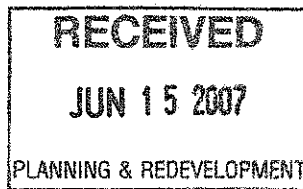


**BOARD OF COUNTY  
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June 13, 2007

Ms. Marie Dauphinais  
Interim Director  
Planning Department  
City of Oldsmar  
100 State Street West  
Oldsmar, FL 34677-3655

Subject: 10 Year Water Supply Facilities Work Plan

Dear Marie:

The City of Oldsmar is included within the Pinellas County Water Demand Planning Area (PCWDPA) as a retail customer of Pinellas County Utilities. By this letter, Pinellas County is providing the City with continued assurance that Pinellas County Utilities continues to plan for, and provides, the facilities necessary to transmit and distribute potable water within the Pinellas County Water Demand Planning Area. For the City's purpose, this means that Pinellas County Utilities actively plans for, and can provide the facilities, to meet its retail water obligations to the City.

Pinellas County Utilities receives its potable water supply from Tampa Bay Water, Inc., the regional water supply utility. Tampa Bay Water is under agreement with its member governments to supply potable water to meet all member government water demands. Attached to this letter is correspondence from Tampa Bay Water evidencing this commitment as well as evidencing coordination of their Master Water Plan with the Regional Water Supply Plan prepared by the Southwest Florida Water Management District. As you know, Section 163.3177, F.S., requires assurance that water suppliers coordinate their water supply planning with Regional Water Supply Plans, where appropriate. Pinellas County's primary means of relating to the Regional Water Supply Plan is through our reclaimed water and conservation programs, which are reflected in the updated 10 Year Water Supply Facilities Work Plan.

Also attached to this letter is the recently updated 10 Year Water Supply Facilities Work Plan prepared by Pinellas County Utilities which reflects the long term funding commitment to the facilities required to support the potable water needs of Pinellas County Utilities' retail and wholesale customers.

In addition to its capital planning program, Pinellas County conducts its conservation program throughout its entire Water Demand Planning Area. This program includes such things as eligibility for incentive programs (e.g., Alternative Water Sources Rebate Program, Water

PLEASE ADDRESS REPLY TO:  
600 Cleveland Street  
Suite 750  
Clearwater, Florida 33755  
Phone: (727) 464-8200  
Fax: (727) 464-8201  
Website: [www.pinellascounty.org](http://www.pinellascounty.org)



Saving Kits, Indoor Plumbing Retrofit kits, etc.) as well as education programs and materials in the schools, at special events, at hotels and motels, as well as general conservation materials for distribution at municipal buildings and events. The commitment and resultant success of Pinellas County Utilities' conservation programs is reflected in the fact that Pinellas County Utilities' customers continue to have one of the lowest per capita water consumption rates in the State. Included in this mailing is an "Overview of Pinellas County Utilities Water Supply Programs, Challenges and Long-Range Facility Planning," which is an excerpt of some of the information that will be included in the data and analysis portion of Pinellas County's the updated Potable Water Element.

Please contact Liz Freeman or Robert Feigel of my staff, at 464-8200, if you need additional information, or have any questions. We will also be posting information related to water supply planning, as well as draft updates to the Water and Sewer Elements of the Pinellas County Comprehensive Plan on our website shortly at [www.pinellascounty.org/Plan](http://www.pinellascounty.org/Plan).

Sincerely,



Brian K. Smith, Director of Planning  
Pinellas County Planning Department

cc: Pete Yauch, Assistant County Administrator  
Pick Talley, Director of Utilities  
Roy Mazur, SWFWMD  
Paula Dye, Tampa Bay Water

Attachments:

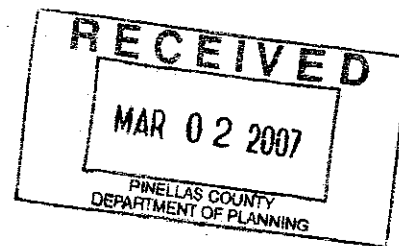
Correspondence from Tampa Bay Water  
10 Year Water Supply Facilities Work Plan  
Overview of Pinellas County Utilities Water Supply Programs, Challenges and Long-Range Facility Planning

Board of Directors: Susan Tatvala, Mark Sharpe, Rick Baker, Ronnie Duncan,  
Al Higginbotham, Ann Hildebrand, Pam Iorio, Ted Schrader, Dan Tipton

General Manager: Jerry L. Maxwell

General Counsel: Richard A. Lotspeich

2575 Enterprise Road, Clearwater, FL 33763-1102  
Phone: 727.796.2355 / Fax: 727.791.2388 / SunCom: 513.7010  
www.tampabaywater.org



March 1, 2007

Mr. Brian Smith, Director  
Pinellas County Planning Department  
315 Court Street  
Clearwater, FL 34616

**Re: Special District Public Facilities Report – Tampa Bay Water**

Dear Mr. Smith: *Brian*

Enclosed is Tampa Bay Water's Special District Public Facilities Report for March 1, 2007. The Report covers Water Year 2006. Tampa Bay Water is officially submitting this report to the chief planning officials of the Member Governments of Hillsborough, Pasco, and Pinellas counties, and the cities of St. Petersburg, Tampa, and New Port Richey in order to assist them in comprehensive planning efforts. Copies of the report are also being submitted to the principal water system officials of each of Tampa Bay Water's Member Governments, and to the Florida Department of Community Affairs.


This letter and the information contained in the Special District Public Facilities Report is also being provided to assist the Member Governments in the development of your Water Supply Facilities Workplans and can be submitted to the Florida Department of Community Affairs to assist in meeting the requirements of your Workplan.

