

# Florida Keys Water Watch

FOR THE
#GATORGOOD

Shelly Krueger
UF/IFAS Extension Monroe County, Florida Sea Grant

### Water Watch Program Goals

- A: AWARENESS Importance of water quality
- D: DATA Collect ambient water quality data
- A: ADOPT BMPs to prevent non-point source pollution
- P: PARTNERSHIPS Citizens, UF extension & agencies
- T: TOOLS & TRAINING To evaluate local waterways



### Trained Volunteer Responsibilities

HOW: At least 1 site, at least monthly, legal access

WHO: Individuals, schools, HOA's

WHY: MC-CMMP and nonpoint source pollution





#### **Timeline**

November 2014

 Florida Keys Water Watch funded by EPA South Florida Initiative

2015

Program development and training workshops

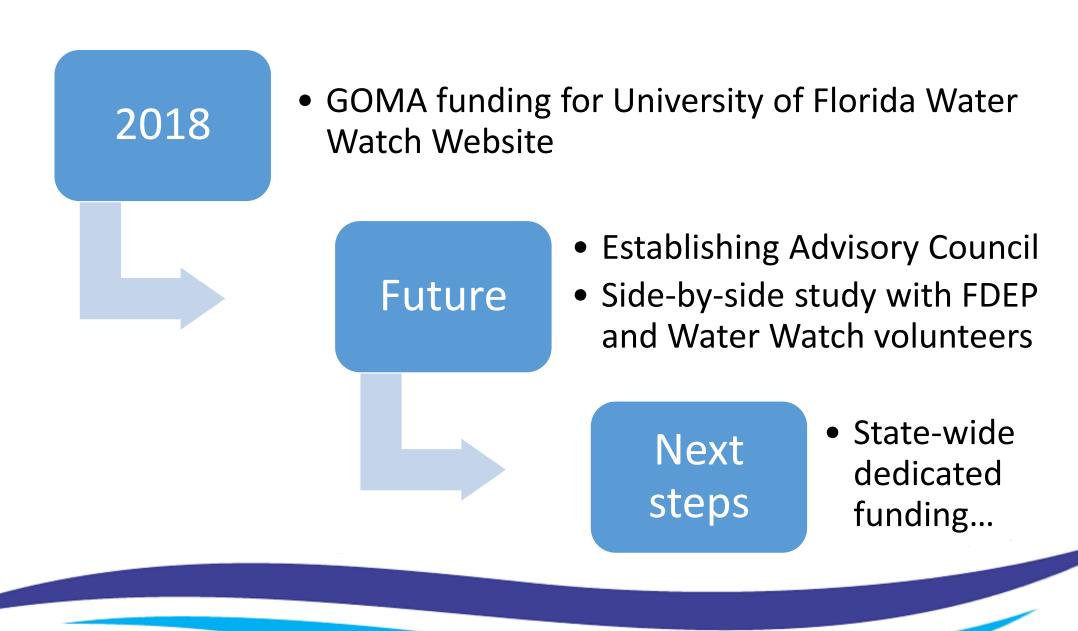
October 2016

EPA-approved QAPP Initiated working w/
FDEP QA staff for
approved alternative
methods: Lamotte
Winkler Titration and
Refractometer

2017

Train-the-Trainer
Program w/ Florida
Keys Community
College

University of Florida In-Service Training – WW goes statewide



## Summary 2015-Present

- FKWW Training
  - 61 workshops to 458 participants (180 adults and 278 students)
  - 72 volunteers and teachers\* have adopted a FKWW site
- 885 Volunteer hours w/ \$19,926 value to state of Florida
- >922 data collection events
- \*students participate under teacher guidance

- Train-the-Trainer
  - 8 Florida Sea Grant agents
  - 3 FKCC professors
    - Data collection course OCB2102C
- General Public
  - 746+ people at rotary, garden clubs, HOA's, invited seminars

#### **Program Evaluation**

- Annual Qualtrics Survey
- 47-87% adopted at least 1 BMP
  - No fish carcasses, leaf litter
  - Rain barrel
  - Florida Friendly Landscaping
- Documented Success Story
  - Coral Key Village Marina HOA
  - "Fish carcasses, pet litter, plant trimmings and all other trash shall be disposed of in receptacles provided by the Association or removed from Coral Key Village Marina (Section 3L)"

| Questions  | YEAR | Knowledge<br>Gain |
|--|------|-------------------|
| Causes of poor water quality in the Florida Keys | 2017 | 19%               |
|  | 2016 | 16%               |
|  | 2015 | 34%               |
| What is nonpoint source pollution?               | 2017 | 6%                |
|  | 2016 | 26%               |
|  | 2015 | 47%               |
| How excess nutrients (Nitrogen and Phosphorus)   | 2017 | 14%               |
| stimulate algal growth, and how decomposition    | 2016 | 20%               |
| lowers dissolved oxygen levels in the water      | 2015 | 40%               |
|  |      |                   |
| How to find the Monroe County canal              | 2017 | 67%               |
| restoration demonstration projects and canal     | 2016 | 72%               |
| rankings   | 2015 | 92%               |
| Why dissolved oxygen is such an important        | 2017 | 22%               |
| factor for good water quality                    | 2016 | 30%               |
|  | 2015 | 46%               |



Shelly Krueger
UF/IFAS Extension Monroe County
ShellyKrueger@ufl.edu
305-292-4501







