof leaks increase the risk of moisture damage to buildings.
Basic Construction Costs (include permits, inspections, communications requirements, utilities, outside building, site development, other): Roof, HVAC, repair, and remodeling projects budgeted at $300,000 for FY2014-15; projects are budgeted at $400,000 each year from FY2015-16 through FY2018-19.

Other Project Costs (include land, survey, existing facility acquisition, professional services, other): To be determined.

Anticipated Additional Operating Costs/Initial (include salaries, benefits, equipment, furniture, expenses): To be determined.

Anticipated Additional Operating Costs/Continuing: To be determined.

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Program: Acquisition, Restoration and Public Works

Activity: Facilities Construction and Major Renovations

Project Title: Districtwide Parking Lot Repair and Resurfacing

Type: Resurface and Paving of Parking Lot

Physical Location: Service Offices in Sarasota and Tampa, Florida

Square Footage/Physical Description: As Listed

Expected Completion Date: 09/2016

Historical Background/Need for Project: The District currently owns and maintains over 791,750 square feet of parking lot and driveway pavement at its three office locations. This pavement and the associated stormwater management systems represent a significant capital investment. The District hired an engineering firm (Kisinger Campo & Associates Corp.) to conduct an inventory and inspection of these areas. The inspection found that preventative maintenance treatment would need to be performed to extend the life of the paved surfaces by approximately seven to ten years. This work will include repairs of depressions and potholes, double micro surfacing and crack sealing, and applied, cold in-depth recycling of existing pavement and new hot mix pavement depending on the condition of the existing asphalt. The parking lot project for the Sarasota and Tampa Service Offices are planned to be completed and funded in future years, depending upon annual budget approval, as scheduled below. There are no planned projects for FY2014-15, FY2016-17, FY2017-18 and FY2018-19.

FY2015-16
Sarasota repair/resurface  38,000 sq. ft.  $93,150
Tampa repair/resurface  236,000 sq. ft.  $336,000
Total Parking Lot Repair and Resurfacing  $429,150

Plan Linkages: Strategic Plan

Area(s) of Responsibility: Water Supply, Flood Protection, Water Quality, and Natural Systems

Alternative(s): If the Service Office projects are not funded, the paved surfaces will degrade. Eventually, the pavements will need restorative treatments rather than maintenance treatments at a significantly higher cost. If the Sarasota overflow project is not funded, parking in the grassy area will continue (during the seasonal rains, this area becomes unusable). If the Tampa paving project is not funded, the District will continue to have water flow problems and safety issues.

Basic Construction Costs (include permits, inspections, communications requirements, utilities, outside building, site development, other): Budgeted at the estimated costs of $93,150 for Sarasota repair/resurfacing and $336,000 for Tampa repair/resurfacing in FY2015-16.

Other Project Costs (include land, survey, existing facility acquisition, professional services, other): None

Anticipated Additional Operating Costs/Initial (include salaries, benefits, equipment, furniture, expenses): None

Anticipated Additional Operating Costs/Continuing: Covered under normal operating procedures.

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Program: Acquisition, Restoration and Public Works

Activity: Facilities Construction and Major Renovations

Project Title: Districtwide Carpet Replacement

Type: Carpet Replacement

Physical Location: District Headquarters in Brooksville, and Service Offices in Sarasota and Tampa; Florida

Square Footage/Physical Description: As listed

Expected Completion Date: 05/2018

Historical Background/Need for Project: As a result of the “facilities condition assessment” by the Wolf Group in FY2003-04, it was determined that due to the various ages of buildings throughout the District, carpet replacement would be an ongoing task beginning in FY2004-05.

Carpet is currently purchased through a state contract for InterfaceFLOR Cubic carpet tiles. The carpet products used are sustainable, pass the Carpet and Rug Institute (CRI) Green Label plus certification for Volatile Organic Compounds (VOC) emissions, and meet the standard for U.S. Green Building Council’s (USGBC) Leadership in Energy and Environmental Design (LEED) certification. Carpet replacement, which includes the cost of carpet installation, removal of the existing carpet, and moving and reconfiguring all existing furniture, is budgeted per the following schedule below. There are no planned projects for FY2017-18 and FY2018-19.

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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Brooksville, Building #4, 1st floor</strong></td>
<td></td>
<td>1,000 sq. yd.</td>
<td>$52,500</td>
<td></td>
<td>1,822 sq. yd.</td>
<td>95,750</td>
<td></td>
<td>2,061 sq. yd.</td>
<td>108,350</td>
<td></td>
</tr>
<tr>
<td><strong>Sarasota, Building #1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Tampa, Building #2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Brooksville, Building #6</strong></td>
<td></td>
<td>667 sq. yd.</td>
<td>$35,000</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Total Carpet Replacement</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$460,350</td>
<td></td>
</tr>
</tbody>
</table>

Plan Linkages: Strategic Plan

Area(s) of Responsibility: Water Supply, Flood Protection, Water Quality, and Natural Systems

Alternative(s): If not funded, the impact would be to keep the existing carpet in its deteriorating condition which would detract from the District’s public image.

Basic Construction Costs (include permits, inspections, communications requirements, utilities, outside building, site development, other): In FY2014-15, Tampa, Building #1 at $116,000; in FY2015-16 Brooksville, Building #4, 1st floor at $52,500, Brooksville, Building #4, 3rd floor at $95,750, Sarasota, Building #1 at $108,350, Tampa, Building #2 at $52,750; in FY2016-17 Brooksville, Building #6 at $35,000. Individual projects will be competitively negotiated.

Other Project Costs (include land, survey, existing facility acquisition, professional services, other): None

Anticipated Additional Operating Costs/Initial (include salaries, benefits, equipment, furniture, expenses): None

Anticipated Additional Operating Costs/Continuing: None
Program: Acquisition, Restoration and Public Works

Activity: Facilities Construction and Major Renovation

Project Title: District Site Survey

Type: Site Survey

Physical Location: Service Office in Tampa, Florida

Square Footage/Physical Description: N/A

Expected Completion Date: 9/30/2016 (for the site survey)

Historical Background/Need for Project: The Tampa Service Office is centrally located within the District. The site consists of approximately 21 acres and has 704,000 square feet of buildings under roof, including 46,000 square feet of office and meeting space. As a result of District staff being relocated to the Tampa Service Office, there is limited office and public meeting space, and insufficient parking areas.

The site survey will assess whether the District requires additional office space and parking areas at the Tampa Service Office and, if so, recommend the possible site locations. A site master survey would include a drainage study, geotechnical study, site circulation study, traffic and parking study, utility study, site conditions study, site build out plan, and site plan approval by the Hillsborough County and the Florida Department of Environmental Protection.

Plan Linkages: Strategic Plan

Area(s) of Responsibility: Water Supply, Flood Protection, Water Quality, and Natural Systems

Alternative(s): The impact if not funded is to continue operating with the existing office space and parking areas at the Tampa Service Office.

Basic Construction Costs (include permits, inspections, communications requirements, utilities, outside building, site development, other): None

Other Project Costs (include land, survey, existing facility acquisition, professional services, other): The cost estimate for this site survey and design is currently budgeted at $200,000 for FY2013-14; and $100,000 each year for FY2014-15 and FY2015-16.

Anticipated Additional Operating Costs/Initial (include salaries, benefits, equipment, furniture, expenses): None

Anticipated Additional Operating Costs/Continuing: Covered under normal operating procedures.

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Costs</td>
<td>$100,000</td>
<td>$100,000</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>
Program: Acquisition, Restoration and Public Works

Activity: Facilities Construction and Major Renovation

Project Title: Data Center Telecommunications Reconfiguration

Type: Telecommunications Reconfiguration

Physical Location: District Headquarters, Brooksville, Florida

Square Footage/Physical Description: As Required

Expected Completion Date: 9/2016

Historical Background/Need for Project: The main hub of telecommunications for District Headquarters is through Building #1 which is currently being reviewed for decommissioning. Building #1 was originally constructed in 1964, does not meet current code in multiple disciplines, and is susceptible to water infiltration in several areas. In order to perform this decommissioning, all telecommunication services must be relocated to Building #2.

FY2015-16
Services to reconfigure telecommunications $100,000
Hardware to reconfigure telecommunications $110,000

Plan Linkages: Strategic Plan

Area(s) of Responsibility: Water Supply, Flood Protection, Water Quality, and Natural Systems

Alternative(s): If not funded, the impact would be to continue telecommunication service through Building #1 in its deteriorating condition.

Basic Construction Costs (include permits, inspections, communications requirements, utilities, outside building, site development, other): Service and hardware reconfiguration budgeted at $210,000 in FY2015-16.

Other Project Costs (include land, survey, existing facility acquisition, professional services, other): None

Anticipated Additional Operating Costs/Initial (include salaries, benefits, equipment, furniture, expenses): None

Anticipated Additional Operating Costs/Continuing: Covered under normal operating procedures.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$0</td>
<td>$210,000</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>
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Introduction

Where Water Resource Caution Areas have been designated, Section 373.707(2), Florida Statutes (F.S.), requires the governing boards of the water management districts to include in their annual budgets an amount for the development of alternative water supply systems, including reclaimed water systems. The section, as well as 2005 legislation related to the Water Protection and Sustainability Trust Fund (Subsection 373.707(8)(n), F.S.), further requires that each district submit an annual alternative water supply report to the Governor, the President of the Senate, and the Speaker of the House of Representatives by March 1 of each year. This report describes all funded projects and accounts for funds provided through grants, matching grants, revolving loans, and the use of Southwest Florida Water Management District (District) lands or facilities. The District has designated Water Resource Caution Areas and has implemented alternate water supply funding pursuant to the Florida Statutes. This report is submitted pursuant to the related statutes (Sections 373.707, 373.036, and 403.890, F.S.). Because of the unique organization of the District and its past accomplishments in the areas of water conservation and alternative water source development, the following is provided as background information.

Background

Prior to mid-2011, the District was unique among Florida’s water management districts in that, beyond the similar structure of the governing boards, it had eight basins with jurisdictional boundaries encompassing its major watersheds (Figure 1). In 2011, the structure of the District was changed to be consistent with the other water management districts, with the Governing Board taking over the responsibilities of the Basin Boards. Funds remaining in the former Basin Board budgets continue to be allocated to projects within the Basin boundaries. The Governing Board has the authority to levy ad valorem taxes up to 1.0 mill within its boundary. Budget development and approval follow the public hearing and adoption process as required by state law.

The District has been providing local funds for regional water resource-related projects since its creation in 1961. Originally, the focus of the District had been on funding flood control projects. In the late 1980s, the priorities began to shift to the identification and funding of projects that focus on water conservation and the development of alternative water sources. Currently, staff and financial resources are focused on issues of water quality, natural systems improvement, flood protection, and water supply including water conservation and alternative water source development.

Before the late 1980s, participation in local water resource projects, both financial and staff support, was primarily driven by requests from local governments. Recognizing the ability to support local governments by providing solutions to the growing issues surrounding water supply, the District adopted a more pro-active role in addressing local non-regulatory water issues. In response to the need for a set system for receiving project assistance requests and criteria regarding timing, project eligibility, funding, and other conditions for participation, the Cooperative Funding Initiative was established in recognition of the growing need for a structured approach in order to maximize the District’s effectiveness in choosing and funding water resource projects and budgeting for their completion.
Figure 1. District Map
Cooperative Funding Initiative

A structured program for solicitation of requests for local water resource projects was established in the District in 1987. Since then, the District has continued to refine its policies in response to changing goals and priorities. As a result, the District has made noteworthy strides in the areas of water conservation and alternative water sources development.

Although the aforementioned statutes do not require the water management districts to provide information on funding of those projects initiated or completed prior to 1996, a summary of the accomplishments in a few areas of water conservation will provide the recipients of this report with an understanding of the effectiveness of the District’s programs. It should be noted that the District also funds water conservation and alternative water source development projects in addition to those covered by the statutory definitions. Examples of major water conservation efforts are summarized in the District’s *Reuse and Conservation Projects Summary Report* (SWFWMD, 2011).

Summary of Reuse Projects

Table 1 shows the significant historical financial contributions and alternative water quantities made available as a result of District participation in more than 357 reuse projects since fiscal year (FY) 1987.

The District is involved in many other programs besides those specifically defined in the statute, which are also saving significant amounts of water. Some program examples are leak detection, drought tolerant landscaping, ultra low-flow toilet rebates, water saving ordinance development, industrial and residential water audits, landscape irrigation system efficiency, the Facilitating Agricultural Resource Management Systems (FARMS) Program, and many others, including major public education efforts.

<table>
<thead>
<tr>
<th>District Funded Reclaimed Water Projects</th>
<th>Available Reclaimed Water (mgd)</th>
<th>Water Resource Benefit (mgd)</th>
<th>Million Gallons of Storage (mg)</th>
<th>Miles of Pipe</th>
<th>Amount ($) Budgeted by District*</th>
<th>Total Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>357 Projects</td>
<td>244</td>
<td>114 – 129</td>
<td>1,275</td>
<td>957</td>
<td>$408,310,000</td>
<td>$927,326,000</td>
</tr>
</tbody>
</table>

Sources:

Notes:
Amounts do not include water supply projects funded as a result of the Partnership Agreements.
Totals are per Board approved budgets and do not include District project management expenses.
*FY1987-FY2015 total of 357 budgeted projects funded through Basin Boards and Governing Board (all projects funded in FY2012 and beyond are funded through the Governing Board approval).
New Water Sources Initiative

In 1993, the District Governing Board recognized the need to accelerate the development of alternative water sources to address the water resource impacts identified in the Southern Water Use Caution Area (SWUCA) and the Northern Tampa Bay Water Use Caution Area. The program solicited requests for large, regionally significant projects that would develop non-traditional (other than groundwater) sources to replace existing use or provide for future growth. The Governing Board initiated the New Water Sources Initiative (NWSI) program with a $10 million commitment beginning in FY1994. This program was in addition to the Cooperative Funding Initiative.

Eligible NWSI projects generally received 25 percent of their funding from the District’s Governing Board, 25 percent from appropriate Basin(s), and the remaining 50 percent from the local cooperator(s). The 25 percent Basin contribution may be split among two or more basins, depending on the geographic area served by the project. The 22 completed projects funded through the NWSI program were administered pursuant to legislative directives to promote and fund alternative source development. The NWSI projects received more than $60 million in District funding to provide as much as 206 million gallons per day (mgd) of water resource benefits, reduce groundwater withdrawals, rehydrate stressed lakes and wetlands, increase groundwater recharge, enhance wildlife habitat, and improve flood control.

Water Supply and Resource Development Projects

As a means to facilitate the implementation options identified in the District Regional Water Supply Plan (SWFWMD, 2001) or similar projects, the Governing Board and the previous Basin Boards initiated another funding opportunity in FY2001 to address large-scale water supply and resource development projects with multiple cooperators and regional benefits. The Water Supply and Resource Development (WSRD) projects receive funding from the Governing Board, multiple Basins, and local cooperators. Depending upon the size and scope of the project, some WSRD projects may also involve additional state and federal funding. Many WSRD projects in the Tampa Bay area were funded by the District Basin Boards according to the same formula used in the Partnership Agreement, as the projects were expected to replace the need for additional traditional water supply infrastructure for Tampa Bay Water. The financial formula was reflective of the proportional benefits anticipated to be realized by each of the basins, and the collective Basin Board funding was then matched by the Governing Board. As such, eligible WSRD projects generally received 25 percent of their funding from the District’s Governing Board, 25 percent from the collective Basin Boards, and the remaining 50 percent from local cooperators.

Active Water Supply and Resource Development Projects

Table 2 identifies the list of active WSRD projects, the total project costs, District funding contribution commitment, and water provided. As with the Cooperative Funding Initiative and the NWSI, some projects identified in the table may fall outside the requirements of Florida Statutes as to what is considered an alternative source, yet the information is important in understanding the SWFWMD’s role in the area of funding water resource protection and development projects.

FARMS Program

The Facilitating Agricultural Resource Management Systems (FARMS) Program is an agricultural best management practice (BMP) cost-share reimbursement program that involves both water quantity and water quality aspects. This public/private partnership program was developed by the District and the Florida Department of Agriculture and Consumer Services. The purpose of the FARMS Program is to implement production-scale agricultural BMP projects that will provide resource benefits that include water quality improvement, reduction of Upper Floridan aquifer withdrawals and/or conservation, restoration or augmentation of the area’s water resources and ecology.
### Table 2. Active Water Supply and Resource Development Projects

<table>
<thead>
<tr>
<th>Project (project number)</th>
<th>Local Cooperator</th>
<th>Total Cost ($)</th>
<th>SWFWMD Contribution* ($)</th>
<th>Water Provided** (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Hancock Lake Level Modification (H008)</td>
<td>District</td>
<td>$11,170,944</td>
<td>$11,170,944</td>
<td>2.70</td>
</tr>
<tr>
<td>Lake Hancock Outfall Wetland Treatment System (H014)</td>
<td>District, USEPA</td>
<td>$24,465,800</td>
<td>$23,692,100</td>
<td>Treatment</td>
</tr>
<tr>
<td>Facilitating Agricultural Resource Management Systems &quot;FARMS,&quot; includes 163 different projects (H017)</td>
<td>State of Florida, FDACS, Variety of Ag. Operations, District</td>
<td>$58,770,000</td>
<td>$31,735,000</td>
<td>25.50</td>
</tr>
<tr>
<td>Pasco Co Boyette Reclaimed Reservoir (H056)</td>
<td>Pasco County</td>
<td>$39,200,000</td>
<td>$12,915,980</td>
<td>Storage</td>
</tr>
<tr>
<td>Withlacoochee Watershed Initiative (H066)</td>
<td>District</td>
<td>$3,350,000</td>
<td>$3,350,000</td>
<td>TBD</td>
</tr>
<tr>
<td>Lake Hancock Land Acquisition Primarily to Raise Lake Levels (H071)</td>
<td>District</td>
<td>$41,914,416</td>
<td>$41,914,416</td>
<td>TBD</td>
</tr>
<tr>
<td>TECO’s Polk Power Station Reclaimed Water Interconnects to Lakeland/Polk County/Mulberry (H076)</td>
<td>Tampa Electric Co.</td>
<td>$96,960,725</td>
<td>$50,243,394</td>
<td>10.00</td>
</tr>
<tr>
<td>Charlotte County Regional Reclaimed Water Expansion Phase 2 (H085)</td>
<td>Charlotte County</td>
<td>$2,800,000</td>
<td>$1,485,400</td>
<td>TBD</td>
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<tr>
<td>Flatford Swamp Hydrologic Restoration/Implementation (H089)</td>
<td>Mosaic Corp.</td>
<td>$48,000,000</td>
<td>$48,000,000</td>
<td>6.00</td>
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<tr>
<td>Pasco County Reclaimed Water Natural Systems Restoration and Aquifer Recharge (H092)</td>
<td>Pasco County</td>
<td>$16,443,782</td>
<td>$8,221,891</td>
<td>5.00</td>
</tr>
<tr>
<td>Manatee County 10 mg RW Storage (H093)</td>
<td>Manatee County</td>
<td>$7,179,284</td>
<td>$3,908,554</td>
<td>Storage</td>
</tr>
<tr>
<td>Lower Hillsborough River Recovery Strategy Implementation (H400)</td>
<td>City of Tampa</td>
<td>$16,397,260</td>
<td>$8,259,730</td>
<td>TBD</td>
</tr>
<tr>
<td>Lower Hillsborough River Recovery Strategy-TBC Pump Stations (H402)</td>
<td>City of Tampa</td>
<td>$2,794,078</td>
<td>$2,794,078</td>
<td>0.64</td>
</tr>
<tr>
<td>Polk County Partnership (H094)</td>
<td>District</td>
<td>$160,000,000</td>
<td>$160,000,000</td>
<td>20.00</td>
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<tr>
<td><strong>Totals</strong></td>
<td></td>
<td>$529,446,289</td>
<td>$407,691,487</td>
<td>&gt;69.84</td>
</tr>
</tbody>
</table>

*Totals may represent multiyear funding, and may include contributions from multiple Boards and Funds (WPSTF, WRAP and others).

**In order to be consistent with other water management districts and FDEP, the water provided equals water supplied by projects and does not represent replaced water quantities.

Table includes only “Active” projects as of October 1, 2014 (does not include completed projects).

Does not include Partnership Agreement projects. (See page 10)

Totals are per Board approved budgets and do not include District project management expenses.
Water Protection and Sustainability Trust Fund

Large areas of Florida do not have sufficient traditional water resources to meet the future needs of the state’s growing population and the needs of the environment, agriculture, and industry. In 2005, the Florida Legislature recognized the need to accelerate the development of alternative water sources, and consequently passed legislation creating the Water Protection and Sustainability Trust Fund (WPSTF). The legislation focused on encouraging cooperation in the development of alternative water supplies and improving the linkage between local governments’ land use plans and water management districts’ regional water supply plans.

The state of Florida allocated $100 million in FY2005-2006, with $25 million allocated to the District. In FY2007 the state funding was $60 million, with $15 million allocated to the District. In FY2008 the state funding was $51.4 million, with $13 million allocated to the District. In FY2009 the state funding was reduced due to economic conditions, with $750 thousand allocated to the District. In FY2010-2011, 2012, 2013, 2014 and 2015 there were no state funds allocated for WPSTF. Future annual state funding may potentially resume upon the resolution of the current economic downturn. Funding will be expended on a reimbursement basis for construction costs of alternative water supply development projects as defined in the legislation. The legislation also requires that a minimum of 80 percent of the WPSTF funding must be related to projects identified in a district water supply plan. The District’s Regional Water Supply Plan (RWSP) is utilized in the identification of the majority of WPSTF-eligible projects. Identified projects are further evaluated as to their suitability for this funding program. The identification of alternative water supply development projects in the RWSP does not guarantee funding assistance through this funding program.

Projects were evaluated for funding based on consideration of the 12 factors described in Subsections 373.707(8)(f) and (g), F.S., and additional District evaluation factors as appropriate. Funding for each project is equivalent to up to 40 percent of construction costs. Projects funded through this program may also receive funding from other sources such as the Governing Board, multiple Basin Boards, federal agencies and local cooperators.

Water Protection and Sustainability Trust Fund Projects

The state did not allocate any WPSTF-related funds in FY2015. The District anticipates that, should the state resume funding, projects will be identified through its ongoing cooperative funding programs, which have been funding alternative water supply development for two decades. Additional projects, developed in cooperation with regional water supply authorities and their member governments, are also anticipated to be identified in the future to be eligible to receive funds.

Table 3 identifies the list of all FY2006-FY2009 WPSTF projects, including District funding, cooperator funding, funding from other sources as well as the amount of water provided. The scope and breadth of the WPSTF projects is immense, as evident by the more than 60 mgd of water provided of which more than 40 mgd in potable water supplies, and the more than 20 mgd in reclaimed water supply that will be realized upon their completion. Some projects identified in the table are also listed in other tables, depending upon the source of District funding. The Appendix of this report contains a brief description of the projects identified in Table 3.
Table 3. Water Protection and Sustainability Trust Fund Projects

<table>
<thead>
<tr>
<th>Project (project number)</th>
<th>Local Cooperator</th>
<th>State WPSTF Contribution &amp; Fiscal Year ($ &amp; FY)</th>
<th>Total* SWFWMD Contribution ($)</th>
<th>Total* Local Cooperator Contribution ($)</th>
<th>Total Project Cost ($)</th>
<th>Water Provided** (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peace River Regional Reservoir Expansion (F032)</td>
<td>PRMRWSA</td>
<td>$7,095,976 FY2006 $2,480,945 FY2008</td>
<td>$29,053,918</td>
<td>$38,418,817</td>
<td>$77,049,655</td>
<td>14.70</td>
</tr>
<tr>
<td>Peace River Regional Facility Expansion (F033)</td>
<td>PRMRWSA</td>
<td>$12,161,596 FY2006 $3,756,693 FY2008</td>
<td>$28,109,508</td>
<td>$46,115,403</td>
<td>$90,143,200</td>
<td>included in F032 amounts above</td>
</tr>
<tr>
<td>Lake Hancock Outfall Structure P-11 (H009)</td>
<td>District</td>
<td>$1,000,000 FY2006 $4,500,000 FY2008</td>
<td>$0</td>
<td>$5,500,000</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>Charlotte County Regional Reclaimed Water (H027)</td>
<td>Charlotte County</td>
<td>$400,000 FY2006 $680,010 FY2008</td>
<td>$3,084,995</td>
<td>$3,084,995</td>
<td>$7,250,000</td>
<td>1.27</td>
</tr>
<tr>
<td>Pasco County SE Regional Reclaimed Water (H041)</td>
<td>Pasco County</td>
<td>$239,405 FY2006</td>
<td>$1,268,391</td>
<td>$1,629,512</td>
<td>$3,137,308</td>
<td>TBD</td>
</tr>
<tr>
<td>PRMRWSA Reg Integ Loop Ph2 (H051)</td>
<td>PRMRWSA</td>
<td>166,031 FY2008</td>
<td>$7,616,984</td>
<td>$7,616,985</td>
<td>$15,400,000</td>
<td>TBD</td>
</tr>
<tr>
<td>PRMRWSA Reg Integ Loop Ph3a (H052)</td>
<td>PRMRWSA</td>
<td>$166,031 FY2008</td>
<td>$13,659,104</td>
<td>$13,659,105</td>
<td>$27,484,240</td>
<td>TBD</td>
</tr>
<tr>
<td>Pasco Co. SR52 E/W Reclaimed Interconnect (H055)</td>
<td>Pasco County</td>
<td>$1,240,000 FY2008</td>
<td>$8,680,000</td>
<td>$8,680,000</td>
<td>$18,600,000</td>
<td>6.00</td>
</tr>
<tr>
<td>Pasco Co. Boyette Reuse Reservoir (H056)</td>
<td>Pasco County</td>
<td>$284,450 FY2008</td>
<td>$12,631,530</td>
<td>$26,284,020</td>
<td>$39,200,000</td>
<td>TBD</td>
</tr>
<tr>
<td>Tampa Bay Water System Configuration II (H065)</td>
<td>Tampa Bay Water</td>
<td>$506,854 FY2006 $15,000,000 FY2007</td>
<td>$111,371,573</td>
<td>$120,815,912</td>
<td>$247,694,339</td>
<td>25.00</td>
</tr>
<tr>
<td>Pasco Co. Shady Hills Reclaimed Interconnect (H067)</td>
<td>Pasco County</td>
<td>$592,000 FY2008</td>
<td>$6,263,246</td>
<td>$6,263,247</td>
<td>$13,118,493</td>
<td>TBD</td>
</tr>
<tr>
<td>Peace River Regional Loop Charlotte to Punta Gorda (H089)</td>
<td>PRMRWSA</td>
<td>$43,541 FY2006</td>
<td>$11,627,789</td>
<td>$10,124,926</td>
<td>$21,796,256</td>
<td>TBD</td>
</tr>
<tr>
<td>Charlotte Co. East/West Connection (H085)</td>
<td>Charlotte County</td>
<td>$90,900 FY2006 $80,000 FY2008</td>
<td>$1,314,550</td>
<td>$1,314,550</td>
<td>$2,800,000</td>
<td>TBD</td>
</tr>
<tr>
<td>Manatee Co. SW 10 mg Reclaimed Water Tank (H093)</td>
<td>Manatee County</td>
<td>$635,752 FY2006 $2,072 FY2008</td>
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<td>Project (project number)</td>
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<td>Total* SWFWMD Contribution ($)</td>
<td>Total* Local Cooperator Contribution ($)</td>
<td>Total Project Cost ($)</td>
<td>Water Provided**</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------------------------------------------</td>
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<td>Bradenton Potable ASR (K114)</td>
<td>City of Bradenton</td>
<td>$56,400 FY2006</td>
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<td>North Sarasota County Reclaimed ASR's (K269)</td>
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<td>St. Pete NW&amp;SW Reuse Tanks, Pumps, Telemetry (K847)</td>
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<td>Lake Placid Reuse (L153)</td>
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<td>Englewood WD Stillwater Reuse Trans. (L652)</td>
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<td>City of Clearwater Skycrest Reclaimed Trans., Distr., Pumping &amp; Storage (L695)</td>
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<td>City of Dunedin Reuse Trans. &amp; Dist. (L697)</td>
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<td>Total* SWFWMD Contribution ($)</td>
<td>Total* Local Cooperator Contribution ($)</td>
<td>Total Project Cost ($)</td>
<td>Water Provided** (mgd)</td>
</tr>
<tr>
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<td>Pasco Overpass Rd. Reuse Trans. (L729)</td>
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<td>South Brooksville Reuse Phase II (L781)</td>
<td>Levitt and Sons</td>
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<td>On Top of the World Marion Reclaimed Water (L786)</td>
<td>Sidney Colen Ltd</td>
<td>$155,800 FY2008</td>
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<td>Plant City Sydney Road Reuse (L816)</td>
<td>City of Plant City</td>
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<td>$2,589,100</td>
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<td>City of Oldsmar Reclaimed Distr. &amp; Telemetry (L821)</td>
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<td>Haines City Southern Reuse (N065)</td>
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<td>$246,328 FY2006, $2,072 FY2007, $361,880 FY2009</td>
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<td><strong>Totals</strong></td>
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<td></td>
<td><strong>$537,500,000</strong></td>
<td><strong>275,379,833</strong></td>
</tr>
</tbody>
</table>

*Totals may represent multi-year funding, and may include past, current and future contributions from multiple Boards and sources (does not include WPSTF funding).

**In order to be consistent with other water management districts and FDEP, the water provided equals water supplied by projects and does not represent replaced water quantities.

Totals are per Board approved budgets and do not include District project management expenses.
The Partnership Agreements

The Northern Tampa Bay New Water Supply and Groundwater Withdrawal Reduction Agreement (NTB Partnership Agreement) provided for the development of new and alternative water supply and reduction of pumpage from Tampa Bay Water’s Northern Tampa Bay wellfields.

NTB Background

Floridians rely on groundwater, pumped from underground aquifers, as their principal water supply source. In the Tampa Bay region, an over-reliance on groundwater resulted in adverse environmental impacts to lakes, wetlands, and the ecology. This led to years of conflict between water regulators, water suppliers, and property owners. Many of these conflicts were aired in administrative hearings and the court systems for years without resolution.

Seeking a cooperative solution to the region’s water problems, the District proposed a collaboration of agencies including the District, Tampa Bay Water (formerly known as the West Coast Regional Water Supply Authority), and its six member governments (Hillsborough County, Pinellas County, Pasco County, and the cities of Tampa, St. Petersburg, and New Port Richey) for the development of new water supply and phased reduction of pumping from the 11 central system wellfields. Discussions of the plan began in 1997. After many months of negotiations, the "Partnership Agreement" was executed by all parties on May 27, 1998.

Objectives of the NTB Partnership Agreement

The Partnership Agreement had four objectives: (1) Develop at least 85 mgd of new water supply by December 31, 2007, of which 38 mgd must be produced by December 31, 2002; (2) Reduce groundwater pumpage at 11 wellfields from 158 mgd to 121 mgd by 2002 and to 90 mgd by 2008; (3) End existing and minimize future litigation; and (4) Provide funding to assist in the development of the new alternative supply.

Elements of the NTB Partnership Agreement

To assist Tampa Bay Water to meet the goal of developing at least 85 mgd of new water supply, the District committed $183 million in funding assistance to develop new alternative water supply sources. Projects eligible for District funding included seawater desalination, surface water supply facilities, indirect potable reuse, and inter-connecting pipelines.

In addition, the District committed to provide approximately $90 million over ten years toward conservation projects within the Tampa Bay area. The District funding goal was matched by Tampa Bay Water and local governments. The Partnership Agreement also included conservation goals to reduce regional water use by 10 mgd by 2000, and by an additional 7 mgd by 2005.

The Partnership Agreement required Tampa Bay Water to develop a “New Water Plan.” The New Water Plan described projects which, upon construction, met the objective of developing at least 38 mgd of new supply by 2003 (December 31, 2002), and at least 85 mgd of new water per day by 2008. The New Water Plan was approved by District and a list of 9 projects that were “eligible” for District funding was provided to Tampa Bay Water. A key element of the Partnership Agreement was the implementation of a recovery strategy for the Northern Tampa Bay area. Under the Partnership Agreement, groundwater pumpage at the 11 wellfields was reduced from permitted quantities of 158 mgd to 90 mgd by 2008. Water use permits for the 11 wellfields have been consolidated into a single permit. As part of the recovery strategy, Tampa Bay Water also optimizes water production from the wellfields to minimize environmental impacts.
Additional Tampa Bay Water Project Agreements

In FY2006-FY2011 the District provided an additional $126 million in grant funding for the $247 million Tampa Bay Water System Configuration II Project, which developed 25 mgd of new surface water supplies.

A New Partnership Agreement In Polk County

In 2012 the District began coordinating with Polk County on a Partnership Agreement (H094) that is modeled after the NTB Partnership Agreement. The Polk partnership agreement will provide financial assistance, permit coordination, development of new and alternative water supplies, and the regionalization of water supplies in Polk County. The goal is to provide an annual average of at least 30 mgd in new alternative water supplies from eligible projects to be used by Polk and its municipalities by December 31, 2041.

2015 Annual Report Information

As defined in the Florida Statutes, alternative water supplies are “salt water; brackish surface and groundwater; surface water captured predominately during wet-weather flows; sources made available through the addition of new storage capacity for surface or groundwater; water that has been reclaimed after one or more public supply, municipal, industrial, commercial, or agricultural uses; the downstream augmentation of water bodies with reclaimed water; stormwater; and any other water supply source that is designated as nontraditional for a water supply planning region in the applicable regional water supply plan.” The statutory definition has changed in recent years. As a result traditional surface water projects are not included in this section of the report. They are included in Tables 2 and 3. Pursuant to the requirements of the statutes, the following tables and associated narrative identify the other projects, associated funding, and provide a short description of their benefits.

SWFWMD Budgeted Amounts

Table 4 summarizes the total annual budgeted amounts for the past ten fiscal years (FY2006-2015) by the District for alternative water supply category projects. The funding of projects requiring large capital investments with construction spanning several years is usually spread out over multiple fiscal years due to the need to have funds available when costs are expected to occur, and to the annual funding amounts available in the budgets of each basin or the Governing Board.

Note: The funding amounts shown, as in subsequent tables, represent only District contributions; equal or exceeding matching funds are provided by the cooperator.

Funding Classification

Table 5 classifies the FY2006-2015 budgeted amounts into funding types. As indicated, the District’s funding focus has been on matching programs.
### Table 4. District Budgeted Amounts

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reclaimed Wastewater</td>
<td>$29,378,507</td>
<td>$19,862,511</td>
<td>$18,110,037</td>
<td>$25,751,413</td>
<td>$19,672,706</td>
<td>$17,088,388</td>
<td>$15,380,739</td>
<td>$19,294,703</td>
<td>$21,691,124</td>
<td>$21,824,760</td>
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<tr>
<td>Reclaimed Stormwater</td>
<td>$1,219,250</td>
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<td>$513,828</td>
<td>$621,675</td>
<td>$1,310,000</td>
<td>$115,000</td>
<td>$210,000</td>
<td>$250,000</td>
<td>$1,809,909</td>
<td>$2,100,000</td>
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<tr>
<td>Desalination of Brackish Water</td>
<td>$16,834</td>
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<td>$4,150,000</td>
<td>$12,570,948</td>
<td>$14,674,875</td>
<td>$5,674,256</td>
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<td>$5,417,120</td>
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<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<td>Indirect Potable Reuse</td>
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<td>$0</td>
<td>$0</td>
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<td>$486,374</td>
<td>$893,125</td>
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<td>$1,554,000</td>
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<td>Desalination of Seawater</td>
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<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<td>Allocated WPSTF</td>
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<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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</table>

**All FY2006-2007 Indirect Potable Reuse and Desalination of Seawater funding was reallocated to the NTB Partnership Agreement Projects. Totals are per Board approved budgets and do not include District project management expenses.**

### Table 5. Funding Classification

<table>
<thead>
<tr>
<th></th>
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<td>$0</td>
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<td>$0</td>
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</table>
Alternative Source Type: Wastewater Reuse

In funding reclaimed water projects, the District requires that at least 50 percent of the reclaimed water supplied must replace existing or planned ground or surface water withdrawals in order to qualify for funding consideration (projects funded after FY2009 are required to achieve a system-wide minimum of 60 percent efficiency). These requirements are intended to increase the efficiency of reclaimed water projects to reduce the use of potable quality water for outdoor landscape irrigation and, where allowed by state regulations, to provide an alternative source for agricultural irrigation.

Table 6 lists Cooperative Funding Initiative, NWSI, WSRD and WPSTF reuse projects that will receive funding in FY2015. The table also identifies funds allocated in FY2015 by the Basin(s) and the Governing Board, and includes the total funding commitment of the District. The total funding commitment represents previous and projected year funding by the District. Funding of projects requiring large capital investments with construction spanning several years is usually spread out over multiple fiscal years as addressed earlier. Table 6 also includes the projected alternative supply amount (gallons) provided by the project. The Appendix of this report contains a brief description of the projects identified in Table 6.
<table>
<thead>
<tr>
<th>Project Name (project number)</th>
<th>FY2015 Basin(s)</th>
<th>FY2015 Governing Board</th>
<th>FY2015 WPSTF</th>
<th>FY2015 Total Amount***</th>
<th>Total District Amount**</th>
<th>Total Project Cost</th>
<th>Gallons Provided* (gpd)</th>
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</thead>
<tbody>
<tr>
<td>TECO’s Polk Power Station Reclaimed Water Lakeland/Polk County/Mulberry Project (H076)</td>
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<td>Pasco Boyette Reclaimed Water Reservoir (H056)</td>
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<td>$3,498,755</td>
<td>$12,915,980</td>
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<td>Pasco Meadowpoint Reuse (N464)</td>
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<td>Manatee SE 10 mg Reuse Tank (N488)</td>
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<td>Tarpon Springs Telemetry, Storage, Pumping (N494)</td>
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<td>$1,765,183</td>
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<td>Aubumdale Polytechnic Reclaimed Water Storage and Transmission Project (N536)</td>
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<td>Pasco Heritage Pines Residential Reclaimed Water (N547)</td>
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<td>Marion Co. Oak Run to JB Ranch Reclaimed (N596)</td>
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<td>Hillsborough/Tampa/Pant City/Temple Terrace Regional Reuse Feasibility Phase II (N601)</td>
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<td>Venice to Sarasota Co. Reclaimed Interconnect Feasibility (N604)</td>
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<td>Pasco Quail Hollow GC Reclaimed Water (N629)</td>
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<td>Pasco Rod Lincoln Groves Reclaimed Water (N630)</td>
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<td>$200,000</td>
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<td>Pasco Crews Lake Restoration (N635)</td>
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<td>$220,159</td>
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<td>Pasco Shady Hills Reclaimed Water Storage Tank (N649)</td>
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<td>$250,000</td>
<td>$2,000,000</td>
<td>$2,000,000</td>
<td>Storage</td>
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<td>Hillsborough 19th Ave Reclaimed Water (N652)</td>
<td>$350,000</td>
<td></td>
<td>$0</td>
<td>$350,000</td>
<td>$1,350,000</td>
<td>$2,700,000</td>
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<tr>
<td>Pasco Altman Groves Reclaimed Water (N654)</td>
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<td>$180,000</td>
<td>$180,000</td>
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<tr>
<td>Pasco Wetland/Recharge (N666)</td>
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<td>$384,500</td>
<td>$0</td>
<td>$384,500</td>
<td>$33,600,000</td>
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<tr>
<td>North Port Phase 3 Reclaimed Water (N667)</td>
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<td>$0</td>
<td>$33,000</td>
<td>$660,000</td>
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<td>Pasco Starkey Ranch Reclaimed Water (N670)</td>
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<td>Zephyrhills Advanced Reclaimed Water Quality/Recharge (N672)</td>
<td>$0</td>
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<td>$0</td>
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<td>TBD</td>
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<td>Bushnell/Bethel Farms Advanced Reclaimed Water Quality/Reuse (N673)</td>
<td>$0</td>
<td>$909,833</td>
<td>$0</td>
<td>$909,833</td>
<td>$1,409,833</td>
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<td>Citrus Sugarmill Woods Advanced Reclaimed Water Quality/Reuse (WC02)</td>
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<td>$0</td>
<td>$4,000,000</td>
<td>$6,000,000</td>
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<td><strong>Totals</strong></td>
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<td><strong>$15,063,788</strong></td>
<td><strong>0</strong></td>
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<td><strong>$111,853,740</strong></td>
<td><strong>$230,087,624</strong></td>
<td><strong>&gt;18,490,000</strong></td>
</tr>
</tbody>
</table>

***Total represents FY2015 SWFWMD budgeted amounts.  
**Total District commitment represents projects that have been or will be funded over multiple years and may include WPSTF, WRAP, SPRINGS or other funding.  
*Represents total project gallon amounts (gpd). Table includes only "Active" projects as of October 1, 2014. 
Note: Table 6 does not include Indirect Potable Reuse projects which are included in Table 9.  
Totals are per Board approved budgets and do not include District project management expenses.
**Alternative Source Type: Reclaimed Stormwater**

In funding reclaimed stormwater projects, the District requires that at least 50 percent of the reclaimed water must replace existing or planned ground or surface water withdrawals in order to qualify for funding consideration. This requirement is intended to increase the efficiency of reclaimed water projects to reduce the use of potable quality water for outdoor landscape irrigation and, where allowed by state regulations, to provide an alternative source for agricultural irrigation.