Tampa Bay Water is a regional water supply authority that provides wholesale water to the Member Governments. Tampa Bay Water is governed by two agreements with the Members, the Amended and Restated Interlocal Agreement (Interlocal Agreement) and the Master Water Supply Contract, which were established in 1998.

Tampa Bay Water has an unequivocal obligation to provide for the wholesale water supply needs of the Member Governments. Tampa Bay Water's Long-term Water Supply Plan and Master Water Plan contain sufficient water supply projects to meet the Member Governments' water needs over the 20-year planning horizon. In addition, the Tampa Bay Water Board of Directors approved System Configuration II of the Master Water Plan in October 2006. System Configuration II is currently in the final design phase, with construction scheduled for completion by 2011. System Configuration II contains sufficient water supply capacity to meet the Member Governments' water supply needs through 2017.

If you have any questions or need any further assistance regarding the information contained in the report, please call me at (727) 796-2355.

Sincerely,

A handwritten signature in cursive script that reads "Paula Dye". The signature is written in black ink and is positioned above the typed name.

Paula Dye, AICP  
Chief Environmental Planner

Enclosure

2575 Enterprise Road, Clearwater, FL 33763-1102  
Phone: 727.796.2355 / Fax: 727.791.2340  
[www.tampabaywater.org](http://www.tampabaywater.org)



**Tampa Bay Water**

**Special District Public Facilities Report**

**March 1, 2007**

**Tampa Bay Water  
Special District Public Facilities Report  
March 1, 2007**

*Pursuant to Subsection 189.415, Florida Statutes*

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**TAMPA BAY WATER  
SPECIAL DISTRICT PUBLIC FACILITIES REPORT  
PURSUANT TO SUBSECTION 189.415, FLORIDA STATUTES**

**March 1, 2007**

Beginning March 1, 1991, pursuant to state law enacted in the 1989 legislative session, Chapter 89-169, Laws of Florida (Chapter 189, F.S.), special districts such as Tampa Bay Water are required to file special district public facilities reports with each local government in which the special districts are located. The purpose of the report is to provide local governments with information that may be pertinent to the development and updating of the local government's comprehensive plans.

**TAMPA BAY WATER**

**HISTORY**

Tampa Bay Water was first established as the West Coast Regional Water Supply Authority on October 25, 1974 as a result of state enabling legislation (74-114, Laws of Florida) and a five-party agreement among Hillsborough, Pinellas, and Pasco counties and the cities of St. Petersburg and Tampa. It was the first such entity organized under the provisions of Chapter 373, Florida Statutes – Water Resources. The City of New Port Richey joined Tampa Bay Water in 1984. In 1998, Tampa Bay Water was formed by the six Member Governments and is governed by the Amended and Restated Interlocal Agreement and Master Water Supply Contract.

**THE MASTER WATER PLAN AND LONG-TERM WATER SUPPLY PLAN**

Tampa Bay Water's Board of Directors approved the original Master Water Plan in December 1995. The Tampa Bay Water Board of Directors approves projects for implementation that are economically feasible, technically sound, and environmentally sound. In November 1998, the Board approved System Configuration I of the Master Water Plan for implementation. Several of these projects, including the Enhanced Surface Water System, the Brandon Urban Dispersed Wells, and the C.W. Bill Young Regional Reservoir, have been completed.

The Master Water Plan also includes public information and involvement along with an aggressive demand management component to reduce anticipated demand across the region. Tampa Bay Water worked closely with its Member Governments to ensure that projected average annual demand was reduced by 10 mgd by 2000, and that a total demand reduction of 18 mgd was achieved by 2005. The current Master Water Plan goal is to achieve a total reduction of 31 mgd by 2010.

In 2001-2003, through the Long-term Water Supply planning process, a comprehensive list of 300 projects was developed based on public input, and with the advice of a Planning

Advisory Committee and Tampa Bay Water's Technical Advisory Committee. The Long-Term Water Supply Plan also considered every project in the Southwest Florida Water Management District's Regional Water Supply Plan (RWSP). In addition, the demand projections in the RWSP and Tampa Bay Water's demand projections were evaluated and found to be consistent with each other. Tampa Bay Water also participated in the development of the District's 2006 RWSP. The District's demand projections were found to be consistent with those of Tampa Bay Water, and the water supply projects within the RWSP are also compatible with those of Tampa Bay Water's Plan. The project outlined below which has been chosen by Tampa Bay Water for implementation is one of the alternative water supply projects approved in the RWSP.

As a part of the planning process, the Tampa Bay Water Board studied three projects in depth between 2003 and 2006. This effort was completed in October 2006 when the Tampa Bay Water Board chose Downstream Enhancements Phases A/B for System Configuration II of the Master Water Plan. Downstream Enhancements will build on Tampa Bay Water's existing Enhanced Surface Water System to provide an environmentally sound and economically feasible supply. Studies for the project examined how to more fully use potential surface water withdrawals, while protecting the low and high flow regimes of local river systems and improving conditions in Tampa Bay, an estuary of national significance. Those examinations followed a recommendation by the Tampa Bay Estuary Program and the Agency on Bay Management staff to consider the concept of using additional higher flows on the river systems for future supply.

By modifying Tampa Bay Water's existing water use permit at the Hillsborough River and Tampa Bypass Canal, it is possible to capture additional mid-range (higher) flows to meet the region's water needs through 2017. The permit modification does not affect the existing or proposed minimum flow on the Hillsborough River and does not impact the City of Tampa's 82 mgd permitted self-supply from the Hillsborough River. No water will be taken by Tampa Bay Water until 100 cubic feet per second (cfs) of river water is flowing over the Tampa Dam—that's 10 times the current minimum flow and four to five times the potential future minimum flow.

