

# **Big Cypress Basin**

## **Grant Funding Program for Alternative Water Supply (AWS) and Stormwater Projects**

### **Fiscal Year 2014**

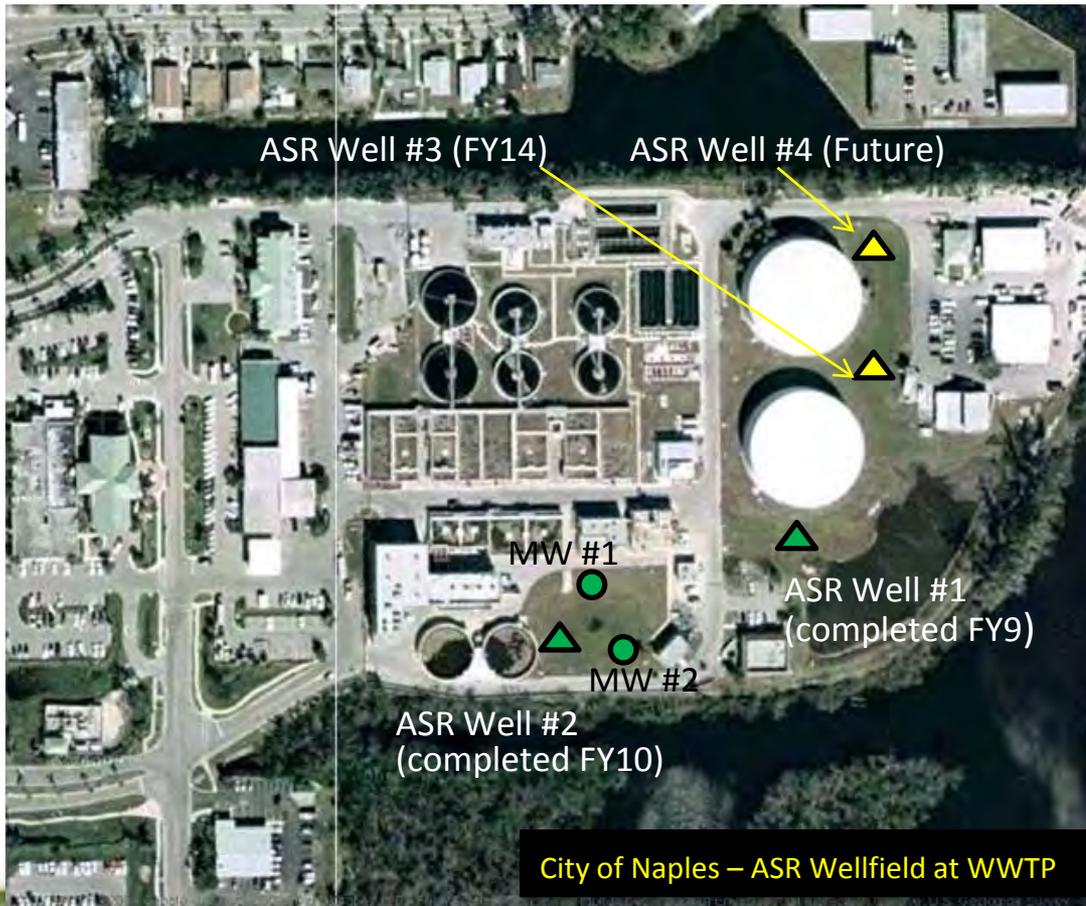
**Lisa Koehler**  
**BCB Administrator**  
**May 16, 2013**

# Project #1: Collier County - Livingston Road Aquifer Storage & Recovery (ASR) Well #2



- **Description:** Construct ASR Well#2 to store reclaimed water for irrigation use during peak demand periods
- **Benefits:** Reduction of effluent discharge, reduction of raw water withdrawal for potable use, 10 MGD reclaimed water made available
- ASR Well #1: commenced in FY12, completion in FY13  
Total Cost: \$1.04M  
District's Share: FY12 \$100,000;  
FY13 \$308,000
- ASR Well #2:  
Total Construction Cost: \$1.5M  
**FY14 Request: \$1.0M**