Table 7 identifies the reclaimed stormwater projects that will receive funding in FY2015. The table also identifies funds allocated in FY2015 by Basin(s) and the Governing Board, and includes the total funding commitment of the District. The total funding commitment represents previous and projected year funding by the District. As previously stated, funding of projects requiring large capital investments with construction spanning several years is spread out over multiple years. Table 7 also includes the projected alternative supply amount (gallons) provided by the projects. The Appendix of this report contains a brief description of the projects identified in Table 7.

**Table 7. Alternative Source Type: Reclaimed Stormwater**

<table>
<thead>
<tr>
<th>Project Name (project number)</th>
<th>Budgeted Amounts</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY2015 Basin(s)</td>
<td>FY2015 Governing Board</td>
<td>FY2015 WPSTF</td>
<td>FY2015 Total Amount***</td>
<td>Total District Amount**</td>
<td>Total Project Cost</td>
</tr>
<tr>
<td>DeSoto to Punta Gorda Regional Loop (N416)</td>
<td>$0</td>
<td>$250,000</td>
<td>$0</td>
<td>$250,000</td>
<td>$7,000,000</td>
<td>$14,000,000</td>
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<tr>
<td>Bradenton Surface Water ASR (N435)</td>
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<td>PRM RWSA 3 mgd Expansion Phase I (N671)</td>
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<td>$0</td>
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<td>$3,000,000</td>
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<tr>
<td><strong>Totals</strong></td>
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<td><strong>$2,100,000</strong></td>
<td><strong>$12,625,000</strong></td>
<td><strong>$23,750,000</strong></td>
</tr>
</tbody>
</table>

***Total represents District FY2015 budgeted amounts.

**Total District commitment represents projects that have been or will be funded over multiple years, may include prior WPSTF, WRAP or other funding.

*Represents total project gallon amounts (gpd). Table includes only "Active" projects as of October 1, 2014.

Totals are per Board approved budgets and do not include District project management expenses.
Alternative Source Type: Desalination of Brackish Water

Table 8 identifies the desalination of brackish water projects that will receive funding in FY2015. The table also identifies funds allocated in FY2015 by the Basin(s) and the Governing Board, and includes the total funding commitment of the District. The total funding commitment represents previous and projected year funding by the District. The funding of most projects requiring large capital investments with construction spanning several years is spread out over multiple fiscal years. Table 8 also includes the projected alternative supply amount (gallons) provided by the projects. The Appendix of this report contains a brief description of the projects identified in Table 8.

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Budgeted Amounts</th>
<th>Gallons Provided* (gpd)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY2015 Basin(s)</td>
<td>FY2015 Governing Board</td>
</tr>
<tr>
<td>Clearwater Brackish RO (N176)</td>
<td>$4,392,855</td>
<td>$0</td>
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<tr>
<td>Punta Gorda Brackish Groundwater Study (N600)</td>
<td>$0</td>
<td>$1,500,000</td>
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<tr>
<td>Charlotte Burnt Store Wellfield Study (N605)</td>
<td>$0</td>
<td>$12,500</td>
</tr>
<tr>
<td>Polk County Partnership (H094)</td>
<td>$0</td>
<td>$10,000,000</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$4,392,855</td>
<td>$11,612,500</td>
</tr>
</tbody>
</table>

***Total represents District FY2015 budgeted amounts. **Total District commitment represents projects that have been or will be funded over multiple years, may include prior WPSTF or WRAP funding. *Represents total project gallon amounts (gpd). Table includes only “Active” projects as of October 1, 2014. Totals are per Board approved budgets and do not include District project management expenses.

Alternative Source Type: Indirect Potable Reuse

Table 9 identifies the indirect potable reuse projects that will receive funding in FY2015. The table also identifies funds allocated in FY2015 by Basin(s) and the Governing Board, and includes the total funding commitment of the District. The total funding commitment represents previous and projected year funding by the District. Similar to the funding of other alternative water projects, the funding of projects requiring large capital investments with construction spanning several years is usually spread out over multiple fiscal years. Table 9 also includes the projected alternative supply amount (gallons) provided by the projects. The Appendix of this report contains a brief description of the projects identified in Table 9.

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Budgeted Amounts</th>
<th>Gallons Provided* (gpd)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FY2015 Basin(s)</td>
<td>FY2015 Governing Board</td>
</tr>
<tr>
<td>Clearwater Groundwater Replenishment (N665)</td>
<td>$1,270,854</td>
<td>$283,146</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$1,270,854</td>
<td>$283,146</td>
</tr>
</tbody>
</table>

***Total represents District FY2015 budgeted amounts. **Total District commitment represents projects that have been or will be funded over multiple years, may include prior WPSTF, WRAP or other funding. *Represents total project gallon amounts (gpd). Table includes only “Active” projects as of October 1, 2014. Totals are per Board approved budgets and do not include District project management expenses.
Conclusion

The District has developed an aggressive alternative water supply development program through the efficient utilization of the resources available to its Governing Board and the Florida Legislature. The District is committed to identifying and assisting with appropriate solutions to the water resource problems within its area by providing technical and financial support in developing alternative water supplies. The District has a long history of commitment to cooperative efforts with state and local governments, private industry, and the public at large through the sponsoring of research, flood studies, conservation, natural system and water quality improvements, and a special emphasis on the development of alternative water supplies. The District is confident in its mission to find and maintain adequate and ecologically sustainable resources within its boundaries.
Appendix (Projects with FY2015 Funding, as well as WPSTF* Projects)

**Project Name:** Peace River Regional Reservoir Expansion* (F032)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** Peace River Manasota Regional Water Supply Authority  
**District:** Governing Board; Manasota, Peace River Basins  
**Locale:** DeSoto County  
**Project Description:** An alternative water supply project to expand the surface water storage capacity of the Peace River Manasota Regional Water Supply Authority's water supply facilities by constructing a 6-billion gallon reservoir.

**Project Name:** Peace River Facility Expansion* (F033)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** Peace River Manasota Regional Water Supply Authority  
**District:** Governing Board; Manasota, Peace River Basins  
**Locale:** DeSoto County  
**Project Description:** This is an alternative water supply project that involves expansion of the Peace River Manasota Regional Water Supply Authority's water treatment facilities. Whereas, F032 is for the design and construction of a 6-billion gallon reservoir, this project is for the design and construction associated with expanding the water treatment plant capacity from 24 to 48 mgd. Additionally, this project will construct five miles of a 20-inch pipeline from the Authority's facilities to extended areas of DeSoto County to supply up to 5.5 mgd to the county.

**Project Name:** Lake Hancock Design, Permit & Mitigation to Raise Lake Nearly 1.5 Feet (H008)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** District  
**District:** Governing Board; Alafia River, Peace River, Manasota Basins  
**Locale:** Polk County  
**Project Description:** The goal of the Lake Level Modification Project is to store water by raising the control elevation of the existing outflow structure on Lake Hancock and to slowly release the water during the dry season to help meet the minimum flow requirements in the upper Peace River between Bartow and Zolfo Springs.

**Project Name:** Lake Hancock Outfall Structure P-11* (H009)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** District  
**District:** Governing Board; Peace River Basin  
**Locale:** Polk County  
**Project Description:** Design, permitting and construction of the replacement of the Lake Hancock P-11 Water Control Structure. Raising the normal operating water level of Lake Hancock to 100.0 feet will provide the storage to increase the number of days the upper Peace River will meet the minimum flows from 70 percent to 87 percent and provide up to 25 cfs (16.2 mgd) of recharge to the Upper Floridan aquifer through sinks.

**Project Name:** Lake Hancock Outfall Treatment System* (H014)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** District  
**District:** Governing Board; Peace River Basin  
**Locale:** Polk County  
**Project Description:** The goal of the Lake Hancock Outfall Treatment Project is to improve water quality discharging from Lake Hancock through Saddle Creek to the Peace River.
**Project Name:** FARMS - Facilitating Agricultural Resource Management Systems (H017)

**Type of Alternative Supply:** Variety of Types

**Cooperator:** Variety of Cooperators

**District:** Governing Board; Alafia River, Coastal Rivers, Hillsborough River, Manasota, Peace River, Pinellas-Anclote River, and Withlacoochee River Basins

**Locale:** District-wide

**Project Description:** The Facilitating Agricultural Resource Management Systems (FARMS) Program is an agricultural Best Management Practice (BMP) cost-share reimbursement program. The program is a public/private partnership developed by the District and the Florida Department of Agriculture and Consumer Services (FDACS). The purpose of the FARMS initiative is to provide an incentive to the agricultural community, within the District, to implement agricultural BMPs that will provide resource benefits that include water quality improvement; reduced Upper Floridan aquifer withdrawals; and/or conserve, restore, or augment the area's water resources and ecology.

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**Project Name:** Charlotte County Reclaimed Water Expansion* (H027)

**Type of Alternative Supply:** Wastewater Reuse

**Cooperator:** Charlotte County

**District:** Governing Board; Peace River Basin

**Locale:** Charlotte County

**Project Description:** Design, permitting and construction of reclaimed water transmission mains from the Charlotte County East Port Wastewater Treatment Facility (WWTF), west through Port Charlotte. The project will also include the design and construction of two 500,000-gallon storage tanks and associated pumping systems.

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**Project Name:** Pasco County Southeast Regional Reclaimed Water Loop* (H041)

**Type of Alternative Supply:** Wastewater Reuse

**Cooperator:** Pasco County

**District:** Governing Board; Alafia River, Hillsborough River, NW Hillsborough, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River Basins

**Locale:** Pasco County

**Project Description:** Design, permitting and construction of approximately 18,500 linear feet of 24-inch reclaimed water transmission main with associated fittings and valves to complete the transmission system looped interconnection between Pasco County's Southeast Pasco and Wesley Center WWTF.

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**Project Name:** PRMRWSA Regional Integrated Loop System Phase 2 Interconnect* (H051)

**Type of Alternative Supply:** Surface Water

**Cooperator:** PRMRWSA

**District:** Governing Board; Peace River, Manasota Basins

**Locale:** Sarasota County, Desoto County

**Project Description:** Design, permitting and construction of an interconnect project to provide needed regional transmission capacity between the Peace River Facility and the City of North Port. The transmission line is a 36- to 42-inch diameter pipeline extending approximately seven miles from the Peace River Facility. In addition to serving the City of North Port, Phase II provides back-up capacity to the existing 36-inch main; and comprises a critical segment for the extension of future regional transmission capacity to the City of North Port's Myakkahatchee Creek Water Treatment Facility, the Englewood Water District treatment facilities, and the Carlton Water Treatment Facility.

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**Project Name:** PRMRWSA Regional Integrated Loop System Phase 3A Interconnect* (H052)

**Type of Alternative Supply:** Surface Water

**Cooperator:** Pasco County

**District:** Governing Board; Peace River, Manasota Basins

**Locale:** Sarasota County

**Project Description:** Design, permitting and construction of the Phase 3A pipeline from Sarasota County's Carlton Water Treatment Facility north across the Myakka River to an existing County utility line (critical to future transmission to Manatee County). Project components include 9 miles of 48-inch transmission lines, a 10 mgd pump station, two 5- mg tanks, metering and telemetry systems.
**Project Name:** Pasco County SR 52 East/West Reclaimed Water Interconnect* (H055)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board; Hillsborough River, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River Basins  
**Locale:** Pasco County  
**Project Description:** Design, permitting and construction of 24-inch diameter reclaimed water transmission mains east along SR 52, and south along McKendree Road to the Wesley Center WWTF.

**Project Name:** Pasco County Boyette Reclaimed Water Wet-Weather Storage* (H056)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board; Hillsborough River, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River Basins  
**Locale:** Pasco County  
**Project Description:** Design, permitting and construction of a lined wet-weather reclaimed water reservoir with a storage capacity of approximately 400 mg on the old Boyette Mine property.

**Project Name:** Tampa Bay Water System Configuration II* (H065)  
**Type of Alternative Supply:** Surface Water Supply  
**Cooperator:** Tampa Bay Water  
**District:** Governing Board; Alafia River, Coastal Rivers, Hillsborough River, NW Hillsborough, Pinellas-Anclote River, Withlacoochee River Basins  
**Locale:** Hillsborough County  
**Project Description:** This project will build on Tampa Bay Water's existing Enhanced Surface Water System to provide an additional 25 mgd of alternative water supply. This is achieved by drawing more water from the Hillsborough River during high flows, via the Tampa Bypass Canal (TBC), in combination with increasing the allowable percentage of withdrawals from the TBC. The ten project components are primarily associated with the construction of improvements to the regional system's treatment, transmission, and storage infrastructure.

**Project Name:** Withlacoochee River Watershed Initiative (H066)  
**Type of Alternative Supply:**  
**Cooperator:** District  
**District:** Governing Board; Withlacoochee River Basin  
**Locale:** Marion, Levy, Citrus, Hernando, Pasco, Lake, Polk and Sumter County  
**Project Description:** The intent of this project is to understand the dynamics of the Withlacoochee River watershed and associated natural systems, assess the water resource related changes that have occurred due to the land use changes and alterations, and evaluate water supply sources in the northern District. The project involves assembling the information and watershed model for the Green Swamp, Withlacoochee River, Little Withlacoochee River, the Tsala Apopka Chain of Lakes, Lake Rousseau, and the Western Terminus of the Cross Florida Greenway.

**Project Name:** Pasco County Shady Hills/SR 52 Regional Reclaimed Water Interconnect* (H067)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board; Hillsborough River, Coastal Rivers, Pinellas-Anclote River, Withlacoochee River Basins  
**Locale:** Pasco County  
**Project Description:** Design, permitting and construction of a 5-mg reclaimed water storage tank, reclaimed water pump station and a 24-inch reclaimed water transmission main to interconnect the Shady Hills WWTF with the SR 52 East/West Reclaimed Water Interconnect Project (H055).
**Project Name:** PRMRWSA Regional Integrated Loop System Phase 1A Interconnect* (H069)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** PRMRWSA  
**District:** Governing Board; Peace River, Manasota Basins  
**Locale:** Desoto and Charlotte County  
**Project Description:** The project consists of approximately 12 miles of a 24-inch diameter line interconnecting Punta Gorda’s Shell Creek facility with the Authority’s Peace River facility. Components include a 1.3 mile sub-aqueous crossing of the lower Peace River, a pumping station with chemical feeds and 0.5 mg storage, and multiple tie-ins to Charlotte County’s distribution system. The project has a bilateral transmission capacity of 6 mgd.  

**Project Name:** Lake Hancock Land Acquisition Primarily to Raise Lake Levels (H071)  
**Type of Alternative Supply:**  
**Cooperator:** District  
**District:** Governing Board;  
**Locale:** Polk County  
**Project Description:** The project is to acquire land necessary for the Lake Hancock Lake Level Modification Project. The project will store water by raising the control elevation of the existing outflow structure on Lake Hancock and to slowly release the water during the dry season to help meet the minimum flow requirements in the upper Peace River between Bartow and Zolfo Springs.  

**Project Name:** TECO’s Polk Power Station Reclaimed Water Interconnects to Lakeland/Polk County/Mulberry (H076)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Tampa Electric Company and potentially others  
**District:** Governing Board; Alafia River, Peace River Basins  
**Locale:** Polk County  
**Project Description:** Design, permitting and construction of approximately 15 miles of reclaimed water transmission main from City of Lakeland’s, Polk County’s SWWWTF and Mulberry’s wastewater effluent to the Tampa Electric Company's (TECO) Polk Power Station (WUP# 11747) for power generation expansion (Unit 6). The project also includes the additional treatment necessary, including one deep disposal well, for TECO to treat the water to an acceptable level for cooling and other potential uses.  

**Project Name:** Charlotte County Regional Reclaimed Water Expansion Phase 2* (H085)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Charlotte County  
**District:** Governing Board; Peace River Basin  
**Locale:** Charlotte County  
**Project Description:** Design, permitting and construction of a reclaimed water pipeline, and also using existing and abandoned pipeline, to interconnect the east and west service areas of Charlotte County’s reclaimed water system.  

**Project Name:** Upper Myakka Flatford Swamp Restoration via Water Removal (H089)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** Mosaic Fertilizer, L.L.C  
**District:** Governing Board; Manasota Basin  
**Locale:** Manatee and Sarasota County  
**Project Description:** Hydrologic alterations and excess runoff has adversely impacted Flatford Swamp in the upper Myakka watershed. This project will remove excess flows from Flatford Swamp and some portions of the surrounding area to improve the natural systems.
**Project Name:** Pasco County Reclaimed Water Natural Systems Restoration and Aquifer Recharge (H092)  
**Type of Alternative Supply:** Indirect Potable Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board; Alafia River, Coastal Rivers, Hillsborough River, Pinellas–Anclote River, Withlacoochee River Basins  
**Locale:** Pasco County  
**Project Description:** Investigation of using excess reclaimed water to improve the water resources in central Pasco County. This is the second year of a multiyear project and includes initial feasibility, advanced feasibility, design and permitting for the required infrastructure improvements to recharge 5 mgd in central Pasco.

**Project Name:** Manatee County Regional 10 MG RW Storage SW-2* (H093)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Manatee County  
**District:** Governing Board; Manasota Basin  
**Locale:** Manatee County  
**Project Description:** Design and construct the second of four 10 mg reclaimed water storage tanks in support of the Manatee County Agricultural Reuse System (MARS).

**Project Name:** Polk County Partnership (H094)  
**Type of Alternative Supply:** Water supply LFA  
**Cooperator:** Utilities within Polk County  
**District:** Governing Board  
**Locale:** Polk County  
**Project Description:** This project includes umbrella agreements designed to achieve two primary objectives: 1) The development of at least 20 mgd and up to 30 mgd alternative water supply as follows: a. The construction of a Southeast Wellfield and transmission system that will produce a minimum 20 mgd annual average of new product water by December 31, 2042 to meet the potable water supply demands of Polk County and the municipalities within Polk County and used as a base supply for 30 years; b. The provision of additional quantities of at least 10 mgd annual average of product water from either the Southeast Wellfield or other eligible projects (as approved by the Governing Board) by December 31, 2049 and used as a base supply for 30 years. 2) The creation of a Regional Water Supply Entity that will construct and operate the Southeast Wellfield and any other eligible projects and will promote regional cooperation among Polk County and the municipalities within Polk County.

**Project Name:** Lower Hillsborough River Recovery Strategy Implementation Projects (H400)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** City of Tampa  
**District:** Governing Board; Hillsborough River Basin  
**Locale:** Hillsborough County  
**Project Description:** A recovery strategy for the Hillsborough River including: 1) Sulphur Springs weir modifications (lower weir); and upper weir and pump station modifications; 2) Blue Sink Project, 3) Transmission Pipeline Project, 4) Investigation of Storage Options, 5) Tampa Bypass Canal Diversions, January 1, 2008; and 6) Morris Bridge Sink Project.

**Project Name:** Bradenton - ASR Program* (K114)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** City of Bradenton  
**District:** Manasota Basin  
**Locale:** Manatee County  
**Project Description:** Design, permitting and construction of up to three additional monitoring wells, and perform two additional cycle tests at the City of Bradenton's Downtown ASR site. The project is a continuation of the City's Downtown ASR project that will provide 1.5 mgd of potable water during the 100-day dry season.
**Project Name:** N. Sarasota Co. Reclaimed Water ASRs* (K269)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** Sarasota County
**District:** Governing Board; Manasota Basin
**Locale:** Sarasota County
**Project Description:** Design, permitting and construction of three 1.2 mgd reclaimed water ASR wells with ultraviolet (UV) disinfection. These ASRs will be constructed at the County's Central County WWTF. The ASRs will provide wet weather storage for the County's Northern Regional Reuse System.

**Project Name:** Lake Tarpon ASR Test Well Program - Phase IV* (K422)
**Type of Alternative Supply:** Stormwater/Surface Water/Wastewater Reuse
**Cooperator:** Pinellas County
**District:** Governing Board; Pinellas-Anclote River Basin
**Locale:** Pinellas County
**Project Description:** Design, permitting, construction and testing of an ASR well near the south end of Lake Tarpon. The well is expected to supply up to 1 mgd during the dry season (~273,000 gpd annually) using excess surface water collected from Lake Tarpon. The recovered water will be used to supplement the Pinellas County Utilities reclaimed water system and support lake management and watershed restoration activities.

**Project Name:** St. Petersburg Northwest and Southwest Reclaimed Storage Tanks, Pumps, and Telemetry* (K847)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** City of St. Petersburg
**District:** Governing Board; Pinellas-Anclote River Basin
**Locale:** Pinellas County
**Project Description:** Design, permitting and construction of one 10-mg storage tank, two pump station expansions at the Southwest Water Reclamation Facilities and Northwest Water Reclamation Facilities, and supervisory control and data acquisition (SCADA) telemetry improvements to reclaimed water systems at all four City Reclamation Facilities.

**Project Name:** Lake Placid Reuse* (L153)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** Lake Placid
**District:** Governing Board; Peace River Basin
**Locale:** Highlands County
**Project Description:** Design, permitting and construction of a reclaimed water pump station and a 500,000-gallon reclaimed water ground storage tank located at the Town wastewater treatment facility site, and approximately 6,446 linear feet of 10-inch, 8-inch, and 6-inch diameter reclaimed water transmission main.

**Project Name:** City of Brooksville US 41 South Service Area Reuse System* (L169)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** City of Brooksville
**District:** Governing Board and Coastal Rivers Basin
**Locale:** Hernando County
**Project Description:** Design, permitting and construction of 37,670 linear feet of transmission main from the City of Brooksville’s Cobb Road WWTP to the Southern Hills Plantation Development on US 41, two 1.0 mgd pump stations, two .75 mgd reclaimed water storage tanks at the WWTP and three 3.0 mg lined storage ponds. The three storage ponds will be located at Southern Hills Plantation. Reclaimed water will be used to irrigate the golf course, common areas, and individual residences.
Project Name: Clearwater Morningside Area Reclaimed Water Transmission and Distribution* (L254)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Clearwater
District: Governing Board; Pinellas-Anclote River Basin
Locale: Pinellas County
Project Description: Design, permitting and construction of reclaimed water transmission mains and distribution piping in the Morningside area as well as other large customers located throughout the City which include irrigation at schools, parks, condos, and the west Belleaire golf course.

Project Name: Pasco County Connerton Reclaimed Transmission & Storage* (L270)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Governing Board; Coastal Rivers, Pinellas-Anclote River Basins
Locale: Pasco County
Project Description: Design, permitting and construction of 23,780 linear feet of 16-inch and 24-inch reclaimed water transmission main and a lined 15-acre reclaimed water storage pond to serve the landscape irrigation needs of an estimated 6,800 residential units and 4.5 million square feet of non-residential development planned for the Connerton Development in central Pasco County.

Project Name: Hillsborough County Lithia-Pinecrest Reclaimed Transmission* (L294)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Hillsborough County
District: Governing Board; Alafia River Basin
Locale: Hillsborough County
Project Description: Design, permitting and construction of 12,200 feet of 24-inch reclaimed water transmission main, controls, telemetry and associated appurtenances to be located along Lithia Pinecrest Road from Bloomingdale Avenue south to the entrance road to the Riverhills Golf Course.

Project Name: City of Inverness Reclaimed Water Transmission* (L468)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Inverness
District: Governing Board; Withlacoochee River Basin
Locale: Citrus County
Project Description: Design, permitting and construction of approximately 17,000 linear feet of reclaimed water transmission main to the Inverness Golf and Country Club, and the expansion of a pump station located at the WWTP.

Project Name: Polk County Utilities NE Regional Reclaimed Storage Expansion * (L475)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Polk County
District: Governing Board; Peace River Basin
Locale: Polk County
Project Description: Design, permitting and construction of two 5-mg ground storage reservoirs and one 15-mgd high service pumping facility.

Project Name: City of Sarasota Payne Park Reuse* (L500)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of Sarasota
District: Governing Board; Manasota Basin
Locale: Sarasota County
Project Description: Design, permitting and construction of 4,280 linear feet of 8- to 14-inch diameter reuse transmission line between the City’s Downtown Loop reclaimed transmission line and Payne Park.
**Project Name:** Aqua Utilities Reuse Transmission to Lakewood Ranch* (L522)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** Aqua Utilities
**District:** Governing Board; Manasota Basin
**Locale:** Sarasota and Manatee Counties
**Project Description:** Design, permitting and construction of 3,900 feet of 12-inch reclaimed water transmission line and upgrading an existing pump station to provide reclaimed water to the Corporate Park area of Lakewood Ranch from the Aqua Utilities Florida, Inc. WWTF.

**Project Name:** Palmetto Reclaimed Water ASR* (L608)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** City of Palmetto
**District:** Governing Board; Manasota Basin
**Locale:** Manatee County
**Project Description:** Design, permitting and construction of ultraviolet (UV) disinfection, cycle testing, and operational permitting for a 1.2-mgd reclaimed water ASR well for the City of Palmetto.

**Project Name:** Englewood Reuse Transmission – Stillwater* (L652)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** Englewood Water District
**District:** Governing Board; Manasota Basin
**Locale:** Sarasota County
**Project Description:** Design, permitting and construction of approximately 4,379 feet of 6-inch reuse transmission line to connect the Stillwater Subdivision to the Englewood Reuse System.

**Project Name:** Clearwater Skycrest Reclaimed Water* (L695)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** City of Clearwater
**District:** Governing Board; Pinellas-Anclote River Basin
**Locale:** Pinellas County
**Project Description:** Design, permitting and construction of reclaimed water transmission mains, distribution piping, a 5-mg storage tank and high service pump station in the Skycrest area of Clearwater. The project will connect the City’s east and west reclaimed water service areas and also provide service to nearly 500 residential and commercial reclaimed water customers in central Clearwater.

**Project Name:** City of Dunedin Reclaimed Transmission & Distribution* (L697)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** City of Dunedin
**District:** Pinellas-Anclote River Basin
**Locale:** Pinellas County
**Project Description:** Construction of seven combined reclaimed water transmission main and distribution systems. A total of approximately 3,579 linear feet of reclaimed water transmission main and approximately 27,146 linear feet of distribution mains will provide service to 500 residences (377 active) in the seven project areas.

**Project Name:** Pasco County Overpass Road Reclaimed Water Transmission* (L729)
**Type of Alternative Supply:** Wastewater Reuse
**Cooperator:** Pasco County
**District:** Governing Board; Hillsborough River Basin
**Locale:** Pasco County
**Project Description:** Design, permitting and construction of approximately 16,700 linear feet of 16-inch and 4,100 linear feet of 12-inch reclaimed water transmission mains near Overpass Road to supply 1,749 residential reclaimed water customers in the Watergrass/DePue Ranch Development.
**Project Name:** Levitt and Sons South Brooksville Reuse System - Phase II* (L781)
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Levitt and Sons  
**District:** Governing Board; Coastal Rivers Basin  
**Locale:** Hernando County  
**Project Description:** Design, permitting and construction of a reclaimed water transmission main, a 2.3-mg lined storage pond and a 1-mgd pump station in the Phase II (Cascades) area of Southern Hills Plantation to provide service to 925 residential customers as well as common area landscape irrigation.

**Project Name:** On Top of the World Marion County Reclaimed Water* (L786)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Bay Laurel Center Community Development District  
**District:** Withlacoochee River Basin  
**Locale:** Marion County  
**Project Description:** Design, permitting and construction of a 2.5-mg reclaimed water storage tank, pump station and transmission mains to serve the On Top of the World Golf Course, the Candler Hills Golf Course and the common areas of the On Top of the World development.

**Project Name:** Plant City Sydney & Park Road Reclaimed Water* (L816)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Plant City  
**District:** Alafia River Basin  
**Locale:** Hillsborough County  
**Project Description:** Design, permitting and construction of reclaimed water transmission mains to serve Walden Lake Golf Course, South Florida Baptist Hospital, Plant City Stadium, Martin Luther King Jr. ball fields, Marshall Middle School, Tomlin Middle School and Byran Elementary School.

**Project Name:** Oldsmar Reclaimed Water Distribution System and Telemetry* (L821)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Oldsmar  
**District:** Pinellas-Anclote River Basin  
**Locale:** Pinellas County  
**Project Description:** Design and construction of reclaimed water distribution lines within the downtown area of Oldsmar to provide service to 174 residences. The project also includes the design and installation of an eleven valve automated telemetry control system.

**Project Name:** Dade City Reclaimed Water* (L823)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Dade City  
**District:** Withlacoochee River Basin  
**Locale:** Pasco County  
**Project Description:** Design, permitting and construction of transmission mains and 1-mg storage tank, conversion of a rapid infiltration basin to a lined storage pond, and pump station to supply the Little Everglades Ranch for the race track and sod farm operations.

**Project Name:** Zephyrhills Reclaimed Water Extension* (L824)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Zephyrhills  
**District:** Governing Board; Hillsborough River Basin  
**Locale:** Pasco County  
**Project Description:** Design, permitting and construction of 4,000 linear feet of 6-inch diameter reclaimed water transmission lines and 2,000 linear feet of 2-inch diameter distribution lines for landscape irrigation.
**Project Name:** Englewood Park Forest Reuse Transmission* (L869)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Englewood Water District  
**District:** Governing Board; Manasota Basin  
**Locale:** Sarasota County  
**Project Description:** Design, permitting and construction of approximately 3,800 feet of 6-inch and 4-inch reuse transmission line to connect the Park Forest Subdivision to the Englewood Reuse System.

**Project Name:** Aqua Utilities Reuse Transmission - Eastern Lakewood Ranch* (L874)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Aqua Utilities Florida, Inc.  
**District:** Manatee Basin  
**Locale:** Manatee County  
**Project Description:** Design and construction of 7,500 feet of 14-inch reclaimed water transmission line; 16,500 feet of 20-inch reclaimed water line; and a pump station to provide reclaimed water to the residential and agricultural areas in the eastern part of Lakewood Ranch.

**Project Name:** Haines City Southern Reuse (N065)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Haines City  
**District:** Peace River Basin  
**Locale:** Polk County  
**Project Description:** Expand the City's Reclaimed Water System to the eastern and southern portion of the City's potable water service area. The project consists of design and construction of approximately 17,430 linear feet reclaimed water transmission main ranging in diameter from 24 to 30 inches, an interim reclaimed water booster pumping station, and necessary appurtenances.

**Project Name:** Clearwater 5 MGD Brackish Floridan Aquifer RO System (N176)  
**Type of Alternative Supply:** Brackish  
**Cooperator:** City of Clearwater  
**District:** Pinellas-Anclote River Basin  
**Locale:** Pinellas County  
**Project Description:** Design and construction of the City's second RO facility and wellfield, which is expected to treat brackish groundwater to produce more than 5.0 mgd of potable water supply. Project components include: pilot plant testing; brackish wellfield construction including the installation of 9 additional wells, and conversion of 3 test wells; design and construction of treatment facilities; byproduct treatment and deep well injection; and approximately 12 miles of raw water transmission lines.

**Project Name:** PRMRWSA - Regional Integrated Loop System - Phase 1 Interconnect from DeSoto to Punta Gorda (N416)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** PRMRWSA  
**District:** Governing Board  
**Locale:** Charlotte County  
**Project Description:** This FY2015 project is for a design update and permitting services for the Phase 1 Regional Loop System Interconnect. Future construction activity would be budgeted under a separate cooperative funding agreement. The Regional Loop System provides a regional water transfer and delivery system for existing and future water sources to demand centers within the Peace River Manasota Regional Water Supply Authority’s (Authority) four-county region. The Phase 1 Interconnect would provide a direct link between the Shell Creek and Peace River water treatment facilities, and regional transmission capacity to unincorporated portions of Charlotte and DeSoto counties along the US-17 corridor. Prior designs of the Phase 1 Interconnect include 6 miles of 24-inch diameter transmission main, a 2 million gallon storage tank, and a pumping station at the Shell Creek facility.
**Project Name:** Bradenton Surface Water ASR Feasibility Study - Phase 1 (N435)  
**Type of Alternative Supply:** Surface Water  
**Cooperator:** City of Bradenton  
**District:** Governing Board; Manasota Basin  
**Locale:** Manatee County  
**Project Description:** Project to include a feasibility assessment of a surface water ASR program located at the Bill Evers Reservoir site. The goal for the project is to store approximately 300 mg/year (2 to 3 mgd for 100 days a year). The objectives are to augment the existing surface water supply as an alternative to an upland storage reservoir and may serve as a recovery strategy option to meet the requirements of the Minimum Flow and Level (MFL) program that impacts the lower Manatee River basin when the levels are established.

**Project Name:** Meadow Point Boulevard Reclaimed Water Transmission (N464)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board; Hillsborough River Basin  
**Locale:** Pasco County  
**Project Description:** Design and construction of a 24,000 linear foot 16-inch diameter reclaimed water transmission main along Meadow Point Boulevard between State Road 56 and County Road 54 to serve future planned residential irrigation customers in Wiregrass and Meadow Point developments.

**Project Name:** Manatee Co. Regional 10 MG Reclaimed Water Storage Tank SE-3 (N488)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Manatee County  
**District:** Governing Board; Manasota Basin  
**Locale:** Manatee County  
**Project Description:** The project will design and construct the third of four planned 10 million gallon (MG) reclaimed water storage tanks and a high service pump station in support of the Manatee County Agricultural Reuse System (MARS).

**Project Name:** Tarpon Springs Reclaimed Water - Control, Storage and Pumping Systems (N494)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Tarpon Springs  
**District:** Governing Board; Pinellas-Anclote River Basin  
**Locale:** Pinellas County  
**Project Description:** This project consists of 1. Control valves and associated control systems that will allow multiple residential irrigation zones to be operated on a weekly schedule, prevent shut-downs during peak demand periods, and ensure reliability for industrial users who require uninterrupted service, and 2. A 5 mg storage tank and a 4.9 mgd booster pumping station at the city's municipal golf course.

**Project Name:** Auburndale Polytechnic Reclaimed Water Storage and Transmission Project (N536)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Auburndale  
**District:** Governing Board; Peace River Basin  
**Locale:** Polk County  
**Project Description:** Design and construction of a 2 MG storage tank and approximately 10,500 feet of 16-inch diameter reclaimed water line from the City's Allred WWTP to the Florida Polytechnic University.

**Project Name:** Pasco County Heritage Pines Residential Reclaimed Water (N547)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board; Coastal Rivers Basin  
**Locale:** Pasco County  
**Project Description:** Design and construction of reclaimed water transmission mains and distribution piping in the Heritage Pines areas of northwest Pasco.
**Project Name:** Oak Run to JB Ranch Reclaimed Water Main (N596)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Marion County  
**District:** Withlacoochee River Basin  
**Locale:** Marion County  
**Project Description:** Design, permitting and construction of approximately 15,200 feet of 12-inch reclaimed water line to the JB Ranch residential development. Will provide 0.27 mgd of reclaimed water to a residential development.

**Project Name:** City of Punta Gorda Brackish Wellfield Investigation (N600)  
**Type of Alternative Supply:** Brackish  
**Cooperator:** City of Punta Gorda  
**District:** Peace River Basin  
**Locale:** Charlotte  
**Project Description:** Implementation of an exploratory well testing program for exploration to 2,000 feet below land surface, aquifer performance testing with brackish byproduct, data collection, groundwater modeling analysis, and report preparation. Project includes the design and construction of four exploratory/test wells which will improve the hydrologic assessment of brackish production zones in the Upper Floridan and will assist in determining the permissability of groundwater withdrawals for the City’s proposed RO facility.

**Project Name:** Hillsborough Co., Tampa, Plant City, Temple Terrace Reclaimed Water Recharge (N601)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Hillsborough County  
**District:** Alafia River, General, Hillsborough River Basin  
**Locale:** Hillsborough County  
**Project Description:** This FY2015 feasibility study (FS) will evaluate the technical, regulatory, and financial feasibility of using up to an estimated 25 mgd of excess reclaimed water to significantly increase direct and indirect recharge opportunities (Recharge Wells, Rapid Infiltration Basins, High Intensity Spray Fields) in Hillsborough County.

**Project Name:** City of Venice Reclaimed Water Interconnect with Sarasota County (N604)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Venice  
**District:** Governing Board  
**Locale:** Sarasota County  
**Project Description:** The FY2015 project will evaluate the technical, regulatory and financial feasibility of an interconnect between Venice and Sarasota County reclaimed water systems.

**Project Name:** Charlotte County Utilities Burnt Store Brackish Groundwater Well Field Study (N605)  
**Type of Alternative Supply:** Brackish  
**Cooperator:** Charlotte County  
**District:** Governing Board  
**Locale:** Charlotte County  
**Project Description:** This evaluation of the Burnt Store brackish water wellfield located in Charlotte County will investigate the hydraulic properties and hydrogeologic characteristics of the aquifers currently supplying the existing facilities. The study will better define the dynamics and water quality within the wellfield and determine appropriate actions to resolve issues. Burnt Store is a reverse osmosis WTP located outside the PRMRWSA service area.
**Project Name:** Quail Hollow Golf Course Transmission, Storage and Pumping (N629)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board, Hillsborough Basin  
**Locale:** Pasco County  
**Project Description:** Design, permitting, and construction of reclaimed water infrastructure consisting of 1,000 feet of 6-inch reclaimed water transmission piping and a 1.0 mgd pump station to provide additional reclaimed water flows to the Quail Hollow golf course. Will provide 0.100 mgd of additional reclaimed water to a golf course.

**Project Name:** Pasco County Rod Lincoln Groves Transmission (N630)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Hillsborough Basin  
**Locale:** Pasco County  
**Project Description:** Design, permitting, and construction of reclaimed water distribution infrastructure consisting of 3,200 feet of 12-inch diameter reclaimed water lines and necessary appurtenances to provide reclaimed water service to Rod Lincoln groves and hayfields. Will provide 0.25 mgd of reclaimed water to a citrus grove and hay field.

**Project Name:** Pasco Co. Crews Lake Reuse Restoration (N635)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board  
**Locale:** Pasco County  
**Project Description:** Design, permitting, and construction of a reclaimed water wetland/recharge facility at Crews Lake in central Pasco County. The FY15 funds are requested to perform 30 percent design and permitting services necessary to develop better construction costs and project benefits.

**Project Name:** Pasco Co. Shady Hills Reclaimed Water Storage Tank (N649)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Pasco County  
**District:** Governing Board  
**Locale:** Pasco County  
**Project Description:** Design, permitting and construction of a 5.0 million gallon (mg) reclaimed water storage tank at the County’s regional Shady Hills WWTF. Will provide 5.0 mg of diurnal storage to assist the County in providing reclaimed water for irrigation purposes to existing and future customers.

**Project Name:** Hillsborough Co. 19th Ave. Reclaimed Water Transmission (N652)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Hillsborough County  
**District:** Hillsborough Basin  
**Locale:** Hillsborough County  
**Project Description:** The multi-year FY2015 project is for the design, permitting and construction of 11,000 feet of 20 inch and 5,000 feet of 16 inch diameter reclaimed water transmission main to supply 500 residential irrigation customers in the Harbor Isles subdivision, and to supply reclaimed water to the expanded Hillsborough County SHARP recharge project in the Apollo Beach area. The project will provide 0.30 mgd of reclaimed water for residential irrigation to customers to enable the future supply of 4.0 mgd to the SHARP recharge project in the Most Impacted Area of the SWUCA.
Project Name: Pasco Co. Altman Groves Reclaimed Water Distribution Main (N654)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Hillsborough Basin
Locale: Pasco County
Project Description: Construction of approximately 4,000 feet of 12-inch diameter reclaimed water main to primarily serve the Altman citrus grove for irrigation and frost/freeze protection. Will provide 0.04 mgd of reclaimed water to an agricultural customer.