Phases A/B also involve expanding the delivery capacity of Tampa Bay Water's Regional Surface Water Treatment Plant to 99 mgd, adding pumping and boosting capacity to existing infrastructure to enable the higher flows to be captured, and increasing use of Tampa Bay Water's existing C.W. Bill Young Regional Reservoir. The proposed modification to the water use permit would allow a median use of an additional 8.3 million gallons per day of higher flows from the Hillsborough River and Tampa Bypass Canal. The pumping capacity expansion needed to use this supply has an added benefit of allowing the C.W. Bill Young Regional Reservoir to be used more often resulting in a benefit to regional water supply overall of 25 mgd. This will meet the Member Government's water supply needs through 2017.

The Board of Directors finalized the first Future Need Analysis (FNA) in September 2003. This detailed analysis helps determine the capacity and timing of future supplies needed by comparing existing supply sources and their expected future production reliability, and



comparing that to probabilistic-based future water supply demands. The purpose of the FNA is to use the probabilistic demand forecast, determine the timing and quantity of supply needs, and to optimally schedule construction and completion of new supply projects to limit future rate impacts, while assuring that demands are met. Tampa Bay Water updates major components of the FNA on an annual basis and uses this tool to confirm the schedule of its water supply development program. The results of the latest update indicate that additional supplies will need to be developed by 2011 to meet the requirement for new supply.

To meet this need and schedule, the Board approved the Downstream Enhancements Project Phases A/B in October 2006 for System Configuration II so that it could be on-line by 2011. Other projects that were under consideration for System Configuration II were deferred back to the Master Water Plan and Long-Term planning process. These projects are available for consideration to meet the long-term (20-year) needs of the Member Governments. An update to the Long-Term Water Supply Plan and the Master Water Plan is conducted every five years. The current update is being conducted now and is scheduled to be completed in the Fall of 2008. The current outline of the Master Water Plan is included in the list below.

In December 2006, the Tampa Bay Water Board approved the Cooperative Funding Agreement for System Configuration II (including Downstream Enhancements Phases A/B and associated System Interconnects). In February, 2007 the Southwest Florida Water Management Governing Board unanimously approved the agreement. Additionally, all of the six Basin Boards in the region including Alafia River, Coastal Rivers, Hillsborough River, Northwest Hillsborough, Pinellas-Anclote River and Withlacoochee River approved the agreement.

With this approval, the vision of the 2004 joint-meeting between the District Governing Board and the Tampa Bay Water Board to pursue the next alternative water supply source will be implemented. The magnitude of the financial commitment necessary to undertake alternative water supply means that the District's commitment of the ad valorem funds it raises in the tri-county area for alternative water supply purposes is both necessary and hugely beneficial. In the Agreement, the District and Basin Boards will fund 50% of eligible project costs up to \$116 million. The approval of the Cooperative Funding Agreement shows that a real difference can be made across the state in how potable water supply is undertaken when the water management districts and regional water supply authorities are working together.

**TAMPA BAY WATER – MASTER WATER PLAN PROJECTS  
 CAPACITIES – MGD**

<u>System Configuration I Projects</u>	<u>Capacity</u>
Brandon Urban Dispersed Wells	6
Tampa Bay Seawater Desalination	25
Enhanced Surface Water System (including Tampa Bypass Canal/Hillsborough River High Water, Alafia River, South-Central Intertie, C.W. Bill Young Regional Reservoir, Regional Water Treatment Plant)	60-66
North-Central Intertie	
Brandon/South-Central Connection	

<u>System Configuration II Project</u>	<u>Estimated Quantity</u>
Downstream Enhancements Phases A/B	25 (median-estimated yield)

<u>Deferred Projects</u>	<u>Estimated Quantity</u>
Cone Ranch Wellfield	8-10*
Tampa Bay Seawater Desalination II	10*
Brandon Wells II	2-6*
Cypress Bridge II	4 (max)*
Gulf Coast Desalination	9-25*
Starkey Ecosystem Enhancement	2+*
Mid-Pinellas Brackish Water Desalination	4.4-5*
Temple Terrace Interconnect	1.5*
Mosaic Reclaimed Exchange	1*
Crystals International Water Supply	3.5-5.5*
Downstream Enhancements Phases C and D	TBD*

<u>Developmental Small Project Opportunity</u>	<u>Estimated Quantity</u>
Eagles Wells II	0.3*

<u>Potential Emergency Supply</u>	<u>Estimated Quantity</u>
Morris Bridge Sink	Emergency Use Only

\*Estimate of capacity. Permit applications would be based on optimized capacity within the limits of sound environmental practice.

**TABLE I  
EXISTING WATER SUPPLY FACILITIES**

Facility	Current Permitted Capacity		Current Water Use Permit	Location
	Ann. Avg. (mgd)			
Cosme-Odesa Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	Northwest Hillsborough County, along Racetrack Road and Gunn Highway. 20 dispersed wells.
Cross Bar Ranch Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	North-Central Pasco County, east of US 41, north of SR 52 and south of CR 578. 17 dispersed wells.
Cypress Bridge Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	South-Central Pasco County, Wesley Chapel Area, and North-Central Hillsborough County in the vicinity of I-75 and CR 581. 10 dispersed wells.
Cypress Creek Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	Central Pasco County, east of US 41 and SR 583, south of SR 52. 13 dispersed wells, pump station site and storage facilities.
Cypress Creek Pump Station and Water Treatment Plant	110		N/A	Central Pasco County, east of US 41 and SR 583, south of SR 52.
Eldridge-Wilde Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	Northeast corner of Pinellas County and northwest corner of Hillsborough County at the Pasco County line. 34 dispersed wells.
Lake Bridge Water Treatment Plant	6.9		N/A	North-Central Hillsborough County at Hillsborough-Pasco County Line.
Morris Bridge Booster Pump Station	30		N/A	East of I-75 and Bruce B. Downs Boulevard.