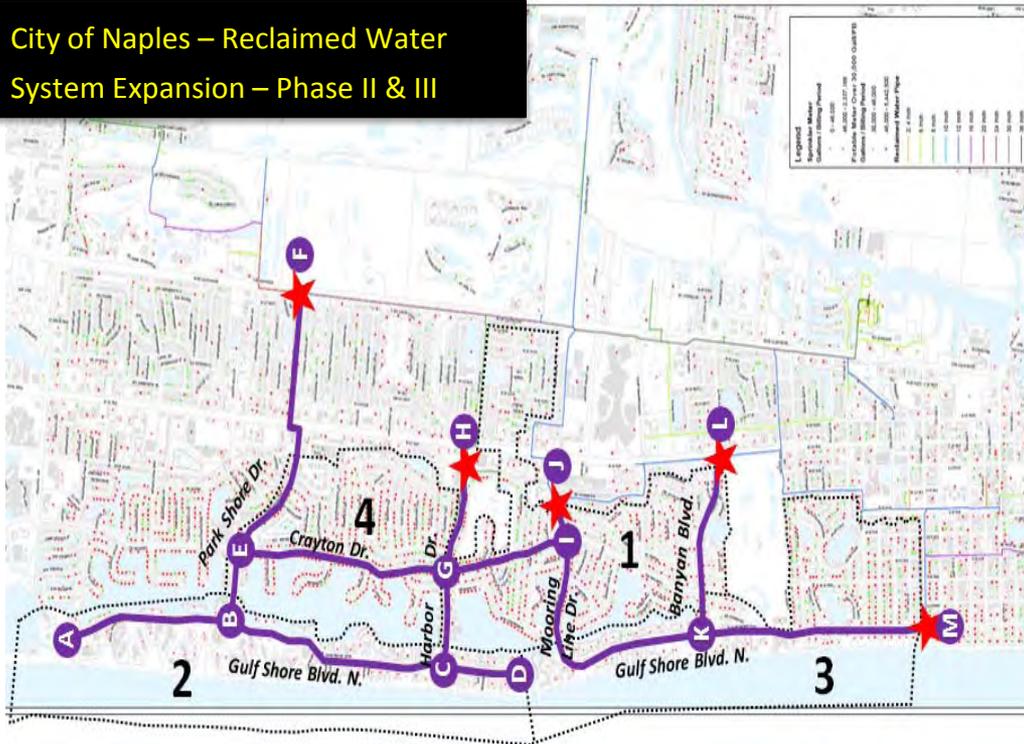
# Project #2: City of Naples Aquifer Storage & Recovery (ASR) Well #3



- **Description:** Construction of ASR Well #3 (24" diameter, 1350 ft deep), one of four ASR wells to store reclaimed water and surface water from Golden Gate Canal for irrigation use during the dry season.
- **Benefits:** Conservation of water supply, 1.0 MGD reclaimed water made available
- ASR Well #1 and #2 completed; total construction cost: \$3.1M  
District's Share: FY9 \$300,000; FY10 \$200,000
- ASR Well #3 Total construction cost for FY14: \$1,914,000
- **FY14 Request: \$1.0M**

# Project #3: City of Naples Reclaimed Water System Expansion-Phase III

City of Naples – Reclaimed Water System Expansion – Phase II & III



- **Description:** Expansion of the reclaimed water network north of Central Avenue by installing 11,200 linear feet of reclaimed water main
- **Benefits:** Provide alternative water supply for irrigation demands
- Project commenced with Phase I completed in FY07; Phase II starts in June 2013 and Phase III in FY14