Project Name: Clearwater Groundwater Replenishment Project - Phase 3 (N665)
Type of Alternative Supply: Indirect Potable
Cooperator: City of Clearwater
District: Pinellas Anclote Basin
Locale: Pinellas County
Project Description: Design, permitting and construction for the full-scale water purification plant, the injection water treatment system, and the injection and monitoring well systems to recharge 2.4 mgd annual average of purified reclaimed water. Additionally, the project includes continued public outreach activities. A feasibility study and site/pilot testing have been cooperatively funded in prior years.

Project Name: Pasco Co. Recl. Water Treatment Wetland and Aquifer Recharge-Site 1 (N666)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Governing Board
Locale: Pasco County
Project Description: Design, permitting, and construction of a reclaimed water recharge facility in central Pasco County. The FY15 funds are requested to perform 30 percent design and permitting services necessary to develop better construction costs and project benefits. A feasibility study and site testing have been cooperatively funded in prior years.

Project Name: City of North Port’s Reclaimed Water Transmission Main Phase 3 (N667)
Type of Alternative Supply: Wastewater Reuse
Cooperator: City of North Port
District: Governing Board
Locale: Sarasota County
Project Description: Design, permitting and construction of reclaimed water transmission infrastructure that includes approximately 3,000 feet of 18-inch and 6,000 feet of 12-inch diameter reclaimed water lines and necessary appurtenances to supply reclaimed water to residential and commercial customers, a golf course and a recreational park all within the SWUCA. Provide 0.36 mgd of reclaimed water for residential and commercial customers, a golf course and a recreational park.

Project Name: Pasco Co Starkey Ranch Reclaimed Project A (N670)
Type of Alternative Supply: Wastewater Reuse
Cooperator: Pasco County
District: Governing Board
Locale: Pasco County
Project Description: This multiyear, out-of-cycle cooperative funding project is for the construction of approximately 10,994 feet of 16-inch transmission mains to provide reclaimed water to an initial 388 irrigation customers (385 single family residential and 3 commercial/civic users) in the Starkey Ranch development. Will provide 0.42 mgd of reclaimed water for irrigation to customers.
**Project Name:** PRMRWSA Peace River Facility Treatment Capacity Expansion Phase 1 (N671)  
**Type of Alternative Supply:** Surface/Storm Water  
**Cooperator:** PRMRWSA  
**District:** Governing Board  
**Locale:** Desoto County  
**Project Description:** This project is for the increase of capacity at the existing Peace River Surface Water Treatment Facility by 3 million gallons per day (mgd). The facility is owned and operated by the Peace River Manasota Regional Water Supply Authority and currently has a total treatment capacity of 48 mgd. The oldest of three sets of treatment trains at the facility were constructed in the 1970s and are undergoing refurbishment. These older units currently have a capacity of 12 mgd, and the Authority identified an opportunity to increase the capacity to 15 mgd at a cost of $3 million over the current refurbishment cost through the up sizing and improvements of system components.

**Project Name:** Zephyrhills Advanced Wastewater and Reuse Recharge Project (N672)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Zephyrhills  
**District:** Governing Board; Springs Initiative  
**Locale:** Pasco County  
**Project Description:** This multi-year FY2015 Springs Initiative project is for upgrading the City of Zephyrhills WWTP to 4.50 mgd capacity Advanced Wastewater Treatment (AWT) facility by designing, permitting and constructing: 4.50 mgd capacity denitrification components; 3.50 to 4.50 mgd capacity recharge-wetlands to lower nitrogen levels to less than 1 mg/l; and a 4.50 mgd capacity reuse system (2 miles of 16” diameter mains and a 4.50 mgd pump station) to an appropriate recharge area in the Crystal Springs springshed.

**Project Name:** Bushnell/Bethel Farms Advanced Wastewater Project (N673)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** City of Bushnell  
**District:** Governing Board; Springs Initiative  
**Locale:** Sumter County  
**Project Description:** This project involves upgrading the City of Bushnell WWTP to an Advanced Wastewater Treatment (AWT) facility. The project also includes construction of a cascading linear vegetated littoral areas and storage pond to lower nitrogen levels and reduce groundwater use through this alternative source, and construction of a reuse system to supply reclaimed water to the Bethel Farms sod farm in the Panasoffkee springshed.

**Project Name:** Citrus Co. Sugarmill Woods Advanced Wastewater and Reuse Project (WC02)  
**Type of Alternative Supply:** Wastewater Reuse  
**Cooperator:** Citrus County  
**District:** Governing Board; Withlacoochee Basin, Springs Imitative  
**Locale:** Citrus County  
**Project Description:** Design, permitting, and construction of approximately 29,000 feet of 12-inch diameter reclaimed lines and a 2.0 mgd pump station to serve two existing golf courses and one future golf course. The project also includes design, permitting and construction of advanced treatment facilities at the Sugarmill Woods WWTF to provide 2.0 mgd of additional nutrient removal using conventional and denitrification filters. Provides 0.47 mgd of reclaimed water to two existing golf courses and will reduce nutrient loading within the Chassahowitzka Springs springshed.
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Introduction/Purpose

The District is required to prepare a Five-Year Water Resource Development Work Program (Work Program) as a part of its annual budget reporting process, pursuant to Subsection 373.536(6), Florida Statutes (F.S.): “The program must describe the district’s implementation strategy and funding plan for the water resource, water supply, and alternative water supply development components of each approved regional water supply plan developed or revised under s. 373.709. The work program must address all the elements of the water resource development component in the district’s approved regional water supply plans and must identify projects in the work program which will provide water; explain how each water resource, water supply, and alternative water supply development project will produce additional water available for consumptive uses; estimate the quantity of water to be produced by each project; and provide an assessment of the contribution of the district’s regional water supply plans in providing sufficient water needed to timely meet the water supply needs of existing and future reasonable-beneficial uses for a 1-in-10-year drought event.” This report represents the District’s 14th Five-Year Water Resource Development Work Program and covers the period from FY 2015 through FY 2019. This Work Program is consistent with the planning strategies of the District’s 2010 Regional Water Supply Plan (RWSP) and the Central Florida Water Initiative 2014 Regional Water Supply Plan (CFWI Plan).

In 2013, the Florida Department of Environmental Protection (FDEP) requested that all funds presented in the Work Program be referenced to the District’s budget at the Program and Sub-Activity level. To comply with this request, the categorization and format of tables in the Work Program have been modified from prior year programs. The changes are intended to make the report’s fiscal presentation easier to trace to the annual budget presented to the FDEP.

Water Resource Development

Section 373.019(24), F.S., defines Water Resource Development as “the formulation and implementation of regional water resource management strategies, including the collection and evaluation of surface water and groundwater data; structural and nonstructural programs to protect and manage water resources; the development of regional water resource implementation programs; the construction, operation, and maintenance of major public works facilities to provide for flood control, surface and underground water storage, and groundwater recharge augmentation; and related technical assistance to local governments and to government-owned and privately owned water utilities.” The intent of Water Resource Development (WRD) activities and projects is to enhance the amount of water available for reasonable-beneficial uses and for natural systems. The District is primarily responsible for implementing WRD activities and projects; however, additional funding and technical support may come from state, federal, and local entities. The WRD component of the District’s RWSP identifies a series of data collection and analysis activities the District is undertaking which meet this statutory definition. The implementation strategy for this category is contained in the WRD Data Collection and Analysis Activities section of this report.

In addition, the District undertakes a variety of more narrowly defined WRD “Projects.” For purposes of annual budget reporting, these projects are categorized as regional projects designed to create an identifiable supply of water for existing and/or future reasonable-beneficial uses. The implementation strategy for this category is contained in the WRD Projects section of this report.
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<td>$2,247,794</td>
<td>$2,247,794</td>
<td>$2,247,794</td>
<td>$11,238,970</td>
<td></td>
</tr>
<tr>
<td>2) Minimum Flows and Levels Program</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Technical Support</td>
<td>1.1.2, p.61</td>
<td>$1,528,773</td>
<td>$1,528,773</td>
<td>$1,528,773</td>
<td>$1,528,773</td>
<td>$1,528,773</td>
<td>$7,643,865</td>
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<tr>
<td>c) Research</td>
<td>1.1.2</td>
<td>$48,313</td>
<td>$48,313</td>
<td>$48,313</td>
<td>$48,313</td>
<td>$48,313</td>
<td>$241,565</td>
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<tr>
<td>3) Watershed Management Planning</td>
<td>1.1.3, p.63</td>
<td>$5,467,099</td>
<td>$5,467,099</td>
<td>$5,467,099</td>
<td>$5,467,099</td>
<td>$5,467,099</td>
<td>$27,335,495</td>
<td>District, Local Cooperators</td>
</tr>
<tr>
<td>4) Quality of Water Improvement Program</td>
<td>2.2.3, p.85</td>
<td>$591,079</td>
<td>$591,079</td>
<td>$591,079</td>
<td>$591,079</td>
<td>$591,079</td>
<td>$2,955,395</td>
<td>District</td>
</tr>
<tr>
<td>5) Stormwater Improvement-Implementation of Storage and Conveyance BMPs</td>
<td>2.3.1, p.87</td>
<td>$8,081,291</td>
<td>$8,081,291</td>
<td>$8,081,291</td>
<td>$8,081,291</td>
<td>$8,081,291</td>
<td>$40,406,455</td>
<td>District, USGS</td>
</tr>
<tr>
<td>Totals</td>
<td></td>
<td>$24,482,947</td>
<td>$24,482,947</td>
<td>$24,482,947</td>
<td>$24,482,947</td>
<td>$24,482,947</td>
<td>$122,414,735</td>
<td></td>
</tr>
</tbody>
</table>


\(^1\) Budget Reference contains the Budget Sub-Activity Code and the page number of the FY2015 Tentative Budget Submission where project is referenced as a major budget item.
Data Collection and Analysis Activities

The District has budgeted significant funds in FY2015 to implement and continue the WRD component of the RWSP. The activities summarized in Table 1 are mainly data collection and analysis activities that support the health of natural systems and the development of water supplies by local governments, utilities, regional water supply authorities, and others. The table indicates that approximately $24.5 million will be allocated toward these activities in FY2015 and a total of approximately $122 million will be allocated between FY2015 and FY2019. Because budgets for the years beyond FY2015 have not yet been developed, future funding estimates for activities continuing through FY2019 are set equal to FY2015 funding. Funding for these activities is from the District’s Governing Board. In some cases, additional funding is provided by water supply authorities, local governments, and the United States Geological Survey (USGS). Many of the activities were highlighted as major budget items in the District’s Tentative Budget Submission, and references to the sub-activity code and page number are provided. Each of the activities in Table 1 is further described below.

Hydrologic Data Collection Activities

The District has a comprehensive hydrologic conditions monitoring program that includes the assembly of information on key indicators as rainfall, surface and groundwater levels and water quality, and stream flows. The program includes data collected by District staff and permittees as well as data collected as part of the District’s cooperative funding program with the USGS. Data collected allows the District to gage changes in the health of water resources, monitor trends in conditions, identify and analyze existing or potential resource problems, and develop programs to correct existing problems and prevent future problems from occurring. The data collection supports District flood control structure operations, water use and environmental resource permitting and compliance, Minimum Flows and Levels (MFLs) evaluation and compliance, the Surface Water Improvement and Management (SWIM) program, the Southern Water Use Caution Area (SWUCA) recovery strategy, modeling of surface water and groundwater systems, and many resource evaluations and reports.

The categories of hydrologic data that are collected and monitored by District staff are discussed below. The District also evaluates the hydrologic data submitted by Water Use Permit (WUP) holders to ensure compliance with permit conditions and to assist with monitoring and documenting hydrologic conditions.

a) Surface Water Flows and Levels. Funding supports data collection at the District’s 749 surface water level gauging sites, and cooperative funding with the USGS for discharge and water-level data collection at 164 river, stream and canal sites. The USGS data are available to District staff through the Water Management Information System (WMIS), and to the public through the USGS Florida Water Science Center Web Portal.

b) Geohydrologic Data Well Network. The Geohydrologic Data Well Network is a monitor well network that supports various projects throughout the District including the CFWI, Water Resource Assessment Projects (WRAPs), Water Use Caution Areas, the Northern Tampa Bay Phase III program, the Springs Team, sea level rise and other salt-water intrusion assessments, and development of alternative water supplies. The network includes the Regional Observation and Monitor-well Program (ROMP) which has been the District’s primary means for hydrogeologic data collection since 1974. Data from monitor well sites are used to evaluate seasonal and long-term changes in groundwater levels and quality, as well as the interaction and connectivity between groundwater and surface water bodies. During construction of new monitor well sites, valuable hydrogeologic information is collected including the lithology, aquifer hydraulic characteristics, water quality, and water levels.

c) Meteorologic Data. The meteorologic data monitoring program consists of measuring rainfall totals every 15 minutes at 135 near real-time rain gauges and 41 recording rain gauges. Funding is for costs associated with measurement of rainfall including sensors, maintenance, repair and replacement of equipment. Funding allows for the operation of a mixed-forest wetland ET station by the USGS that directly measures actual ET. Funding provides for District participation in a cooperative effort between the USGS and all five Florida water management districts to map state-wide potential and
reference ET using data measured from the Geostationary Operational Environmental Satellites (GOES). Funding also includes a collaborative effort between the five districts to provide high-resolution radar rainfall data for modeling purposes.

d) Water Quality Data. The District’s Water Quality Monitoring Program (WQMP) collects data from water quality monitoring networks for springs, streams, lakes, and coastal and inland rivers. Many monitoring sites are sampled on a routine basis, with data analysis and reporting are conducted on an annual basis. The Coastal Groundwater Quality Monitoring network, which involves sample collection and analysis from approximately 370 wells across the District to monitor the saltwater intrusion and/or the upwelling of mineralized waters into potable aquifers.

e) Biologic Data. The District monitors ecological conditions as they relate to both potential water use impacts and changes in hydrologic conditions. Funding for biologic data collection includes support for routine monitoring of approximately 190 wetlands to document changes in wetland health and assess level of recovery in impacted wetlands. Funding also supports SWIM Program efforts for mapping and monitoring of seagrasses in priority water bodies including Tampa Bay, Sarasota Bay, Charlotte Harbor, and the Springs Coast area. Funding also supports an effort to map the estuarine hard bottom of Tampa Bay.

f) Groundwater Levels. Funding supports the maintenance and support of 1,558 monitor wells in the data collection network, including 803 wells that are instrumented with data loggers that record water levels once per hour, and 755 that are measured manually by field technicians once or twice per month.

g) Data Support. This item provides administrative and management support for the WQMP, hydrologic and geohydrologic staff support, chemistry laboratory, and support for the District’s Supervisory Control and Data Acquisition (SCADA) system.

Minimum Flows and Levels Program (MFLs)

MFLs are hydrologic and ecological standards that can be used for permitting and planning decisions concerning how much water may be safely withdrawn from or near a water body. Florida law (Chapter 373.042, F.S.) requires the state water management districts or the FDEP to establish MFLs for aquifers, surface watercourses, and other surface water bodies to identify the limit at which further withdrawals would be significantly harmful to the water resources or ecology of the area. Rivers, streams, estuaries and springs require minimum flows, while minimum levels are developed for lakes, wetlands and aquifers. MFLs are adopted into District rules, Chapter 40D-8, Florida Administrative Code (F.A.C.), and are used in the District’s water use permitting program to ensure that withdrawals do not cause significant harm to water resources or the environment.

The District’s process for establishing MFLs includes an independent scientific peer review and an opportunity for interested stakeholders to participate in a public review, both of which are considered by the Governing Board when deciding whether to adopt a proposed MFL. District monitoring programs also provide data for evaluating compliance with the adopted MFLs, determining the need for recovery strategies and analyzing the recovery of water bodies where significant harm has been established.

Watershed Management Planning

The District addresses flooding problems in existing areas by preparing and implementing Watershed Management Plans (WMPs) in cooperation with local governments. The WMPs define flood conditions, identify flood level of service deficiencies, and evaluate best management practices (BMPs) to address those deficiencies. The WMPs include consideration of the capacity of a watershed to protect, enhance, and restore water quality and natural systems while achieving flood protection. The plans identify effective watershed management strategies and culminate in defining floodplain delineations and constructing selected BMPs.
Local governments and the District combine their resources and exchange watershed data to implement the WMPs. Funding for local elements of the WMPs is provided through local governments’ capital improvement plans and the District’s Cooperative Funding Initiative. Additionally, flood hazard information generated by the WMPs is used by the Federal Emergency Management Agency (FEMA) to revise the Flood Insurance Rate Maps (FIRMs). This helps better define flood risk and is used extensively for land use planning by local governments and property owners. Since the WMPs may change based on growth and shifting priorities, the District also cooperates with local governments to update the WMPs when necessary, providing decision-makers opportunities throughout the program to determine when and where funds are needed.

**Quality of Water Improvement Program (QWIP)**

The QWIP was established in 1974 through Chapter 373, F.S., to restore groundwater conditions altered by well drilling activities for domestic supply, agriculture, and other uses. The program's primary goal is to preserve groundwater and surface water resources through proper well abandonment. Plugging abandoned artesian wells eliminates the waste of water at the surface and prevents mineralized groundwater from contaminating surface water bodies. Thousands of wells constructed prior to current well construction standards were often deficient in casing, which interconnected aquifer zones and enabled poor-quality mineralized water to migrate into zones containing potable-quality water.

Plugging wells involves filling the abandoned well with cement or bentonite. Isolation of the aquifers is reestablished and the mixing of varying water qualities and free flow is stopped. Prior to plugging an abandoned well, geophysical logging is performed to determine the reimbursement amount, the proper plugging method, to collect groundwater quality and geologic data for inclusion in the District's database. The emphasis of the QWIP is primarily in the Southern Water Use Caution Area (SWUCA) where the Upper Floridan aquifer is confined. Historically, the QWIP has proven to be a cost-effective method to prevent waste and contamination of potable ground and surface waters.

**Stormwater Improvements- Implementation of Storage and Conveyance BMPs**

The District’s WMPs and SWIM programs implement stormwater and conveyance best management practices (BMPs) for preventative flood protection, to improve surface water quality particularly in urban areas, and enhance surface and groundwater resources. The BMPs involve construction of improvements identified and prioritized in the development of watershed management plans. Most of the activities are developed through cooperative funding with a local government entity, Florida Department of Transportation, or state funding. Examples of the nearly 40 ongoing BMPs include the City of Tampa’s improvements to stormwater systems in the Manhattan and El Prado area and along Lois Avenue to relieve residential and street flooding, and Pasco County’s installation of a stormwater storage pond and facilities to mitigate flooding near the Riverside Oaks subdivision.

**Water Resource Development Projects**

The District currently has 13 projects that meet the definition of WRD “Projects.” As shown in Table 2, the total cost of these projects is approximately $156 million and a minimum of 54 million gallons per day (mgd) of additional water supply will be produced or conserved. At the start of FY2015 (October 1, 2014), the District has allocated approximately $7.5 million in the budget for these projects. This funding is consistent with the Programmatic Budget activity code 2.2.1. Beginning this year, additional projects that are related to water resource development and may require WRD Project funding within five years are itemized at the bottom of Table 2. The ongoing Upper Myakka/Flatford Swamp Hydrologic Restoration and Implementation Project is placed in this category and is budgeted as a surface water project (activity code 2.3.1).

District funding for a number of these projects is matched to varying degrees by local cooperators, including local governments, other water management districts and state agencies, and others. District funds for these projects are being generated through a number of different mechanisms described in the **Funding Sources** section of this report. Each of the projects in Table 2 is described in detail below.
<table>
<thead>
<tr>
<th>WRD Projects (Budget Code, Project Number)</th>
<th>Total Prior District Funding</th>
<th>FY2015 District Cost</th>
<th>FY2016 District Cost</th>
<th>FY2017 District Cost</th>
<th>FY2018 District Cost</th>
<th>FY2019 District Cost</th>
<th>Total Cost District + Cooperator</th>
<th>Funding Source</th>
<th>Quantity developed or conserved¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Clearwater Groundwater Replenishment Project (N179)</td>
<td>$1,603,868</td>
<td>$9,112</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$3,149,230</td>
<td>District, City of Clearwater</td>
<td>3 mgd</td>
</tr>
<tr>
<td>b) Hydrogeologic Investigation of Lower Floridan Aquifer in Polk County (P280)</td>
<td>$6,149,283</td>
<td>$79,666</td>
<td>$2,000,000</td>
<td>$4,000,000</td>
<td></td>
<td></td>
<td>$12,228,949</td>
<td>District</td>
<td>TBD</td>
</tr>
<tr>
<td>c) South Hillsborough Aquifer Recharge Program (SHARP) (N287)</td>
<td>$1,232,699</td>
<td>$12,767</td>
<td>$12,000</td>
<td>$50,000</td>
<td>$134,927</td>
<td></td>
<td>$2,829,893</td>
<td>District, Hillsborough County</td>
<td>2 mgd</td>
</tr>
<tr>
<td>2) Facilitating Agricultural Resource Management Systems (FARMS) (Programmatic Code 2.2.1.2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) FARMS Projects (H017)³</td>
<td>$38,231,663</td>
<td>$6,448,304</td>
<td>$6,000,000</td>
<td>$6,000,000</td>
<td>$6,000,000</td>
<td>$6,000,000</td>
<td>$97,300,000</td>
<td>FDACS, District, State of FL, private farms</td>
<td>40 mgd</td>
</tr>
<tr>
<td>b) Mini-FARMS Program (H529)³</td>
<td>$567,524</td>
<td>$118,344</td>
<td>$50,000</td>
<td>$50,000</td>
<td>$50,000</td>
<td>$50,000</td>
<td>$1,000,000</td>
<td>FDACS, District</td>
<td>2 mgd</td>
</tr>
<tr>
<td>c) FARMS Irrigation Well Back-Plugging Program (H015)³</td>
<td>$1,581,783</td>
<td>$60,547</td>
<td>$60,547</td>
<td>$60,547</td>
<td>$60,547</td>
<td>$60,547</td>
<td>$1,884,518</td>
<td>District</td>
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<tr>
<td>d) IFAS BMP Implementation Team (H579)³</td>
<td>$260,493</td>
<td>$9,843</td>
<td>$50,000</td>
<td>$50,000</td>
<td>$50,000</td>
<td>$50,000</td>
<td>$470,336</td>
<td>District, IFAS</td>
<td>TBD</td>
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<tr>
<td>FARMS Program Support (PMO5, Z370)³</td>
<td>$945,580</td>
<td>$147,283</td>
<td>$147,283</td>
<td>$147,283</td>
<td>$147,283</td>
<td>$147,283</td>
<td>$1,681,995</td>
<td>District</td>
<td>NA</td>
</tr>
</tbody>
</table>
Table 2 (Continued) FY2015 - FY2019 District Funding and Total Project Cost for Water Resource Development Projects

<table>
<thead>
<tr>
<th>WRD Projects (Budget Code, Project Number)</th>
<th>Total Prior District Funding</th>
<th>FY2015 District Cost</th>
<th>FY2016 District Cost</th>
<th>FY2017 District Cost</th>
<th>FY2018 District Cost</th>
<th>FY2019 District Cost</th>
<th>Total Cost District + Cooperator</th>
<th>Funding Source¹ ²</th>
<th>Quantity developed or conserved³</th>
</tr>
</thead>
<tbody>
<tr>
<td>3) Environmental Restoration/Minimum Flows and Levels Recovery* (Programmatic Code 2.2.1.3)</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Hillsborough River Groundwater Basin Evaluation (P286)</td>
<td>$0</td>
<td>$75,000</td>
<td>$75,000</td>
<td></td>
<td></td>
<td></td>
<td>$150,000</td>
<td>District</td>
<td>NA</td>
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<tr>
<td>b) Lake Jackson Watershed Hydrology Investigation (N554)</td>
<td>$65,977</td>
<td>$78,278</td>
<td>$85,631</td>
<td>$92,663</td>
<td>$78,957</td>
<td></td>
<td>$443,768</td>
<td>District, Highlands County, City of Sebring</td>
<td>NA</td>
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<tr>
<td>c) Lower Hillsborough River Recovery Strategy (H400)</td>
<td>$8,144,877</td>
<td>$109,265</td>
<td>$75,000</td>
<td>$75,000</td>
<td></td>
<td></td>
<td>$16,432,407</td>
<td>District, City of Tampa</td>
<td>TBD</td>
</tr>
<tr>
<td>d) Lower Hillsborough River Pumping Facilities (N492)</td>
<td>$382,726</td>
<td>$11,786</td>
<td>$1,001,933</td>
<td>$1,001,933</td>
<td></td>
<td></td>
<td>$4,850,044</td>
<td>District, City of Tampa</td>
<td>TBD</td>
</tr>
<tr>
<td>e) Pump Stations on Tampa Bypass Canal (H402)</td>
<td>$3,381,024</td>
<td>$287,016</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$3,381,024</td>
<td>District, City of Tampa</td>
<td>7.1 mgd</td>
</tr>
<tr>
<td>f) Lake Hancock Lake Level Modification (H008)</td>
<td>$9,897,140</td>
<td>$92,026</td>
<td>$109,831</td>
<td>$109,831</td>
<td>$109,831</td>
<td>$10,428,490</td>
<td>$156,490,729</td>
<td>District, State of FL, Federal</td>
<td>TBD</td>
</tr>
<tr>
<td>Water Resource Development Project Total (2.2.1)</td>
<td>$72,444,637</td>
<td>$7,539,237</td>
<td>$9,667,225</td>
<td>$11,637,257</td>
<td>$6,631,545</td>
<td>$6,417,661</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Projects Related to Water Resource Development

| Upper Myakka/Flatford Swamp Hydrologic Restoration and Implementation (2.3.1, H089)³  | $3,984,198                  | $171,277             | $9,220,500           | $9,220,500           | $9,220,500           | $9,220,500                 | $41,091,198                     | District, Mosaic Co.      | TBD                         |
|                                                                                       |                              |                      |                      |                      |                      |                      |                                  |                                |                             |

1. Acronyms: TBD - to be determined; NA - not applicable; mgd - million gallons per day; FDACS - Florida Department of Agriculture and Consumer Services; IFAS - University of Florida Institute of Agricultural Sciences.
2. Funding identified as the State of Florida is described in the Funding Sources section of this report.
3. Future funding budget estimates for which specific time frames are not yet determined are distributed evenly over four years.

Changes from the 2015 Work Program Table 2
a) One new project is included this year: Hillsborough River Groundwater Basin Evaluation.
b) The ASR Pretreatment Investigation, Bradenton Surface Water ASR Feasibility Study, and the Lake Hancock Outfall Structure Replacement were removed due to completion.
c) The Upper Myakka/Flatford Swamp Hydrologic Restoration and Implementation is currently funded under Surface Water Improvements in the Programmatic Budget, and was separated here to simplify the correlation of WRD Project funding with the total shown in the Programmatic Budget.
Alternative Water Supply Feasibility Research and Pilot Projects

The following projects are research and/or pilot projects designed to further the development of the innovative alternative water sources described in the RWSP. Included in these projects are feasibility projects for recharging the Upper Floridan aquifer with excess reclaimed water and the exploration of Lower Floridan aquifer zones as a viable water source for inland utilities. These projects may lead to the development and protection of major sources of water supply in the future. Two projects, the long-running ASR Pretreatment Investigation and City of Bradenton Surface Water ASR Feasibility Study, have been removed from this year’s Work Program due to their successful completion.

a. Clearwater Groundwater Replenishment Project (N179)

**Background** – This is a multiyear indirect potable reuse study to determine if purified water can be utilized to directly recharge the Upper Floridan aquifer at the City of Clearwater’s Northeast Water Reclamation Facility to supplement potable water withdrawals. The project would potentially enable the City to utilize 100 percent of its reclaimed water, supplement water supplies within the aquifer, and possibly provide a seawater barrier to help prevent saltwater intrusion along the coast. Phase 1 was a one-year desktop feasibility study to assess water level improvements, regulatory requirements and water treatment, estimate construction costs and conduct preliminary public outreach activities. Phase 2 includes permitting and installing recharge and monitor wells, collecting lithologic cores, performing aquifer testing and groundwater modeling, conducting pilot treatment and aquifer recharge testing, and additional public outreach. This phase of the project is nearing completion. If successful, this project could provide the City with the information needed to construct a full-scale aquifer recharge facility and potentially obtain up to 3 mgd in additional potable water supplies.

**Linkage to the Regional Water Supply Plan** – This project is listed as a WRD Project in the Tampa Bay regional volume of the 2010 RWSP, Chapter 7, Section 2.1, pages 140-141.

**Status** – The project experienced some delays from issues with the execution of technical agreements and a system malfunction with the injection system, but the project has gained ground during pilot injection operations and will be completed in 2015. Preliminary results are positive. The District has scheduled funds for plant construction as a water supply project in FY2015.

b. Hydrogeologic Investigation of the Lower Floridan Aquifer in Polk County (P280)

**Background** – This project explores the Lower Floridan aquifer in Polk County to assess its viability as an alternative water supply source and to gain a better understanding of the Lower Floridan characteristics and groundwater quality. These data will enhance groundwater modeling of the Lower Floridan aquifer, and determine the practicality of developing the aquifer as an alternative supply in areas of Polk County facing future water supply deficits. The overall scope of the investigation is to drill exploratory wells at up to six key locations chosen for their locality to water demand centers and to improve data coverage for groundwater resource monitoring and the Districtwide Regulation Model. If the tests prove that the water quality and productivity are suitable, the water and facilities could be made available to utilities in Polk County. Regardless of the suitability of the Lower Floridan aquifer for water supply at each site, the exploration wells will be significant additions to the District’s well monitoring network.

**Linkage to the Regional Water Supply Plan** – The completion of a 2006 Lower Floridan aquifer investigation in Polk County is discussed in the Chapter 1, Part B, Section 1 in the Heartland regional volume of the 2010 RWSP. A description of the Districtwide Regulation Model is provided in Section 5.4, page 18. The potential use of the Lower Floridan aquifer as new supply for Polk County is discussed in Chapter 4, pages 57-62. Brackish groundwater desalination of water pumped from the Lower Floridan is discussed in Chapter 5, pages 89-92.

**Status** – The District and selected consultants are developing exploration drilling plans and acquiring easements for three municipal sites in Polk County. An initial exploration monitor well will
be drilled on each site. If exploration phase shows positive results for treatable water quality and secure confinement from the Upper Floridan, a test/production well will be constructed to perform one or more aquifer performance tests to obtain productive capability and additional confinement information. The project is expected to run for approximately seven years.

c. South Hillsborough Aquifer Recharge Program (SHARP) (N287)

**Background** – This is an aquifer recharge pilot testing project that will assess the effects of using up to 2 mgd of treated excess reclaimed water from the South-Central Hillsborough County reclaimed water system to directly recharge a non-potable zone of the Upper Floridan aquifer at the County’s Big Bend ASR test well site. The project consists of the design, permitting, and construction of a reclaimed water recharge well system with associated wellhead and appurtenances, interconnects, and monitor wells. Project tasks include a multiyear aquifer recharge pilot study and groundwater modeling to evaluate water level improvements and water quality, including metals mobilization. The project may allow the County to utilize excess reclaimed water flows, improve water levels within the Most Impacted Area of the SWUCA, and potentially provide a salinity barrier against saltwater intrusion; as well as additional mitigation offsets for future groundwater supplies.

**Linkage to the Regional Water Supply Plan** – This project is not specifically covered in the 2010 RWSP, but is consistent with the other WRD recharge projects in Pinellas and Polk counties. Aquifer recharge is discussed in Chapter 4 of the 2010 RWSP, pages 73-74 in the Tampa Bay regional volume.

**Status** – The contractor has completed the injection and monitoring well construction, and is installing the equipment to operate wells during injection testing. The injection analysis is expected to run through 2016, and with positive results an operational permit may be obtained by 2017.

### Facilitating Agricultural Resource Management Systems (FARMS)

The FARMS Program is an agricultural BMP cost-share reimbursement program consisting of many site-specific projects. The Program is a public/private partnership developed by the District and the Florida Department of Agriculture and Consumer Services (FDACS). The purpose of the FARMS initiative is to provide an incentive to the District’s agricultural community to implement agricultural BMPs that will provide resource benefits including water quality improvement, reduced Upper Floridan aquifer withdrawals, and enhancements to the water resources and ecology.

The FARMS Program has five specific goals: (1) offset 40 mgd of groundwater within the SWUCA by 2025; (2) improve surface water quality impacted by mineralized groundwater within the Shell, Prairie, and Joshua Creek watersheds; (3) improve natural systems impacted by excess irrigation and surface water runoff within the Flatford Swamp region of the upper Myakka River watershed; (4) prevent groundwater impacts within the northern areas of the District; and (5) reduce frost-free pumppage by 20 percent within the Dover/Plant City WUCA. These goals are critical in the District’s overall strategy to manage water resources.

### a. FARMS Projects (H017)

**Background** – FARMS projects employ many of the agricultural water conservation strategies described in the RWSP to reduce groundwater withdrawals by increasing the water use efficiency of agricultural operations. The projects have the added benefit of reducing agricultural impacts to surface water features. The projects are public/private partnerships where the District provides financial incentives to farmers to increase the water use efficiency of their operations. Each project’s performance is tracked to determine its effectiveness toward program goals. Since actual use of permitted quantities is dependent on hydrologic conditions, one of the objectives of FARMS projects is to reduce groundwater use regardless of hydrologic conditions. FARMS projects not only offset groundwater use with surface water, but increase the overall efficiency of irrigation water use.
**Linkage to the Regional Water Supply Plan** – The FARMS Program is discussed in Chapter 7, Section 2.2 of each regional volume of the 2010 RWSP, and includes a list of active FARMS projects within the respective region.

**Status** – As of August 2014, there are 164 approved FARMS projects including 123 in the SWUCA and 21 frost-freeze protection projects in the Dover/Plant City WUCA. The projects are projected to have a cumulative groundwater offset of 25.5 mgd Districtwide and 23.7 mgd for the 123 Governing Board approved projects within the SWUCA. The projected offset for the frost-freeze protection projects (post-January 2010) within the Dover/Plant City WUCA is 43 mgd per freeze event. District staff continue to work with growers during the operational phase of projects to document the net improvement of water resources and develop continued and new partnerships to implement additional projects.

### b. Mini-FARMS Program (H529)

**Background** – Mini-FARMS (Mini-Facilitating Agricultural Resource Management Systems) is a scaled down version of the District’s FARMS cost-share reimbursement program to implement agricultural BMPs on agricultural operations of 100 irrigated acres or less to conserve water and protect water quality within the District. Mini-FARMS is intended to assist in the implementation of the District’s Regional Water Supply Plan, SWUCA Recovery Strategy, Dover Plant City Water Use Caution Area Recovery Strategy, the Shell and Prairie Creek Watershed Management Plan, and the District’s Strategic Plan. Much like the FARMS projects, the Mini-FARMS Program implements BMPs on agricultural operations to reduce Upper Floridan aquifer groundwater use and/or improve water quality conditions throughout the District. The maximum cost-share amount available from Mini-FARMS projects is $5,000 per agricultural operation per year, and maximum cost-share rate is 75 percent of project costs.

**Linkage to the Regional Water Supply Plan** – The Mini-FARMS Program is discussed as WRD in Chapter 7, Section 2.2 of each regional volume of the 2010 RWSP.

**Status** – As of September 2014, the District’s portion of the Mini-FARMS Program has reimbursed 83 water conservation BMP projects since FY2006. The total cost of the Mini-FARMS projects was $506,200 and the District’s reimbursement was $345,178. A total of 27 projects were approved during the FY2014 and 23 projects were completed for total of $112,569, with a reimbursed share from the District of $74,492. There are four remaining Mini-FARMS projects which are pending reimbursement for a total of $31,917 and District share of $16,871. The Mini-FARMS Program continues to receive a strong demand from growers within the District. The District has budgeted $100,000 for cost share grants in FY2015.

### c. FARMS Irrigation Well Back-Plugging Program (H015)

**Background** – This is an ongoing program for financial and technical assistance to well owners within the SWUCA to back-plug irrigation wells that produce highly mineralized groundwater. Back-plugging is a recommended practice to rehabilitate irrigation wells by identifying and restricting the intrusion of highly mineralized groundwater that often occurs from deeper aquifer zones in certain areas of the District. This program is separate from the QWIP, which focuses on proper well abandonment. The Back-Plugging Program was initiated in 2002 to improve water quality in watershed systems of the SWUCA, and later became an addition to the FARMS Program in 2005. Field investigations indicated that highly mineralized groundwater produced from older or deeper irrigation wells was the most likely source adversely impacting water quality downstream in Punta Gorda’s public supply reservoir. Growers experience several advantages from well back-plugging including elevated crop yields from reduced salts in irrigation groundwater, decreases in soil-water requirements and pumping costs, and reduced corrosion and fouling of irrigation equipment.

**Linkage to the Regional Water Supply Plan** – The FARMS Irrigation Well Back-Plugging Program is discussed in Chapter 5, Section 6, Subsection 2.5 of the Heartland regional volume of the
RWSP, and in Subsection 2.2 of the Northern, Tampa Bay, and Southern volumes. WRD funding for the program is identified in Chapter 7, Table 7-2 of the Southern, Tampa Bay, and Heartland volumes.

**Status** – A total of 74 wells have been back-plugged in the SWUCA overall to date, with 55 of these wells located in the Shell, Prairie and Joshua Creek (SPJC) priority watersheds. Analytical results for samples collected from the 55 back-plugged wells in the SPJC area indicated averages of conductivity, total dissolved solids (TDS), and chloride were decreased by 41 percent, 43 percent, and 59 percent, respectively, with well yields retained at an average of 78 percent. For the 19 wells in the SWUCA (outside of the SPJC area), eight wells were back-plugged in the Peace River watershed, six in the Alafia River watershed, four in the Manatee River watershed, and one in the Myakka River watershed. Analytical results for all back-plugged wells combined in the SWUCA indicated conductivity, TDS, and chloride were decreased by 42 percent, 42 percent, and 58 percent, respectively, with well volume yields retained at an average of 77 percent. Routine water quality monitoring of select back-plugged wells assures that these improvements are sustained long-term.

**d. University of Florida’s Institute of Food and Agricultural Services (IFAS) BMP Implementation Project (H579)**

**Background** – The primary goal of this project is to assist the IFAS in promoting statewide FDACS adopted agricultural BMPs, typical FARMS projects, and other practices and preparation. District participation in this project promotes the establishment of additional FARMS projects, which provides water resource benefits throughout the District. Assistance is provided to growers in conducting site assessments, selecting applicable FDACS BMPs, and filing notices of intent (NOIs) to implement the practices. Staff will follow up with growers to determine whether they need help understanding or implementing the BMPs. Technical assistance may be provided directly or by coordinating with the appropriate FDACS staff or IFAS extension agents. Growers are informed of available BMP-related programs offered by FDACS, the water management districts, and other entities. Field demonstrations, workshops, and other educational opportunities will be provided to growers and their employees. Technical assistance will also identify areas of future educational needs.

**Linkage to the Regional Water Supply Plan** – This project assists the FARMS Program in reaching its agricultural water conservation goals, which are critical to the District's strategy to manage water resources. The FARMS Program is discussed in Chapter 7, Section 2.2 of each regional volume of the 2010 RWSP.

**Status** – As of June 2014, FDACS has developed and adopted seven BMP manuals covering cow/calf operations, citrus, vegetable and agronomic crops, nurseries, equine operations, specialty fruit and nut crops, and sod operations. Other rules and documents related to IFAS BMPs include: Best Management Practices for Agriculture in the Lake Okeechobee Watershed, Tri-County Agricultural Area Potato Farms, Conservation Plans for Specific Agricultural Operations, Florida Forest Service Silviculture Best Management Practices, and Aquaculture Best Management Practices. Below is a list of the statewide and districtwide BMP enrollment to date, which includes the number of NOIs submitted and the associated acres enrolled as of June 2014.
Summary of groves, farms and nurseries enrolled statewide as of June 30, 2014 in Ag BMP Programs by the BMP Implementation Teams.