\*As of January 1, 2003, the eleven Consolidated Permit Wellfields Water Use Permit compliance is assessed on a 12-month running average basis for all facilities of 121 mgd, with compliance assessed on the first day of each calendar month following December 31, 2003. Tampa Bay Water's Optimized Regional Operations Plan (OROP) controls pumpage based on cutback restrictions and current environmental conditions.

**TABLE I (Cont.)  
EXISTING WATER SUPPLY FACILITIES**

Facility	Current Permitted Capacity		Current Water Use Permit	Location
	Ann. Avg. (mgd)			
Morris Bridge Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	North-Central Hillsborough County. 20 dispersed wells.
North Pasco Regional Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	West-Central Pasco County, immediately south of SR 52 and east of CR 587. 2 dispersed wells.
Northwest Hillsborough Regional Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	Northwest Hillsborough County. 7 dispersed wells; and 2 subdivision wells (Crystal Lake Manor).
Section 21 Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	Northwest Hillsborough County, in Lake Park at the southwest corner of the intersection of Dale Mabry Highway and Van Dyke Road. 5 dispersed wells.
South-Central Hillsborough Regional Wellfield	24.10		WUP 204352.06 issued November 20, 1996. Expires November 20, 2006. Application for renewal filed on June 19, 2006 - permit issuance expected in April 2007 for existing quantities. Permittee - Tampa Bay Water	Southeast Hillsborough County, in the vicinity of Lithia-Pinecrest, Keyville and Nichols Roads. 17 dispersed wells.
South Pasco Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	South-Central Pasco County. 8 dispersed wells.
Starkey Wellfield	Consolidated Permit Wellfield*		Consolidated Water Use Permit Issued December 15, 1998. Expires December 31, 2010. Permittee - Tampa Bay Water	West Pasco County, between SR 54 and SR 587. 14 dispersed wells.
Tampa Bypass Canal @ Harney Road Pumping Station	20.00		WUP 206675.05 issued June 26, 2001. Expires June 26, 2011.	Central Hillsborough County. Tampa Bypass Canal at Harney Road.

\*As of January 1, 2003, the eleven Consolidated Permit Wellfields Water Use Permit compliance is assessed on a 12-month running average basis for all facilities of 121 mgd, with compliance assessed on the first day of each calendar month following December 31, 2003. Tampa Bay Water's Optimized Regional Operations Plan (OROP) controls pumpage based on cutback restrictions and current environmental conditions.

**TABLE I (Cont.)  
EXISTING WATER SUPPLY FACILITIES**

Facility	Current Permitted Capacity		Current Water Use Permit	Location
	Ann. Avg. (mgd)			
Tampa Bypass Canal Water Supply	Up to 259 mgd (max) withdrawal capacity		WUP 20011796.00. Expires December 31, 2010. Modification submitted December 2006 for the Downstream Enhancements Project Phases A/B.	Tampa Bypass Canal at Martin Luther King Boulevard in Hillsborough County.
Tampa/Hillsborough Interconnect Pump Station	15.00		N/A	Northwest Hillsborough County, north Tampa area.
Tampa Bay Regional Water Treatment Facilities	66 mgd		N/A	Southeast corner of Broadway and U.S. 301 in Hillsborough County.
Alafia River Project	Up to 52 mgd (max) withdrawal capacity		WUP 20011794.00. Expires December 31, 2010.	Bell Shoals Road at the Alafia River in Hillsborough County.
Brandon Urban Dispersed Wells	6.00		WUP 2011732.01. Expires December 31, 2010.	South-Central Hillsborough County. 4 dispersed wells.
Tampa Bay Desalination	25.00		N/A	Apollo Beach area, Hillsborough County.
Eagles Wells	0.2		WUP 206312.03. Expires September 3, 2017.	Northwest Hillsborough County. 2 dispersed wells.
C.W. Bill Young Regional Reservoir	N/A		N/A	South Hillsborough County between CR 39 and Boyette Road.
Carrollwood Wells	0.82		WUP 20005886.003. Expires December 31, 2010. Permittee - Tampa Bay Water	Northwest Hillsborough County, east of Dale Mabry Highway, north of Gunn Highway.
Regional Connection to South-Central Hillsborough Service Area (Phase 1A) (Highview Booster Station)	5.0		N/A	South-Central Hillsborough County.

\*As of January 1, 2003, the eleven Consolidated Permit Wellfields Water Use Permit compliance is assessed on a 12-month running average basis for all facilities of 121 mgd, with compliance assessed on the first day of each calendar month following December 31, 2003. Tampa Bay Water's Optimized Regional Operations Plan (OROP) controls pumpage based on cutback restrictions and current environmental conditions.