Total Cost Phase I: \$3.72M

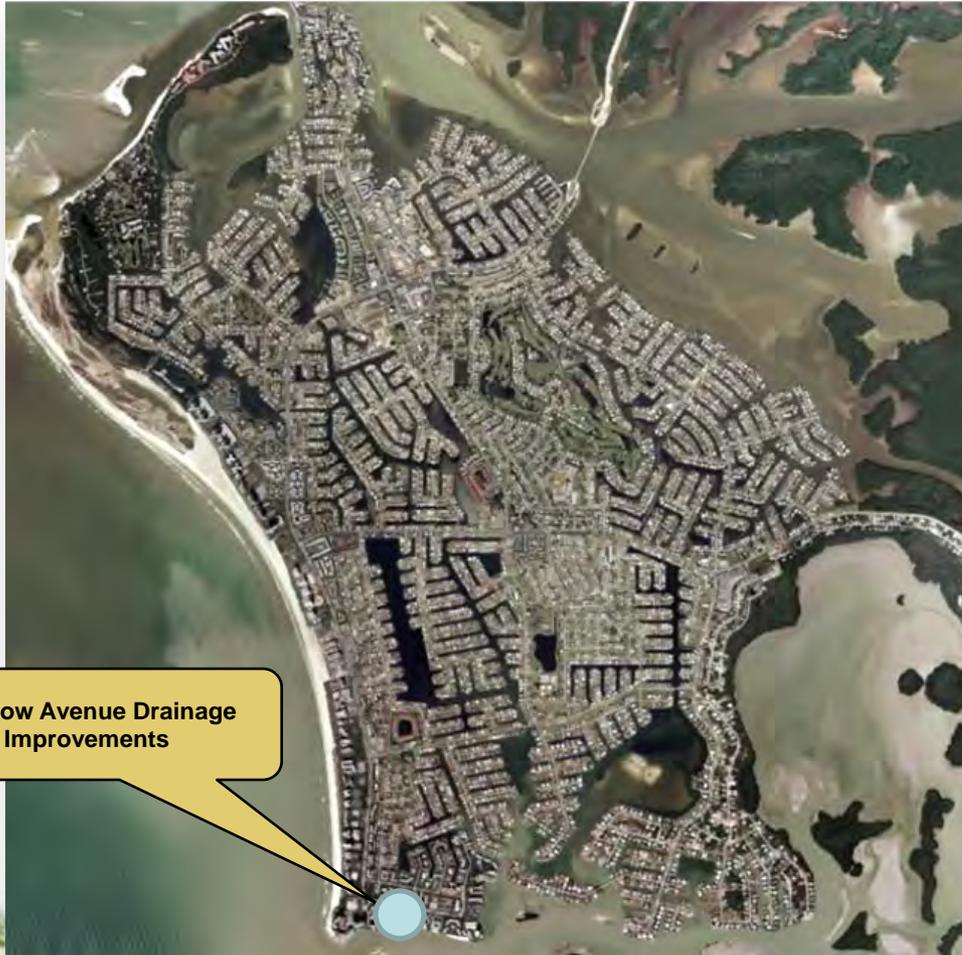
Total Cost Phase II: \$3.29M

Total Cost Phase III: \$5.7M

Phase II: \$750,000 BCB FY13  
(rolling into FY14)

- Phase III Construction Costs: \$4.5M
- **FY14 Request: \$1.0M**

# Project #4: City of Marco Island Swallow Avenue Drainage Improvements - Phase 2



- **Description:** Installation of large reinforced concrete pipes and drainage structures along Swallow Avenue
- **Benefits:** Alleviate severe flooding in the area; provide access to developments and access to emergency response during and after storm events
- Total construction cost for FY14: \$590,000
- **FY14 Request: \$300,000**

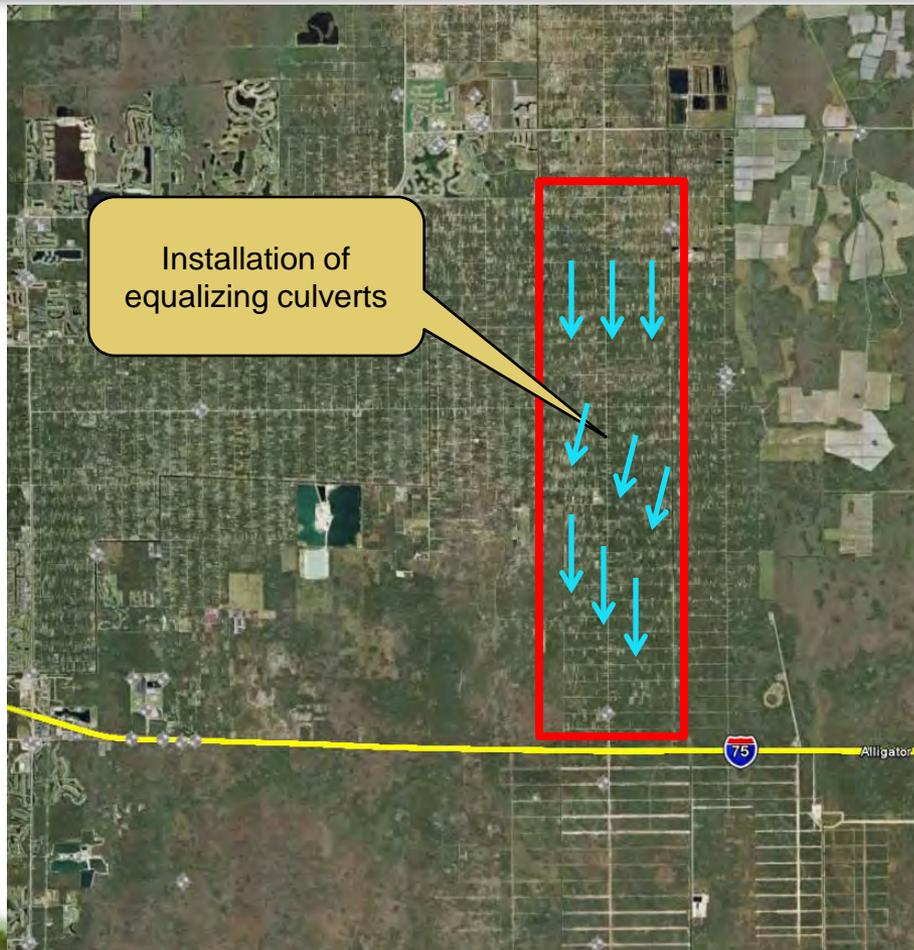
# Project #5: City of Marco Island Citywide Drainage Improvements