<table>
<thead>
<tr>
<th>Usage</th>
<th>Acres Statewide</th>
<th>Acres Districtwide</th>
<th>Acres # of NOIs Statewide</th>
<th>Acres # of NOIs Districtwide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus</td>
<td>581,612</td>
<td>234,170</td>
<td>3,381</td>
<td>2,498</td>
</tr>
<tr>
<td>Cow/Calf</td>
<td>2,318,977</td>
<td>720,444</td>
<td>1,048</td>
<td>333</td>
</tr>
<tr>
<td>Dairies</td>
<td>47,811</td>
<td>1,240</td>
<td>26</td>
<td>2</td>
</tr>
<tr>
<td>Equine</td>
<td>1,970</td>
<td>918</td>
<td>49</td>
<td>23</td>
</tr>
<tr>
<td>Fruit/Nuts</td>
<td>8,298</td>
<td>5,328</td>
<td>205</td>
<td>105</td>
</tr>
<tr>
<td>Mixed use</td>
<td>101,324</td>
<td>1,410</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>Nursery</td>
<td>29,760</td>
<td>5,986</td>
<td>1,203</td>
<td>146</td>
</tr>
<tr>
<td>Row Crops</td>
<td>1,044,345</td>
<td>94,947</td>
<td>1,307</td>
<td>292</td>
</tr>
<tr>
<td>Sod Farms</td>
<td>34,596</td>
<td>9,519</td>
<td>61</td>
<td>21</td>
</tr>
<tr>
<td>Forestry</td>
<td>5,305,121</td>
<td>21</td>
<td>419</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9,473,815</strong></td>
<td><strong>1,073,963</strong></td>
<td><strong>7,703</strong></td>
<td><strong>3,421</strong></td>
</tr>
</tbody>
</table>


Environmental Restoration and MFL Recovery Projects

Included in this section are six environmental restoration and MFL recovery projects that will benefit water resources. Chapter 2, Part B of the 2010 RWSP (each regional volume) outlines the District’s strategy for establishing MFLs for surface waters, aquifers, and surface watercourses.

Three of the projects are key portions of the recovery strategy to restore minimum flows to the Lower Hillsborough River (LHR). Flows in the LHR have been reduced by a variety of factors including increased use of the Hillsborough River Reservoir, surface water drainage alterations, reduction in surface storage, long-term rainfall patterns, and induced recharge due to groundwater withdrawals. The District set minimum flows for the LHR, Sulphur Springs, and the Tampa Bypass Canal in 2007. These MFLs have been incorporated as amendments to Rule 40D-8.041, F.A.C. The LHR’s flows have been below the adopted minimum flows in recent years, and the development of a recovery strategy was required by Florida Statutes. The recovery strategy will ensure that natural resources associated with the LHR are protected from significant harm by increasing freshwater flows during the months of April, May, and June to support the estuarine nursery habitat.

One project, the Lake Hancock Lake Level Modification, is an ongoing component of the recovery strategy to restore minimum flows to the upper segment of the Peace River. Another component, the Lake Hancock P-11 Outfall Structure Replacement project, has been removed for this year’s Work Program due its successful completion. The flows of upper Peace River have been below the adopted minimum flows, and a recovery strategy was required by Florida Statutes. The goal of the Lake Hancock projects is to store water by raising the lake’s controlled water elevation and to slowly release the water into the upper Peace River during the dry season to help meet the minimum flow requirements.

a. Hillsborough River Groundwater Basin Evaluation (P286)

**Background** – This project is a study to determine the zone of influence for groundwater withdrawals from the Upper Floridan aquifer which impact the flow in the Hillsborough River. The study will utilize a new, fully integrated surface water/ground-water flow model called the Integrated Northern Tampa Bay model (INTBM) that covers a 4,000 square mile region surrounding Tampa Bay. The model was developed by the District and Tampa Bay Water in 2012 and underwent a successful peer review in 2013. This model is the most advanced simulation tool available to evaluate changes to the hydrologic system and is capable of directly determining flow impacts to the Hillsborough River from groundwater withdrawals. The project will evaluate the water resource condition of the Hillsborough River basin by analyzing data, performing statistical analyses, and using the INTBM to determine an appropriate zone or zones where increased quantities from either existing or new WUPs may significantly impact flow on the Hillsborough River.
**Linkage to the Regional Water Supply Plan** – Although not specifically discussed in the 2010 RWSP, modeling investigations conducted by the District are described in pages 16-18 in the Tampa Bay Regional volume. This project provides better science-based criteria for evaluating groundwater withdrawals in the Northern Tampa Bay WUCA and supports a consistent technical approach to managing water resources.

**Status** – This is a new project commencing in 2015 and is expected to continue through 2016.

**b. Lake Jackson Watershed Hydrology Investigation (N554)**

**Background** – Lake Jackson is a 3,412 acre lake located in the town of Sebring, and is one of nine lakes in Highlands County with an established MFL. Lake Jackson has not met its MFL over the last 10 years. Residents and local officials have voiced concerns over persistent low water levels potentially related to storm water canal structures, potential flow through the shallow aquifer to the canals, and possible leakage in the lake’s hardpan bottom. This hydrologic investigation will collect data and attempt to identify the causes of the low water level in Lake Jackson and Little Jackson over the last decade and develop cost-effective recovery strategies. Aspects of the project include: (1) an assessment of the storm water structures including the underwater portions, channel flow, and the installation of seepage meters; (2) installation of groundwater, lake level, and weather monitoring networks in order to calculate a more accurate lake water budget; and (3) modeling the effects of a proposed subsurface wall on the lateral movement of water from Lake Jackson through the shallow aquifer to downstream sources, and calculating its potential improvement to the level of Lake Jackson. The project will include a cost-benefit analysis if the investigation and modeling shows the subsurface wall or other recovery strategies may be beneficial to the lake water levels.

**Linkage to the Regional Water Supply Plan** – Although not specifically discussed in the 2010 RWSP, this project supports the SWUCA Recovery Strategy objective of stabilizing lake levels in Highlands County, discussed in Chapter 2, Part A, of the Heartland regional volume.

**Status** – The project agreement between the District and Highlands County is pending execution in fall 2014. The project is expected to continue through 2018.

**c. Lower Hillsborough River Recovery Strategy (H400)**

**Background** – The Lower Hillsborough River recovery strategy outlines six proposed projects and a timeline for their implementation. Four projects are being jointly funded by the District and the City of Tampa, and two are being implemented by the District. Implementation of specific projects is subject to applicable diagnostic/feasibility studies and contingent on any required permits. These projects and the estimated schedule of implementation are: Tampa Bypass Canal Diversions (2008), modifications to the weir (2011) and pump station (2012) at Sulphur Springs, the Blue Sink project (2015), the Morris Bridge Sink project (2014), and the Investigation of Storage Options (2016).

**Linkage to the Regional Water Supply Plan** – This project is discussed in the Tampa Bay regional volume of the 2010 RWSP, Chapter 7, pages 144-145. The project is a component of the District's MFLs Program, which is detailed in Chapter 2, Part A.

**Status** – Dependent on hydrologic conditions, water to help meet the MFLs for the LHR continues to be supplied by a pump station that diverts flows (up to 11 mgd) from Sulphur Springs to the base of the City of Tampa Dam and from the Tampa Bypass Canal (7.1 mgd). Four cooperative agreements with the City of Tampa for the recovery strategy were approved in 2010. The agreements to modify the lower weir and pump station at the pool of Sulphur Springs have been completed. The City of Tampa was issued a water use permit application to withdraw up to 2 mgd from Blue Sink to transport it via pipeline to the base of the Hillsborough River dam. The District will cooperatively fund that project. The District will submit a water use permit application to FDEP to use up to 3.9 mgd of water from Morris Bridge Sink for diversion through the Tampa Bypass Canal to the base of the dam. There is also an ongoing cooperative study with the City and the District for the
investigation of additional water sources and supply options that may be needed to meet minimum flows.

d. Lower Hillsborough River Pumping Facilities (N492)

**Background** – This is a multiyear cooperative funding project with the City of Tampa for the construction of two permanent pumping facilities to implement the minimum flows recovery strategy for the LHR. Since 2008, the District has been operating two temporary pumping stations to transfer up to 7.1 mgd of water from the Tampa Bypass Canal to the Hillsborough River reservoir and up to 5.3 mgd from the reservoir to the river below the dam to meet the required minimum flows of the recovery strategy. The temporary facilities were implemented to get the recovery strategy underway while the City evaluated options for permanent pumping facilities.

**Linkage to the Regional Water Supply Plan** – This project is discussed in the Tampa Bay regional volume of the 2010 RWSP, Chapter 7, pages 144-145. The project is a component of the District’s MFLs Program, which is detailed in Chapter 2, Part A.

**Status** – The City completed two investigations in December 2013 on which the design configuration was dependent; one investigation compared the modification of an existing pump structure on the Tampa Bypass Canal versus the construction of a new pump structure on the canal, the other was for a siphon system at the Hillsborough River Dam. The studies have allowed the selection of options that provide considerable cost savings. The design and permitting work is ongoing and is expected to continue through February 2016, with construction completed by October 2017.

e. Pump Stations on the Tampa Bypass Canal (H402)

**Background** – Beginning January 1, 2008, the District became responsible for diverting up to 75 percent of the 7.1 mgd of water from the Tampa Bypass Canal to the LHR in accordance with adopted minimum flow requirements. The diversion is achieved through two pump stations located on the Tampa Bypass Canal and a pump station located at the City of Tampa Dam. This project accounts for District expenses of the water transfer. The project also includes design and construction of a permanent pump station at the Morris Bridge Sinkhole to divert 3.9 mgd to the Tampa Bypass Canal.

**Linkage to the Regional Water Supply Plan** – This project is a component of the Lower Hillsborough Recovery Strategy discussed in the Tampa Bay regional volume of the 2010 RWSP, Chapter 7, pages 144-145. The District’s MFLs Program is detailed in Chapter 2, Part A.

**Status** – The transfer pumps are being operated in accordance with the approved recovery strategy for the LHR to meet minimum flows. Pump operation is expected to continue until the City of Tampa completes new pumping facilities (Project N492 above).

f. Lake Hancock Lake Level Modification Project (H008)

**Background** – The Lake Hancock Lake Level Modification project is part of the strategy for achieving MFLs recovery for the upper Peace River established by the District. The goal of the Lake Level Modification project is to store water by raising the control elevation of the existing outflow structure on Lake Hancock and to slowly release the water during the dry season to help meet the minimum flow requirements in the upper Peace River between Bartow and Zolfo Springs. Historically, Lake Hancock fluctuated more than a foot higher than it has during the past several decades. The project increases the normal operating level from 98.7 feet to 100.0 feet by replacing the outfall structure to provide the storage and increase the number of days the upper Peace River will meet minimum flows. Increasing the operating level will also help restore wetland function for several hundred acres of contiguous lands to Lake Hancock, and provide recharge to the Upper Floridan aquifer through exposed sinks along the upper Peace River. The project will further the
efforts to restore minimum flows in the upper Peace River, which is a major component of the District’s SWUCA Recovery Plan.

This project is being conducted in 3 steps: Step (1) provided the preliminary evaluations and incremental probable costs for raising the normal high operating lake levels. The results of Step 1 were presented to the District Governing Board in October 2004 and the decision was made to move forward with Step 2 of the project. Step (2) involved generating detailed information for submission of a Conceptual Environmental Resource Permit (ERP), and to identify impacts to private lands for acquisition and other mitigation needs (environmental, facilities, etc.). Major components of the Conceptual ERP include: pre- and post-condition analysis; private property, dwelling, environmental, and infrastructure mitigation; outfall structure operation characteristics; and an anticipated fluctuation schedule for the lake. Step 2 was completed in 2007. Step (3) is the implementation of the mitigation components described in the Conceptual ERP.

Linkage to the Regional Water Supply Plan – This project and other components of Restoration of Minimum Flows to the upper Peace River are listed in Chapter 7 of the Heartland regional volume of the 2010 RWSP, pages 126-129.

Status – The titles of all parcels necessary to implement the project have been acquired (74 parcels, 8,340 acres). Construction of the new P-11 Outfall Structure was completed in September 2013 and is fully operational. The Lakeland Cemetery conveyance improvements project was completed in November 2012. Construction of the State Road 540 conveyance improvement project was completed in October 2013. Construction of conveyance improvement projects on additional parcels is ongoing. Post project construction monitoring is expected to continue through 2019.

Other Projects Related to Water Resource Development

Beginning with this edition of the Work Program, projects that are not budgeted under Water Resource Development Programmatic Activity code 2.2.1 but have a critical role in water resource development are listed separately in Table 2. This is intended to simplify the correlation of the project budget totals to the District’s programmatic budget. The one project below is budgeted under 2.3.1 – Surface Water Management for FY2015. It’s anticipated that future project phases for design and construction of BMPs will be budgeted under the Water Resource Development category.

Upper Myakka/Flatford Swamp Hydrologic Restoration and Implementation (H089)

Background – Hydrologic alterations and excess runoff has adversely impacted Flatford Swamp in the upper Myakka watershed. This project differs from MFL recovery projects, as it intends to remove excessive flows from the Flatford Swamp and portions of the surrounding area to improve the natural systems. The Flatford Swamp hydrologic restoration alternative will work to re-establish hydroperiods close to historic levels and to restore natural systems.

Linkage to the Regional Water Supply Plan – This project is discussed as a WRD Project in the Southern regional volume of the 2010 RWSP, Chapter 7, page 136.

Status – A joint feasibility study with Mosaic was completed in March 2013 indicating a project to utilize the excess water from the swamp is feasible. Staff continue to discuss a mutually agreeable partnership with Mosaic to implement a restoration project with conveyance of excess water for beneficial use. Staff are also researching an injection option for the excess water to recharge the aquifer and are collecting water quality information.
Water Supply Development Assistance

Regional water supply authorities, local governments, and public and privately owned water utilities typically have the lead role in implementing water supply development (WSD) projects (Chapter 373.705, F.S.). The District provides funding assistance to these entities for projects that are consistent with the District’s RWSP and meet one of the following criteria: the project provides a dependable supply of water and would not otherwise be financially feasible to develop; the project has substantial environmental or water resource benefits but needs funding assistance to be economically competitive with other project alternatives; or the project significantly implements the reuse, storage, recharge, or conservation of water in a manner that helps sustain regional water sources.

The District has budgeted for 95 water supply development projects in FY2015. As shown in Tables 3 through 9, the District is funding approximately $42.6 million in FY2015 for water supply development assistance. This amount includes approximately $6.46 million for the Springs Initiative funding provided by FDEP and budgeted by the District. The Springs Initiative funding is allocated to five projects: the Bushnell/Bethel Farms Wastewater Treatment Project, the City of Crystal River to Duke Energy Reclaimed Water Project, the Pasco Heritage Pines Residential Reclaimed Water Project, the Sugarmill Woods Advance Wastewater Retreatment and Reuse Project, and the Zephyrhills Advanced Wastewater and Reuse Recharge Project.

The WSD projects are categorized below as surface water projects, regional potable water interconnects, reclaimed water projects, brackish groundwater development, aquifer recharge and ASR projects, and conservation projects. It should be noted that many projects in the aquifer recharge and ASR category also have reclaimed water components. Projects within each category are sorted by the project number.

Funding amounts of less than $10,000 generally represent ongoing management expenses of projects that received grant funding in a previous year. Most of the project costs are matched on a 50/50 cost-share basis through the District’s Cooperative Funding Initiative, and a few may have received state and/or federal funding. The “total project cost” typically includes the cooperators’ shares and other non-District funding sources.

The District has also budgeted for 11 water supply planning efforts at a cost of approximately $0.93 million. The planning projects are listed in Table 10 and totaled separately from the WSD projects. Some are planning projects for governmental entities conducted through the Cooperative Funding Initiative, like the Burnt Store Wellfield Study. Others are planning efforts by District staff to identify and evaluate future water supply projects to efficiently meet demands, including the CFWI. The water supply efforts are performed collaboratively with other water management districts, water supply authorities, utilities, and other stakeholders including agricultural and industry communities. The funding for water supply planning is consistent with the Programmatic Budget activity code 1.1.1.
### Table 3. FY2015 Surface Water Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Water Supply Development Assistance - Surface Water Projects (Programmatic Budget 2.2.2.1)</th>
<th>FY2015 Funding</th>
<th>Prior District Funding</th>
<th>Total Project Cost</th>
<th>Supply (mgd)</th>
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<tbody>
<tr>
<td>N671</td>
<td>PRMRWSA Facility Treatment Capacity Expansion 3 mgd</td>
<td>$750,000</td>
<td>$0</td>
<td>$3,000,000</td>
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<tr>
<td></td>
<td><strong>Total Surface Water Projects</strong></td>
<td><strong>$750,000</strong></td>
<td><strong>$0</strong></td>
<td><strong>$3,000,000</strong></td>
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### Table 4. FY2015 Regional Potable Interconnects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Water Supply Development Assistance - Regional Potable Water Interconnects (Programmatic Budget 2.2.2.2)</th>
<th>FY2015 Funding</th>
<th>Prior District Funding</th>
<th>Total Project Cost</th>
<th>Supply (mgd)</th>
</tr>
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<tbody>
<tr>
<td>H094</td>
<td>Polk County Partnership</td>
<td>$10,000,000</td>
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<td>$160,000,000</td>
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<td>N416</td>
<td>PRMRWSA Regional Interconnect Phase 1 to Punta Gorda</td>
<td>$250,000</td>
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<td>$140,000,000</td>
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<tr>
<td>N518</td>
<td>Regional Pipeline Interconnect with City of Venice</td>
<td>$6,562</td>
<td>$301,515</td>
<td>$603,077</td>
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<td></td>
<td><strong>Total Regional Interconnect Projects</strong></td>
<td><strong>$10,256,562</strong></td>
<td><strong>$301,515</strong></td>
<td><strong>$174,603,077</strong></td>
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### Table 5. FY2015 Reclaimed Water Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Water Supply Development Assistance - Reclaimed Water Projects (Programmatic Budget 2.2.2.3)</th>
<th>FY2015 Funding</th>
<th>Prior District Funding</th>
<th>Total Project Cost</th>
<th>Benefit (mgd)</th>
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<tbody>
<tr>
<td>H056</td>
<td>Pasco County Boyette Wet-Weather Reclaimed Water Reservoir</td>
<td>$3,501,289</td>
<td>$9,166,059</td>
<td>$39,235,818</td>
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<tr>
<td>H076</td>
<td>Southwest Polk County/Tampa Electric Reclaimed Water Project</td>
<td>$4,702,656</td>
<td>$38,647,598</td>
<td>$97,459,874</td>
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<tr>
<td>H085</td>
<td>Charlotte County Regional Reclaimed Water Expansion Phase 2</td>
<td>$608</td>
<td>$1,503,673</td>
<td>$2,818,832</td>
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<tr>
<td>H092</td>
<td>Pasco County Reclaimed Water Natural Systems Restoration</td>
<td>$2,630</td>
<td>$675,675</td>
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<td>H093</td>
<td>Manatee County 10 MG Reclaimed Water Storage Tank #2</td>
<td>$608</td>
<td>$3,285,152</td>
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<td>L816</td>
<td>Plant City Sydney Road Reclaimed Water Project</td>
<td>$2,545</td>
<td>$2,603,879</td>
<td>$6,143,324</td>
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<tr>
<td>N024</td>
<td>Polk County NWRUSA Storage and Pumping Station</td>
<td>$9,202</td>
<td>$2,300,136</td>
<td>$5,257,083</td>
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<tr>
<td>N336</td>
<td>Braden River Utilities to Bradenton Reclaimed Interconnect</td>
<td>$892</td>
<td>$7,005,677</td>
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<tr>
<td>N339</td>
<td>Winter Haven #3 Reclaimed Interconnect, Storage, and Pumping</td>
<td>$1,730</td>
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<tr>
<td>N358</td>
<td>City of Crystal River to Duke Energy Reclaimed Interconnect</td>
<td>$9,034</td>
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<td>N370</td>
<td>FGUA Wet Weather Reclaimed Water Project</td>
<td>$892</td>
<td>$1,203,732</td>
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<tr>
<td>N442</td>
<td>Pasco County Seven Springs Golf &amp; Country Club Reuse</td>
<td>$2,106</td>
<td>$303,048</td>
<td>$605,154</td>
<td>0.380</td>
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<td>N462</td>
<td>Pasco County Groves Reclaimed Supply, Storage Pond Improvement</td>
<td>$1,474</td>
<td>$103,048</td>
<td>$204,552</td>
<td>0.180</td>
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<td>N464</td>
<td>Pasco County Meadow Point Reclaimed Transmission Main</td>
<td>$401,419</td>
<td>$593,048</td>
<td>$1,984,467</td>
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<td>N470</td>
<td>Pasco County Covanta Reclaimed Water Power Plant Project</td>
<td>$4,179</td>
<td>$903,048</td>
<td>$1,807,227</td>
<td>0.470</td>
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<td>N488</td>
<td>Manatee County Regional 10 MG Reclaimed Storage Tank Southeast #3</td>
<td>$1,354,145</td>
<td>$3,067,503</td>
<td>$8,830,395</td>
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</tr>
<tr>
<td>Project Number</td>
<td>Water Supply Development Assistance - Reclaimed Water Projects (Programmatic Budget 2.2.2.3)</td>
<td>FY2015 Funding</td>
<td>Prior District Funding</td>
<td>Total Project Cost</td>
<td>Benefit (mgd)</td>
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<tr>
<td>N494</td>
<td>Tarpon Springs Reclaimed Water Controls and Storage System</td>
<td>$1,769,211</td>
<td>$528,285</td>
<td>$4,582,449</td>
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<td>N512</td>
<td>Venice Reclaimed Water Filtration System</td>
<td>$4,991</td>
<td>$786,515</td>
<td>$1,571,506</td>
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<td>N524</td>
<td>Pasco Handcart Road Reclaimed Water Pump Station Expansion</td>
<td>$1,397</td>
<td>$126,341</td>
<td>$252,738</td>
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<td>N536</td>
<td>Auburndale Polytechnic Reclaimed Water Storage and Transmission</td>
<td>$1,004,134</td>
<td>$356,416</td>
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<td>N547</td>
<td>Pasco Heritage Pines Residential Reclaimed Water Service</td>
<td>$603,458</td>
<td>$334,641</td>
<td>$1,571,399</td>
<td>0.430</td>
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<td>N552</td>
<td>Plant City Reclaimed Water Seasonal Storage AWS Feasibility Study</td>
<td>$1,697</td>
<td>$24,157</td>
<td>$45,854</td>
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<td>N555</td>
<td>Dunedin San Christopher Reclaimed Water Storage Tanks</td>
<td>$3,549</td>
<td>$885,832</td>
<td>$1,769,381</td>
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<td>N556</td>
<td>Charlotte County Reclaimed Water Expansion Phase 3</td>
<td>$7,645</td>
<td>$242,265</td>
<td>$9,444,160</td>
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<td>N561</td>
<td>Clearwater Resident Initiated Reclaimed Water Expansion</td>
<td>$7,289</td>
<td>$752,164</td>
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<td>N596</td>
<td>Oak Run to JB Ranch Reclaimed Water Main</td>
<td>$154,969</td>
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<td>$1,454,969</td>
<td>0.270</td>
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<td>N601</td>
<td>Hillsborough/Tampa/Temple Terrace Reclaimed Recharge Study</td>
<td>$166,709</td>
<td>$0</td>
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<td>N604</td>
<td>Venice Reclaimed Water Interconnect Feasibility Study</td>
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<td>$0</td>
<td>$54,209</td>
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<td>N629</td>
<td>Quail Hollow Golf Course Reclaimed Transmission Storage Pumping</td>
<td>$203,171</td>
<td>$0</td>
<td>$403,171</td>
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<td>N630</td>
<td>Rod Lincoln Groves Reclaimed Water Transmission</td>
<td>$103,171</td>
<td>$0</td>
<td>$203,171</td>
<td>0.250</td>
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<td>N649</td>
<td>Shady Hills Reclaimed Water Storage Tank</td>
<td>$252,105</td>
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<td>$2,002,105</td>
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<td>N652</td>
<td>Hillsborough County 19th Ave Reclaimed Water Transmission</td>
<td>$354,209</td>
<td>$0</td>
<td>$2,704,209</td>
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<tr>
<td>N654</td>
<td>Altman Groves Reclaimed Water Transmission Main</td>
<td>$92,105</td>
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<td>$182,105</td>
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<td>N666</td>
<td>Pasco Reclaimed Water Treatment Westland and Aquifer Recharge</td>
<td>$397,237</td>
<td>$0</td>
<td>$781,737</td>
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<td>N667</td>
<td>North Port Reclaimed Water Transmission Main Phase 3</td>
<td>$40,645</td>
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<tr>
<td>N670</td>
<td>Pasco County Starkey Ranch Reclaimed Water Transmission</td>
<td>$385,830</td>
<td>$225,000</td>
<td>$610,830</td>
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<tr>
<td>N672</td>
<td>Zephyrhills Advanced Wastewater Treatment Project</td>
<td>$1,250,000</td>
<td>$0</td>
<td>$9,330,000</td>
<td>2.190</td>
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<tr>
<td>N673</td>
<td>Bushnell Bethel Farms Wastewater reuse</td>
<td>$909,833</td>
<td>$0</td>
<td>$909,833</td>
<td>0.210</td>
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<tr>
<td>PM02</td>
<td>PMO Water Supply Support</td>
<td>$14,493</td>
<td>$0</td>
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<tr>
<td>PM07</td>
<td>PMO Cooperative Funding Support</td>
<td>$74,514</td>
<td>$0</td>
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<tr>
<td>WC02</td>
<td>Reclaimed Water Sugarmill Woods Advanced Wastewater Reuse</td>
<td>$4,005,975</td>
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<td>$12,005,975</td>
<td>0.470</td>
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<tr>
<td>Z557</td>
<td>Water Supply Support</td>
<td>$268,770</td>
<td>$1,199,261</td>
<td>$1,468,031</td>
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<tr>
<td>Z585</td>
<td>Project Management Office</td>
<td>$348,441</td>
<td>$740,902</td>
<td>$1,089,343</td>
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<td>ZC57</td>
<td>Water Supply Support - CFI</td>
<td>$46,753</td>
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Total Reclaimed Water Projects: $22,496,919 | $82,883,056 | $250,429,078 | 30.335
Table 6. FY2015 Brackish Groundwater Development Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Water Supply Development Assistance - Brackish Groundwater Development Projects (Programmatic Budget 2.2.2.4)</th>
<th>FY2015 Funding</th>
<th>Prior District Funding</th>
<th>Total Project Cost</th>
<th>Supply (mgd)</th>
</tr>
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<tbody>
<tr>
<td>L825</td>
<td>Tarpon Springs Alternative Water Supply Project</td>
<td>$3,749</td>
<td>$20,173,515</td>
<td>$45,035,369</td>
<td>5.000</td>
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<tr>
<td>N176</td>
<td>Clearwater Brackish Facility at Water Treatment Plant No. 2</td>
<td>$4,396,604</td>
<td>$10,853,016</td>
<td>$30,466,510</td>
<td>5.000</td>
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<tr>
<td>N563</td>
<td>Belleair Brackish Groundwater Pilot Testing and Engineering for Potential Use</td>
<td>$5,947</td>
<td>$123,384</td>
<td>$229,231</td>
<td>NA</td>
</tr>
<tr>
<td>N600</td>
<td>Punta Gorda Brackish Wellfield Investigation</td>
<td>$1,502,960</td>
<td>$0</td>
<td>$3,002,960</td>
<td>NA</td>
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<tr>
<td><strong>Total Brackish Groundwater Projects</strong></td>
<td></td>
<td><strong>$5,909,260</strong></td>
<td><strong>$31,149,915</strong></td>
<td><strong>$78,734,070</strong></td>
<td>10.000</td>
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Table 7. FY2015 Aquifer Recharge and Aquifer Storage and Recovery Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Water Supply Development Assistance - Aquifer Recharge &amp; Aquifer Storage and Recovery Projects (Programmatic Budget 2.2.2.5)</th>
<th>FY2015 Funding</th>
<th>Prior District Funding</th>
<th>Total Project Cost</th>
<th>Supply (mgd)</th>
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<tbody>
<tr>
<td>K120</td>
<td>North Port Potable Water ASR for Potable Water</td>
<td>$9,213</td>
<td>$1,072,623</td>
<td>$2,115,906</td>
<td>NA</td>
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<tr>
<td>K269</td>
<td>Sarasota County North Reclaimed Water ASR</td>
<td>$7,068</td>
<td>$1,605,472</td>
<td>$3,298,922</td>
<td>NA</td>
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<tr>
<td>L608</td>
<td>Palmetto Reclaimed Water ASR</td>
<td>$17,153</td>
<td>$2,205,234</td>
<td>$4,181,499</td>
<td>NA</td>
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<tr>
<td>N398</td>
<td>City of Oldsmar Reclaimed Water ASR</td>
<td>$8,142</td>
<td>$527,311</td>
<td>$1,751,005</td>
<td>NA</td>
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<tr>
<td>N435</td>
<td>Bradenton Surface Water ASR for Potable Water</td>
<td>$1,121,565</td>
<td>$314,606</td>
<td>$6,936,171</td>
<td>0.660</td>
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<tr>
<td>N665</td>
<td>Clearwater Groundwater Replenishment Project Phase 3</td>
<td>$1,575,893</td>
<td>$0</td>
<td>$14,311,893</td>
<td>2.400</td>
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<tr>
<td><strong>Total Aquifer Recharge/ASR Projects</strong></td>
<td></td>
<td><strong>$2,739,034</strong></td>
<td><strong>$5,725,246</strong></td>
<td><strong>$32,595,396</strong></td>
<td><strong>3.060</strong></td>
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</table>

Table 8. FY2015 Water Conservation Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Water Supply Development Assistance - Conservation Rebates, Retrofits, Etc. Projects (Programmatic Budget 2.2.2.7)</th>
<th>FY2015 Funding</th>
<th>Prior District Funding</th>
<th>Total Project Cost</th>
<th>Benefit (mgd)</th>
</tr>
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<tbody>
<tr>
<td>N107</td>
<td>Braden River Soil Moisture Sensor Pilot Project</td>
<td>$1,913</td>
<td>$115,201</td>
<td>$217,114</td>
<td>TBD</td>
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<tr>
<td>N321</td>
<td>Mira Bay Weather Based Controller Project</td>
<td>$5,977</td>
<td>$27,524</td>
<td>$53,121</td>
<td>0.023</td>
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<tr>
<td>N363</td>
<td>Polk County Landscape Irrigation Evaluation</td>
<td>$1,913</td>
<td>$94,925</td>
<td>$188,248</td>
<td>0.166</td>
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<tr>
<td>N365</td>
<td>Bay Laurel Center CDD Toilet Rebate Program</td>
<td>$6,455</td>
<td>$40,392</td>
<td>$71,037</td>
<td>0.008</td>
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<tr>
<td>N382</td>
<td>Pasco County Toilet Rebate Program Phase 5</td>
<td>$1,208</td>
<td>$106,396</td>
<td>$207,604</td>
<td>0.037</td>
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<tr>
<td>N397</td>
<td>Home Depot Rainwater Harvesting and Commercial Reuse</td>
<td>$6,345</td>
<td>$329,567</td>
<td>$655,201</td>
<td>0.034</td>
</tr>
<tr>
<td>N411</td>
<td>Marion County Toilet Rebate Program Phase 2</td>
<td>$1,208</td>
<td>$52,085</td>
<td>$103,293</td>
<td>0.016</td>
</tr>
<tr>
<td>N423</td>
<td>City of Venice Toilet Replacement Program Phase 2</td>
<td>$597</td>
<td>$47,401</td>
<td>$90,748</td>
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</tr>
<tr>
<td>N427</td>
<td>New Port Richey Toilet Rebate Program Phase 1</td>
<td>$586</td>
<td>$11,206</td>
<td>$17,792</td>
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<tr>
<td>Project Number</td>
<td>Water Supply Development Assistance - Conservation Rebates, Retrofits, Etc. Projects (Programmatic Budget 2.2.2.7)</td>
<td>FY2015 Funding</td>
<td>Prior District Funding</td>
<td>Total Project Cost</td>
<td>Benefit (mgd)</td>
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<tr>
<td>N443</td>
<td>Manatee County Toilet Rebate Program Phase 6</td>
<td>$597</td>
<td>$113,401</td>
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<td>N466</td>
<td>Pasco County Toilet Rebate Program Phase 6</td>
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<td>$13,247</td>
<td>$23,851</td>
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<tr>
<td>N491</td>
<td>WRSWA Regional Irrigation System Evaluation Program Phase 2</td>
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<tr>
<td>N517</td>
<td>St. Petersburg Toilet Rebate Program Phase 14</td>
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<td>$50,556</td>
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<td>N530</td>
<td>DeSoto County Hull Avenue Water Main Improvements to Reduce Flushing</td>
<td>$3,666</td>
<td>$1,071,761</td>
<td>$1,431,952</td>
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<tr>
<td>N538</td>
<td>St. Petersburg Sensible Sprinkling Program Phase 6</td>
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<td>N544</td>
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<td>N553</td>
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<td>City of Venice Plumbing Retrofit Program Phase 3</td>
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<td>Port Richey Toilet Rebate Program</td>
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<tr>
<td>N613</td>
<td>Polk County Utilities Countywide Landscape Irrigation Evaluations</td>
<td>$25,256</td>
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<td>N620</td>
<td>Citrus County Rain Sensor Replacement Rebate Program</td>
<td>$4,341</td>
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<td>N623</td>
<td>Manatee County Toilet Replacement Rebate Program Phase 8</td>
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<tr>
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<td>City of Venice Plumbing Retrofit Program Phase 4</td>
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<td>Marion County Utilities Toilet Rebate Program</td>
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<td>N640</td>
<td>WRWSA Regional Landscape &amp; Irrigation Evaluation Project</td>
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<td>N655</td>
<td>St. Petersburg Toilet Replacement Program Phase 15</td>
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<td>P374</td>
<td>Water Loss Reduction Program</td>
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<td>Indoor/Outdoor Water Conservation Program</td>
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<tr>
<td><strong>Total Conservation Rebates, Retrofits, Etc.</strong></td>
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<td><strong>$3,013,762</strong></td>
<td><strong>$5,792,129</strong></td>
<td><strong>6.586</strong></td>
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</table>
### Table 9. FY2015 Total Funding for Water Supply Development Projects

<table>
<thead>
<tr>
<th>Water Supply Development Assistance Project Totals (Programmatic Budget 2.2.2)</th>
<th>FY2015 Funding</th>
</tr>
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<tbody>
<tr>
<td>Surface Water Projects</td>
<td>$750,000</td>
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<tr>
<td>Regional Potable Water Interconnects</td>
<td>$10,256,562</td>
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<tr>
<td>Reclaimed Water Projects</td>
<td>$22,496,919</td>
</tr>
<tr>
<td>Brackish Groundwater Development Projects</td>
<td>$5,909,260</td>
</tr>
<tr>
<td>Aquifer Recharge and Aquifer Storage &amp; Recovery Construction Projects</td>
<td>$2,739,034</td>
</tr>
<tr>
<td>Conservation Rebates, Retrofits, Etc. Projects</td>
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</tr>
<tr>
<td><strong>Total FY2015 Funding</strong></td>
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### Table 10. FY2015 Water Supply Planning Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Water Supply Planning (Programmatic Budget 1.1.1)</th>
<th>FY2015 Funding</th>
<th>Prior District Funding</th>
<th>Total Project Cost</th>
<th>Supply (mgd)</th>
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</thead>
<tbody>
<tr>
<td>N380</td>
<td>Pasco County Reclaimed Water Master Plan</td>
<td>$1,375</td>
<td>$98,470</td>
<td>$189,845</td>
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</tr>
<tr>
<td>N465</td>
<td>Polk County Comprehensive Water Supply Plan Update</td>
<td>$4,201</td>
<td>$202,670</td>
<td>$395,871</td>
<td>NA</td>
</tr>
<tr>
<td>N493</td>
<td>PRMRWSA Regional Water Supply Master Plan</td>
<td>$10,905</td>
<td>$196,323</td>
<td>$382,228</td>
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</tr>
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<td>N605</td>
<td>Burnt Store Wellfield Study</td>
<td>$120,145</td>
<td>$0</td>
<td>$180,145</td>
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<tr>
<td>P289</td>
<td>Central Florida Watershed Initiative</td>
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<td>Development of the 2015-2035 District Regional Water Supply Plan</td>
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<td>P526</td>
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<td>Utility Population Estimation Model and Demographic Analysis</td>
<td>$153,453</td>
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<td><strong>Total Planning Projects</strong></td>
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**Notes for Tables 3 to 10:**

- **Acronyms:** ASR – Aquifer Storage and Recovery, CFI – Cooperative Funding Initiative, CDD – Community Development District, FGUA – Florida Governmental Utility Authority, NWRUSA - Northwest Regional Utility Service Area, LFA - Lower Floridan Aquifer, MG – Million Gallon, mgd – Million Gallons per Day (annual average), PMO – Project Management Office (District), PRMRWSA – Peace River Manasota Regional Water Supply Authority, WRWSA – Withlacoochee Regional Water Supply Authority.

- District funding for 2015 includes District project management expenses. The “Total Project Costs” may include cooperator shares and other non-District funding sources.
Descriptions of New Water Supply Development Projects

There are 30 new WSD projects introduced in the District’s FY2015 budget. These projects can be recognized in Tables 3 through 8 as having zero prior funding. Descriptions of each new project are sorted alphabetically below. The inclusion of these projects in the Work Program provides a mechanism for FDEP to formally evaluate the projects for consistency with the goals of the District’s RWSP. By adoption, the projects are incorporated into the District’s RWSP and become potentially eligible for state funding. Descriptions of continuing WSD projects can be found in the prior editions of the Work Program for the year the project was introduced. The prior editions are available for download at https://www.swfwmd.state.fl.us/projects/wrdwp/

1. Altman Groves Reclaimed Water Transmission Main (N654)

   **Background** – This project is for construction of approximately 4,000 feet of 12-inch diameter reclaimed water main to primarily serve the Altman citrus grove for irrigation and frost/freeze protection. The project will utilize approximately 0.04 mgd of reclaimed water for agricultural purposes in the Northern Tampa Bay WUCA.

   **Linkage to the Regional Water Supply Plan** – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP.

   **Status** – The project construction is expected to commence in spring 2015.

2. Bushnell Bethel Farms Advanced Wastewater Reuse (N673)

   **Background** – This project involves upgrading the City of Bushnell’s wastewater treatment facility to an advanced treatment capability to reduce nitrogen levels and improve water quality in the watershed. The project also includes construction of a linear wetland and storage pond to lower nitrogen levels, and construction of a reuse transmission system to supply reclaimed water to the Bethel Farms sod farm in the Panasoffkee springshed. The alternative supply will replace 0.21 mgd currently used at the farm. The project is receiving $909,833 in FDEP funding.

   **Linkage to the Regional Water Supply Plan** – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP.

   **Status** – Project timelines are being developed. The anticipated commencement is in spring 2015.

3. Citrus County Toilet Rebate Program (N634)

   **Background** – This rebate program will provide financial incentives to customers of Citrus County Utilities to replace conventional toilets with high-efficiency toilets which use 1.28 gallons per flush or less. This project will provide rebates for the replacement of approximately 150 high-flow toilets, and conserve approximately 3,900 gallons per day.

   **Linkage to the Regional Water Supply Plan** – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

   **Status** – The project is commencing in October 2014 and will run through September 2015.
4. **Citrus County Rain Sensor Replacement Rebate Program (N620)**

**Background** – This project provides financial incentives to customers of Citrus County Utilities for the replacement of approximately 100 rain sensors for irrigation systems. The project is anticipated to save approximately 10,000 gallons per day.

**Linkage to the Regional Water Supply Plan** – Water efficiency irrigation and landscape evaluations are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP.

**Status** – The project is commencing in February 2015 and will run through September 2015.

5. **Clearwater Groundwater Replenishment Project Phase 3 (N665)**

**Background** – This project phase includes design, permitting and construction for the full-scale water purification plant, the injection water treatment system, and the injection and monitoring well systems to recharge 2.4 mgd annual average of purified reclaimed water. The project also includes continued public outreach activities. The project allows the City to fully utilize its reclaimed water, eliminate surface discharges, improve groundwater levels in the Northern Tampa Bay WUCA, and increase the City’s future water supply potential from its existing wellfields.

**Linkage to the Regional Water Supply Plan** – This project is listed as a WRD Project in the Tampa Bay regional volume of the 2010 RWSP, Chapter 7, Section 2.1, pages 140-141.

**Status** – A feasibility study (Phase 1) and site/pilot testing (Phase 2) have been cooperatively funded as WRD projects in prior years. The design and permitting is commencing and will continue through December 2015. Construction will likely run through December 2017.

6. **Hillsborough County 19th Ave Reclaimed Water Transmission (N652)**

**Background** – This multiyear project is for the design, permitting and construction of 11,000 feet of 20-inch and 5,000 feet of 16-inch diameter reclaimed water transmission main to supply 500 residential irrigation customers in the Harbor Isles subdivision, and to supply reclaimed water to an expanded recharge project in the Apollo Beach area. The project will provide 0.30 mgd of reclaimed water for residential irrigation to customers and to enable the future supply of 4.0 mgd in the Most Impacted Area of the SWUCA.