TABLE II  
EXISTING PIPELINES

Facility	Size	Material*	Length	Location	Comments
84"/66" Transmission Main	84"	WSP	28,845'	The route follows the abandoned CSX railroad line corridor southwest from the Cypress Creek Wellfield in the Land O' Lakes area of Pasco County, crossing under SR 54, through the Trinity Communities development to Pinellas County. The Trinity line was rebuilt as 21,000' of 64" DIP in 1996/1997. 4,210' of 66" cement pipe plus replacement of 40,000' of interpace pipe have been completed. 28,845' of 84" PCCP was replaced with 84" WSP in February 2007.	These mains carry treated water from the Cypress Creek Water Treatment Plant in Pasco County to Central and West Pasco County distribution systems, Pinellas County's transmission system, and the St. Petersburg/South Pasco Wellfield Connector. Water comes from Cypress Creek, Cross Bar Ranch, Morris Bridge, Cypress Bridge Wellfields, and the Regional Surface Water and Groundwater Treatment plants. The original construction was completed in 1975.
	84"	PCCP	36,385'		
	72"	PCCP	492'		
	66"	PCCP	4,210'		
	64"	DIP	21,000'		
	60"	PCCP	460'		
42"	PCCP	11,458'			
Cross Bar Ranch Transmission Main & Wellfield Collection Lines	60"	PCCP	50,096'	The transmission main route generally follows a southeasterly direction, carrying raw water from the Cross Bar Ranch Wellfield, crossing under SR 52, and then connecting to the Cypress Creek Water Treatment Plant. The wellfield collection system contains 16" to 36" pipe connectors.	This main carries raw water from the Cross Bar Ranch Wellfield to the Cypress Creek Water Treatment Plant. Both of these facilities are in Pasco County. The line was constructed in 1980.
	36"	PCCP	1,582'		
	30"	PCCP	2,620'		
	24"	PCCP	1,185'		
	16"	PCCP	20,602'		
Cypress Bridge Transmission Main and Collection Mains	66"	WSP	30,000'	The transmission main (66" & 64") pipeline route travels southeasterly from the Cypress Bridge Wellfield to the top of Tampa Airport, under I-75, then south to the Lake Bridge Water Treatment Plant. The collection mains collect raw water from the Cypress Bridge Wellfield for transmission.	These transmission mains connect the Cypress Bridge Wellfield to the Lake Bridge Water Treatment Plant in Hillsborough County and to the Cypress Creek Water Treatment Plant. The collection mains collect well water for treatment by the Lake Bridge Water Treatment Plant. Construction was completed in 1996.
	64"	DIP	23,000'		
	48"	DIP	24'		
	36"	DIP	11,945'		
	30"	DIP	3,381'		
	24"	DIP	750'		
	20"	DIP	1,760'		
	18"	DIP	30,808'		
	16"	DIP	4,900'		
Morris Bridge Transmission Main	64"	DIP	19,400'	The pipeline route generally travels along the western side of Trout Creek to the Cypress Bridge Wellfield.	The pipeline connects the Morris Bridge Booster Pump Station to the Cypress Bridge Transmission Main. This project interconnects the City of Tampa's Morris Bridge Water Treatment Plant and the Regional System.
North Pasco Wellfield Transmission Main	36"	DIP	17,800'	The route travels south from North Pasco Wellfield Phase I, along the Florida Power powerline corridor to the Starkey Wellfield.	These pipelines carry raw water from the North Pasco Wellfield to the Starkey Wellfield. Water is then delivered to New Port Richey's George Maytum Water Plant and Pasco County's Water Treatment Plant.
	16"	DIP	2,700'		

- \* PCCP Prestressed Cylindrical Concrete Pipe
- WSP Welded Steel Pipe
- DIP Ductile Iron Pipe
- RCP Reinforced Concrete Pipe
- CI Cast Iron

TABLE II (Cont.)  
EXISTING PIPELINES

Facility	Size	Material*	Length	Location	Comments
Keller Connector Transmission Main	64"	WSP	8,129'	The pipeline connects the 84"/66" Transmission Main at the Pinellas/Pasco County border and travels due south to Pinellas County's Keller Water Treatment Plant site.	The pipeline carries treated water from the Cypress Creek Water Treatment Plant in Pasco County to Pinellas County's distribution system.
Northwest Hillsborough Transmission Main	36" 30" 24" 16"	PCCP PCCP PCCP DIP	17,300' 10,700' 4,400' 13,052'	The pipeline route has two branches, both originating from the Northwest Hillsborough Regional Wellfield (NWHRW). The first travels northwesterly, roughly paralleling Gunn Highway (CR 587) from Anderson Road, south of Citrus Park to Race Track Road. The second branch travels easterly from Sheldon Road (CR 589) to Gunn Highway.	These mains carry raw water from the Northwest Hillsborough Regional Wellfield to St. Petersburg's Cosme-Odesa Water Treatment Plant and Hillsborough County's Northwest Hillsborough Potable Water Facility. Transmission main construction was completed in 1985.
South-Central Hillsborough Regional Wellfield Transmission Mains and Collection Mains	54" 48" 42" 36" 30" 24" 20" 16"	PCCP PCCP PCCP DIP DIP DIP PCCP DIP	31,000' 11,600' 1,350' 1,500' 2,500' 1,400' 4,700' 14,500'	The pipeline travels westerly from the Keyville area of southern Hillsborough County, south of SR 60, north of Lithia-Pinecrest Road to the Lithia Water Treatment Plant.	These mains carry raw water from the South-Central Hillsborough Regional Wellfield to the Lithia Water Treatment Plant.
Sheldon Road Transmission Main	30"	DIP	6,000'	The route travels westerly from NWH Well #2 to Hillsborough County's Northwest Hillsborough Potable Water Facility, west of Sheldon Road.	The transmission main carries raw water from the Northwest Hillsborough Regional Wellfield to the Northwest Hillsborough Potable Water Facility. Transmission main construction was completed in 1993.
Starkey Wellfield Transmission Main and Collection Mains	42" 36" 30" 24" 16" 12" 8"	PCCP DIP PCCP DIP DIP DIP DIP	26,548' 4,100' 6,000' 2,629' 21,655' 325' 575'	Collects water in the Starkey Wellfield and travels west from the Starkey Wellfield to Decubellis Rd.	The transmission main carries raw water from the Starkey Wellfield to Pasco County's Water Treatment Plant and New Port Richey's Water Treatment Plant.
Tampa Bypass Canal/Harney Transmission Main	42" 30"	DIP DIP	670' 6'	East to west along the south side of the Tampa Bypass Canal across Flood Control Structure #161.	These pipelines carry raw surface water from the Tampa Bypass Canal Pump Station across Flood Control Structure #161 into the Hillsborough River Reservoir. The line was completed in 1991.