Citywide Drainage  
Improvements

- **Description:** Replacement and/or upgrading aged and inadequate conveyance system (15 storm water outfalls and 40 catch inlets)
- **Benefits:** Alleviate flooding and preserve the existing storm drainage system capacity; provide stormwater treatment prior to discharge
- Total construction cost for FY14: \$200,000
- **FY14 Request: \$100,000**

# Project #6: Collier County Northern Golden Gate Estates (NGGE) Flow Way- Stormwater Improvements



- **Description:** First phase of the project includes installation of 86 equalizing culverts to reconnect historic flow ways
- **Benefits:** Flood protection, reduction of surface water flows to Naples Bay, attenuation of runoff peak flows and aquifer recharge for two water supply wellfields
- Multi-phased project total cost: \$15.7M
  - Total construction cost for FY14: \$581,000
  - **FY14 Request: \$400,000**

# Local Construction Projects Not Eligible for AWS or Stormwater Funding

# Project #7: Everglades City Reuse Water Production Facility Upgrade – Phase I



- **Description:** Evaluation and upgrade of the existing wastewater collection system; assessment of 250 grinder pump stations, perform smoke test to locate salt water infiltration locations, develop and implement a plan to upgrade the collection system
- **Benefits:** Produce quality reuse water available for irrigation (200,000 gpd); reduce use of potable water; reduce impact of the biological process at the plant; reduce degradation of the existing metal process tanks; reduce flows to be treated; reduce potential of exceeding plant capacity with negative impact to adjacent waters of Everglades National Park
- Total construction cost for FY14: \$572,500
- **FY14 Request: \$250,000**

# Project #8: Marco Island Wastewater Equalization Storage Tank



- **Description:** To convert an existing 0.5 MG (million gallons) potable water tank into a storage tank to store screened raw wastewater to allow steady operation of the wastewater treatments units
- **Benefits:** Production of high quality reclaimed water available for irrigation; reduces the need for additional water treatment plant capacity; reduce the dependency on traditional water sources
- Total construction cost for FY14: \$600,000
- **FY14 Request: \$300,000**

# Proposed FY 14 Funding

- Total Requested Funding for Construction Projects \$4,350,000
- Requested Funding for Eligible AWS/SW Projects \$3,800,000
- Proposed FY14 Budget for AWS and SW projects **\$2,708,000**



## LOCAL GRANT PROJECT FUNDING-ALL LOCAL PROJECTS WITH CONSTRUCTION

	Requested	Option 1	Option 2	Option 3
<b>City of Naples</b>		40%	30%	25%
ASR Well #3 at the WWTP	\$1,000,000	\$600,000	\$450,000	\$375,000
Reclaimed Water Distribution System Expansion-Phase III- <i>(Requested is 22% Of construction)</i>	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
<b>TOTAL</b>	<b>\$2,000,000</b>	<b>\$1,600,000</b>	<b>\$1,450,000</b>	<b>\$1,375,000</b>
<b>City of Marco Island</b>				
Wastewater Equalization Storage Tank	\$300,000	\$240,000	\$180,000	\$150,000
Swallow Avenue Drainage Improvements - Phase 2	\$300,000	\$236,000	\$177,000	\$147,500
Citywide Drainage Improvements	\$100,000	\$80,000	\$60,000	\$60,000
<b>TOTAL</b>	<b>\$700,000</b>	<b>\$556,000</b>	<b>\$417,000</b>	<b>\$357,500</b>
<b>Collier County</b>				
Northern Golden Gate Estates (NGGE) Flowway Restoration	\$400,000	\$232,400	\$174,300	\$145,250
Livingstone Road ASR Wellfield	\$1,000,000	\$600,000	\$450,000	\$375,000
<b>TOTAL</b>	<b>\$1,400,000</b>	<b>\$832,400</b>	<b>\$624,300</b>	<b>\$520,250</b>
<b>Everglades City</b>				
Reuse Water Facility Upgrade-Phase 1	\$250,000	\$229,000	\$171,750	\$143,125
<b>TOTAL FY14</b>	<b>\$4,350,000</b>	<b>\$3,217,400</b>	<b>\$2,663,050</b>	<b>\$2,395,875</b>

# Questions and Funding Guidance