**Linkage to the Regional Water Supply Plan** – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

**Status** – Design and permitting is commencing October 2014, and construction is expected to commence in fall 2015.

7. **Hillsborough County/Tampa/Temple Terrace Reclaimed Water Recharge Study (N601)**

**Background** – This feasibility study will evaluate the technical, regulatory, and financial feasibility of using an estimated 25 mgd of excess reclaimed water to significantly increase direct and indirect recharge opportunities (recharge wells, rapid infiltration basins, and high intensity spray fields) in Hillsborough County. The study will evaluate options to develop 25 mgd of recharge in the Dover/Plant City WUCA, Northern Tampa Bay WUCA, and Most Impacted Areas of the SWUCA. If constructed, the options may assist in meeting MFLs, reduce saltwater intrusion, and reduce effluent disposal into Tampa Bay.
Linkage to the Regional Water Supply Plan – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

Status – The project is commencing, and the feasibility study is due in September 2015.

8. Manatee County Toilet Replacement Rebate Program Phase 8 (N623)

Background – This rebate program provides incentives to customers of Manatee County Utilities for the replacement of conventional toilets with high-efficiency or low-flow toilets which use 1.6 gallons per flush or less. This project will provide rebates for the replacement of approximately 1,500 high-flow toilets. The anticipated conservation savings is 33,000 gallons per day.

Linkage to the Regional Water Supply Plan – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

Status – The rebates program is scheduled to commence in March 2015 and continue through March 2016.

9. Marion County Utilities Toilet Rebate Program (N639)

Background – This rebate program provides financial incentives to customers of Marion County Utilities for the replacement of conventional toilets with high-efficiency toilets which use 1.28 gallons per flush or less. This project will provide rebates for the replacement of approximately 400 high-flow toilets and conserve an estimated 10,200 gallons per day.

Linkage to the Regional Water Supply Plan – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

Status – The project is commencing and scheduled to run through September 2016.

10. New Port Richey Toilet Rebate Program Phase 3 (N593)

Background – This rebate program offers financial incentives to customers of the New Port Richey utilities department for the replacement of conventional toilets with high-efficiency toilets which use 1.28 gallons per flush or less. This project will provide rebates for the replacement of approximately 80 high-flow toilets and conserve an estimated 2,000 gallons per day.

Linkage to the Regional Water Supply Plan – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

Status – The project is scheduled to commence on April 2015 and continue through October 2016.

11. North Port Reclaimed Water Transmission Main Phase 3 (N667)

Background – This project is for the design, permitting, and construction of reclaimed water transmission infrastructure that includes approximately 3,000 feet of 18-inch and 6,000 feet of 12-inch diameter reclaimed water lines and necessary appurtenances to supply 0.36 mgd of reclaimed water to residential and commercial customers, a golf course, and a recreational park all within the SWUCA.
**Linkage to the Regional Water Supply Plan** – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

**Status** – Project design work is commencing in February 2015. Construction is scheduled to commence in January 2016.

12. **Oak Run to JB Ranch Reclaimed Water Main (N596)**

**Background** – This project is for design, permitting, and construction of approximately 15,200 feet of 12-inch reclaimed water line to the JB Ranch residential development in the Rainbow Springs watershed. The project will allow utilization of 0.27 mgd of reclaimed water to reduce groundwater pumpage in the watershed.

**Linkage to the Regional Water Supply Plan** – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

**Status** – Project design is commencing in November 2014, and construction is scheduled to begin in October 2015.

13. **Pasco County Toilet Rebate Program Phase 8 (N662)**

**Background** – This rebate program provides financial incentives to customers of Pasco County Utilities for the replacement of conventional toilets with high-efficiency toilets which use 1.28 gallons per flush or less. This project will provide rebates for the replacement of approximately 500 high-flow toilets and conserve an estimated 14,000 gallons per day.

**Linkage to the Regional Water Supply Plan** – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

**Status** – The rebate period is commencing October 2014.

14. **Pasco County Starkey Ranch Reclaimed Water Transmission (N670)**

**Background** – This multiyear project is for the construction of approximately 10,994 feet of 16-inch transmission main to provide reclaimed water to an initial 388 irrigation customers (385 single family residential and 3 commercial/civic users) in the Starkey Ranch development. The project will provide 0.42 mgd of reclaimed water for irrigation in the Northern Tampa Bay WUCA.

**Linkage to the Regional Water Supply Plan** – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

**Status** – The project received out-of-cycle funding from the District’s Governing Board in May 2014. Construction is commencing and scheduled for completion in July 2015.

15. **Pasco County Reclaimed Water Treatment Westland and Aquifer Recharge (N666)**

**Background** – This project is for the design, permitting, and construction of a reclaimed water recharge facility in central Pasco County. The project will create approximately 470 acres of
treatment wetlands, a rapid infiltration basin, and the potential to help restore approximately 1,000 acres of natural surface water systems and contribute to the Northern Tampa Bay recovery.

**Linkage to the Regional Water Supply Plan** – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

**Status** – The 30-percent design phase has commenced. Project timelines are not yet determined.

### 16. Polk County Partnership (H094)

**Background** – This project is designed to achieve two primary objectives:

a) The development of at least 20 mgd and up to 30 mgd of alternative water supply through the construction of the Polk Southeast Wellfield and a regional transmission system. The wellfield is anticipated to produce 20 mgd of new potable water supply by 2042 to meet demands of Polk County Utilities and the municipalities within Polk County. The new supply would be used as a base supply for 30 years. The provision of an additional 10 mgd may be acquired from either the Southeast Wellfield or other eligible projects, potentially utilizing the Lower Floridan aquifer.

b) The creation of a Regional Water Supply Entity that will construct and operate the Southeast Wellfield and any other eligible projects, and will promote regional cooperation among Polk County and the municipalities within Polk County.

The appropriation of funds in FY2015 helps to assure the District’s commitment with the regional water supply entity and encourages the participation of municipalities. The project addresses water demands in the Polk County portion of the CFWI planning region.

**Linkage to the Regional Water Supply Plan** – The evaluation of the Lower Floridan aquifer for the Polk Southeast Wellfield and other alternative supplies was discussed in RWSP in Chapter 4, Section 3, of the Heartland regional volume. Development of regional interconnections to the Southeast Wellfield was a project option included in Chapter 5, Section 5.

**Status** – The District is facilitating the development of umbrella agreements designed to achieve the two primary objectives. Project funds are reserves necessary to incentivize and develop large-scale regional project options.

### 17. Polk County Utilities Countywide Landscape Irrigation Evaluations (N613)

**Background** – This conservation project will provide approximately 200 irrigation system evaluations to single family, multi-family, and commercial customers. These evaluations will come with recommendations for optimizing the use of water outdoors through Florida-Friendly Landscaping™ practices and other efficient irrigation best management practices. Approximately 22 rain sensor devices will be provided and installed for project participants who do not have a functioning device. The project will conserve an estimated 32,600 gallons per day reducing demand for potable water in the SWUCA.

**Linkage to the Regional Water Supply Plan** – Water efficiency irrigation and landscape evaluations are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of evaluation programs is listed as a water supply development option in Chapter 5, Section 6.

**Status** – The project is commencing, and evaluations are scheduled to run through September 2016.
18. Port Richey Toilet Rebate Program (N603)

**Background** – This rebate program provides financial incentives to customers of the Port Richey utility department for the replacement of conventional toilets with high-efficiency toilets which use 1.28 gallons per flush or less. This project will provide rebates for the replacement of approximately 60 high-flow toilets and conserve an estimated 1,400 gallons per day.

**Linkage to the Regional Water Supply Plan** – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

**Status** – Project is commencing and scheduled to run through September 2015.

19. PRMRWSA Peace River Facility Treatment Capacity Expansion 3 mgd (N671)

**Background** – The Peace River Manasota Regional Water Supply Authority (PRMRWSA) is currently refurbishing a surface water treatment facility originally constructed in the late 1970s and acquired by the PRMRWSA in 1991. During the engineering phase, they identified an opportunity to increase the facility’s treatment capacity from 12 mgd to 15 mgd by upsizing components and increasing pump capacity at a cost of $3 million. The PRMRWSA received a state of Florida 2014-2015 grant in the amount of $1.5 million for the capacity expansion. The District is cooperatively funding 50 percent of the remaining portion of the project costs in the amount of $750,000.

**Linkage to the Regional Water Supply Plan** – The utilization of surface water from the Peace River as an alternative water supply is described in Chapter 4, Section 1, of the 2010 RWSP Southern regional volume. A prior expansion of the PRMRWSA Facility was listed as a project under development in Chapter 6.

**Status** – The project is scheduled to commence January 2015.

20. PRMRWSA Regional Interconnect Phase 1 to Punta Gorda Design (N416)

**Background** – This project includes design and permitting services only. The Phase 1 interconnect project would provide regional transmission capacity to the City of Punta Gorda and unincorporated Charlotte and DeSoto counties along the US-17 corridor. The Phase 1 interconnect includes 6 miles of 24-inch diameter transmission main from an existing regional transmission line along US-17 south to a direct connection at the Shell Creek water treatment facility in Charlotte County. The project design was initially developed in 2008. This project will update the design and probable costs based on changes to easements, anticipated use, and revised necessity of storage and pumping components.

**Linkage to the Regional Water Supply Plan** – The Phase 1 Regional Interconnect is a portion of the Regional Integrated Loop System described as a project option in Chapter 5, Section 1, of the 2010 RWSP Southern planning volume.

**Status** – A solicitation for professional services is scheduled for November 2014. The projected completion is April 2016.
21. **Punta Gorda Brackish Wellfield Investigation (N600)**

*Background* – This exploratory well testing program includes the design and construction of an exploration well to 2,000 feet below land surface, monitor and test production wells for aquifer performance testing with brackish byproduct, data collection, groundwater modeling analysis, and report preparation. The project will improve understanding of water quality, sustainability of withdrawals, and hydrogeologic characteristics of the intermediate and Upper Floridan aquifer systems in the southern portion of the District. The project benefits the City of Punta Gorda by providing data for a water use permit modification for its planned 4 mgd brackish groundwater reverse osmosis facility.

*Linkage to the Regional Water Supply Plan* – The utilization of brackish groundwater is described in Chapter 4, Section 4 of the Southern regional volume of the 2010 RWSP. The City’s planned reverse osmosis facility was described as an ongoing project in Chapter 6, Section 3; however, the project was postponed after publication.

*Status* – Project is commencing in November 2014. A final report is due by August 2016.

22. **Quail Hollow Golf Course Reclaimed Water Transmission/Storage/Pumping (N629)**

*Background* – This project is for design, permitting, and construction of reclaimed water infrastructure including 1,000 feet of 6-inch reclaimed water transmission piping and a 1.0 mgd pump station to provide additional reclaimed water flows to the Quail Hollow golf course in Pasco County. The project will provide an additional 0.1 mgd annually for irrigation.

*Linkage to the Regional Water Supply Plan* – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

*Status* – Project construction is scheduled to begin in January 2015.

23. **Rod Lincoln Groves Reclaimed Water Transmission (N630)**

*Background* – This project is for design, permitting, and construction of reclaimed water distribution infrastructure including 3,200 feet of 12-inch diameter reclaimed water lines and necessary appurtenances to provide reclaimed water service to Rod Lincoln groves and hayfields in Pasco County. The project will provide 0.25 mg of reclaimed water for irrigation of a citrus grove and hayfield.

*Linkage to the Regional Water Supply Plan* – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

*Status* – Project construction is scheduled to begin in January 2015.

24. **Shady Hills Reclaimed Water Storage Tank (N649)**

*Background* – This project is for design, permitting, and construction of a 5 mg reclaimed water storage tank at Pasco County’s Shady Hills regional wastewater treatment facility. The tank will provide diurnal storage of reclaimed water for irrigation purposes to existing and future customers.
Linkage to the Regional Water Supply Plan – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

Status – Project construction is scheduled to begin in December 2014.

25. St. Petersburg Toilet Replacement Program Phase 15 (N655)

Background – This project provides financial incentives to St. Petersburg utility customers for the replacement of conventional toilets with high-efficiency toilets which use 1.28 gallons per flush or less. This project will provide rebates for the replacement of approximately 600 high-flow toilets and conserve an estimated 14,300 gallons per day.

Linkage to the Regional Water Supply Plan – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

Status – The project is scheduled to commence in February 2015 and continue through February 2016.

26. Sugarmill Woods Advanced Wastewater Reuse (WC02)

Background – This project includes design, permitting, and construction of advanced wastewater treatment facilities at the Sugarmill Woods wastewater treatment facility to provide 2.0 mgd of additional nutrient removal using conventional and denitrification filters. The project is expected to reduce nutrient loading within the Chassahowitzka Springs springshed. The project also includes design, permitting, and construction of approximately 29,000 feet of 12-inch diameter reclaimed lines and a 2.0 mgd pump station to provide 0.47 mgd of reclaimed water annually to two existing golf courses and one future golf course in Citrus County. The project is receiving $4,000,000 in FDEP funding.

Linkage to the Regional Water Supply Plan – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

Status – A design consultant has been selected and design is commencing. The projected completion dates are December 2017 for the advanced treatment facility and December 2018 for the reclaimed water lines.

27. Venice Plumbing Retrofit Program Phase 4 (N625)

Background – This project provides financial incentives to customers of the Venice utilities department for the replacement of conventional toilets and urinals with high-efficiency models which use 1.6 and 0.5 gallons per flush or less. This project will provide rebates for the replacement of approximately 400 high-flow toilets and 500 conservation kits to conserve an estimated 16,000 gallons per day.

Linkage to the Regional Water Supply Plan – Toilet replacement and plumbing retrofit programs are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of toilet rebate and plumbing retrofit programs are listed as a water supply development option in Chapter 5, Section 6.

Status – The rebates are scheduled to begin in August 2015 and continue to January 2017.
28. **Venice Reclaimed Water Interconnect Feasibility Study (N604)**

*Background* – This feasibility study will evaluate the technical, regulatory and financial feasibility of a reclaimed water interconnect between the City of Venice and Sarasota County’s reclaimed water systems. The improvements identified as a result of this study will likely increase the quantity of reclaimed water available for existing and future City of Venice reclaimed water customers, and decrease Sarasota County’s disposal of wastewater effluent via deep disposal wells in the SWUCA.

*Linkage to the Regional Water Supply Plan* – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

*Status* – Project is commencing, and the final report is due in September 2015.

29. **WRWSA Regional Landscape and Irrigation Evaluation Project (N640)**

*Background* – This conservation project will provide approximately 140 irrigation system evaluations to high-water use, single family residential customers within the four-county region of the Withlacoochee Regional Water Supply Authority. These evaluations will come with recommendations for optimizing the use of water outdoors through Florida-Friendly Landscaping™ practices and other efficient irrigation best management practices. Rain sensor devices will be provided and installed for project participants who do not have a functioning device.

*Linkage to the Regional Water Supply Plan* – Water efficiency irrigation and landscape evaluations are a component of the District’s water conservation strategy as described in Chapter 4, Section 6.1 in each regional volume of the 2010 RWSP. The use of evaluation programs is listed as a water supply development option in Chapter 5, Section 6.

*Status* – The project is commencing, and evaluations are scheduled through December 2016.

30. **Zephyrhills Advanced Wastewater Treatment (N672)**

*Background* – This project will upgrade the City of Zephyrhills wastewater treatment facility to 4.5 mgd capacity of advanced treatment capability through the design, permitting, and construction of denitrification system components and a wetlands recharge area. The project will lower nitrogen levels in the reclaimed water to less than 1 milligram per liter. The project also includes design, permitting, and construction of a reuse transmission system including 2 miles of 16-inch diameter mains and a 4.5 mgd pump station to deliver treated water to the recharge area. The project is located within the Crystal Springs springshed and is receiving $1,250,000 in FDEP funding.

*Linkage to the Regional Water Supply Plan* – The District’s commitment to maximizing reclaimed water reuse to offset traditional water supplies is described in Chapter 4, Section 2 in each regional volume of the 2010 RWSP. The project was not specifically mentioned as a project option in the RWSP, but is consistent with similar project components.

*Status* – The project is commencing October 2014 and is scheduled to continue through December 2016.
Funding Sources

District matching funds for water resource development and water supply development projects are provided through the District’s Cooperative Funding Initiative, which consists of the Water Supply and Resource Development and Cooperative Funding programs, and other District Initiatives. Portions of state funding are allocated to the District through state appropriations for the state’s Water Protection and Sustainability Program, the District’s West-Central Florida Water Restoration Action Plan, the state’s Florida Forever Program, the District’s FARMS Program, and FDEP funding for the Springs Initiative. These sources are described below.

District Funding

Cooperative Funding Initiative - The primary funding mechanism is the District’s Cooperative Funding Initiative (CFI), which includes the cooperative funding program for more localized projects and the Water Supply and Resource Development (WSRD) program for larger, regional projects. The Governing Board, through its Regional Sub-Committees, jointly participates with local governments and other entities to ensure proper development, use and protection of the regional water resources of the District. The CFI is a matching grant program and projects of mutual benefit are generally funded 50 percent by the District and 50 percent by the public or private cooperators. Any state and federal funds received for the projects are applied directly against the project costs, with both parties benefitting equally. The CFI has been highly successful; and since 1988, the District has provided over $1.3 billion in incentive-based funding assistance for a variety of water projects addressing its four areas of responsibility: water supply, natural systems, flood protection and water quality.

District Initiatives - District Initiatives are funded in cases where a project is of great importance or priority to a region. The District can increase its percentage match and in some cases provide total funding for the project. Examples of these initiatives include: (1) the QWIP initiative to plug deteriorated, free-flowing wells that waste water and cause inter-aquifer contamination, (2) the leak detection program to conserve water by having District staff inspect and detect leaks in public water system pipelines, (3) data collection and analysis to support major District initiatives such as the MFL program, and (4) various agricultural research projects designed to increase the water-use efficiency of agricultural operations.

State Funding

Springs Initiative - The FDEP Springs Initiative is a special legislative appropriation that has provided revenue for protection and restoration of major springs systems. The District has allocated Springs Initiative funding to implement projects to restore aquatic habitats, and to reduce groundwater withdrawals and nutrient loading within first-magnitude springsheds to improve the water quality and quantity of spring discharge. Projects include the reestablishment of aquatic and shoreline vegetation near spring vents, installation of wastewater force mains to allow for the removal of septic tanks and increase reclaimed water production, and implementation of BMPs within springshed basins.

The first year of the appropriation was FY2013, and $1.1 million was allocated by the District to an industrial reuse project to transfer reclaimed water from the City of Crystal River to the Duke Energy power generation complex. In FY2014, the District allocated $1.35 million of Springs Initiative appropriations to two stormwater improvement projects and one wastewater/reclaimed water project. In FY2015, $6.46 million of FDEP Springs Initiative funding is budgeted for four wastewater/reclaimed water projects.

Water Protection and Sustainability Program - The state of Florida’s Water Protection and Sustainability Program was created in the 2005 legislative session through Senate Bill 444. The program provides matching funds for the District’s CFI and WSRD program for alternative water supply development assistance. For 2006, the first year of funding, the Legislature allocated $100 million for alternative water supply development assistance, with $25 million allocated for the District. The District was allocated $15 million in FY2007 and $13 million in FY2008. In FY2009, the District was allocated...
$750,000, for two specific projects. The reduced funding is related to the state’s budget constraints resulting from the economic downturn and the declining real estate industry. From FY2010 through FY2015, the state did not allocate funding for the program. During the 2009 legislative session, the Legislature passed Senate Bill 1740 which recreated the Water Protection and Sustainability Trust Fund as part of Chapter 373, F.S., indicating the state’s continued support for the program. It is anticipated that the state will resume its funding for the program when economic conditions improve.

The state funds are applied toward the maximum 20 percent of the construction costs of eligible projects. In addition, the Legislature has established a goal for each water management district to annually contribute funding equal to 100 percent of the state funding for alternative water supply development assistance, which the District has exceeded annually. If funding is continued by the Legislature, the state’s Water Protection and Sustainability Program could serve as a significant source of matching funds to assist in the development of alternative water supplies.

**West-Central Florida Water Restoration Action Plan** - The West-Central Florida Water Restoration Action Plan (Plan) is an implementation plan for components of the SWUCA Recovery Strategy adopted by the District. The document outlines the District’s strategy for ensuring that adequate water supplies are available to meet growing demands, while at the same time protecting and restoring the water and related natural resources of the area. The Plan prescribes measures to implement the recovery strategy and quantifies the funds necessary, making it easier for the District to seek funding for the initiative from state and federal sources. In 2009, the Legislature officially recognized the Plan through Senate Bill 2080, creating Section 373.0363, F.S., as the District’s regional environmental restoration and water-resource sustainability program for the SWUCA. In FY2009, the District received $15 million in funding for the Plan. Again, due to economic conditions, no new funding was provided for FY2010 through FY2015. It is anticipated that the state will again provide funding for the Water Restoration Action Plan as the economy stabilizes.

**The Florida Forever Program** - The Florida Forever Act, passed in 1999, was a $10 billion, 10-year, statewide program. A bill to extend the Florida Forever program was passed by the Legislature during the 2008 legislative session, allowing the Florida Forever program to continue for 10 more years at $300 million annually, and reducing the annual allocation to water management districts from $105 million to $90 million, with $22.5 million (25 percent) to be allocated to the District, subject to annual appropriation. For FY2010, the Legislature did not appropriate funding for the Florida Forever program, other than for the state’s debt service. For FY2011, the 2010 Legislature appropriated $15 million in total with $1.125 million allocated to the District. For FY2012 through FY2015 the Legislature did not appropriate funding for the District. In FY2015 the District budgeted $2.75 million for land acquisition, from prior year funds held in the State Florida Forever Trust Fund for this District and in the District’s accounts. The funds held in District accounts have been generated through the sale of easements to the U.S. Department of Agriculture/Natural Resources conservation Services for the Wetland Reserve Program and the sale of land or easements for rights-of-way. These funds are available for potential land acquisitions consistent with the guidance provided by the FDEP.

The District has allocated $95 million ($81.6 million for land acquisition and $13.4 million for water body restoration) of Florida Forever funding in support of water resource development. A “water resource development project” is defined as a project eligible for funding pursuant to Section 259.105, F.S., (Florida Forever) that increases the amount of water available to meet the needs of natural systems and the citizens of the state by enhancing or restoring aquifer recharge, facilitating the capture and storage of excess flows in surface waters, or promoting reuse. Implementation of eligible projects under the Florida Forever program includes land acquisition, land and water body restoration, ASR facilities, surface water reservoirs and other capital improvements. An example of how the funds were used for water resource development was the purchase of lands around Lake Hancock within the Peace River watershed as the first step in restoring minimum flows to the upper Peace River. In addition, the District Governing Board has expended $35.7 million in ad valorem based funding to complete the acquisition of lands associated with the Lake Hancock project acquired on a voluntary basis and through eminent domain proceedings.

**State Funding for the FARMS Program** - Operating under Rule 40D-26, F.A.C., the FARMS Program, through the District, utilizes additional state funding when available. Since the inception of the
program, the District has received $6.4 million in state appropriations and $1.3 million from the FDACS. No funding was provided by the state from FY2010 through FY2015.

**U.S. Department of Agriculture-Natural Resources Conservation Service (NRCS) Environmental Quality Incentive Program (EQIP)** - The EQIP provides technical, educational, and financial assistance to eligible farmers and ranchers to address soil, water and related natural resource concerns on their lands. The program provides assistance to farmers and ranchers to comply with federal, state of Florida, and tribal environmental laws that encourage environmental enhancement. The purpose of the program is achieved through the implementation of a conservation plan, which includes structural, vegetative, and land management practices. The program is carried out primarily in priority areas that may be watersheds, regions and/or multistate areas where significant resource concerns exist. Water supply and nutrient management through detention/retention or tailwater recovery ponds can be pursued through this program.

In addition to EQIP, the FARMS Program has partnered with NRCS through the Agriculture Water Enhancement Program (AWEP) and the Florida West Coast Resource Conservation and Development (RC&D) to bring additional NRCS cost-share funding to the SWUCA. The AWEP was created by the 2008 Farm Bill with similar goals as the EQIP program including conserving and/or improving the quality of ground and surface water. The RC&D is a nonprofit organization that promotes sustainable agriculture and local community food systems in Hillsborough, Manatee, Pinellas, and Sarasota counties.

The District’s FARMS Program works cooperatively with the NRCS EQIP, AWEP, and RC&D programs on both financial and technical levels. In this effort, FARMS staff has coordinated dual cost-share projects whenever possible. By an agreement between the District, FDACS, and the NRCS, the maximum funding for using both FARMS and EQIP is 75 percent of total project cost. To date, 40 FARMS projects have involved some level of dual cost-share with EQIP, AWEP, or the RC&D, with several additional cooperative projects expected in the near future. On a technical level, agency interaction includes using the NRCS mobile irrigation lab to investigate using FARMS cost-share for improvements to overall irrigation system efficiency, using NRCS engineering designs for regulatory agricultural exemptions whenever possible, and coordinating cost-share on specific project related infrastructure. As an example, FARMS may assist with an alternative source of irrigation water and EQIP assists with an upgrade to an irrigation delivery system. The relationship is mutually beneficial, extends cost-share dollars, and provides more technical assistance to participants in both programs.
Summary/Conclusions

The water resource and water supply development projects and funds identified in the Work Program reflect the District’s continuing commitment to ensure that adequate water resources are available to meet both existing and future reasonable-beneficial needs. The FY2015 budget for WRD Data Collection and Analysis activities and WRD Projects is approximately $24.5 million and $7.5 million respectively. Funding for Data Collection and Analysis is expected to remain fairly constant over the next five years. The multiyear WRD Projects funding is likely to increase over the next five years as the construction phases of multiple projects commence, including future phases of the Upper Myakka/Flatford Swamp Hydrologic Restoration. The District plans to continue implementing FARMS projects at a cost of approximately $6 million each year. The District is maintaining its water resource development efforts with a strong emphasis on agricultural irrigation efficiency projects to reduce groundwater withdrawals and improve aquifer levels, and watershed management activities that will be critical for flood protection, water quality, and springshed health. The District also continues its investigations of aquifer recharge feasibility and the viability of the Lower Floridan aquifer as a new water resource for the Heartland planning region. This research is expected to create new water supply options available for development as water demands increase.

Water Supply Development funding in FY2015 is approximately $42.6 million, which includes funding made possible through the Springs Initiative. An additional $0.93 million is scheduled for water supply planning efforts that support future Water Supply Development. Utilities continue to implement reclaimed water and conservation projects to extend the availability of existing water supplies. Reclaimed water projects account for 53 percent of the budget for Water Supply Development assistance in FY2015. The District anticipates that approximately $20 million will be available for reclaimed water projects each year. Funding for regional interconnects has increased due to the reserves scheduled for the Polk County Partnership project, which will help ensure the availability of potable water supply in the Polk County portion of the CFWI planning region. Funding for new water supply development will likely increase within the next five years; utilities and water authorities are expected to request funding assistance for new water supply projects in proportion with economic and population growth.
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Introduction

In 2008, the Florida Legislature reauthorized the Florida Forever program. The reauthorization continues Florida’s successful land acquisition initiative that has included the Save Our Rivers and Preservation 2000 programs. As required by Section 373.199(7), Florida Statutes (F.S.), this report is the District’s annual update of its original Florida Forever Work Plan.

The District’s approach to the Florida Forever Work Plan is to provide a discussion of those eligible projects that the District could fund through the Florida Forever program over a five-year period and may receive future Florida Forever funding under the Florida Forever Act, Section 259.105, F.S.; depict eligible properties on the maps included in this report; and to report on progress and changes since the report’s last update.

The Florida Forever Act provides for the issuance of up to $3 billion in bonds through 2020 to state agencies, water management districts and local governments. Water management district funding is to be used for land acquisition (including less-than-fee purchases), water resource development and water body restoration. Over the life of the program, at least 50 percent of the funds allocated to the water management districts must be spent on land acquisition.

Figure 1. Florida Forever Annual WMD Funding Distribution

The annual update is organized into eight sections including the introduction, modifications to last year’s Florida Forever Work Plan, land acquisitions completed during fiscal year 2014, land acquisition status, lands surplused during fiscal year 2014, summaries of land management activities, five-year resource management budget information, and project maps and lands identified for potential acquisition by planning region.

Florida Forever funds must contribute to achieving the following goals, found in Section 259.105, F.S.:

- Enhance the coordination and completion of land acquisition projects.
- Increase the protection of Florida’s biodiversity at the species, natural community, and landscape levels.
- Protect, restore, and maintain the quality and natural functions of land, water, and wetland systems of the state.
- Ensure that sufficient quantities of water are available to meet the current and future needs of natural systems and the citizens of the state.
- Increase natural resource-based public recreational and educational opportunities.
- Preserve significant archaeological or historic sites.
- Increase the amount of forestland available for sustainable management of natural resources.
- Increase the amount of open space available in urban areas.

The District presently plans to use its Florida Forever funding to support multiple land acquisition projects and one capital improvement project through FY2017. Figure 2 shows the allocation between land acquisition and capital improvement funding.
Figure 2. Expenditures, Budget and Projection for Capital Improvements and Land

Table 1 provides expenditure, budget and projection by program and project over a five-year period. Individual water resource development and restoration projects are listed with projected Florida Forever funding provided for land acquisition and capital improvements. The budget for FY2015 consists of $2.75 million of prior year funds held in the District’s accounts primarily generated through the sale of easements to the U.S. Department of Agriculture/Natural Resources Conservation Services for Wetland Reserve Program and the sale of rights-of-way for roads. These funds will be available consistent with the Florida Forever work plan.
## Table 1. Florida Forever Work Plan Project Funding

(Numbers shown are in millions of dollars)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Resource Development</td>
<td>76.66</td>
<td>0.06</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>76.92</td>
</tr>
<tr>
<td>Lake Hancock Lake Level Modification &amp; Ecosystem Restoration</td>
<td>5.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Lakes Horse, Raleigh and Rogers Recovery Project</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Hydrogeological Investigation of the Lower Floridan Aquifer in Polk Co.</td>
<td>10.00</td>
<td>1.00</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>10.20</td>
</tr>
<tr>
<td>Lake Hancock Outfall Treatment System</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Land Acquisition</td>
<td>2.55</td>
<td>2.55</td>
<td>2.55</td>
<td>2.55</td>
<td>2.55</td>
<td>2.55</td>
<td>2.55</td>
</tr>
<tr>
<td>Grand Totals</td>
<td>220.16</td>
<td>220.16</td>
<td>220.16</td>
<td>220.16</td>
<td>220.16</td>
<td>220.16</td>
<td>220.16</td>
</tr>
</tbody>
</table>

Florida Forever Work Plan 2015 Consolidated Annual Report
**Project Modifications and Additions to the SWFWMD Florida Forever Work Plan**

The following changes have been made to the 2015 Work Plan:

- **Land acquisition** – An addition of approximately 1,470 acres have been identified for proposed acquisition within the 2015 Work Plan. The lands identified are within the Chassahowitzka Springs, Homosassa Springs, Shady Brook Springs and Weeki Wachee Springs springsheds and are important for water quality, recharge, flood protection, and wetland habitat preservation/restoration.

- **Hydrogeological Investigation of Lower Floridan Aquifer Project** – This new water resource development project has been added to the Work Plan.

**Restoration Projects**

Listed below are the District restoration projects for which Florida Forever funding is being requested.

**Lake Hancock Outfall Treatment System**

**Cooperators** – District, State of Florida and federal government

**Purpose** – The purpose of this project is to improve the quality of water discharging from Lake Hancock into South Saddle Creek, the outflow channel from Lake Hancock, by constructing a regional water quality treatment system. This treatment system will remove nutrients and pollutants that Lake Hancock and its watershed contribute to the Peace River and Charlotte Harbor, an estuary included in the National Estuary Program.

**Need** – Nitrogen has been identified as the primary target nutrient in restoring water quality in the Peace River and preventing degradation of Charlotte Harbor, a Surface Water Improvement and Management priority water body. Historical data has shown that the Saddle Creek drainage basin, one of nine sub-basins in the Peace River watershed, contributes approximately six percent of the total flow of the Peace River, yet contributes approximately 13 percent of the watershed’s total annual nitrogen load. The Peace River ecosystem routinely suffers from algae blooms during periods of low flows and warm weather. These events not only affect the fish and wildlife associated directly with the river and estuary, but also affect the region’s largest potable surface water supply system, operated by the Peace River/Manasota Regional Water Supply Authority. Many of the basins along the Peace River, including Lake Hancock, have been identified by the Florida Department of Environmental Protection as impaired under the Clean Water Act, requiring that Total Maximum Daily Loads be established. Water quality treatment of discharges from Lake Hancock has been identified as the most cost-effective means of reducing nitrogen loads into the Peace River and Charlotte Harbor. Additionally, improvements in the South Saddle Creek ecosystem will enhance a major greenway that extends from Charlotte Harbor through the Peace River watershed and Green Swamp and further north to the Ocala National Forest.

**Florida Forever Program Interest** – Florida Forever funds will be used for land acquisition and capital project expenditures for the water quality treatment project. Florida Forever land acquisition funding totals $4.9 million, and a total of $13,435,446 has been encumbered within the Florida Forever Trust fund for capital project expenditures such as design, permitting and construction to significantly improve water quality entering the Peace River.

**Description** – Discharges from Lake Hancock will be diverted to a water quality treatment system located at the south end of the lake and in the vicinity of South Saddle Creek, the tributary between the lake and the Peace River. The District acquired the 3,500-acre, Old Florida Plantation planned development property, and portions of this tract of land are being utilized for the outfall treatment project. At the February 2006 Governing Board meeting, the Board approved the staff recommendation for a 27 percent nitrogen load reduction goal and to utilize constructed wetlands as the primary treatment component. The treatment wetland will require ongoing operation and maintenance.
Schedule
Monitoring/Feasibility Study ...................................................... 2004-2007
Design and Permitting ................................................................. 2007-2010
Land Acquisition ......................................................................... 2003-2004
Construction ................................................................................ 2011-2014

Table 2. Lake Hancock Outfall Treatment System Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior Years</th>
<th>FY2015</th>
<th>Future Years</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>District</td>
<td>$21,165,586</td>
<td>$4,000,000</td>
<td>$25,165,586</td>
<td></td>
</tr>
<tr>
<td>State Appropriation (ECO)</td>
<td>1,750,000</td>
<td></td>
<td>1,750,000</td>
<td></td>
</tr>
<tr>
<td>State Appropriations (WRAP)</td>
<td>1,000,000</td>
<td></td>
<td>1,000,000</td>
<td></td>
</tr>
<tr>
<td>State SWIM</td>
<td>655,140</td>
<td></td>
<td>655,140</td>
<td></td>
</tr>
<tr>
<td>Water Protection Sustainability Trust Fund</td>
<td>325,000</td>
<td></td>
<td>325,000</td>
<td></td>
</tr>
<tr>
<td>Water Management Lands Trust Fund</td>
<td>4,529,927</td>
<td></td>
<td>4,529,927</td>
<td></td>
</tr>
<tr>
<td>Requested Federal Funds</td>
<td>773,700</td>
<td></td>
<td>773,700</td>
<td></td>
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<tr>
<td>Total</td>
<td>$30,199,353</td>
<td>$4,000,000</td>
<td>$34,199,353</td>
<td></td>
</tr>
</tbody>
</table>

Note: This is a multi-year funded project. In fiscal years 2003, 2004, 2006, 2008, 2009 and 2010, $30,199,353 was budgeted as follows: $18,335,446 from Florida Forever for land acquisition ($4,900,000) and capital project expenditures ($13,435,446), $2,750,000 from state appropriations (ECO & WRAP), $773,700 from the United States Environmental Protection Agency (USEPA), $1,890,070 from the Governing Board, $940,070 from the Peace River Basin Board, $655,140 from State SWIM, a reallocation of $325,000 from the FY2006 and FY2007 Water Protection Sustainability Trust Fund, and a reallocation of $4,529,927 from the FY2009 Water Management Lands Trust Fund.

Project Status – District staff have been successful in acquiring property at the desired location. District staff procured the services of an engineering consultant to evaluate treatment options and assist with design and permitting of the outfall treatment project. The project involves five tasks: 1) Research, Monitoring and Data Acquisition, 2) Feasibility Study, 3) Design and Permitting, 4) Construction, and 5) System Start-up and Operation. Tasks 1, 2 and 3 are complete. Treatment wetlands are the recommended technology based on costs, proven track record and ancillary benefits. The project is currently in the construction phase (Task 4). Construction of the project began on September 26, 2011 and was completed in June 2014. Task 5 involves vegetative establishment treatment system start-up and optimization of system performance to achieve target nutrient removal. The District is responsible for long-term operation and maintenance.

Hydrological Investigation of the Lower Floridan Aquifer in Polk County

Cooperators – District

Purpose – This project involves investigating the Lower Floridan aquifer (LFA) as a potential alternative water supply source. Project results will enhance groundwater modeling of the aquifer, and determine the practicality of developing the LFA as an alternative water supply source in areas facing future water supply deficits. Data from this project will also add to the geologic inputs in the Districtwide Regulation Model for the LFA to assess potential withdrawal-related impacts to water resources in the District.
**Need** – The District will need several well drilling and testing sites across Polk County. If possible, the District will partner with Polk County cities or the County for potential drilling locations; however, the need may arise in selected locations for the acquisition of lands and/or easements.

**Florida Forever Program Interest** – Florida Forever funds will be used for the purchase of land or easements needed for well sites.

**Description** – This project explores the LFA in Polk County to assess its viability as an alternative water supply source as well as to gain a better understanding of the LFA characteristics and groundwater quality.

**Schedule**
Land Acquisition .................................................................................................................................. 2015-2017
Construction ......................................................................................................................................... 2018-2023

Table 3. Hydrogeological Investigation of the Lower Floridan Aquifer in Polk County Funding

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Prior Years</th>
<th>FY2015</th>
<th>Future Years</th>
<th>Totals</th>
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<tr>
<td>District</td>
<td>$6,000,000</td>
<td>$4,000,000</td>
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<td>$12,000,000</td>
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<td>Florida Forever Funds</td>
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<td>Total</td>
<td>$6,200,000</td>
<td>$4,200,000</td>
<td>$2,200,000</td>
<td>$12,200,000</td>
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</tbody>
</table>

*Note: This is a multi-year funded project. The original project budget did not include a provision for land and/or easement acquisition.*

**Project Status** – District staff has approved the location for the first two drilling sites. The third site location will be determined once the first two projects are underway. The District was able to locate the first drilling site on District/Polk County jointly owned lands (Crooked Lake). The second drilling site is located on lands owned by Polk County in Frostproof.

**Fiscal Year 2014 Land Acquisition**

The following table depicts the District’s land acquisition activity during fiscal year 2013.

Table 4. Fiscal Year 2014 Land Acquisition

<table>
<thead>
<tr>
<th>Management Unit</th>
<th>County</th>
<th>Acres Acquired</th>
<th>Land Cost (District)</th>
<th>Land Cost (Partner)</th>
<th>Interest Acquired</th>
<th>District Funding Source</th>
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<tbody>
<tr>
<td>Peace Creek Canal</td>
<td>Polk</td>
<td>2.60</td>
<td>0</td>
<td>0</td>
<td>LTF Donation</td>
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<tr>
<td>Upper Saddle Creek</td>
<td>Polk</td>
<td>37.19</td>
<td>54,926.10</td>
<td>54,926.10</td>
<td>Fee</td>
<td>Florida Forever</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>39.76</strong></td>
<td><strong>$54,926.10</strong></td>
<td><strong>$54,926.10</strong></td>
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</tbody>
</table>
## District Land Acquisition Status

The following table depicts all lands owned in fee simple and less-than-fee (LTF) interests acquired by the District as of September 30, 2014.