\* PCCP Prestressed Cylindrical Concrete Pipe  
WSP Welded Steel Pipe  
DIP Ductile Iron Pipe  
RCP Reinforced Concrete Pipe  
CI Cast Iron

TABLE II (Cont.)  
EXISTING PIPELINES

Facility	Size	Material*	Length	Location	Comments
South Pasco Transmission Main	42"	RCP	59,580'	Travels south from the South Pasco Wellfield to the Lake Park Water Treatment Plant and the Cosme Water Treatment Plant.	Links the South Pasco Wellfield and 84"/66" Cypress Creek Transmission Main, then the Lake Park Water Treatment Plant and the Cosme Water Treatment Plant.
	36"	PCCP	4,200'		
	30"	PCCP	3,136'		
North-Central Hillsborough Intertie	84"	WSP	65,000'	The pipeline route travels south from Morris Bridge along the Tampa Bypass Canal levee, then through Sabal Park to the regional water treatment plants.	This transmission main conveys treated and blended surface water, groundwater, and desalinated seawater from the regional water treatment plants to the regional system near Morris Bridge.
South-Central Hillsborough Intertie	72"	WSP	67,330'	The pipeline route travels south from the Tampa Bay Regional Facilities site at U.S. 301/Broadway Ave. adjacent to Falkenburg Road, then west in the TECO easement to the Alafia River pump station located at Bell Shoals Road and the Alafia River in Hillsborough County.	This transmission main conveys excess raw water from the Tampa Bypass Canal and Hillsborough River sources to the C.W. Bill Young Regional Reservoir. It will also convey raw water from the Alafia River pump station and the C.W. Bill Young Regional Reservoir to the Tampa Bay Water Surface Water Treatment Plant (SWTP).
Tampa Bay Desalination Plant Pipeline	42"	DIP	74,000'	Located in Hillsborough County in a TECO easement from TECO's Big Bend Station to southeast corner of Broadway & US 301.	Transmission of product water.
Gunn Highway Well Collection Main	24"	PCCP	18,500'	The pipeline route travels south on Gunn Highway from north of Van Dyke Road to the Cosme-Odesa Wellfield.	This transmission main links dispersed wells in the Cosme-Odesa Wellfield to the main collector for the facility.
	20"	PCCP	1,300'		
	16"	PCCP	2,650'		
Cosme-Odesa Collection Mains	42"	PCCP	6,600'	Located within the Cosme-Odesa Wellfield Property.	These are the main collection transmission lines for the Cosme-Odesa Wellfield.
	36"	PCCP	6,600'		
Eldridge-Wilde Collection Mains	42"	RCP	10,650'	Located in Northeast Pinellas County.	The collection mains connect 58 wells in the Eldridge-Wilde Wellfield to Pinellas County's Ketter Water Treatment Plant. 33 wells in service.
	36"	RCP & DIP	3,050'		
	30"	RCP & DIP	6,405'		
	24"	RCP & DIP	2,830'		
	20"	CI & DIP	5,250'		
	16"	CI & DIP	8,330'		
	12"	CI & DIP	6,969'		
10"	CI & DIP	3,017'			
8"	CI & DIP	600'			

\* PCCP  
WSP  
DIP  
RCP  
CI  
Prestressed Cylindrical Concrete Pipe  
Welded Steel Pipe  
Ductile Iron Pipe  
Reinforced Concrete Pipe  
Cast Iron



TABLE II (Cont.)  
EXISTING PIPELINES

Facility	Size	Material*	Length	Location	Comments
Morris Bridge Wellfield Transmission Mains and Collection Mains	48"	PCCP	6,460'	Located in the Morris Bridge Wellfield.	The collection main links the Morris Bridge Wellfield to the Morris Bridge Booster station and the City of Tampa water treatment plant on Bruce B. Downs Blvd.
	36"	PCCP	12,431'		
	30"	PCCP	10,110'		
	24"	PCCP	4,410'		
	20"	DIP	2,150'		
	16"	DIP	8,860'		
Section 21 to Cosme- Odessa Wellfield Transmission Main	42"	PCCP	24,000'	This pipeline travels between the Section 21 Wellfield to the Cosme-Odessa Wellfield along Van Dyke Road.	This transmission main links the Section 21 Wellfield to the Cosme-Odessa Wellfield.
	36"	PCCP	5,280'		
Brandon Urban Dispersed Wells Transmission Main and Collection Mains	36"	DIP	28,000'	This pipeline begins near Miller and Durant Roads, traveling north on Durant, Lithia-Pinecrest and Kingsway. From Kingsway, it heads west along Wheeler and Broadway, then south along I-75, then west on Columbus to the regional treatment plant.	These raw water transmission mains connect five dispersed wells in the Brandon area to the Tampa Bay Water Regional Facilities site.
	30"	DIP	30,000'		
	16"	DIP	600'		
	12"	DIP	5,600'		
	10"	DIP	1,350'		
	8"	DIP	6,000'		
Cypress Creek Wellfield Collection Mains	48"	PCCP	7,119'	Located within the Cypress Creek Wellfield.	These mains collect raw water within the Cypress Creek Wellfield.
	42"	PCCP	7,203'		
	36"	PCCP	4,606'		
	30"	PCCP	4,384'		
	24"	PCCP	4,523'		
	16"	PCCP	1,418'		
South Pasco Wellfield Collection Mains	12"	DIP	330'	Located within the South Pasco Wellfield.	These pipelines collect raw water within the South Pasco Wellfield.
	42"	PCCP	6,264'		
	24"	DIP	3,092'		
	20"	DIP	2,053'		
	16"	DIP	1,355'		
Tampa Bypass Canal Transmission Main	84"	PCCP	9,629'	Located between the Tampa Bypass Canal Pump Station and the Tampa Bay Regional Facilities site.	This transmission main transports surface water to the Tampa Bay Regional Facilities site for treatment at the Tampa Bay Surface Water Treatment Plant.

\* PCCP Prestressed Cylindrical Concrete Pipe  
WSP Welded Steel Pipe  
DIP Ductile Iron Pipe  
RCP Reinforced Concrete Pipe  
CI Cast Iron

TABLE II (Cont.)  
EXISTING PIPELINES

Facility	Size	Material*	Length	Location	Comments
Section 21 Collection Mains	24"	DIP	2,855'	These mains are located within the Section 21 Wellfield.	These mains collect raw water within the Section 21 Wellfield.
	12"	DIP	4,138'		
Cosme Transmission Main	66"	WSP	43,900'	Located in Northwest Hillsborough County.	This transmission main connects the Regional Transmission System to the Cosme Water Treatment Plant.
Eagles Wells Collection Mains	8"	DIP	15,550'	Located in Northwest Hillsborough County.	These mains collect water from the Eagles Wells and deliver it to the Cosme-Odesa Wellfield.
Brandon/South-Central Connection	30"	DIP	33,300'	Located in South-Central Hillsborough County.	This transmission main connects the Brandon Urban Dispersed Wells transmission main to the Lithia Water Treatment Plant site.
Regional Reservoir Transmission Main	84"	WSP	42,240'	Located in South Hillsborough County.	This transmission main connects the C.W. Bill Young Regional Reservoir to the Alafia River Intake & Pump Station and the South-Central Hillsborough Intertie.

\* PCCP      Prestressed Cylindrical Concrete Pipe

WSP      Welded Steel Pipe

DIP      Ductile Iron Pipe

RCP      Reinforced Concrete Pipe

CI      Cast Iron

Note: Facilities listed do not include information on pipeline appurtenances such as valves, electronic monitoring equipment, and flow measuring devices.

TABLE III  
 FACILITIES TO BE BUILT, IMPROVED, OR EXPANDED THROUGH 2012

Facility	Function	Size	Potential Capacity	Projected Construction Start - End Dates	Location	Financing
System Interconnect: South-Central Hillsborough Infrastructure Project (Phase 1B)	Delivery of finished water from the regional facility site to South-Central Hillsborough Service area	24" and 36" yard pipe	19 mgd	June 2006 March 2007	South-Central Hillsborough County	Utility Bonds and SWFWMD and State Funding
System Interconnect: South-Central Hillsborough Infrastructure Project (Phase 2)	Installation of chloramination facilities at Brandon wells	4,000 ft. of 8" connector pipeline	9.24 mgd	2007 - 2008	South-Central Hillsborough County	Utility Bonds and SWFWMD and State Funding
System Interconnect: Northwest Hillsborough Pipeline Project	Regional System Delivery Point for Hillsborough County	36" pipeline	Not less than 15 mgd	January 2009 January 2010	Northwest Hillsborough County	Utility Bonds and SWFWMD and State funding
System Interconnect: Cypress Creek Pump Station Expansion	Regional System Delivery Pressurization	Additional pumping capacity	Not less than 15 mgd	June 2008 June 2010	Central Pasco County	Utility Bonds and SWFWMD and State Funding
System Interconnect: Morris Bridge Booster Station	Regional System Delivery to City of Tampa	Additional pumping capacity	Sizing to be determined	TBD	Northern Hillsborough County	Utility Bonds and SWFWMD and State funding
Lithia Hydrogen Sulfide Treatment Plant (SCHIP Phase 3)	Control hydrogen sulfide in water delivered from South-Central Hillsborough Wellfield	N/A	44.6 mgd	2009 - 2010	South-Central Hillsborough County	Utility Bonds
West Pasco Infrastructure Project (transmission and treatment expansion)	Connection of isolated Starkey and North Pasco wellfields to Regional System to allow environmental recovery	38,000 ft. of 42" and 36" pipeline	Up to 34 mgd	June 2006 December 2007	Western Pasco County	Utility Bonds and SWFWMD Funding
Carrollwood Collection Main (Phases 1 & 2)	Transmission of untreated water	20,560 ft. of 10" and 12" DIP pipeline	820,000 gallons per day	July 2005 March 2007	Northwest Hillsborough County	Utility Bonds
Central Pasco Infrastructure Project	Increase capacity of delivery to Pasco County system	N/A	59 mgd total	December 2006 April 2008	Central Pasco County	Utility Bonds

**TABLE IV**  
**PROPOSED FACILITY REPLACEMENT THROUGH 2017**

Facility	Function	Size	Location	Date Scheduled to Begin - End	Financing
Not Applicable (NA)*	NA	NA	NA	NA	NA

\* There are currently no proposed facilities in need of replacement between now and 2017.