**Table 5. District Land Acquisition Status**

<table>
<thead>
<tr>
<th>Management Unit</th>
<th>County</th>
<th>Fee Acres Acquired</th>
<th>LTF Acres Acquired</th>
<th>Total Acres Acquired</th>
<th>Purchase Price (District)</th>
<th>Purchase Price (Partner)</th>
<th>Purchase Price (Total)</th>
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</thead>
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<tr>
<td>Alafia River Corridor</td>
<td>Hillsborough</td>
<td>4,665</td>
<td>1,498</td>
<td>6,163</td>
<td>$8,399,910</td>
<td>$6,819,012</td>
<td>$15,218,922</td>
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<td>Alafia River Reserve</td>
<td>Polk</td>
<td>334</td>
<td>334</td>
<td>668</td>
<td>250,000</td>
<td>250,000</td>
<td>500,000</td>
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<tr>
<td>Annutteliga Hammock</td>
<td>Hernando</td>
<td>2,317</td>
<td>2,317</td>
<td>4,634</td>
<td>12,650,729</td>
<td>12,650,729</td>
<td>25,301,458</td>
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<tr>
<td>Bright Hour Watershed</td>
<td>DeSoto</td>
<td>32,247</td>
<td>32,247</td>
<td>64,494</td>
<td>11,638,594</td>
<td>11,638,594</td>
<td>23,277,188</td>
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<tr>
<td>Brooker Creek Headwaters</td>
<td>Hillsborough</td>
<td>1,039</td>
<td>67</td>
<td>1,106</td>
<td>3,309,648</td>
<td>2,109,648</td>
<td>5,419,296</td>
</tr>
<tr>
<td>Brooker Creek Preserve</td>
<td>Pinellas</td>
<td>1,635</td>
<td>1,635</td>
<td>3,270</td>
<td>11,104,266</td>
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<td>Chassahowitzka River and Coastal Swamps</td>
<td>Citrus</td>
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<td>5,682</td>
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<td>Deep Creek/ Lower Peace River</td>
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<td>LTF Acres Acquired</td>
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<td>Purchase Price (District)</td>
<td>Purchase Price (Partner)</td>
<td>Purchase Price (Total)</td>
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<td>Masaryktown Canal</td>
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<td>Sawgrass Lake</td>
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<td>Starkey Wilderness Preserve</td>
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<td>Structure Sites/Office Sites</td>
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<td>137</td>
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<td>Tampa Bay – Clam Bayou</td>
<td>Pinellas</td>
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<td>84</td>
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<td>Tampa Bay – Ekker Preserve</td>
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## Surplus Lands

The following table depicts lands surplused by the District during fiscal year 2014.

### Table 6. Surplus Lands

<table>
<thead>
<tr>
<th>Project</th>
<th>County</th>
<th>Acres Surplus</th>
<th>Compensation</th>
<th>Funding Source for Parent Tract</th>
<th>Comments</th>
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<tr>
<td>Bartow Service Office</td>
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<td>7.06</td>
<td>$1,350,000</td>
<td>Ad Valorem</td>
<td>Compensation also included 15-year occupancy on portion of the building</td>
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<td>Lake Tarpon Outfall Canal</td>
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<td>40,000</td>
<td>Ad Valorem</td>
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<tr>
<td>Total</td>
<td></td>
<td>9.06</td>
<td>$1,390,000</td>
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</table>

*Note: all acreages derived using geographic information system software*
Land Management Activities

The District has developed numerous management partnerships that match land use to agency mission. For example, Colt Creek State Park was purchased with District, State and Polk County Florida Forever funds, yet it is managed as a State park. Hunting at the Green Swamp is via a wildlife management area with the Florida Fish and Wildlife Conservation Commission. Approximately 95 percent of the District’s conservation lands have an approved management plan. The following is a brief description of land management activities for properties owned by the District.

**Alafia River (including Alafia River Corridor, Chito Branch Reserve and Alafia River Reserve)** – The Alafia River Corridor contains parcels of land along the Alafia River corridor from Bell Shoals Road and extends upstream to the headwaters of the river. The river’s natural floodplain is a mixture of hardwood swamps and upland hammocks. Acquisition of the land within Hillsborough County was co-funded by the District and the County with fee simple title conveyed to the District. In 1996 the District entered into a lease agreement with Hillsborough County that designated the County as manager of lands jointly purchased by the County and the District. Recreational improvements provided by Hillsborough County include hiking trails, equestrian trails, fishing, primitive and group camping. Approximately 5,516 acres of project lands in Hillsborough County acquired by the District for the C.W. “Bill” Young Reservoir are jointly managed by the District and Tampa Bay Water and known as the Chito Branch Reserve. In Polk County, the District and the County have co-funded and co-own 334 acres known as the Alafia River Reserve. Polk County is responsible for a park site on the property and the District is responsible for resource management and trail development.

**Annuetteliga Hammock** – The Annetteliga Hammock project is located in Hernando and Citrus counties, generally within a regional area located between Homosassa Springs to the northwest, the Withlacoochee State Forest to the northeast, Brooksville to the southeast and Weekiwachee Springs to the southwest. The Annetteliga Hammock area supports an important and unique assemblage of high quality temperate upland hardwood forest and exceptional caliber sandhills along the Brooksville Ridge. Preservation of the remaining large contiguous areas of the hammock region will protect some of the best remaining examples of those community subtypes that are the most endangered or rarest along the Brooksville Ridge. Since lands acquired to date are for the most part not contiguous, recreational use is limited to foot traffic and equestrian riding on more than 8 miles of marked trails. Land management activities consist of security, prescribed burning, resource monitoring, exotic species control, and public use/recreational development and monitoring.

**Bright Hour Watershed** – The project area consists of extensive, high quality prairie, hammock, marsh and slough systems that provide water management benefits for a traditionally water-poor region. Hydrologic values include protection of the headwaters of several important creek systems, such as Prairie and Shell creeks. Water storage, conveyance and flood control are also provided by the watershed’s poorly drained landscape. Habitat protection for numerous rare plant and animal species and globally imperiled, high quality natural communities is amply afforded by this project. Since the District does not hold fee simple title, land management activities consist of monitoring the terms of the conservation easements.

**Brooker Creek** – The Brooker Creek Headwaters Nature Preserve, located in Hillsborough County, remains as islands of undeveloped natural and rural lands in the changing landscape of northwest Hillsborough County. The lands include several extensive and interconnected cypress swamps, which form the headwaters of Brooker Creek. These headwater swamps are an important water resource feature on their own, as well as for their contribution to downstream elements of the creek. Lands within the Brooker Creek Headwaters are managed by Hillsborough County. The County has developed and made available several miles of unimproved interior roads that are open to hikers. The dominant habitats within the Brooker Creek Preserve, located in Pinellas County, include cypress and mixed hardwood swamps along portions of Brooker Creek. As part of the area’s natural drainage system, Brooker Creek is an important water resource feature. Local low-lying areas are drained by the creek’s system of sloughs and swamps. Floodplain vegetation offers treatment of runoff prior to discharging into Lake Tarpon. Lands within the Brooker Creek project in Pinellas County are managed by Pinellas County. Recreational
improvements/amenities available on the tract include equestrian trails, hiking trails and an interpretive foot trail. Land management activities primarily consist of coordination with the lead land managers.

**Charlotte Harbor State Park** – The Charlotte Harbor Save Our Rivers project was jointly purchased between the District and the State of Florida’s Conservation and Recreation Lands (CARL) program. Lands within the project area are characterized by a variety of natural lands including isolated freshwater marshes, tidal marshes and tidal swamps. Under a management agreement with the State, the Florida State Parks is the lead land manager for the project. Currently the park offers canoeing and boating. Land management activities consist primarily of coordination with State Parks, the land manager.

**Chassahowitzka River and Coastal Swamps** – The Chassahowitzka River and its expansive coastal swamps are located in western Citrus County. This project includes nearly two miles along the Chassahowitzka River and includes Chassahowitzka Springs, which forms the river’s headwaters. The project is contiguous with the federally owned Chassahowitzka National Wildlife Refuge to the west, the State’s Homosassa Reserve to the north and the Chassahowitzka Wildlife Management Area to the south. The project contains the Chassahowitzka River Campground, which is operated and maintained by Citrus County. Recreational activities/amenities available are primarily managed by Citrus County and include canoe/boat launch, campsites (some with full hook-ups), canoe rental; picnic pavilions; restrooms; potable water; and primitive campsites along the river. Hunting is managed by the Florida Fish and Wildlife Conservation Commission. Land management activities consist of prescribed burning, resource monitoring, land maintenance, fence repair and recreational monitoring.

**Conner Preserve** – The Conner Preserve is located in Pasco County and includes the upper portion of Cypress Creek, a regionally important surface water feature and tributary creek of the Hillsborough River. Cypress Creek originates near I-75, east of CR 581 and north of CR 578 and has a contributing watershed of 74.5 square miles. Land use of the project area is primarily agricultural, dominated by several large cattle ranches. Land cover consists primarily of improved pasture, rangeland, live oak hammocks, pine flatwoods, xeric oak/longleaf pine, cypress domes and freshwater marshes/wet prairies. The project includes a number of shallow lakes, many of which include extensive marshes or open prairies. The project area itself is located between the District's Cypress Creek Preserve and the Cross Bar/Al-Bar Ranch complex, representing two major public supply wellfields operated by Tampa Bay Water. Recreational activities/amenities available include 2 primitive campsites, 1.7 miles of hiking trails, and approximately 15 miles of shared use trails for hiking, horseback riding and biking. Land management activities consist of prescribed burning, restoration, resource monitoring and recreational development/monitoring.

**Cypress Creek Preserve** – The Cypress Creek Preserve includes the heavily forested Cypress Creek swamp, formed by its namesake, Cypress Creek, as it flows to the Hillsborough River. As part of the tributary system to the Hillsborough River, the project serves both a water detention role and a water conveyance role. Additionally, the low-lying swamps provide treatment and assimilation of runoff waters. Recreational activities/amenities available include non-potable water, 5 equestrian/group and 3 primitive campsites, 3.5 miles of hiking trails, and approximately 15.5 miles of shared use trails for hiking, horseback riding and biking. Land management activities include prescribed burning, mowing, exotic species control, timber management, resource management, and public use and recreation development/maintenance.

**Edward W. Chance Reserve** – In 2007, the former Lake Manatee Reserve, was dedicated and renamed as the Edward W. Chance Reserve, in honor of departed Governing Board member, Ed Chance. The Reserve extends over a large area which includes narrow floodplain forests and native pine lands surrounded by vast areas of rangeland, improved pastures, croplands, and citrus groves. Lands purchased within this project protect an existing regional water resource, protect floodplains, and restore adjoining wetlands in the headwaters. Recreational activities/amenities available include non-potable water, more than 10 miles of hiking trails and approximately 13 miles of shared use trails for hiking, horseback riding and biking. Management units include the Coker Prairie and Gilley Creek Tracts. Land management activities include prescribed burning, mowing, exotic species control, timber management, resource management, and public use and recreation development/maintenance.
**Flying Eagle Preserve** – The Flying Eagle Preserve is located within the Lake Tsala Apopka region of Citrus County. The property includes over five miles of frontage to the Withlacoochee River and its forested floodplain. A broad expanse of mixed hardwoods and cypress swamps cover the floodplain along the river. Areas of hammocks and xeric oak scrub lands occur throughout the higher elevations of the interior portions. Scattered marshes and wet prairies complete the landscape. The Tsala Apopka system is important because it has been described as a primary recharge area for the Floridan aquifer. Recreational activities/amenities available at Flying Eagle include non-potable water, 4 miles of hiking trails and approximately 18 miles of shared use hiking, horseback riding and bicycle trails; and 3 primitive and 5 equestrian campsites. Hunting, which is managed by the Florida Fish and Wildlife Conservation Commission, is also available.

**Green Swamp Wilderness Preserve (including Colt Creek State Park)** – The Green Swamp Wilderness Preserve (GSWP) includes several efforts directed at protecting headwater swamps, floodplains and watershed areas in the Green swamp region and along two of its principal river systems (Withlacoochee and Hillsborough). The GSWP, which includes Green Swamp East and Green Swamp West, is the District’s largest landholding and also includes Colt Creek State Park. The Green Swamp and its river systems are of hydrologic importance to central Florida, both in terms of surface water and ground water resources. Four river systems have their origin in the low-topography headwaters of the Green Swamp. Swamps, floodplains and headwaters serve as natural flood detention areas, while uplands serve as areas for recharge. Recreational amenities in the GSWP on District-managed lands include non-potable water, over 31 miles of hiking trails (including approximately 15 miles of the Florida National Scenic Trail) and 140 miles of shared use hiking, horseback riding and bicycle trails; and 5 primitive, 60 equestrian and 23 backcountry campsites. Hunting is managed by the Florida Fish and Wildlife Conservation Commission. Land management activities in the GSWP include prescribed burning, resource monitoring, natural systems restoration, mowing, exotic species control, security patrol, and public use and recreational development/maintenance.

**Gum Slough** – Lands within the Gum Slough property are located within Marion and Sumter counties and are dominated by densely forested swamps and hammocks. Nearly 1,100 acres of forested hardwood swamps that line the Gum Slough run from a common boundary with state-owned lands to the east (Half-Moon Wildlife Management Area). The lands within the area offer protection to portions of the Withlacoochee River, Gum Slough and its various hydrologic characteristics. Recreational improvements/amenities available on the property are: non-potable water, shared-use trails available for hiking, bicycling and horseback riding, and woods roads available for hiking and hunting. The property is managed by the Florida Fish and Wildlife Conservation Commission.

**Hálpata Tastanaki Preserve** – The Hálpata Tastanaki Preserve adjoins the Marjorie Harris Carr Cross Florida Greenway. Primary surface water features include five miles of floodplain along the northern bank of the Withlacoochee River. The isolated wetlands and marshes scattered throughout the site form the site's internal drainage system and provide local surface water storage. The site of Fort Izard, an important battleground during the second Seminole War, is located within the project lands. Recreational activities/amenities include approximately 4 miles of hiking trails and more than 12 miles of shared use trails for hiking, horseback riding and bicycling. Land management activities include prescribed burning, natural systems restoration, timber management, exotic species control, resource monitoring, recreation development/maintenance and security.

**Hidden Lake** – The Hidden Lake project is located in west-central Pasco County and is part of an interconnected system of lakes within the Rocky Sink/Boggy Creek basin of the Bear Creek Watershed. District ownership ensures protection of the lake and the surrounding forested wetlands and will help preserve water quality within the lake and sub-basin. Recreational use of the lands within the project is extremely limited due to development in the vicinity and the fact that the lands are essentially a “lake swamp.” Limited land management is required, primarily security patrol for illegal activities (dumping and archaeological digging).

**Jack Creek** – The Jack Creek project, located in Highlands County, includes a significant part of Jack Creek, its 100-year floodplain and outlying forested areas associated with the creek system and local lake outflow wetlands. The project area also includes portions of sand pine scrub and mixed scrub—among
Florida’s most unique threatened upland habitats. Jack Creek and its associated swamps serve as the natural drainage basin for the immediate area, as well as the water conveyance system for lakes in the area. Land management activities consist of prescribed burning, security patrol, public use/recreation maintenance and enhancements, exotic species control, mowing and monitoring for listed plants and animals. Recreational amenities/activities on the Jack Creek property are limited to 6.5 miles of hiking trails due its remote location, environmental sensitivity and access constraints.

**Lake Hancock** – Lake Hancock is located southeast of the city of Lakeland and north of the city of Bartow in Polk County. At approximately 4,500 acres, Lake Hancock is the largest lake associated with the Peace River and the third largest lake in Polk County. A requirement of the statutorily mandated minimum flow establishment is the development of a recovery strategy. Part of the proposed strategy for the upper Peace River is to restore storage in Lake Hancock and release some of the water during the dry season to help meet the flow requirements. Historically, Lake Hancock fluctuated more than a foot higher than it has during the past several decades. Lands acquired within this project will assist in reversing those impacts by replacing the District’s outfall structure so that water levels can be maintained at historical levels. The District and Polk County jointly acquired the Circle B Bar Reserve along the lake. The Reserve is managed by the County and provides hiking trails and picnic tables for recreationists. The County also manages the 1,166-acre Hampton Tract within the project area.

**Lake Panasoffkee** – The Lake Panasoffkee project is located in Sumter County and is comprised of a large, contiguous area of relatively undisturbed lands along the eastern portion of the lake’s watershed. The project extends north to include Big Jones and Little Jones creeks, both tributaries to the lake. Wetlands dominate the area with extensive mixed hardwood and maple swamps, lake front marshes and willow areas. Lands within the project protect local and regional drainage features and provide storage and detention of surface waters, while providing important wildlife resources. Recreational activities/amenities include non-potable water, more than 15 miles of shared use hiking, horseback riding and bicycle trails; group picnic pavilion, six horse stalls, 5 primitive and 20 equestrian campsites, restrooms and a campground host. The Florida Fish and Wildlife Conservation Commission manages hunting on the property. Land management activities include exotic species control, land security, cattle lease management, maintenance of facilities located on the property, public use, recreation development/maintenance, prescribed burning, timber management, natural systems restoration and resource monitoring.

**Little Manatee River** – The Little Manatee River project, located in Hillsborough and Manatee counties, contains parcels of land along the Little Manatee riverine corridor from downstream estuarine waters to the river’s headwaters. Dense forest dominates the land along the river’s floodplain with the adjoining uplands being comprised of a mixture of pine flatwoods, mixed hardwoods and shrub and brushlands. The District has entered into an interlocal agreement with Hillsborough County wherein the County has lead responsibility for lands jointly purchased by Hillsborough County and the District. Lands within Manatee County, known as the Southfork Tract, are managed by the District, and includes approximately six miles of hiking trails. Recreational improvements/amenities made available by the County include: canoe landing sites adjacent to five primitive campsites along the river, fishing, and hiking trails. District land management activities on the Southfork Tract consist of road stabilization, prescribed burning, natural systems restoration, mowing and recreational development/maintenance.

**Lower Hillsborough Wilderness Preserve** – The Lower Hillsborough Wilderness Preserve includes several miles of the Hillsborough River and its broad floodplain. The project contains important areas of natural flood conveyance and storage and contains the Morris Bridge Wellfield. Recreational activities available include five developed park sites managed by Hillsborough County including such amenities as hiking, equestrian and bicycle trails, picnic pavilions, restrooms, boat launches and visitor centers. The District has also made available an additional 25 miles of equestrian trails. Hunting is managed by the Florida Fish and Wildlife Conservation Commission. Land management activities include exotic species control, land security, public use and recreation development/maintenance, prescribed burning, timber management, wildlife management, natural systems restoration and mowing.
**Lower Peace River Corridor (including Deep Creek)** – Located in DeSoto County, lands within the project include an extensive network of tributaries, floodplain swamps and connected headwaters. Recreational activities available include non-potable water, approximately 2 miles of hiking trails; more than 6 miles of shared use trails for hiking and horseback riding; and 1 backcountry and 10 equestrian campsites. Land Management activities include prescribed burning, mowing, exotic species control, wildlife monitoring, recreational amenity development/monitoring and security.

**Myakka River/Deer Prairie Creek/Myakka State Forest** – A majority of the lands within the Myakka River project were jointly purchased with the State of Florida's Conservation and Recreation Lands (CARL) program (Myakka State Forest) and Sarasota County (Deer Prairie Creek). Lands within the project area are characterized by a variety of natural lands and lands altered by development including mesic pine flatwoods, oak hammocks, shell mounds, prairie hammock and improved pasture. The project area includes portions of the Myakka River and its floodplain forests. Lands included within the Myakka State Forest are managed by the Florida Forest Service (FFS). The FFS has made the following recreational improvements/amenities available on the property: shared use trails for bicycling, horseback riding and hiking, and primitive camping. Lands within Deer Prairie Creek are jointly managed by the District and Sarasota County. Land management activities include fencing, road upgrade, exotic species control, recreation development/maintenance and public use, prescribed burning, wildlife monitoring and mowing.

**Myakka Conservation Area (including Myakka Prairie)** – The Myakka Conservation Area consists of oak/cabbage palm hammock dominated banks along the southern portions of the creek, isolated marshes and improved pastures within the upland portions and mixed natural lands scattered throughout. The property is characterized by the region's flat topography and includes landscapes of extensive shrub and brushlands, pine flatwoods and pastures. Numerous isolated freshwater marshes dot the site's flatlands. The main surface water feature, Myakkahatchee Creek, is a 21.5-mile long tributary creek of the Myakka River. Approximately 4,700 acres are managed by Sarasota County. The Myakka Prairie is adjacent to lands within the Myakka River State Park and is managed by the Florida State Parks. Recreational development/amenities on the property made available by the State Parks include hiking, bicycling and horseback riding trails. District land management activities primarily consist of exotic species control and conservation easement monitoring.

**Panasoffkee/Outlet Tract** – Lands within the Panasoffkee/Outlet Tract extend over three miles along the eastern floodplain of the Withlacoochee River. For the most part, the areas are representative of the river's five-year floodplain, which include the regularly flooded cypress and mixed hardwood forests, as well as some areas of temperate hammock. Preservation of these lands along the river will maintain their function and protect forested swamps important to the water resources and water quality of the river system. Recreational activities on the property include approximately three miles of hiking trails, fishing and a boat access. Land management activities include prescribed burning, mowing, road repair, exotic species control, cattle lease management, public use and recreation development/maintenance.

**Potts Preserve** – The Potts Preserve is located within the Lake Tsala Apopka region in eastern Citrus County and includes portions of the Hernando Pool. The Preserve's eastern boundary is formed along 5 ½ miles of the Withlacoochee River and its associated floodplain. The lands are a mixture of lakes, ponds and marshes surrounding islands of oak forests and lands partially cleared for agriculture. The Tsala Apopka system is considered important as an area of recharge for the Floridan aquifer. Recreational activities/amenities available include non-potable water, approximately 12 miles of hiking trails; eight miles of shared use trails for hiking, horseback riding and bicycling; five equestrian and one backcountry campsites; and boat launch. Hunting is also allowed on the property. Land management activities include public use and recreation development/maintenance, land security, prescribed burning, wildlife monitoring, natural systems restoration and mowing.

**Prairie/Shell Creek** – The Prairie/Shell Creek project is envisioned as a greenway corridor from the mouth of the Peace River to the District’s Bright Hour Watershed project to the north and to the State’s Babcock Ranch to the south. Recreational activities/amenities available include approximately five
miles of hiking trails. Land management activities include prescribed burning, wildlife monitoring, resource monitoring, resource protection and recreational development.

**RV Griffin Reserve (including Lewis Longino Preserve)** – The RV Griffin Reserve is located in DeSoto and Sarasota counties and includes lands supporting and surrounding the existing facilities at the Peace River/Manasota Regional Water Supply Authority treatment plant. Lands in the project area include mixed hardwood forests along the river; however, the majority of the lands consist of pine flatwoods, rangelands, pastures and pine plantations. The Reserve supports and protects present potable water supplies. The Water Supply Authority manages the approximately 6,000 acres owned in fee. Recreational activities/amenities include shared use trails available for bicycling, horseback riding and hiking. The District monitors the 3,804-acre conservation easement known as the Lewis Longino Preserve.

**Sawgrass Lake** – Acquisition of the Sawgrass Lake project began in the 1970s to provide flood protection to the City of Pinellas Park. A water control structure was built to facilitate drainage canal improvements and to maintain desirable water level fluctuations in Sawgrass Lake and the surrounding swamp. The lake and swamp system provide natural water treatment to enhance the quality of water draining to Tampa Bay. In 1976, the District, Pinellas County and the Pinellas County School Board cooperatively agreed to establish a county park and an environmental education center on the site. The property is managed by Pinellas County and Pinellas County School Board. Pinellas County has developed a wide array of recreational amenities on the property including: restrooms, potable water, elevated boardwalks, hiking trail, nature center, outdoor interpretive displays; and they offer interpretive tours by reservation. The School Board has established an environmental education program that serves area students from kindergarten through fifth grade.

**Starkey Wilderness Preserve** – Located in Pasco County, lands within the Starkey Wilderness Preserve are a combination of pine flatwoods, sandpine scrub, oak forests, scattered marshes and cypress swamps. The project lands are a part of the contributing watershed of the Anclote River. The Starkey Wellfield and part of the J. B. Starkey Wilderness Park are located within the project limits. Recreation at the Starkey Wilderness Park is managed by Pasco County, while the District manages recreation on the Serenova and Anclote Ranch tracts. Recreational activities/amenities available at Starkey Wilderness Park include paved bicycle trails, equestrian trails, hiking/backpacking trails, cabin rental, primitive camping, horse corral, picnic pavilions, self-guided educational nature trail and restrooms. Recreational amenities on the Serenova tract include approximately 20 miles of shared use hiking, horseback riding and bicycle trails; and ten equestrian and three primitive campsites. Land management activities on the Preserve include prescribed burning, natural systems restoration, wildlife monitoring, exotic species control, land security, recreational development/management and mowing.

**Tampa Bay Estuarine Ecosystem** – The Tampa Bay Estuarine Ecosystem project furthers the Tampa Bay Surface Water Improvement and Management (SWIM) plan. Approximately half the project consists of mangroves and salt marsh which dominate the northern project area along Bishop Harbor and the western area associated with the tidal bays of Moses Hole, Clambar Bay and Williams Bayou. The natural upland and wetland habitats within the project area provide natural water quality treatment of overland flows before reaching the receiving waters of Tampa Bay. A majority of lands within the Tampa Bay Estuarine Ecosystem project were jointly purchased with the State or local governments. Under an agreement with the State, Florida State Parks is the lead land manager for Terra Ceia Preserve State Park. Hillsborough County manages the Ekker Preserve and Schultz Preserve tracts; Pinellas County manages the Clam Bayou tract; Manatee County manages Pine Island; and the District manages the TECO, Frog Creek and Terra Ceia/Huber tracts.

**Two-Mile Prairie State Forest** – Two-Mile Prairie State Forest lies along the southern bank of the Withlacoochee River at the northern end of the Tsala Apopka Lake system and includes a variety of upland plant communities characterized by well-drained soils. Wetlands and surface water features include several miles of the Withlacoochee River and isolated depression marshes. The project protects natural floodplain areas along portions of the southern bank of the river, while adjoining uplands provide buffer areas to protect the river from high intensity land uses. The lands within this project were jointly purchased between the District and the State's Conservation and Recreation Lands (CARL)
program. Under a management agreement with the State, the Florida Forest Service (FFS) is the lead land manager. Recreational improvements/amenities made available by the FFS include a trail network north of CR-491 for bicycling and horseback riding, canoeing and non-gas powered boating, fishing, primitive camping, picnicking, and 2.8 miles of registered “trailwalkers” trail. Land management activities consist of monitoring and coordinating with the FFS regarding their management of the tract.

**Upper Hillsborough Preserve** – The Upper Hillsborough project, located in Pasco and Polk counties, includes the channel of the Withlacoochee and Hillsborough rivers, including a unique hydrologic feature - the Withlacoochee River/Hillsborough River overflow. At this point, a portion of the flow of the Withlacoochee River naturally conveys to the Hillsborough River north of U.S. Highway 98. Lands within this project protect the hydraulic features of the river systems along with extensive areas of forested wetland habitats. Recreational activities/amenities available at the Upper Hillsborough include non-potable water; approximately 9 miles of hiking trails; more than 30 miles of shared use hiking, horseback riding and bicycling trails; 5 primitive and 10 equestrian campsites, and fishing. Hunting is managed by the Florida Fish and Wildlife Conservation Commission. Land management activities include prescribed burning, exotic species control, public use and recreational development/maintenance, land security, natural systems restoration and wildlife monitoring.

**Upper Lake Marion Creek Watershed** – The relatively undisturbed creek system of the Upper Lake Marion Creek Watershed flows north out of Lake Marion, joins Snell Creek and ultimately flows southeast to Lake Hatchineha. The entire Lake Marion Creek basin extends over 18,300 acres and includes portions of both the Southwest and South Florida water management districts. This district has entered into an agreement with the SFWMD to assist in the management of its lands since, due to the property's proximity to SFWMD-managed lands, the SFWMD can manage the property more cost effectively. District land management consists primarily of coordination with the SFWMD.

**Upper Myakka River Watershed (Flatford Swamp)** – The Upper Myakka River Watershed project is located in Manatee County and includes forested floodplain swamps and marshes along the upper portions of the Myakka River watershed. The headwater swamps function as retention and detention areas for local drainage. Wetland forests and adjoining uplands provide treatment of surface runoff. Access to the property is limited to hiking since the project lands are often flooded, which is not conducive to recreational trail development. However, the property contains narrow flatwoods roads and jeep trails that can be used for hikers during dry weather.

**Weekiwachee Preserve** – The Weekiwachee Preserve is located in Hernando and Pasco counties and includes several miles of the Weeki Wachee River and extensive areas of hardwood swamps and hammocks. The Weeki Wachee Swamp extends several miles along the coastal portions of Hernando County and represents a regionally important wildlife area. The riverine swamps are environmentally sensitive areas, which play an important role in the river's conveyance system and in flood and storm abatement. As they approach their outfall at the Gulf of Mexico, the Weeki Wachee and Mud Rivers form a complex system of productive estuarine marshes and lowlands. Recreational activities/amenities include approximately six miles of hiking trails and six miles of shared use hiking and bicycling trails, and fishing. The Preserve is open to vehicular access two Saturdays of every month. Hunting is managed by the Florida Fish and Wildlife Conservation Commission. Land management activities include natural systems restoration, exotic species control, land security, public use and recreational development/maintenance, prescribed burning, wildlife monitoring, road repair and mowing. The Weeki Wachee Springs State Park is managed by Florida State Parks.
Progress of Funding, Staffing and Resource Management

The following table depicts the District’s budget for funding and staffing for resource management, public use and payments in lieu of taxes.

Table 7. Progress of Funding, Staffing and Resource Management

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Florida Forever Land Acquisition Projects

*Northern Planning Region*

Figure 3. Northern Planning Region Map

The lands eligible for acquisition within the Northern Planning Region are identified as follows:

- Approximately 91,300 acres identified for potential fee simple acquisition
- Approximately 45,600 acres identified for potential acquisition through less-than-fee techniques
Heartland Planning Region

Figure 4. Heartland Planning Region Map

The lands eligible for acquisition within the Heartland Planning Region are identified as follows:

- Approximately 71,800 acres identified for potential fee simple acquisition
- Approximately 104,300 acres identified for potential acquisition through less-than-fee techniques
Southern Planning Region

Figure 5. Southern Planning Region Map

The lands eligible for acquisition within the Southern Planning Region are identified as follows:

- Approximately 127,600 acres identified for potential fee simple acquisition
- Approximately 60,400 acres identified for potential acquisition through less-than-fee techniques
Tampa Bay Planning Region

Figure 6. Tampa Bay Planning Region Map

The lands eligible for acquisition within the Tampa Bay Planning Region are identified as follows:

- Approximately 32,500 acres identified for potential fee simple acquisition
- Approximately 17,700 acres identified for potential acquisition through less-than-fee techniques
January 5, 2015

The Honorable Rick Scott
Governor of Florida
Plaza Level 05, The Capitol
400 South Monroe Street
Tallahassee, Florida 32399-0001

Subject: Annual Report on Cash Payments as Mitigation

Dear Governor Scott:

This letter is written pursuant to Section 373.414(1)(b)(2), Florida Statutes, which requires that each water management district report annually to the Executive Office of the Governor “all cash donations accepted under subparagraph 1 during the preceding calendar year for wetland mitigation purposes.”

During the reporting period, the Southwest Florida Water Management District received no cash payments as mitigation, pursuant to 373.414(1)(b), Florida, Statutes.

Sincerely,

Robert R. Beltran, P.E.
Executive Director

cc: Secretary Jonathan P. Steverson, FDEP
Strategic Plan
2014–2018
Updated January 2015
and 2014 Annual Work Plan
Southwest Florida
Water Management District
District committed to meeting its core water resources mission

The Southwest Florida Water Management District (District) serves its stakeholders, the citizens of the 16-county west central Florida region, by managing and protecting the region’s water resources to ensure their continued availability while maximizing the benefits to the public. Our core areas of responsibility are water supply, water quality, natural systems and flood protection.

The District is a solution-oriented agency that emphasizes scientific and technical excellence while also providing high quality service to its customers. Our ongoing commitment is to be responsive to our stakeholders as we meet our responsibilities.

The region faces many water resource challenges as our communities continue to grow and the water resources remain limited. This Strategic Plan provides the road map for meeting those challenges by identifying what needs to be accomplished, how it will get done, and how success will be measured.

Last year we revamped our five-year plan to more specifically target priorities in each of our four planning regions. In the Northern Region our priorities are improving our coastal spring systems and improving water use efficiencies to ensure a long-term sustainable water supply. In the Tampa Bay region, we are focused on recovering water resources impacted by water withdrawals and improving water bodies such as Tampa Bay. The priorities in the Heartland and Southern regions include meeting the goals of the Southern Water Use Caution Area Recovery Strategy and improving priority water bodies. As we enter the second year of the plan, we have accomplished many of our objectives. Some of the larger accomplishments include:

• working closely with local, regional and state agencies to develop a regional water supply plan for the Central Florida Water Initiative, a five-county region that spans three water management districts
• completing construction on both the Lake Hancock Lake Level Modification project to help increase flows in the upper Peace River and the Lake Hancock Wetland Treatment System to improve water quality entering into the Peace River and Charlotte Harbor
• assisting the Peace River Manasota Regional Water Supply Authority to complete three phases of the Regional Integrated Loop System
• partnering with the Withlacoochee Regional Water Supply Authority to develop a regional water supply plan

While much has been done, many water resource challenges remain. Funded primarily through property taxes, the District is responsible to the taxpayers to protect their investment in water management. The District has been able to reduce its operational expenses by approximately 42 percent over the last six fiscal years. Funds saved through these efficiency measures are used for projects such as springs restoration, alternative water supply development, water quality improvements and flood protection.

The District is continually looking for ways to reduce costs, improve effectiveness and maximize the taxpayer investment in our mission. We will continue to use developing technology to deliver a better value to our citizens by increasing efficiencies in all areas.

Michael A. Babb
Governing Board Chair

Governing Board

Michael A. Babb
Chair/Hillsborough County
Randall S. Maggard
Vice Chair/Pasco County
Jeffrey M. Adams
Secretary/Pinellas County
David W. Dunbar
Treasurer/Hillsborough, Pinellas Counties
Carlos Beruff
Former Chair/Manatee County
H. Paul Senft, Jr.
Former Chair/Polk County
Ed Armstrong
Pinellas County
Bryan K. Beswick
DeSoto, Hardee, Highlands Counties
Thomas E. Bronson
Hernando, Marion Counties
Wendy Griffin
Hillsborough County
George W. Mann
Polk County
Michael A. Moran
Charlotte, Sarasota Counties
vacant
Citrus, Lake, Levy, Sumter Counties

The Governing Board establishes policies for the District. Board members are unpaid citizen volunteers appointed by the Governor and confirmed by the Florida Senate. At printing, there is one vacant Board seat.

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The Southwest Florida Water Management District (District) is a science-based organization responsible for managing and protecting water resources in west-central Florida. The District’s job is to ensure there are adequate water supplies to meet the needs of current and future users while protecting and restoring water and related natural resources. (See Mission Statement.)

The District encompasses all or part of 16 counties, from Levy County in the north to Charlotte County in the south. It extends from the Gulf of Mexico east to the highlands of central Florida. The District contains 98 local governments spread over approximately 10,000 square miles, with a total population estimated to be 4.7 million in 2010. For planning purposes, the District is divided into four regions: Northern, Tampa Bay, Heartland, and Southern. (See District Planning Regions map.)

Governing Board
A 13-member board governs the District. The Governing Board establishes policies and sets the budget for the District. Appointed by the Governor and confirmed by the Senate, Governing Board members are unpaid volunteers representing diverse backgrounds and interests. Board members, who must live in the District, serve four-year terms.

Budget
The District’s primary funding source is ad valorem taxes, although revenues are also derived from state and federal appropriations, permit fees, interest earnings and other sources. The District’s primary taxing capabilities are established by the Legislature within the limits set by the Florida Constitution. The limit for the District is one mill, or one dollar per thousand dollars of assessed value. The Governing Board millage for fiscal year 2015 is 0.3658 mill. More information about budgeting is included in this document’s Core Business Practices section.

Core Mission
Florida Statutes, primarily Chapter 373, authorize the District to direct a range of initiatives, programs and actions. These responsibilities can be grouped under four general areas which form the District’s core mission: water supply, water quality, natural systems and flood protection. The District has established a goal for each of these areas of responsibility:

- **Water Supply Goal:** Ensure an adequate supply of the water resource to provide for all existing and future reasonable and beneficial uses while protecting and maintaining water and related natural resources which provide the District with its existing and future water supply.
- **Water Quality Goal:** Protect and improve water quality to sustain the water, environment, economy and quality of life.
- **Natural Systems Goal:** Preserve, protect and restore natural systems to support their natural hydrologic and ecologic functions.
- **Flood Protection Goal:** Minimize flood damage to protect people, property, infrastructure and investment.
Strategic Initiatives
The District is implementing a wide array of programs and projects to meet these four goals. These activities are grouped under 10 Strategic Initiatives:
• Regional Water Supply Planning
• Alternative Water Supplies
• Reclaimed Water
• Conservation
• Water Quality Assessment and Planning
• Water Quality Maintenance and Improvement
• Minimum Flows and Levels Establishment and Recovery
• Natural Systems Conservation and Restoration
• Floodplain Management
• Emergency Flood Response

The Strategic Initiatives section of this document will provide additional information on each of the Initiatives, including goals and strategies.

Regional Priorities
While the Strategic Initiatives identify activities implemented throughout the District, the water resource needs vary from one planning region to another. The top water resource priorities for each region, along with measurable objectives, are identified in the Regional Priorities section of this document.

Vision and Values
Every organization has an identity that is forged not only by what it does, but by how it conducts itself. The qualities identified in this Vision include being dynamic, efficient, ethical, collaborative, competent and committed to the vitality of the state and its environment.

To achieve this Vision, the District has established five Core Values that set the tone and the direction for its employees:
• Service Excellence
• Teamwork & Collaboration
• Self Management
• Professional Integrity
• Professional and Technical Excellence

These Core Values are further defined in, and serve as the foundation of, the District’s annual employee evaluation process, embedding these principles in the fabric of the organization and making them meaningful to employees in their daily activities.

Core Business Processes
In addition to adhering to its adopted values, the District must excel in seven core business processes to successfully achieve its strategic initiatives:
• Water Resources Planning
• Innovative Projects
• Regulation
• Long-Range Financial Planning
• Land and Structure Operations
• Knowledge Management
• Public Engagement

These business processes are explained in more detail in the Core Business Processes section.

VISION
The District is a dynamic and efficient public organization led and staffed by ethical, collaborative and highly competent people who provide superior service to our community. As stewards of Florida’s water and related natural resources, we find our work rewarding and are driven by a desire to sustain the vitality of our state and its precious environment.

CORE VALUES
Beliefs setting the tone and direction for our employees

Service Excellence
We are a solution-oriented agency committed to achieving results and efficiently meeting the needs of the public and the water resources.

Teamwork & Collaboration
We communicate and work together effectively to achieve our common goals.

Self Management
We set challenging goals for our personal achievement and hold ourselves accountable for the results.

Professional Integrity
We operate transparently and apply our processes, rules and regulations in a consistent manner.

Professional and Technical Excellence
We use our expert knowledge, technology and other available resources to achieve high-quality work.
1. Regional Water Supply Planning

Goal Statement: Identify, communicate and promote consensus on the strategies and resources necessary to meet future reasonable and beneficial water supply needs.

The District’s regional water supply planning effort provides the framework for future water supply management decisions for all 16 counties within the District. This is a collaborative effort involving local governments, utilities, the agricultural community, business representatives, environmental organizations and other stakeholders.

Strategies
- Develop accurate and reliable demand projections
- Identify sufficient regional water supply sources to meet projected demands
- Encourage the development and use of regional water supply authorities to plan and coordinate water supply solutions
- Incorporate adaptive management processes in water supply planning
- Coordinate with other water management districts on water supply and regulation approaches
- Proactively coordinate with water supply utilities
- Demonstrate the District’s financial commitment to assist in the development of regional water supply needs

2. Alternative Water Supplies

Goal Statement: Increase development of alternative sources of water to ensure groundwater and surface water sustainability.

Alternative water supply (AWS) refers to any nontraditional source of water that reduces the region’s dependency on fresh groundwater. As of 2014, the District has helped to develop more than 138 million gallons daily (mgd) of alternative water supplies.

Strategies
- Develop surface water capture, desalination and brackish groundwater systems
- Partner with the agricultural community to provide alternative water supplies
- Continue to leverage District funds to facilitate the development of alternative water supplies
- Continue to support research into aquifer storage and recovery viability
- Promote conjunctive use approaches through regulation and funding incentives

3. Reclaimed Water

Goal Statement: Maximize beneficial use of reclaimed water to offset potable water supplies and restore water levels and natural systems.

Reclaimed water is wastewater that has received at least secondary treatment and disinfection and is used for a beneficial purpose, such as irrigation, manufacturing processes or power generation. By offsetting demand for groundwater and surface water, this alternative water source reduces stress on environmental systems, provides economic benefits by delaying costly water system expansions and reduces the need to discharge wastewater effluent to surface waters. As of 2012 (latest data available), more than 157 mgd of reclaimed water was being beneficially reused in the District, accounting for more than 10 percent of overall water use.