**TABLE V  
FUTURE FACILITIES TO MEET WATER SUPPLY NEEDS THROUGH 2017**

Project	Function	Project Type	Potential Capacity	Location	Financing
Downstream Enhancements Phases A/B	Potable water supply	System Configuration II Project	25 mgd median yield	City of Tampa and Hillsborough County	Utility Bonds, SWFWMD and Basin Board Funding, State Funding

**OVERALL FINANCING**

Tampa Bay Water has financed projects through Utility System Revenue Bonds that are secured by a pledge of and lien upon the net revenues derived from the operation of Tampa Bay Water's utility system. Tampa Bay Water is not limited to this method of financing. Tampa Bay Water is also utilizing variable rate demand bonds and has utilized the Florida Local Government Finance Commission Commercial Paper Loan Program to finance several of its projects on a short-term basis. Certain projects may be paid for through rate collection and through capital contributions. Tampa Bay Water has also been successful in securing over \$57 million in Federal Funds for the C.W. Bill Young Regional Reservoir project and secured \$183 million through the Partnership Agreement with the Southwest Florida Water Management District (District) to assist in the development of eligible projects for System Configuration I. The District, State and Federal sources have provided funding for planning and design of alternative water supply projects. The District has funded \$11.25 million for design and construction of the West Pasco Infrastructure Project. The District and the northern Tampa Bay Basin Boards have approved 50% co-funding (in an amount up to \$116 million) for System Configuration II.

## **Overview of Pinellas County Utilities Water Supply Programs, Challenges and Long-Range Facility Planning**

Pinellas County is a member of Tampa Bay Water, through interlocal agreement, and Tampa Bay Water is required to meet all its member governments' water supply needs. Pinellas County is relying upon Tampa Bay Water to meet this projected demand by implementing its Master Water Plan for developing new sources, and continued water production from existing potable water sources. As a mature water and wastewater utility system, Pinellas County Utilities (PCU) distributes water to both retail and wholesale customers. PCU provides service to most of the unincorporated areas and several municipalities. As Pinellas County is essentially built-out, there is little anticipated growth in Pinellas County Utilities Water Demand Planning Area. A very small percentage of the County remains on private wells or septic systems.

Because Pinellas County Utilities relies upon Tampa Bay Water to meet the projected water demand, Pinellas County is focusing primarily on offsetting potable water use through conservation efforts and the use of reclaimed water.

**Conservation:** PCU is also committed to several other conservation programs which are focused on structurally changing water demand through public education and instilling efficient water use habits in PCU customers, both wholesale and retail. Some of the structural programs used so far include the distribution of water conserving fixtures such as low flow shower heads, outdoor hose nozzles and rain gauges.

To reduce the demand for outdoor use of potable water for irrigation, PCU has instituted an alternative water source incentive program where customers can be partially reimbursed for developing an alternative source of water for irrigation such as shallow or deep wells, or surface water withdrawal. This is only available in areas where reclaimed water is not to be provided, and to those connected to our wholesale customers' systems.

PCU continues to enforce watering restrictions as a means to educate customers, limiting water use for irrigation to appropriate days and times. This has had the effect of controlling growth in the demand for outdoor irrigation and educating customers about excessive use of irrigation water. For example, PCU's Healthy Lawns program is aimed at changing water demand by changing habits and educating citizens on native plant species and xeriscaping concepts that can reduce demand, and assuring an understanding of the benefits to lawns when appropriate watering techniques are employed.

**Reclaimed Water:** Pinellas County produces safe reclaimed water that meets all the state requirements for utilization of reclaimed water for irrigation of public access areas (parks, playgrounds, school sites, golf courses, etc.), and irrigation of residential lawns and landscapes. Pinellas County owns and operates two advanced wastewater treatment facilities. The William E. Dunn (WED) Water Reclamation Facility provides reclaimed water service to residents and businesses in the unincorporated areas north of Curlew Road. The South Cross Bayou (SCB) Water Reclamation Facility provides reclaimed water service to residents and businesses in central and southern unincorporated areas, and to the Gulf beach communities from Sand Key to Tierra Verde.

The management of water in Florida is especially important. How we use, conserve and manage our water supply will greatly affect our quality of life now, and, even more so in the future. In Pinellas County, Florida's most densely populated county, residents and government work together to conserve water to make efficient use of all water resources. With the highest residential distribution of reclaimed water in Florida, Pinellas County is a leading example in the use and benefits of reclaimed water. Reclaimed water helps to offset the use of potable water sources, helping to "get more mileage" out of available water resources.

**Capital Improvements and the 10 Year Water Supply Facilities Work Plan:** PCU's capital program for the water system is driven primarily by repair and replacement of existing facilities. This is due to the lack of growth being experienced in the service area and the age of the system. Other considerations in the capital program include actions necessary to address varying water qualities received from Tampa Bay Water. To address the softer water being received from Tampa Bay Water, an accelerated pipe replacement program was initiated. To address issues associated with Tampa Bay Water's water being received from multiple sources (and therefore multiple qualities), PCU is considering the development of infrastructure to allow blending and retention as a way to assure that a stable, more consistent quality product is delivered to PCU customers via the distribution system. Clearly, the rising cost of water from Tampa Bay Water, combined with the cost of the capital programs above, impact rates to customers.

Consistent with Chapter 163 of the Florida Statutes, a 10 Year Water Supply Facilities Work Plan has been prepared by PCU. It does not address costs associated with water supply, as that is the responsibility of Tampa Bay Water. It does address things like distribution, transmission, treatment, and associated facilities, for the entire Pinellas County Water Demand Planning Area, consistent with individual wholesale agreements.