Strategies
- Increase availability by increasing storage capacity
- Increase availability by promoting interconnects
- Leverage District funds to maximize efficient and beneficial use of reclaimed water
- Improve efficiency through measures such as metering and volume-based pricing
- Continue to support reclaimed water research, monitoring and public education
- Augment reclaimed water with traditional sources when appropriate
- Provide regulatory incentives to increase beneficial use and offsets
- Increase benefits by promoting recharge and environmental enhancement projects

4. Conservation

Goal Statement: Enhance efficiencies in all water-use sectors.

The District fosters water stewardship awareness and sustainable behaviors among the people who live, work and play within the District’s boundaries. Conservation is achieved through education, financial incentives and various regulatory and non-regulatory programs. Per capita water usage in the District has regularly ranked as the lowest in the state.

Strategies
- Promote water conservation through public engagement programs
- Support research and implementation of conservation techniques and practices
- Promote water-conserving rate structures
- Utilize financial incentives to further encourage effective conservation practices
- Utilize regulatory program to establish effective conservation practices
1. Water Quality Assessment and Planning

Goal Statement: Collect and analyze data to determine local and regional water quality status and trends to support resource management decisions and restoration initiatives.

Those who manage Florida's water resources must have access to accurate and timely data. Good decisions require reliable information.

Strategies
- Continue to develop and maintain long-term water quality monitoring networks to collect, analyze and distribute accurate water quality information
  - Coastal Groundwater Quality and Water Use Permit Monitoring Networks
  - Springs and Aquifer Nutrient Monitoring Networks
  - Surface Water Quality Monitoring Networks
- Continue to support the District's internal data governance process
- Continue to promote partnerships through District water quality programs

2. Water Quality Maintenance and Improvement

Goal Statement: Develop and implement programs, projects and regulations to maintain and improve water quality.

The District develops and implements projects, programs and regulations to maintain and improve water quality. Through fiscal year 2013, District projects had provided water quality treatment for approximately 120,000 acres of watershed, resulting in the reduction of an estimated 120 tons per year of nitrogen to area waters. Examples of these efforts include partnerships for best management practices (BMPs) implementation such as the Facilitating Agricultural Resource Management Systems (FARMS) Program, focused on the agriculture community, and the Watershed Management Program, addressing watershed improvements; well abandonment assistance offered by the Quality of Water Improvement Program (QWIP); and the restoration of surface waters performed by the Surface Water Improvement and Management (SWIM) and the Springs and Environmental Flows programs.

The District also acquires and manages land for water resources conservation/protection purposes through its land resources program and regulates stormwater management through the environmental resource permitting process. In addition, water quality assistance is accomplished through data and information sharing and the implementation of improvement projects.

Strategies
- Use cooperative funding to support local government efforts in development and implementation of basin management action plans (BMAPS)
- Continue to monitor the USEPA Numeric Nutrient Criteria process
- Promote Florida-Friendly Landscaping™ principles and other behaviors that help protect water quality
- Participate in the development and implementation of the statewide stormwater management criteria to enhance an active environmental resource permitting (ERP) program
- Utilize regulatory programs to promote water quality protection and improvement
- Continue to promote partnerships through District water quality programs such as the SWIM and the FARMS programs
STRATEGIC INITIATIVES
Natural Systems

1. Minimum Flows and Levels Establishment and Recovery

Goal Statement: To prevent significant harm and reestablish the natural ecosystem, determine MFLs and, where necessary, develop and implement recovery plans.

Minimum flows and levels (MFLs) for aquifers, surface watercourses, and other surface water bodies identify the limit at which withdrawals would be significantly harmful to the water resources or ecology of the area. Rivers, streams and springs require minimum flows, while minimum levels are set for lakes, wetlands and aquifers. MFLs are used for permitting or planning decisions concerning how much water may be safely withdrawn from a water body.

Through fiscal year 2013, the District had set 204 minimum flows and levels on rivers, lakes, aquifers and wetlands. The District’s process for establishing MFLs includes independent scientific peer review and opportunities for interested stakeholders to participate in public review. The District also assesses potential water supply/resource problems and evaluates water use permit applications to ensure no violation of established MFLs occurs. In addition, MFLs are monitored and evaluated for compliance. This includes determining the need for recovery, implementing strategies to prevent flows or levels from falling below established MFLs, and assessing the recovery of water bodies where significant harm has occurred. To date, the District has developed three regional recovery strategies associated with Water Use Caution Areas (Northern Tampa Bay, Southern and Dover/Plant City) and two water body-specific plans that cover the water resources currently known to not meet established MFLs.

**Strategies**

- Update MFL priority list and schedule annually
- Establish water body-specific MFLs through:
  - Data collection
  - Data analysis and reporting
  - Independent scientific peer review and public review
  - Rule adoption
- Continue to incorporate MFLs in District water use permit application review processes and compliance monitoring
- Monitor and report hydrologic conditions to ensure compliance with MFLs
- Continue to review and refine scientific methodologies used in establishing MFLs
- Implement adopted recovery strategies
- Incorporate MFL recovery and prevention strategies into the Regional Water Supply Plan development process

2. Conservation and Restoration

Goal Statement: Identify critical environmentally sensitive ecosystems and implement plans for protection or restoration.

The conservation and restoration strategic initiative preserves, protects and restores natural systems to support natural hydrologic and ecologic functions. The major components of this initiative include land acquisition and management, ecosystem monitoring and restoration, education and regulation. Through 2013, nearly 30,000 acres of habitat had been restored through District programs and partnerships with state and local governments.

Acquisition and management of land are critical to the District’s conservation and restoration objectives. Once acquired, land is restored and managed to maintain ecological and hydrological functions. Restoration initiatives, such as the Surface Water Improvement and Management (SWIM) Program, are overseen by the District to restore priority water bodies. Numerous recreation and educational opportunities are offered on District lands to enhance conservation land stewardship.

The District also regularly tracks land and water resource alterations through its aerial land use/land cover, wetland and seagrass mapping efforts. Staff is able to monitor changes and offer feedback to better link land and water resources for developments of regional impact (DRI) and local government comprehensive plan amendments. The District’s environmental resource permit (ERP) program helps protect water resources.

**Strategies**

- Evaluate acquisition opportunities, placing priority on ecological value, inholdings, additions, core conservation areas, realistic landowner expectations, and leveraging partnership dollars
- Innovative restoration projects and partnerships
- Promote conservation of land through recreation and education opportunities
- Regulate to avoid impacts or minimize and mitigate unavoidable impacts
- Partner to continue wetland, lake and river monitoring and analysis
- Provide technical assistance to state, regional and local governments for linking land and water
- Utilize management tools to enhance maintenance of conservation lands

8
1. Floodplain Management

Goal Statement: Develop better floodplain information and implement floodplain management programs to maintain storage and conveyance and to minimize flood damage.

The District’s Watershed Management Program (WMP) identifies, prioritizes and addresses flood-related water resource issues within a watershed. Information developed through the WMP is used by local governments, the District, and state and federal governments in regulatory and advisory floodplain management programs.

The District’s environmental resource permit (ERP) program protects floodplain and historic basin storage and ensures that new development does not increase the rate of stormwater runoff onto neighboring properties.

Strategic acquisition allows land to fulfill natural functions of storing and accommodating excess water and reduces the risk of flooding damage by preserving floodplains. The District also maintains and operates 4 major canal and conveyance systems and 81 flood control and water conservation structures as an important strategy in floodplain management. Extensive areas of the District depend upon the maintenance and operation of these facilities.

**Strategies**
- Implement the WMP, collect and analyze data and develop and distribute accurate floodplain information
- Implement the ERP program using WMP floodplain information
- Identify floodplain management and flood protection value associated with land acquisition opportunities
- Operate, maintain and upgrade water management structures and associated facilities
- Increase public awareness of floodplains

2. Emergency Flood Response

Goal Statement: Operate District flood control and water conservation structures, providing effective and efficient assistance to state and local governments and the public to minimize flood damage during and after major storm events.

Through its emergency flood response initiative, the District prepares for, responds to, recovers from and mitigates the impacts of critical flooding incidents. To ensure adequate preparation, the District has developed an emergency operations program and maintains a Comprehensive Emergency Management Plan (CEMP), which provides guidelines for pre-incident preparation, post-incident response and recovery, deployment and annual exercises. The District’s Emergency Operations Center (EOC) and Emergency Operations Organization (EOO) are critical to incident response. All water management districts are members of the State Emergency Response Team and serve as support agencies to the state. The District provides emergency assistance to local governments and the public. District regulatory flood investigation teams assist local governments with emergency construction authorizations, equipment and staff and help to determine and implement solutions to flooding problems for major conveyance systems.

The enhancement and modernization of District water management facilities includes the automation and upgrading of water conservation and flood control structures with remote control and equipping mission-critical structures with digital video monitoring. Emergency notification sirens have been installed at two high-hazard District water control facilities — Medard Reservoir in Hillsborough County and G-90 in Highlands County. With these sirens, downstream residents can be warned to evacuate should either of the facilities fail.

**Strategies**
- Continue to promote the National Incident Management System (NIMS) and Incident Command System (ICS) as the District’s incident management system
- Establish redundant control systems for all mission-critical infrastructure
- Use technology, including automation, to the fullest extent to ensure optimal response capabilities
- Train staff in NIMS/ICS structure and exercise the District’s CEMP and high hazard structure Emergency Action Plans
- Provide emergency assistance to local governments and agencies as requested
Regional Priorities and Objectives
Northern Region — Springs

Priority:
Improve northern coastal spring systems

Objectives:
- Implement water quality improvement projects in each priority water body or springshed to move closer to the established water quality standards
- Establish natural systems restoration plans with targets and implement identified projects for each spring

Narrative:
Among the most precious water resources in the District are the more than 150 documented springs, and the rivers, bays, and estuaries that are fed by them. Over the past half century virtually all of these spring-fed systems have experienced significant ecological changes caused by both natural variability and human activities.

Most individual springs cluster around 16 groups of springs. The five largest are classified as first-magnitude groups (flow rates of 100 cubic feet per second or greater). These are the Rainbow Springs, Crystal River/Kings Bay, Homosassa Springs, Chassahowitzka Springs and Weeki Wachee Springs.

The District recognizes the need to manage all springs within its boundaries but places a priority on the five first-magnitude spring groups, which fall within the northern area of the District. These five spring groups collectively discharge more than one billion gallons per day.

Four of the five groups discharge into the Gulf coastal waters, home to the second largest seagrass area in the United States. With an estimated 700,000 acres, the Springs Coast seagrass area is one of the largest seagrass areas in the world. These coastal groups are also critical manatee habitat providing thermal refuge during the winter months. Kings Bay is the largest natural thermal refuge for manatees in the United States.

These groups are important not only for their ecological value but also for their economic impact on the communities that call these areas home. Four of the five first-magnitude systems have state parks associated with them that draw over one million non-resident visitors annually. This translates into $46 million in direct economic impact.

More than 900 jobs are generated by state parks associated with these springs groups. According to the United States Fish and Wildlife Service, Kings Bay supports 42 small businesses through kayaking and diving tours alone.

The District takes an ecosystem-level approach to springs management by minimizing human impacts on flow regimes, improving water quality and clarity, and restoring natural habitats. The District’s Springs Management Plan lays out a general restoration strategy, an overview of the goals and issues, and a list of proposed projects for the five-year period 2013-2017. The plan is a living document with adaptive management at its core.

The plan builds upon the Springs Coast Comprehensive Watershed Management Plan (2001) and the Springs Coast Initiative (2002), as well as more than 20 years of Districtwide expertise designing and implementing projects and monitoring activities.

Through sound investment, the District, in partnership with the various stakeholders, is implementing projects to conserve and restore the ecological balance of our spring systems, thereby supporting regional economies and quality of life. The District will track its program against the goals identified in its Springs Management Plan.
Regional Priorities and Objectives

Northern Region — Water Supply

Priority:
Ensure long-term sustainable water supply

Objectives:

- Increase conservation
  - Achieve and maintain 150 gallon per day compliance per capita with all public supply utilities by December 31, 2019 (5 utilities above 150 throughout the region as of 2013–2 in Citrus, 2 in Marion and 1 in Sumter)
  - Reduce 2011 regional average compliance per capita of 133 by 15 percent to 113
- Maximize beneficial use of reclaimed water
  - Achieve 75 percent utilization of all wastewater flows and a 75 percent resource benefit by 2030. As of 2012, the Northern Region had a utilization rate of 62 percent and resource benefit of 74 percent
  - Increase beneficial reuse flow to 18 million gallons daily (mgd) by 2030. As of 2012, the Northern Region had 11.41 mgd of reuse flow
  - Reduce reclaimed water discharge to rapid infiltration basins (RIBs) in springsheds
- Partner with Withlacoochee Regional Water Supply Authority to promote regional water supply planning and development

Narrative:

The District’s 2010 Regional Water Supply Plan shows that demand for water in the Northern Planning Region through 2030 and beyond could be met with fresh groundwater if the region’s considerable potential for reuse and conservation were realized.

Public supply use, which accounts for about 60 percent of the water use in the Northern Planning Region, has significant potential for water savings. In 2011, public supply water use in the northern region averaged 133 gallons per person per day (gpcd). This figure represents a 35 percent reduction from water usage in 2000. However, it’s still significantly higher than the other three planning regions. Also, in 2013, there were 5 utilities in the northern region with compliance per capita figures higher than 150 gpcd, which will be the maximum allowed starting on December 31, 2019.

The District’s goals are to ensure that all utilities fall below the maximum per capita usage and to reduce the regional per capita usage 15 percent by 2020. The District plan to assist public supply utilities is to minimize the need for additional groundwater supplies by maximizing the use of available reclaimed water and implementing comprehensive water conservation measures and best management practices.

The District promotes regional approaches to water supply planning and development. The benefits of regional systems include economies of scale, better ability to manage environmental impacts, improved system reliability, operational flexibility and emergency backup capability. Larger, regional systems are also able to take advantage of conjunctive use, wherein both groundwater and alternative sources are available and can be managed to mimic natural hydrologic cycles.

In the northern region, the District is partnering with the Withlacoochee Regional Water Supply Authority to promote regional water supply planning and development.
PRIORITY: Implement Minimum Flow and Level (MFL) Recovery Strategies

OBJECTIVES:

- Northern Tampa Bay Water Use Caution Area (NTBWUCA) Recovery Strategy
  - Recover minimum flows for rivers, lakes, wetlands, and other water bodies
  - By 2018, complete an assessment to determine whether Tampa Bay Water’s reduction to 90 million gallons daily (mgd) of groundwater withdrawal from the Central Wellfield System provides necessary recovery for impacted rivers, lakes and wetlands
  - Complete the permitting, final design and construction of Blue Sink and Morris Bridge Sink projects for the Lower Hillsborough River recovery
  - Conduct a 5-year assessment of the adopted MFL for the Lower Hillsborough River

- Dover/Plant City Water Use Caution Area (DPCWUCA) Recovery Strategy
  - Ensure compliance with the DPCWUCA area minimum aquifer level of 10 ft NGVD for the Upper Floridan aquifer at the District’s DV-1 Suwannee monitor well
  - Reduce January 2010 withdrawal quantities by 10 percent by January 2015 and by a total of 20 percent by January 2020
  - Establish automatic flow meter reporting equipment on 960 agricultural withdrawal points

- Southern Water Use Caution Area (SWUCA) Recovery Strategy
  - Achieve a net reduction up to 50 mgd in groundwater in SWUCA by 2025 with 40 mgd achieved through FARMS
  - Recover the SWUCA saltwater intrusion minimum aquifer level of 13.1 ft for the Upper Floridan aquifer to slow the rate of saltwater intrusion in the Most Impacted Area (MIA)
  - Ensure that there are sufficient water supplies for all existing and projected reasonable-beneficial uses

Narrative:
The District sets minimum flows and levels (MFL) on priority water bodies. An MFL is the limit at which withdrawals would be significantly harmful to the water resources or ecology. If the existing flow or level of a water body is below, or is projected to fall below, the applicable minimum flow or level within 20 years, a recovery or prevention strategy must be implemented.

Additionally, the District can designate a water use caution area (WUCA) when the Governing Board determines that regional action is necessary to address cumulative water withdrawals which are causing or may cause adverse impacts to the water and related natural resources or the public interest. WUCA rules enhance the protection and recovery of the water resources.

In the Tampa Bay Region, the District has identified recovery strategies...
The Northern Tampa Bay Water Use Caution Area (NTBWUCA) was established to address adverse impacts to water resources from groundwater pumping. The WUCA encompasses all of Pinellas and Pasco counties, and those portions of Hillsborough County north of Highway 60. The first phase of the District’s recovery strategy for restoring water resources called for reducing pumping from Tampa Bay Water’s regional wellfields and providing financial incentives for construction of alternative water supply projects. In the Northern Tampa Bay WUCA, these efforts have produced 149 mgd of new alternative water sources and allowed for groundwater withdrawals to be reduced by more than 60 mgd.

Significant hydrologic recovery has resulted from these reductions. However, more information is needed to fully evaluate the effects of the reductions on MFL recovery. Therefore, the District initiated a second phase of the recovery strategy through adoption of a comprehensive plan that includes continued monitoring and evaluation of environmental mitigation for withdrawal impacts and continued water conservation activities by Tampa Bay Water’s member governments.

One of the water resources impacted in the NTBWUCA is the Hillsborough River. The recovery strategy for the lower Hillsborough River calls for the augmentation of the river from a variety of sources, including Sulphur Springs, Blue Sink, Morris Bridge Sink and the Tampa Bypass Canal. Since December 2007, the District has transferred 11 cubic feet per second of water from the Tampa Bypass Canal to the Hillsborough River Reservoir and pumped 75 percent of this volume over the City of Tampa dam when necessary. To further support recovery of the lower river, the City of Tampa has been supplying up to 18 cubic feet per second of flow from Sulphur Springs to the base of the City of Tampa dam. Projects to develop additional augmentation quantities for the lower Hillsborough River are planned at Blue and Morris Bridge sinks.

The Dover/Plant City Water Use Caution Area (DPCWUCA) was established to address impacts from groundwater pumping for frost/freeze protection. To protect crops from freeze events, a best management practice for many farmers with agricultural commodities including strawberries, blueberries, citrus, and nurseries is to pump groundwater and irrigate when temperatures drop to near freezing. Substantial irrigation use during these times strains the aquifer system which lowers groundwater levels and can also impact residential wells and contribute to sinkhole development.

During the historic 11-day January 2010 freeze event, many residential wells were impacted and sinkholes were reported. Moreover, significant freeze events resulting in well failures and sinkholes have occurred three times over the past 10 years. As a result, the District has developed and adopted a comprehensive management plan to significantly reduce and monitor in real time groundwater pumping during future freeze events that may cause impacts to existing legal users.

A southern portion of Hillsborough County is included in the Southern Water Use Caution Area (SWUCA). In the eight-county SWUCA, which encompasses approximately 5,100 square miles, depressed aquifer levels have caused saltwater intrusion along the coast, contributed to reduced flows in the upper Peace River and lowered lake levels in areas of Polk and Highlands counties.

Groundwater withdrawals were identified as the primary cause of the depressed aquifer levels throughout the groundwater basin, with drawdowns in some areas exceeding 50 feet.

The District has adopted MFLs for 41 priority water bodies in the SWUCA. As of 2013, approximately half of the established MFLs are not being met. The District adopted the SWUCA Recovery Strategy to recover flows and levels to established MFLs, including reducing the rate of saltwater intrusion by achieving the proposed minimum aquifer level, restoring minimum flows in the upper Peace River, and restoring minimum levels to the priority lakes in the Highlands Ridge area.

Some of the primary Recovery Strategy elements for the SWUCA include:

- Updating the Regional Water Supply Plan to identify how to address growing regional water needs while minimizing impacts to the water resources and natural systems.
- Providing financial incentives for conservation, creation of alternative supplies and regional interconnections.
- Resource monitoring, reporting and cumulative impact analysis. The cumulative impact analysis evaluates changes in permitted and used groundwater quantities and water resource development projects benefiting the Upper Floridan aquifer in and around the Most Impacted Area (MIA).
REGIONAL PRIORITIES AND OBJECTIVES
Tampa Bay Region — Improve Water Bodies

**PRIORITY:**
Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole

**OBJECTIVES:**
- Develop and update plans and implement water quality improvement projects in each priority water body to move closer to the established water quality standards and seagrass targets
- Complete the Old Tampa Bay Water Quality and Habitat Assessment and begin implementation of priority projects
- Develop and update plans and implement natural system projects that restore critical shoreline, coastal upland and intertidal habitats

**Narrative:**
Lake Thonotosassa, the largest natural lake in Hillsborough County with a surface area of greater than 800 acres, is popular for recreational use as it is one of the few natural lakes in the area with public access. The lake discharges into the Hillsborough River which is used for the City of Tampa’s municipal water supply. The lake is designated as a District priority water body through its implementation of the state Surface Water Improvement and Management (SWIM) Program.

Four main challenges exist in the Lake Thonotosassa watershed. Nutrient loadings from the watershed have caused extreme nutrient enrichment resulting in algal blooms. Habitat quality and species diversity have declined. Nonnative plant species are more abundant, while availability of desirable sport fish has declined.

The District is partnering with other government agencies to identify nutrient sources in the watershed. Areas with high nutrient loadings will be prioritized for projects, such as stormwater improvement projects, maintenance/control of exotic plants, enhancement of wetland and aquatic habitats, and public education and awareness of stormwater pollution prevention and the importance of water quality and wetlands.

Success indicators include meeting pollutant reduction goals for nutrients and chlorophyll-a, increasing water clarity and increasing seagrass bed coverage and other aquatic vegetation. More information is available in the District’s SWIM Plan for the lake.

Lake Thonotosassa shoreline.

Tampa Bay is designated as an “Estuary of National Significance” and a SWIM priority water body. The 373-square-mile bay is Florida’s largest open-water estuary. Its 2,200-square-mile watershed contains more than 2 million residents.

Three main challenges exist in the Tampa Bay watershed. Coastal uplands and wetlands have been altered and lost. Nonnative animal and plant species have spread. Water quality has been degraded from pollutants and nutrient loading.

The District is working with other government agencies on a comprehensive conservation and management plan, implementation of water quality improvement projects, and restoration of the balance between coastal upland, wetland and intertidal habitats.
Success indicators include improved water quality, reduction/removal of nonnative terrestrial and wetland species, and increased hydroperiods, coverage of seagrasses and wildlife use. Through the efforts of the District SWIM program and local cooperators, 4,500 acres of coastal habitats have been restored in Tampa Bay as of 2013. As a result, water quality has improved and Tampa Bay has seagrass acreage approaching levels seen in the 1950s. More information is available in the District’s SWIM Plan for the bay.

Many areas of the bay have seen significant improvement through the efforts of multiple agencies. However, the Old Tampa Bay segment has been identified as an area of primary concern through several Tampa Bay Estuary Program (TBEP) research initiatives and advisory committee recommendations.

Unlike the other major bay segments of Tampa Bay, periodic poor water quality conditions, sediment accumulation, and limited seagrass expansion are still observed in Old Tampa Bay.

Lake Tarpon is the largest freshwater lake in the Tampa Bay area with 2,582 acres of surface area. The lake is designated as an Outstanding Florida Water, a Fish Management Area and a SWIM priority water body.

Three main challenges exist in the Lake Tarpon watershed: water quality decline, fish community imbalance, and nuisance algal blooms and nonnative vegetation increases.

The District is working in partnership with other government agencies to further assess Lake Tarpon and develop an updated plan that identifies projects and programs to reduce nutrient loading to the lake. Success indicators include increased submerged plant growth, balanced fish communities and expanded coverage of native plants.

Lake Seminole is a 684-acre freshwater lake in west-central Pinellas County that was created in the 1940s by the impoundment of an arm of Long Bayou, a brackish water segment of Boca Ciega Bay. The Lake Seminole watershed encompasses approximately 3,500 acres, of which almost 90 percent is developed as urban land uses.

Lake Seminole is currently listed by the Florida Department of Environmental Protection as an impaired water body. The primary pollutants associated with this impairment are nutrients, which have resulted in hyper-eutrophic conditions and poor water quality.

The major water quality concerns are the control of excessive nutrients entering the lake and the fate of the nutrients that do reach the lake (e.g., internal nutrient recycling).

In 2004 Pinellas County adopted the Lake Seminole Watershed Management Plan to identify and implement projects to reduce nutrient concentrations in the lake and to meet targeted water quality goals. These projects included retrofitting stormwater outflows from the five highest nutrient loading sub-basins with alum treatment systems, alum treatment and redirection of a portion of flows in the Lake Seminole Bypass Canal into Lake Seminole, removal of organic muck sediments and lake level fluctuation. The District has been partnering with the county on these projects.
REGIONAL PRIORITIES AND OBJECTIVES
Heartland Region — SWUCA Recovery

PRIORITY:
Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy

OBJECTIVES:

• Achieve a net reduction of up to 50 million gallons daily (mgd) of groundwater use in SWUCA by 2025 with 40 mgd of offsets achieved through agricultural reductions via the Facilitating Agricultural Resource Management Systems (FARMS) Program.

• Recover the SWUCA saltwater intrusion minimum aquifer level of 13.1 ft NGVD for the Upper Floridan aquifer to slow the rate of saltwater intrusion in the Most Impact Area (MIA)

• Recover 87 to 89 percent of the minimum flows for three segments of the upper Peace River through implementation of the Lake Hancock Lake Level Modification project

• Recover minimum levels at seven Polk County lakes and nine Highland County lakes by 2025

• Ensure a sustainable water supply
  - Achieve and maintain the 150-gallon-per-day compliance per capita with all public supply utilities
  - Reduce 2011 regional average per capita of 104 gallons per capita daily by 5 percent to 99 by 2020
  - Assist Polk County and its municipalities in the development of 30 mgd of alternative supply sources through the creation of a regional water supply entity
  - Increase percentage of total water use supplied by alternative sources
  - Maximize the water conservation potential for the region
  - Maximize interconnects among public supply utilities
  - Complete the Lower Floridan aquifer study in Polk County to assess its viability as an alternative water supply source and to gain a better understanding of the Lower Floridan aquifer characteristics and groundwater quality
  - Develop a Regional Water Supply Plan for the Central Florida Water Initiative by 2014 (DRAFT COMPLETED)
  - Achieve 75 percent utilization of all wastewater flows and a 75 percent resource benefit by 2030. As of 2012, the Heartland had a utilization rate of 34 percent and resource benefit of 93 percent
  - Increase beneficial reuse flow to 53 mgd by 2030. As of 2012, the Heartland Region had about 11 mgd of reuse flow
  - Complete the TECO’s SW Polk Power Station Interconnects of reclaimed water from the City of Lakeland and Polk County by 2015. Once fully operational, this project is anticipated to provide a resource benefit of 17 mgd

Narrative:
Most of the District’s Heartland Region falls within the eight-county Southern Water Use Caution Area (SWUCA), which encompasses approximately 5,100 square miles. In the SWUCA, depressed aquifer levels have caused saltwater intrusion along the coast, contributed to reduced flows in the upper Peace River and lowered lake levels in areas of Polk and Highlands counties.

Groundwater withdrawals were identified as the primary cause of the depressed aquifer levels throughout the groundwater basin, with drawdowns in some areas exceeding 50 feet.

The District has adopted minimum flows or levels (MFL) for 41 priority water bodies in the SWUCA. An MFL is the limit at which withdrawals...
would be significantly harmful to the water resources or ecology. As of 2013, approximately half of the established MFLs are not being met. The District adopted the SWUCA Recovery Strategy to recover flows and levels to established MFLs, including reducing the rate of saltwater intrusion by achieving the proposed minimum aquifer level, restoring minimum flows to the upper Peace River, and restoring minimum levels to priority lakes in the Ridge area, which extends roughly 90 miles along the center of the state in Polk and Highlands counties.

Some of the primary Recovery Strategy elements for the SWUCA include:

- Updating the Regional Water Supply Plan to identify how to address growing regional water needs while minimizing impacts to the water resources and natural systems.
- Providing financial and regulatory incentives for conservation, construction of alternative supplies and regional interconnections. District funding sources include the Cooperative Funding and Water Supply and Resource Development initiatives.
- Resource monitoring, reporting and cumulative impact analysis. The Recovery Strategy includes the continuous monitoring of trends in resource conditions and permitted and actual water use. The cumulative impact analysis evaluates changes in permitted and used groundwater quantities and water resource development projects benefiting the Upper Floridan aquifer in and around the Most Impacted Area (MIA).
- Developing and implementing water resource projects to aid in reestablishing minimum flows to rivers, recover levels in Ridge lakes, and enhance recharge. A project focus area is to increase the wet-weather storage in the upper Peace River watershed.

The District has been successful in multiple efforts associated with its SWUCA goals. Partnering with the Peace River Manasota Regional Water Supply Authority, the District has assisted in developing a sustainable water supply to meet the needs of a four-county region in the south. The District’s cooperatively funded FARMS program has helped the agricultural community reduce its use of groundwater from the Upper Floridan aquifer. The FARMS program combined with other conservation efforts have helped to reduce Upper Floridan groundwater withdrawals by more than 50 mgd, one of the targets established by the SWUCA Recovery Plan. The District’s Lake Hancock Lake Level Modification Project will be operational in 2015 to help meet the minimum flows for the upper Peace River.

Challenges remain in reducing the rate of saltwater intrusion along the coast and meeting minimum levels for Ridge lakes in Highlands and Polk counties.

While the southern portion of Polk County is included in the SWUCA, all of Polk County is part of a designated Central Florida Water Initiative (CFWI) region that is reaching sustainable groundwater limits, facing increased demands on water resources, and involves overlapping regulatory programs.

The CFWI region covers five counties, including Polk, Orange, Osceola, Seminole and southern portions of Lake. The boundaries of the St. Johns River, South Florida and Southwest Florida water management districts meet in the area.

The District is collaborating with the other water management districts and local governments to identify a sustainable water supply for the region. The keys to meeting the water resource challenges of the CFWI region include developing:

- One shared groundwater model to determine availability (completed)
- One coordinated strategy for MFL prevention & recovery (ongoing)
- One Regional Water Supply Plan (draft completed — approval scheduled for 2015)
- Consistent rules among the permitting agencies (ongoing)

Polk County has a need to develop 30 mgd of water supply sources by 2035. The District is assisting Polk County and its municipalities in establishing a regional water supply entity, while concurrently working with its CFWI partners to develop a regional water supply plan to address the water supply needs of its five-county region.
Narrative:
The Winter Haven Chain of Lakes is a system of 19 interconnected lakes in Polk County. Designated as a SWIM priority water body, the chain encompasses a 32-square-mile watershed and is made up of two major groups with 5 lakes in the northern chain and 14 in the southern chain. The lakes were interconnected through the construction of canals to promote recreational access.

Two main challenges exist in the Winter Haven Chain of Lakes watershed: nutrient loading from urban runoff and the loss of natural systems.

The District is working with other government agencies to reduce non-point source pollutant loadings through pollutant reduction goals and stormwater management, to restore upland and aquatic habitats while preserving plant and wildlife populations, and to implement ecologically and environmentally sound land-use practices.

Success will be measured by water quality improvements including reductions in non-point source loading of phosphorous, decreases in nonnative or undesirable species, and increases in native aquatic and upland vegetation. More information is available in the SWIM plan for the Winter Haven Chain of Lakes.

As of 2013, water quality improvement projects have been implemented for eight lakes (Conine, Howard, May, Lulu, Hartridge, Jessie, Cannon, and Mariana). In addition, twelve low impact development (LID) best management practices (BMPs) have been installed within the downtown area of the City of Winter Haven.

The Peace Creek Canal watershed in Polk County encompasses 230 square miles. The District is completing a Surface Water Resource Assessment for the watershed. The assessment involves analyzing the existing ecological infrastructure of the watershed. Several specific areas have been identified and are being further evaluated. The goal is to determine the areas of the watershed that could be restored to improve water quality, restore natural systems and enhance water storage. This assessment has been completed.

Approximately 130 lakes lie along the Ridge, which extends roughly 90 miles along the center of the state in Polk and Highlands counties. A high number of deep sinkhole basin lakes makes this region uniquely different from the other lake regions in the District, as well as throughout the state.

Declining water quality and lake levels are challenges for the lakes along the Ridge. Common water quality impacts include stormwater runoff, wastewater effluent, residential and fertilizer applications, agricultural runoff, groundwater pollution, shoreline habitat degradation and hydrologic alterations.

Through the District’s Ridge Lakes Restoration Initiative, emphasis is placed on protective lake management strategies. Stormwater treatment is identified as a high priority. Subsequently, the objective of these projects is the protection and enhancement of water quality through stormwater treatment as well as enhancement and restoration of natural systems and further flood protection.
REGIONAL PRIORITIES AND OBJECTIVES
Southern Region — SWUCA Recovery

PRIORITY:
Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy

OBJECTIVES:

• Achieve a net reduction of up to 50 mgd of groundwater use in SWUCA by 2025 with 40 mgd of offsets obtained through agricultural reductions via the Facilitating Agricultural Resource Management Systems (FARMS) Program

• Recover the SWUCA saltwater intrusion minimum aquifer level of 13.1 ft NGVD for the Upper Floridan aquifer to slow the rate of saltwater intrusion in the Most Impacted Area (MIA)

• Ensure a sustainable water supply
  - Achieve and maintain 150 gallon per day compliance per capita with all public supply utilities
  - Reduce 2011 regional average compliance per capita of 87 gallons per capita daily by 5 percent to 83 by 2020
  - Develop ASR options for potable and reclaimed water supply
  - Increase percentage of total water use supplied by alternative sources
  - Complete Feasibility Study for Flatford Swamp Hydrologic and Adaptive Management Restoration by 2014 (COMPLETED)
  - Assist the Peace River Manasota Regional Water Supply Authority in completing construction on three of the eight planned phases of the Regional Integrated Loop System project by 2014 (COMPLETED)

• Providing financial incentives for conservation, development of alternative supplies and regional interconnections. District funding sources include the Cooperative Funding and Water Supply and Resource Development initiatives.

• Resource monitoring, reporting and cumulative impact analysis. The Recovery Strategy includes the continuous monitoring of trends in resource conditions and permitted and actual water use. The cumulative impact analysis evaluates changes in permitted and used groundwater quantities and water resource development projects benefiting the Upper Floridan aquifer in and around the Most Impacted Area (MIA).

The District has been successful in multiple efforts associated with its SWUCA goals. Partnering with the Peace River Manasota Regional Water Supply Authority, the District has assisted in developing a sustainable water supply to meet the needs of a four-county region. The District’s cooperatively funded FARMS program has helped the agricultural community reduce its use of groundwater from the Upper Floridan aquifer. The FARMS program combined with other conservation efforts have helped to reduce Upper Floridan groundwater withdrawals by more than 50 mgd, one of the targets established by the SWUCA Recovery Plan. The District’s Lake Hancock Lake Level Modification Project will be operational in 2015 to help meet the minimum flows for the upper Peace River.

Much progress has been made in the region, but challenges remain to reduce the rate of saltwater intrusion along the coast and move toward meeting minimum levels for the Ridge lakes.
REGIONAL PRIORITIES AND OBJECTIVES
Southern Region — Improve Water Bodies

**PRIORITY:**
Improve Charlotte Harbor, Sarasota Bay, Shell/Prairie/Joshua creeks

**OBJECTIVES:**
- Implement water quality improvement projects in each priority water body to move closer to the established water quality standards and seagrass targets
- Reduce nitrogen load from Lake Hancock into Charlotte Harbor via the Peace River by 27 percent through the Lake Hancock Wetland Treatment System
- Develop and update plans and implement natural system projects that restore critical shoreline, coastal upland and intertidal habitats.
- Complete Surface Water Resource Assessments (SWRA) for 45 percent of the Southern region to assess the water quality of surface waters and identify potential best management practices (BMPs) needed to achieve standards
- Assist local governments with implementation of BMPs to achieve water quality standards

**Narrative:**

Charlotte Harbor is Florida’s second largest open water estuary at 270 square miles. Generally considered one of the most productive estuarine ecosystems in southwest Florida, the harbor is designated an “Estuary of National Significance” and a SWIM priority water body.

Challenges to the 4,400-square-mile Charlotte Harbor watershed include alteration and loss of wetlands, an increase in nonnative and plant species, and water quality degradation from point and non-point source pollutants.

The District is working with other government agencies on a comprehensive conservation and management plan, implementation of water quality improvement projects, and restoration of the balance between coastal upland, wetland and intertidal habitats.

Success indicators include improved water quality, reduced/removed nonnative terrestrial and wetland species, and increased hydroperiods, coverage of seagrasses and wildlife use. More information is available in the District’s SWIM Plan for the harbor.

As of 2013, the District and its cooperators have completed 13 natural systems projects which have restored 1,083 acres of coastal habitats for Charlotte Harbor. Construction of the District’s Lake Hancock Outfall Treatment System has been completed. This project, when fully operational, will remove an estimated 85 tons of nitrogen annually discharged from Lake Hancock to the Peace River and, ultimately, Charlotte Harbor.

Sarasota Bay is designated as an “Estuary of National Significance” and a SWIM priority water body. Similar to Charlotte Harbor, challenges to this 150-square-mile watershed include
changes to coastal uplands and loss of wetlands, an increase in nonnative and plant species, and water quality degradation from point and non-point source pollutants.

The District is working with other government agencies on a comprehensive conservation and management plan, implementation of water quality improvement projects, and restoration of the balance between coastal upland, wetland and intertidal habitats.

Success indicators include improved water quality, reduced/removed nonnative terrestrial wetland species, and increased hydroperiods, coverage of seagrasses and wildlife use.

As of 2013, the District and its cooperators have completed projects that have reduced nitrogen loading to Sarasota Bay by approximately 64 percent since 1988 and restored more than 900 acres of coastal habitats. Seagrass coverage has increased by 46 percent above that present in 1988.

The Shell, Prairie and Joshua Creek (SPJC) watersheds are located in the southern region of the Peace River Basin. Combined, the SPJC watersheds comprise a surface area of 487 square miles, or approximately 20 percent of the Peace River Basin.

The City of Punta Gorda obtains its potable water supply from the Shell Creek in-stream reservoir. Prairie and Shell Creeks (and their associated tributaries) are designated as Class I waters, which means they are designated for use as potable water supplies. These creeks converge at, and sustain, the City's reservoir.

The Shell Creek and Prairie Creek Watersheds Management Plan was adopted in 2004 to improve water quality degraded by increased salinity in the watersheds to achieve Class I surface water standards throughout the Shell Creek and Prairie Creek watersheds.

The plan includes a multitude of regulatory, technical assistance, research and education programs being used in combination with incentives and other non-regulatory tools to form a comprehensive approach to address the full scope of water quality issues within Shell Creek, Prairie Creek, and Joshua Creek. The effort involves a substantial level of state, federal and private resources.

The signatories of the Plan agreed to assess sources of salinity to Shell Creek, Prairie Creek and Joshua Creek to optimize reductions in concentrations to waters of these watersheds emphasizing voluntary, incentive-based programs for protecting the environment and public health.

Water quality issues in the Shell, Prairie and Joshua creeks watersheds developed from various inputs over an extended period of time. The District publishes a biennial performance monitoring update to assess the effectiveness of the plan’s implementation.

Since the implementation of management actions outlined within the SPJC Reasonable Assurance Plan, water quality (chloride, specific conductance, and Total Dissolved Solids) has significantly improved as measured at five reference sites. In addition, as of 2013, Upper Floridan aquifer groundwater pumping has been reduced (as a part of SWUCA recovery) by approximately 7.5 MGD.
Managing and protecting the water resources of a 16-county area requires a highly skilled, motivated work force with the right tools, support, and good information to make informed decisions and provide high quality service to the residents of the District. All the various functions of this workforce have been evaluated and categorized into seven core business processes. To successfully achieve our Strategic Initiatives and Regional Priorities, the District must excel in each of these.

Water Resources Planning
Water Resources Planning encompasses surface water and groundwater resource evaluations and other comprehensive planning efforts in partnership with local, state, regional, federal and other stakeholders. These responsibilities include identifying, collecting, analyzing and disseminating relevant and accurate data and providing technical assistance.

Examples include the Southern Water Use Caution Area Recovery Strategy Five-Year Assessment, Minimum Flows and Levels studies, Regional Water Supply Planning, Strategic Plan Update, Consolidated Annual Report and reviews of proposed Comprehensive Plan amendments and Developments of Regional Impact.

Innovative Projects
The District initiates and supports creative, collaborative projects to produce measurable benefits to the environment, water resources and the regional community. The projects address the District’s Core Mission goals in water supply, flood protection, water quality, and natural systems.

To ensure that these tax dollars are used as efficiently and effectively as possible, the District created a Project Management Office. Comprising a team of project managers, this Office oversees District project processes to increase efficiency and maximize benefits.

Financial Sustainability
The District’s primary funding source is ad valorem taxes, which vary from year to year. In addition to paying for its operating costs, the District provides financial incentives through partnerships with public and private entities on projects that protect and restore the water resources of the region, such as promoting water conservation, developing alternative water supplies, enhancing natural systems and water quality, and promoting flood management activities.

To best use available funds to meet its Core Mission, the District operates on a pay-as-you-go basis that allows it to make more funding available for projects. The District targets at least 50 percent of its budget each year for water resources projects.

Regulation
Regulation involves multiple permit activities that promote a fair allocation of the water resources, protect wetlands, enforce well construction standards and ensure that new activities do not increase the risk of flooding or degrade water quality. The permitting process also monitors subsequent operational performance of permitted systems to protect the region’s citizens and water resources.

The District is committed to protecting the water resources while also providing quality service in a timely, convenient and consistent manner to the regulated community. The District’s Regulatory Division is structured to eliminate duplication, increase efficiency and consistency, and reduce costs. Centralizing the permitting review process in the District’s Tampa office ensures that permit applicants throughout the District are treated consistently. Improved online permitting services make it easier and more convenient to submit a permit application and access permit data.

The District is also working with the other water management districts and the Florida Department of Environmental Protection to achieve statewide permitting consistency wherever possible while allowing for regional water resource differences.

Land Management and Structure Operations
Land Management and Structure Operations operate and maintain District lands and water control structures to restore and sustain natural systems and minimize flood damage.

In its 10,000-square-mile region the District owns 340,000 acres of land that provide various water resource benefits. These lands are managed to restore and sustain those ecosystems, store flood waters, recharge the aquifer, and treat water quality.

The District also operates 81 water control structures. Most of these structures are conservation structures that are operated to maintain water levels and provide limited flood relief. The larger flood control structures, like those associated with the Tampa Bypass Canal, are capable of quickly moving large quantities of water and
are operated to provide maximum flood protection. Structure S-160 on the Tampa Bypass Canal is the largest flood control structure in the state.

**Knowledge Management**

As a science-based organization, high quality data are critical to making informed decisions that protect and enhance the water resources. Knowledge Management is the process of systematically and actively collecting, managing and leveraging an organization’s information. As the region’s knowledge leader for water resources information, the District collects a variety of scientific and socio-economic data to support its Strategic Initiatives. While the focus of Knowledge Management activities is on meeting and supporting these initiatives, it is recognized that many public and private stakeholders also rely on this information to meet their business needs.

Information technology and water resource data collection activities at the District are managed by a governance procedure, with oversight by a Governance Committee that includes members of the District’s Executive Team. The Information Technology and Data Governance process monitors, informs, and controls the efficient and effective use of information technology and data collection to ensure these initiatives and associated resource expenditures are in alignment with the strategic direction and priorities of the District.

The District promotes consistency of data collection activities by coordinating with local, regional and state entities through participation on statewide and regional Florida Water Resource Monitoring Councils and interagency workgroups. The District is also working with the other water management districts and state agencies to implement common replacement standards for equipment; to develop common standards for sharing financial, geospatial, scientific and permit information; and to establish frameworks for joint development of software applications.

**Engagement**

Engagement is a key to retaining a highly skilled and motivated work force, the cornerstone of any successful organization. Keeping staff informed and involved promotes good morale and increases productivity. Additionally, engagement extends beyond internal staff.

To manage water resources effectively over a large region, engaging external publics, including citizens, media, elected officials, advisory committees and other stakeholders is also critical. Outreach and education engage these various groups to foster behaviors, secure funding, and assist in developing laws that conserve, protect and sustain Florida’s precious water and related natural resources. Also, through its planning and outreach processes the District collaborates with stakeholders and advisory committees to help meet those goals. Input from stakeholders and advisory committees is used by the Governing Board to make water resource decisions.

Engagement helps to communicate those shared interests, forging relationships that support collaboration to benefit the region’s water and related resources, economic stability and quality of life.
Strategic Plan Annual Work Plan

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Strategic Plan Annual Work Plan

Section 373.036(2)(e)4 Florida Statutes (F.S.) indicates the water management districts may substitute an annual work plan report included as an addendum to an annual strategic plan for the statutorily required District Water Management Plan. The statute specifies that the strategic plan establish the water management district’s strategic priorities for at least a future five-year period and identify the goals, strategies, success indicators, funding sources, deliverables and milestones to accomplish the strategic priorities. The plan development process must include at least one publicly noticed meeting to allow public participation in its development. The annual work plan report must detail the implementation of the strategic plan for the previous fiscal year (FY), addressing success indicators, deliverables, and milestones. The Southwest Florida Water Management District (District) has decided to submit an annual Strategic Plan and Annual Work Plan Report in lieu of the District Water Management Plan.

The Annual Work Plan Report is intended to fulfill the statutory requirement by identifying the regional priorities and objectives in the Strategic Plan, and providing a discussion of the milestones, success indicators and deliverables achieved in FY2014 as they relate to the specific programs that implement the plan.

Northern Region Priorities and Objectives

Priority: Improve Northern Coastal Spring Systems

Objective: Implement water quality improvement projects in each priority water body or springshed to move closer to the established water quality standards

The District is working to implement the 48 projects identified in the 2013-2017 Springs Management Plan. This Plan lays out a general restoration strategy, an overview of the goals and issues and a list of proposed projects for the five-year period from 2013-2017. As shown in the following table, the project status to date includes 4 completed projects, 10 budgeted projects but not yet initiated and 32 ongoing projects. Although the majority of the projects are in the Northern Region, there are two projects identified in the Plan for the Tampa Bay region.

<table>
<thead>
<tr>
<th>Project Status, Springs Management Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects Completed</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

*Source: District Springs and Environmental Flows staff, 2014*

The four projects completed include Ulele Springs Restoration, Chassahowitzka Spring Sediment Removal, IFAS Research and Rolling Hills Stormwater Improvements. Ulele Springs is located in the Tampa Bay region.

**Ulele Springs Restoration:** This project, cooperatively funded with the City of Tampa, restored approximately 400 feet of a natural spring run along the Hillsborough River. The project was completed in two phases – upland and wetland restoration. During the second phase, a pipe was removed that previously directed the spring outfall to the river and a meandering stream system was created that removes nitrogen from the spring water before entering the river.

**Chassahowitzka Spring Sediment Removal:** This District-led initiative removed organic sediments and sand from the Chassahowitzka Headspring, increasing visibility, reducing nutrients and improving the recreation potential of the headspring area.
IFAS Research – Evaluation of Irrigation Management and Nutrient Leaching: This project, cooperatively funded with the University of Florida’s IFAS program, was an investigation of the impacts of irrigation and landscape type on nutrient leaching. Results from the project suggest using mixed landscapes of woody plants and grasses will conserve water and reduce nutrient load leaching into groundwater.

Rolling Hills Stormwater Improvements: This project, cooperatively funded with Marion County, expanded an existing wet pond and created a series of interconnected dry treatment ponds to improve the overall pollutant removal capabilities of the system. The project is located in the Rainbow Springs springshed.

Objective: Establish natural systems restoration plans with targets and implement identified projects for each spring

The District has developed a schedule to complete the management plans for the five first-magnitude springs groups. Although the 2013-2017 Springs Management Plan recognizes the need to manage all springs, the five first-magnitude springs groups have been prioritized. These plans will also serve as the SWIM plan for the corresponding water body. The schedule is as follows:

<table>
<thead>
<tr>
<th>Spring</th>
<th>Management Plan Target Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainbow Springs</td>
<td>Late 2015</td>
</tr>
<tr>
<td>Crystal River/Kings Bay</td>
<td>Late 2015</td>
</tr>
<tr>
<td>Chassahowitzka Springs</td>
<td>2016</td>
</tr>
<tr>
<td>Homosassa Springs</td>
<td>2016</td>
</tr>
<tr>
<td>Weeki Wachee Springs</td>
<td>2016</td>
</tr>
</tbody>
</table>

Source: District Springs and Environmental Flows staff, 2014

Priority: Ensure Long-Term Sustainable Water Supply

Objective: Increase conservation

Conservation is achieved through education, financial incentives and various regulatory and non-regulatory programs. It is one mechanism to manage demand and help ensure sufficient future supply. Per capita is a measure of conservation success. For the Northern Region, the per capita goal is to achieve and maintain 150 gallons per day compliance per capita for all public supply utilities by December 31, 2019, and to reduce 2011 regional average compliance per capita by 15 percent by 2020.

The District has been making progress towards meeting these conservation and per capita goals in the Northern Region. At the beginning of the planning period, there were 14 utilities not in compliance with the 150 per capita per day. As of this report, there were only five (FY 2013 numbers – latest available) utilities not in compliance. The regional per capita numbers have also declined from 133 to 118.1 The progress in per capita can be attributed to water savings that have been achieved in the planning region through regulatory, economic, incentive-based and outreach measures. Technical assistance has also played a role in reducing per capita.

1 Since the publication of the Strategic Plan, the 2011 per capita numbers have been adjusted to reflect updated Public Supply Annual Report (PSAR) information
Objective: Maximize beneficial use of reclaimed water

Maximizing beneficial reuse to result in benefits to potable water supplies and restore water levels and natural systems continues to be a priority. The Strategic Plan identifies the objectives of 75 percent utilization and resource benefit by a 2030 timeframe. As of 2012 (latest data), this region has 62 percent utilization and 74 percent resource benefit, exceeding the interim 2020 goals of 55 percent utilization/resource benefit. As of 2012, the District has a beneficial reuse flow of 11.41 mgd while the objective is 18 mgd by 2030.

The District’s reuse targets were formulated in the late 90s. Activity is under way to reevaluate and update these targets as needed.

Objective: Partner with the Withlacoochee Regional Water Supply Authority to promote regional water supply planning and development

The District continues its partnership with the Withlacoochee Regional Water Supply Authority (WRWSA) to promote regional water supply planning and development. In FY 2014, the District and the WRWSA completed the Regional Water Supply Plan for the northern region. This Plan evaluated water use demand for all use categories and found that it is projected to increase by approximately 96.7 mgd from 2010 to 2035, and the demand reduction potential and the quantity of water available for the same period ranges from 175 to 195 mgd. This shows that demands for all use categories can be met at least through 2035 and probably well into the future.

Tampa Bay Region Priorities and Objectives

Priority: Implement Minimum Flows and Level (MFL) Recovery Strategies

Objective: Northern Tampa Bay Water Use Caution Area (NTBWUCA) Recovery Strategy

The Northern Tampa Bay Water Use Caution Area (NTBWUCA) was established to address adverse impacts to water resources from groundwater pumping. The “Comprehensive Environmental Resource Recovery Plan for the Northern Tampa Bay Water Use Caution Area” serves as the recovery plan for the NTBWUCA.

The results of 2013 MFL analysis indicates the District is currently meeting its targets for 7 of 7 groundwater levels, 14 of 41 wetlands, 1 of 2 river segments, 2 of 2 springs, 1 of 3 estuaries and 35 of 70 lakes. This is consistent with the 2012 findings, as the increase in the number of lakes not meeting targets is due to the establishment of three additional lake MFLs in 2013.

As part of the Recovery Plan, Tampa Bay Water is required to develop and implement a “Permit Recovery Assessment Plan.” This plan will identify assessments to determine the beneficial impact of reducing groundwater withdrawals in regional wellfields. Additionally, Tampa Bay Water will identify remaining adverse impacts and evaluate potential options to address them. The final results will be submitted with Tampa Bay Water’s permit renewal in 2020. The current permit contains a special condition requiring that draft results be submitted to the District in 2018. Tampa Bay Water and the District are currently meeting monthly to discuss analyses, review findings and project status. It is expected that these meetings will continue on a regular basis through 2020.
The Hillsborough River is the major water resource affected in the NTBWUCA. The recovery strategy for the Lower Hillsborough calls for the augmentation of the river from a variety of sources and projects. Specifically, the Blue Sink project has been identified as a method of obtaining additional augmentation quantities. In FY 2014, the District issued a water use permit to the City of Tampa that allows a pumpage of two mgd from Blue Sink for use as minimum flows. The City is in the process of obtaining the applicable permits for construction of this project, anticipated to be complete in 2015.

The Morris Bridge project is another District initiative expected to assist in meeting the minimum flows. This project proposes to pump water into the Tampa Bypass Canal and release it to the Lower Hillsborough via the Hillsborough River reservoir. This project will be funded, owned and operated by the District. The District must obtain a water use permit from the Florida Department of Environmental Protection (FDEP). A pre-application meeting was held with FDEP in March 2014 and the District is currently finalizing the draft permit.

The District continues to evaluate and monitor the Lower Hillsborough MFL. In FY 2014, District staff completed the draft five-year assessment. Internal review has commenced for final publication.

**Objective: Dover/Plant City (DPCWUCA) Recovery Strategy**

The DPCWUCA was established to address impacts from groundwater pumping for frost/freeze protection. The District has developed and adopted a comprehensive management plan to reduce and monitor groundwater pumping during future freeze events.

The DPCWUCA’s recovery strategy established a minimum aquifer level (mal) of 10 feet at the DV-1 monitoring well. The graph below depicts the correlation between temperature and the water levels at DV-1. As temperature drops, farmers increase pumping for crop protection, affecting the aquifer. As depicted below, the aquifer level has not come close to the mal since January 2010. The additional strategies outlined below will help to ensure continued compliance with this target.

One of the tactics in this strategy is to reduce January 2010 crop protection withdrawals by 20 percent by January 2020, with an interim analysis scheduled to be completed in January 2015. In FY 2014, the District continued analyzing data to meet the January 2015 deadline.

The installation of automatic meter (AMR) reading devices is another critical component of the DPCWUCA Recovery Strategy. Metering is critical so that the recovery assessment can include an empirical evaluation of actual pumping reduction and not just a review of permitted quantities. At the time of rule development, there were approximately 960 unmetered freeze protection withdrawals in the DPCWUCA. The District has set an objective to achieve AMR installation on all 960 points by 2018. Currently, the District has installed meters on 336 of the targeted agricultural withdrawal points, slightly ahead of schedule. The District is also providing reimbursements for the installation of flow meters, which are a pre-requisite to AMR installation. The District has completed 49 percent of these reimbursements.
Water Level and Air Temperature Tracking (January 2010-Present)

Source: District Hydrologic Data staff, 2014
**Objective: Southern Water Use Caution Area (SWUCA) Recovery Strategy**

The District has a target of offsetting up to 50 mgd in groundwater in the SWUCA in 2025 with 40 mgd to be achieved through FARMS. To date the District has offset approximately 23.911 mgd of groundwater in the SWUCA through FARMS, well beyond the midpoint for achieving the mgd goal. The table below depicts current offset and future FARMS targets for Strategic Plan period (present to 2018) and the remainder of the timeframe for SWUCA (2019-2025). Because the District is currently ahead of schedule towards meeting its SWUCA goal, the projection for 2019-2025 has been capped to meet the 40 mgd target.

![Projected FARMS Offset (in mgd)](image)

*Source: District FARMS staff, 2014*

One of the goals for this effort is the recovery of the saltwater intrusion minimum aquifer level (SWIMAL) of 13.1 feet by 2025. The table below depicts progress in this recovery. The level was 11.9 feet in 2013.

![Water Level Elevation (Feet, NGVD 1929)](image)

*Source: District Resource Evaluation staff, 2014*
In FY 2014, the District completed its five-year assessment of the SWUCA Recovery Strategy. The analysis indicated that, although the District has succeeded in meeting the water supply needs and in reducing overall groundwater use by more than 50 mgd, challenges lie ahead due to the aquifer not responding as anticipated. The recovery goal is to reach the SWIMAL goal of 13.1 feet by 2025. To assist in the formulation of ideas for addressing SWUCA issues, the District has formed and held meetings with stakeholder workgroups. Information from the stakeholder meetings will be used to craft proposals for the District’s Governing Board. District discussions on SWUCA strategies are expected to occur in early 2015.

Priority: Improve Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole

Objective: Develop and update plans and implement water quality improvement projects in each priority water body to move closer to the established water quality standards and seagrass targets

Lake Thonotosassa, Tampa Bay, Lake Tarpon and Lake Seminole are all priorities for water quality improvement in the Tampa Bay area. Lake Thonotosassa, Tampa Bay and Lake Tarpon are all SWIM priority water bodies. The District is working with local governments on projects to assess the conditions of these water bodies and to identify priority projects to improve water quality and habitat. Specific projects and associated FY 2014 milestones include the following:

Lake Thonotosassa: The District has partnered with Hillsborough County to conduct a Nutrient Source Tracking Project to determine the source of nutrients affecting the health of the lake. This project will also examine potential areas where high concentrations of nutrients can be treated at the source. In FY 2014, Hillsborough County selected a consultant and will commence the study in FY 2015. The study is expected to be complete by 2017 and will identify priority actions to improve water quality. The study findings and recommendations will be used to update the SWIM plan. Once this project is complete, its findings can be used to update the SWIM plan.

Lake Tarpon: The District has partnered with Pinellas County to update a Lake Tarpon Water Quality Management Plan, which will evaluate current water quality in the lake and identify potential Best Management Practices (BMPs) for water quality improvement. Ongoing work will involve developing a plan to identify additional projects and programs to reduce nutrient loading to Lake Tarpon. In FY 2014, the Surface Water Resource Assessment Inventory and Data Collection Plan were completed. The overall effort is expected to be completed by March 2016. The study findings and recommendations will be used to update the SWIM plan.

Tampa Bay: Tampa Bay has shown significant water quality improvement in recent years, as evidenced by growth in seagrass recovery, an indicator of overall bay health. Data for 1988-2012 (latest available) are presented below. The table shows seagrass coverage close to 35,000 acres for 2012. The next seagrass mapping analysis is scheduled to be completed at the end of 2015.
Lake Seminole: Lake Seminole is the only non-Surface Water Improvement and Management (SWIM) priority water body included as a regional priority for the Tampa Bay Region. A major concern in Lake Seminole is nutrients. The District is cooperatively funding a project with Pinellas County for the design, permitting and implementation of six water quality treatment systems to improve the quality of runoff currently entering Lake Seminole. In FY 2014, the District completed two of these projects, which removed 623 pounds (lbs) of nitrogen per year. Another Lake Seminole project was completed in a previous fiscal year, bringing the total removal rate to 1,397 lbs per year. The objective is to remove 2,688 lbs per year.

**Objective: Complete the Old Tampa Bay Water Quality and Habitat Assessment and begin implementation of priority projects**

The objective of this water quality and habitat assessment is to develop specific management plans for this segment of the Bay. Unlike other segments, this portion of the bay has not experienced improved water quality and seagrass coverage. This project developed an integrated computer model to evaluate several management options aimed at improving water quality to expand seagrass recovery areas. The management options included diversion of flows from the Lake Tarpon Outfall Canal, expanding the openings on the Howard Franklin and Courtney Campbell causeways and reducing nutrient loads to the bay from stormwater and by diversion of outfalls from waste water treatment plants. The management actions will be ranked based on the net benefit they provide to water quality and seagrass. The findings of the management option evaluations are expected in early 2015.
**Objective:** Develop and update plans and implement natural system projects that restore critical shoreline, coastal upland and intertidal habitats

The District’s SWIM program continues its restoration work for Tampa Bay. In FY 2014, the District restored 60.40 acres of habitat, including wetland, upland and submerged lands, in Tampa Bay. The following table shows a breakdown of restored habitat types.

<table>
<thead>
<tr>
<th>Habitat Type</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estuarine Wetlands</td>
<td>0.40</td>
</tr>
<tr>
<td>Freshwater Wetlands</td>
<td>40.00</td>
</tr>
<tr>
<td>Coastal Uplands</td>
<td>20.00</td>
</tr>
<tr>
<td>Submerged Habitat</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Acres</strong></td>
<td><strong>60.40</strong></td>
</tr>
<tr>
<td>Shoreline (linear feet)</td>
<td><strong>400.00</strong></td>
</tr>
</tbody>
</table>

*Source: District SWIM staff, 2014*

Fiscal year 2014 is the first year the District tracked restoration by habitat type. This activity will continue into the future. The District supports the Tampa Bay Estuary Program (TBEP) restoration work, which, as of 2008, identified 3,070 acres still needed to satisfy the 37,914 acre freshwater wetland restoration target and 2,758 acres remaining to reach the estuarine wetland restoration target of 7,600 acres. The TBEP is planning to reassess acreage and target progress in 2015.

**Heartland Region Priorities and Objectives**

**Priority: Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy**

*Objective: Achieve a net reduction of up to 50 million gallons daily (mgd) of groundwater use in SWUCA by 2025 with 40 mgd of offsets achieved through agricultural reductions via the Facilitating Agricultural Resource Management Systems (FARMS) Program*

Please see the Tampa Bay Regional Priorities and Objectives for a discussion on this objective.

*Objective: Recover the SWUCA saltwater intrusion minimum aquifer level of 13.1 ft NGVD for the Upper Floridan aquifer to slow the rate of saltwater intrusion in the Most Impacted Area (MIA)*

Please see the Tampa Bay Regional Priorities and Objectives for a discussion on this objective.

*Objective: Recover 87 to 89 percent of the minimum flows for three segments of the upper Peace River through implementation of the Lake Hancock Lake Level Modification Project*

The Lake Hancock Lake Level Modification Project involves replacing the control structure (P-11) to raise the normal operating level of the lake and releasing excess water during the dry season to increase the number of days the upper Peace River will meet minimum flows. Currently, the upper Peace meets minimum flows 70 percent of the time. Following construction completion, it is projected to meet the minimum flows 88-89 percent of the time. In FY 2014, the District completed construction of the new control structure and turned the project over to its structure operations personnel. It is anticipated that
the District can begin to evaluate functionality following the FY 2015 rainy season, with more formal evaluation after several years of minimum flow data.

**Objective: Recover minimum levels at seven Polk County lakes and nine Highlands County lakes by 2025**

In FY 2014, the District completed the SWUCA Recovery Five-Year Assessment, which determined the District is not making sufficient progress towards meeting the minimum levels for these Ridge Lakes. Staff plans to review the established minimum lake levels to ensure consistency with recent improvements to methodologies. The District has also formed a stakeholder workgroup, composed of agriculture, industry, utilities and environmental groups, to discuss potential projects and modifications to the SWUCA Recovery Strategy.

**Objective: Ensure a sustainable water supply**

The District utilizes per capita to help ensure a sustainable water supply in the future and to measure progress in measuring conservation. Specifically, the goals are to achieve and maintain 150 gallons per day compliance per capita with all public supply utilities and to reduce 2011 Heartland regional average compliance per capita by five percent by 2020. The District has been making progress towards meeting these per capita objectives in the Heartland Region. The Heartland regional per capita numbers have already declined by seven percent from 2011 numbers.

The progress in per capita can be attributed to water savings achieved through a combination of regulatory, economic, incentive-based and outreach measures, as well as technical assistance. The number of utilities above 150 gpcd has remained steady, with four utilities above in both 2011 and 2013.

During FY 2014, the District drafted a Central Florida Water Resource Development Agreement designed to achieve the following:

- Encourage the development of a regional water supply entity formed by Polk County and its municipalities.
- Commit up to $160 million to paid by the District to a regional water supply entity for the development of up to 30 mgd of alternative water supply by 2049.

The draft agreement has been reviewed and commented on by Polk County and its municipalities. The District has received the comments and a new draft is in development.

The Lower Floridan aquifer (LFA) study is ongoing. This project is intended to assess the LFA’s viability as an alternative water supply (AWS) as well as to gain a better understanding of the LFA characteristics and groundwater quality in Polk County. In FY 2014, the District completed consultant selection, with contractor selection scheduled for the beginning of FY 2015.

In FY 2014, the District, along with staff from the South Florida Water Management District (SFWMD) and the St. Johns River Water Management District (SJRWMD), completed the Draft Central Florida Water Initiative (CFWI) Regional Water Supply Plan. This plan details how to best meet the regional water supply needs for the region out to 2035. As part of this planning effort, the CFWI teams identified potential alternative water supply options. Examples of project options include surface water, brackish groundwater and reclaimed water.

The District is working to maximize beneficial use of reclaimed water to result in benefits to potable water supplies. Reclaimed water targets for the Heartland region are 75 percent utilization and resource benefit by 2030. As of 2012 (latest data), the Heartland Region has 34 percent utilization and 93 percent resource benefit. The District is on track to exceed its interim target of 55 percent utilization by 2020, with

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2 Since the Strategic Plan was published, the 2011 per capita numbers have been adjusted to reflect updated Public Supply Annual Report (PSAR) information.
combined growth at existing and funded reuse projects projected to be 64 percent. The District also has a
goal to increase beneficial reuse flow to 53 mgd by 2030. Reuse flow is currently at 11 mgd (2012 – latest
data). The combined growth of existing and funded reuse projects is projected to reach 34 mgd by 2020.

The District’s reuse targets were formulated in the late 90s. Activity is under way to reevaluate and update
these targets, if needed.

The TECO Southwest Polk Power Station Reclaimed Water Interconnects to the City of Lakeland, Polk
County and Mulberry is approximately 95 percent complete. The Lakeland portion of the project is
scheduled to come online in 2015 and the entire project should be completed by 2017. Projected benefit
would be 2.14 mgd in 2015, 5.70 mgd in 2017, 11.70 mgd in 2025 and 17.70 in 2035.

Finally, the District is working to maximize reclaimed interconnects. As of FY 2014, 7 wastewater
treatment plants of 40 in the Heartland have interconnected reuse systems.

**Priority: Improve Ridge Lakes, Winter Haven Chain of Lakes and
Peace Creek Canal**

*Objective: Implement water quality improvement projects in each priority water
body to move closer to the established water quality standards*

As part of the Lake Wales Ridge Management Plan, assessments were performed for 105 lakes in Polk and
Highlands County in 2003 for purposes of developing a management strategy. The assessments identified
26 lakes as threatened by the untreated stormwater and direct discharge. Of these 26 lakes, 11 lakes, for
cost and workflow management reasons, were selected for additional analysis and implementation
activity. Progress to date on this effort includes five lakes with constructed projects, four lakes with
ongoing or soon to be initiated construction and two lakes where restoration activity is on hold.

Lake Tulane is one of two projects completed in FY 2014, in partnership with the City of Avon Park. This
project involved retrofitting outfalls with catchment baskets to collect debris and construction of grassed
swales, inlets and weirs to treat stormwater before entering Lake Tulane. This will reduce the load of
pollutants and nutrients entering the lake.

The Lake Clinch project, another effort completed in FY 2014, will improve the water quality of the lake by
providing treatment for stormwater runoff from the Wall Street outfall, where none currently exists. The
BMP will reduce total suspended solids, total phosphorous, and the volume of runoff to the lake from this
outfall. As no stormwater treatment is currently provided, this project will have significant positive impact
on the lake’s water quality. The City of Frostproof partnered with the District on this project.

Projects for lakes Clay and Menzie were completed in earlier years. These projects provided stormwater
treatment systems in areas where none existed previously. Both projects involved local government
funding partnerships. A Lake Marie project was completed by the Town of Dundee and FDOT in 2010.

Construction is under way on Lake Isis and Lake Verona. Construction activity will be initiated for Lake
McCoy and June-in-Winter in 2015.

The District continues to partner with the City of Winter Haven to implement projects to improve water
quality in the Winter Haven Chain of Lakes. Most of downtown Winter Haven is located within the
Northern and Southern Chain of Lakes watersheds, which are Surface Water Improvement and
Management (SWIM) priority water bodies. Hydrologic changes to the lakes and the high degree of
urbanization have increased nutrient loading to the lakes and degraded water quality. More than 40
BMPs, including the addition of rain gardens, improved swales, small isolated wetlands and other passive
treatment methods within the downtown area of the City of Winter Haven and the outlying
neighborhoods have been installed.
**Objective: Reduce nitrogen load from Lake Hancock into Charlotte Harbor via the Peace River by 27 percent through the Lake Hancock Wetland Treatment System**

In FY 2014, the District completed the construction and plantings for the Lake Hancock Wetland Treatment System, which is designed to reduce nitrogen loading in the water discharging from Lake Hancock through Saddle Creek to the Peace River. Nitrogen has been identified as the primary target in restoring water quality to the Peace River and preventing degradation of Charlotte Harbor. Initially, the project is being managed to promote growth and recruitment of wetland vegetation. Once a dense stand of wetland plants is established, the system will be operated to optimize nutrient removal. It is expected that the system will be operational in 2015.

**Objective: Complete Surface Water Resource Assessments (SWRA) for the Peace Creek Canal Watershed and develop operational levels for the Winter Haven Chain of Lakes structures to optimize natural systems and water quality improvement while maintaining flood protection services**

The SWRA for the Peace Creek Canal Watershed has been completed. The objectives of this assessment were to evaluate 20 parcels of land in the Peace Creek and upper Peace watersheds with respect to their potential for increasing floodplain storage, improving water quality, and enhancing ecosystem functions. The project involved the assessment, evaluation and preliminary ranking of the sites for potential acquisition. Several sites were ranked, however, acquisition did not occur.

The operational guidelines for the North Winter Haven Chain of Lakes structures were established and approved in January 2013. Generally, the guidelines state the structures will be operated to maintain a standard operating range, accounting for normal fluctuation for each lake. The structures may also be operated in response to a rainfall event or to create storage in advance of a tropical storm or hurricane.

In FY 2014, the consultant completed its draft optimization report. The purpose of this optimization report is to better understand the hydrologic and hydraulic characteristics of the Lakes system and to provide recommendations to optimize lake levels, evaluate structural operational protocols and develop designs of revised structures. This draft report summarized the findings and recommendations of the lake level optimization and includes an evaluation of additional control structure impacts.

**Southern Region Priorities and Objectives**

**Priority: Implement Southern Water Use Caution Area (SWUCA) Recovery Strategy**

**Objective: Achieve a net reduction of up to 50 million gallons daily (mgd) of groundwater use in SWUCA by 2025 with 40 mgd of offsets achieved through agricultural reductions via the Facilitating Agricultural Resource Management Systems (FARMS) Program**

Please see the Tampa Bay Regional Priorities and Objectives for a discussion on this objective.

**Objective: Recover the SWUCA saltwater intrusion minimum aquifer level of 13.1 ft NGVD for the Upper Floridan aquifer to slow the rate of saltwater intrusion in the Most Impacted Area (MIA)**

Please see the Tampa Bay Regional Priorities and Objectives for a discussion on this objective.
Objective: Ensure a sustainable water supply

The District utilizes per capita to help ensure a sustainable water supply in the future and to measure progress in measuring conservation. Specifically, the goal is to achieve and maintain 150 gallons per day compliance with all public supply utilities and a goal to reduce the 2011 Southern Region average compliance per capita by five percent by 2020. The District has been making incremental progress towards meeting these per capita objectives in the Southern Region, which already has the lowest per capita in the District. Per capita numbers have declined by 2.3 percent since the beginning of the planning period.

The progress in per capita can be attributed to water savings that have been achieved in the planning region through a combination of regulatory, economic, incentive-based and outreach measures. Since the Strategic Plan was published, the 2011 per capita numbers have been adjusted to reflect updated Public Supply Annual Report (PSAR) information. The numbers above reflect this updated data. The Southern Region currently has only one utility above 150 gpcd

The District continues to explore ASR options and partnership opportunities in the SWUCA. Both surface water and reclaimed water sources exist in sufficient quantity for recharge and ASR to provide recovery benefit. Preliminary stakeholder feedback on this issue indicates that utilities will be looking for ways to provide a benefit to their customers.

The District is working to develop AWS in the SWUCA. AWS is an important tool in meeting SWUCA recovery goals, specifically to offset projected increases in public supply groundwater demand. The SWUCA Recovery Strategy identified more than 50 mgd of potential alternative water supply projects.

One such alternative water supply option involves Flatford Swamp in eastern Manatee County. Hydrologic alterations and excess water have resulted in tree mortality within Flatford Swamp. The District has completed a feasibility study examining alternatives that would transfer excess water from Flatford Swamp to Mosaic’s Wingate Mine, improving the health of Flatford Swamp and offsetting groundwater use in the mine. The District continues to work with Mosaic to potentially partner on this.

Additionally, the Peace River Manasota Regional Water Supply Authority (PRMRWSA) has completed construction of three phases of the Regional Integrated Loop System project. This is a series of transmission pipelines developed to transfer and deliver water from existing and future alternative supplies to demand centers. This will provide PRMRWSA’s customers with maximum flexibility to address changing needs and emerging circumstances. Four future phases are planned over the next 20 years, with preliminary design on the Phase 3B loop beginning in 2017.

Priority: Improve Water Bodies

Objective: Implement water quality improvement projects in each priority water body to move closer to the established water quality standards and seagrass targets

Several water quality improvement projects related to this objective were complete or substantially complete in FY 2014.

Coral Creek Ecosystem Restoration: This project helps to improve Charlotte Harbor water quality. The District completed phase one of this project in FY 2014. Phase one consists of hydrologic and habitat restoration of degraded and impacted wetlands on approximately 250 acres. It included restoration and enhancement of historic and man-made creek channels, removal of invasive vegetation and construction of stormwater features to improve Charlotte Harbor water quality. In addition, the enhanced filter marsh and wetland system provides 7.97 acres of treatment area, 4.27 acres of vegetated wetlands and 3.7 acres of retention.

3 Since the publication of the Strategic Plan, the 2011 per capita numbers have been adjusted to reflect updated Public Supply Annual Report (PSAR) information
Red Bug Slough Restoration: This project is intended to enhance the water quality of Sarasota Bay. The project, cooperatively funded with Sarasota County, is substantially complete as of the end of FY 2014. The project was identified in the 2002 Sarasota Bay SWIM Plan to improve the quality of stormwater runoff to Sarasota Bay. Project components include partially restoring a historical wetland, enhancing native plant communities and improving the water quality entering Phillippi Creek and subsequently Sarasota Bay. The project enhanced 2,340 linear feet of shoreline and removed non-native plants from approximately 3.42 acres of wetlands. The County is completing a water quality monitoring plan to determine the specific water quality improvements.

Phillippi Creek: This project helps to improve Sarasota Bay. It is cooperatively funded with Sarasota County and was completed in FY 2014. Phillippi Creek is a primary tributary to Sarasota Bay. The goal of this project is to improve water quality and increase natural habitat along Phillippi Creek through stream bank resloping, removal of exotic vegetation, incorporating low impact design (LIDs), creating wetland treatment systems, reducing nutrients through sediment sumps and the installation of weirs to enhance the wetland treatment process. The project enhanced and restored 1,780 linear feet of shoreline. Seagrass is an indicator for overall water quality. The following tables depict recent changes for Charlotte Harbor and Sarasota Bay, from 2010 to 2012 (latest data available). The upcoming seagrass mapping is for 2015. As shown on the following page, Charlotte Harbor shows a 4.4 percent increase in seagrass acreage from 2010-2012.

Seagrass Coverage Tracking, Charlotte Harbor (2006-2012)

<table>
<thead>
<tr>
<th>Charlotte Harbor Bay Segments</th>
<th>2006</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Charlotte Harbor North</td>
<td>3,358</td>
<td>3,489</td>
</tr>
<tr>
<td>Eastern Charlotte Harbor South</td>
<td>1,461</td>
<td>1,372</td>
</tr>
<tr>
<td>Myakka River</td>
<td>340</td>
<td>254</td>
</tr>
<tr>
<td>Peace River</td>
<td>346</td>
<td>382</td>
</tr>
<tr>
<td>Placida Harbor</td>
<td>3,877</td>
<td>4,640</td>
</tr>
<tr>
<td>Southern Charlotte Harbor</td>
<td>2,270</td>
<td>2,358</td>
</tr>
<tr>
<td>Cape Haze</td>
<td>4,739</td>
<td>4,385</td>
</tr>
<tr>
<td>West Charlotte Harbor</td>
<td>1,975</td>
<td>2,030</td>
</tr>
<tr>
<td>Charlotte Harbor Total:</td>
<td>18,364</td>
<td>18,911</td>
</tr>
</tbody>
</table>

Source: District SWIM staff, 2012

In Sarasota Bay, the seagrass acreage remains stable. The slight fluctuation is likely a result of natural variability and seasonal changes.

Seagrass Coverage Tracking, Sarasota Bay (2006-2012)

<table>
<thead>
<tr>
<th>Sarasota Bay Segments</th>
<th>2006</th>
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</thead>
<tbody>
<tr>
<td>Blackburn Bay</td>
<td>424</td>
<td>398</td>
</tr>
<tr>
<td>Little Sarasota Bay</td>
<td>640</td>
<td>903</td>
</tr>
<tr>
<td>Roberts Bay</td>
<td>324</td>
<td>305</td>
</tr>
<tr>
<td>Upper Sarasota Bay N</td>
<td>5,829</td>
<td>7,930</td>
</tr>
<tr>
<td>Upper Sarasota Bay S</td>
<td>2,637</td>
<td>3,051</td>
</tr>
<tr>
<td>Sarasota Bay Total:</td>
<td>9,855</td>
<td>12,587</td>
</tr>
</tbody>
</table>

Source: District SWIM staff, 2012
Objective: Reduce nitrogen load from Lake Hancock into Charlotte Harbor via the Peace River by 27 percent through the Lake Hancock Wetland Treatment System

Please see the Heartland Regional Priorities and Objectives for a discussion on this objective.

Objective: Develop and update plans and implement natural system projects that restore critical shoreline, coastal upland and intertidal habitats

The District’s SWIM program continues restoration activity for Charlotte Harbor and Sarasota Bay. For FY 2014, the following tables show 12.30 restored acres for Sarasota Bay, and 1250 restored acres for Charlotte Harbor. These restored lands included wetland, upland and submerged habitats (see table). FY 2014 was the first time the District tracked restored acres by habitat type. This activity will continue into the future.

| FY 2014 Restoration, Sarasota Bay
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Habitat Type</td>
</tr>
<tr>
<td>Estuarine Wetlands</td>
</tr>
<tr>
<td>Freshwater Wetlands</td>
</tr>
<tr>
<td>Coastal Uplands</td>
</tr>
<tr>
<td>Submerged Habitat</td>
</tr>
<tr>
<td>Total Acres</td>
</tr>
<tr>
<td>Shoreline (linear feet)</td>
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Source: District SWIM staff, 2014

| FY 2014 Restoration, Charlotte Harbor
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<td>Total Acres</td>
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<tr>
<td>Shoreline (linear feet)</td>
</tr>
</tbody>
</table>

Source: District SWIM staff, 2014

Objective: Complete Surface Water Resource Assessments (SWRA) for 45 percent of the Southern region to assess the water quality of surface waters and identify potential best management practices (BMPs) needed to achieve standards

SWRA is a component of the larger Watershed Management Program (WMP), an effort evaluating a watershed’s capacity to protect, enhance and restore water quality and natural systems and achieve flood protection. The SWRA models potential pollutant loading based on rainfall, land use and pollutant types. The District is making progress towards meeting the SWRA target for the Southern region. Currently, the District has completed SWRAs on 27.8 percent of the Southern Region, with the potential for future SWRAs on an additional 19.4 percent of the Southern region.
The District is also actively engaged in WMPs that identify BMPs. As part of the Sarasota – Coastal Fringe Areas Project WMP, which examines Little Sarasota Bay, Lemon Bay, Roberts Bay and Sarasota Bay, the District is working on finalizing a BMP alternative analysis. It is anticipated that this alternative analysis will be complete at the end of 2014.

In FY 2014, the BMP analysis for the Big Slough Watershed Management Plan was completed. The main recommended BMP was West Price Boulevard, such that it would not flood during a 100-year storm event. As an alternative to structural BMPs, the City was advised to purchase the small number of structures within the 100-year floodplain. This may be more cost effective than creation of structural BMPs.

**Objective: Assist local governments with implementation of BMPs to achieve water quality standards**

The District assists local governments with implementation of water quality and water quantity BMPs through its cooperative funding program. Implementation of BMPs typically includes design, development of construction documents, construction permitting, land acquisition, bidding and contractor selection, construction of BMPs and construction engineering and inspection.

Currently, the District is working with Charlotte County to identify stormwater improvements and flood protection BMPs for the Charlotte Harbor Redevelopment Area Watershed, an area developed prior to regulations. Several BMPs have already been implemented, with construction of the final BMPs anticipated at the end of 2014.