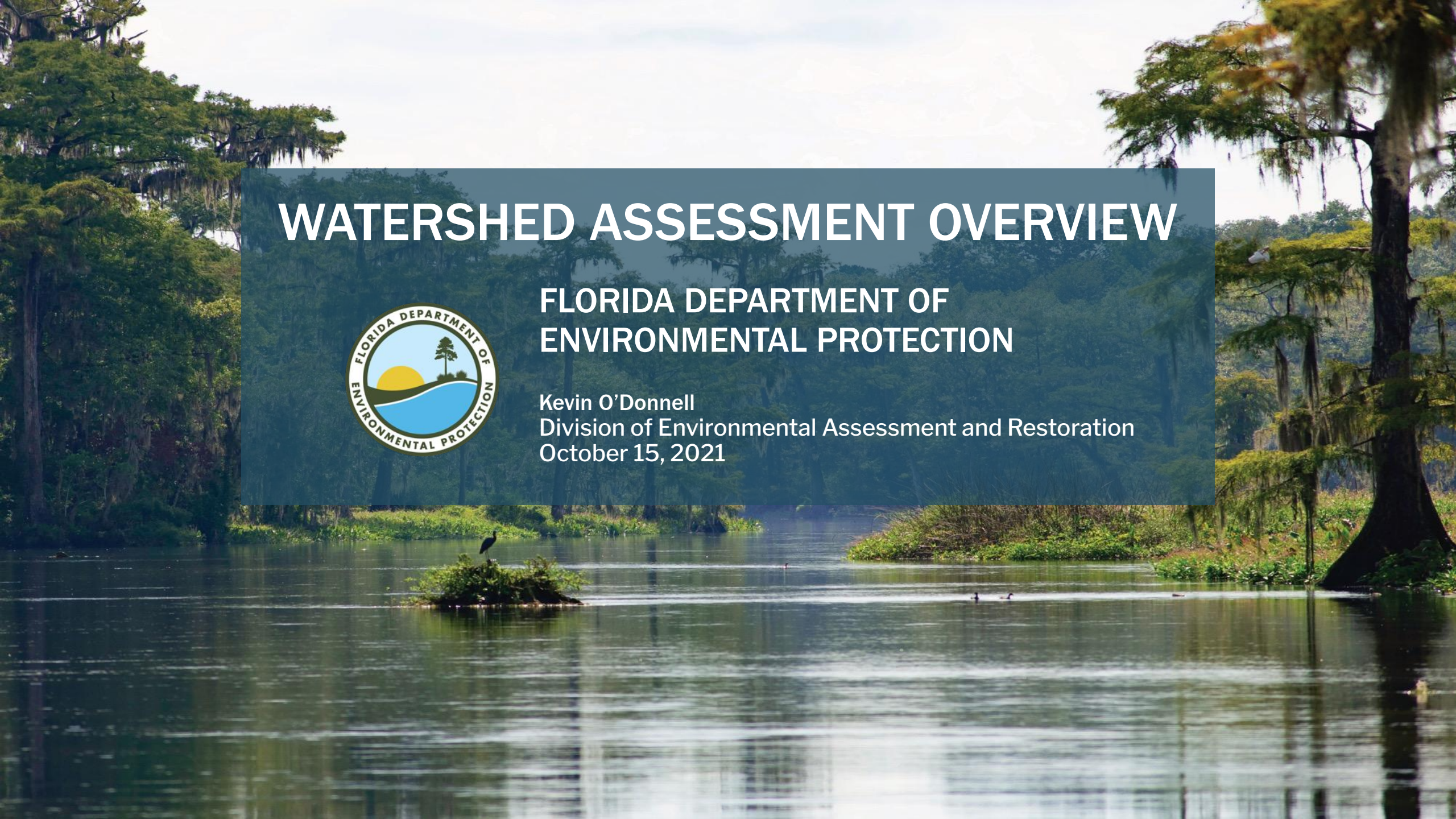
PRESENTATION OUTLINE

1. Watershed Assessment Overview
2. Northeast District Assessments
3. Public Involvement



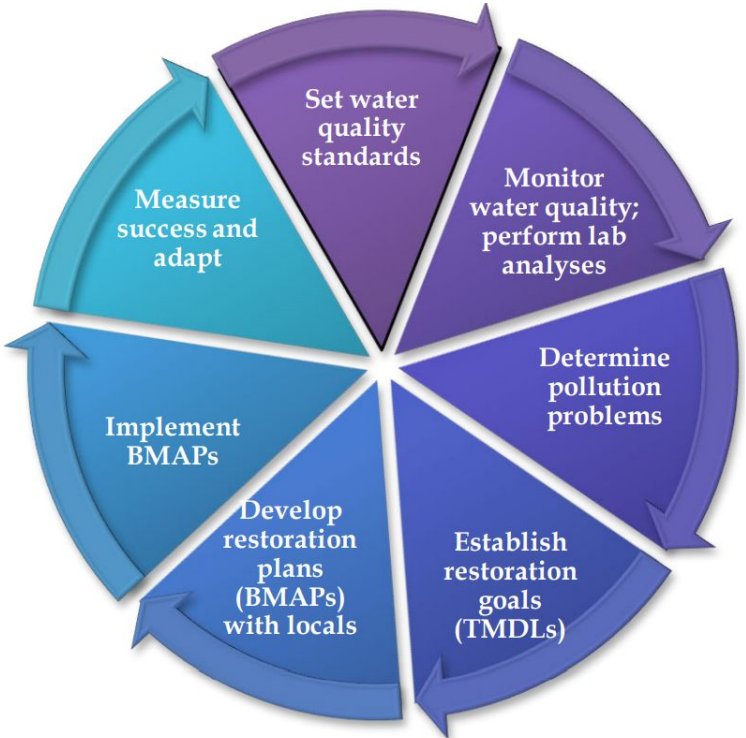
WATERSHED ASSESSMENT OVERVIEW

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Kevin O'Donnell
Division of Environmental Assessment and Restoration
October 15, 2021

WATERSHED MANAGEMENT APPROACH

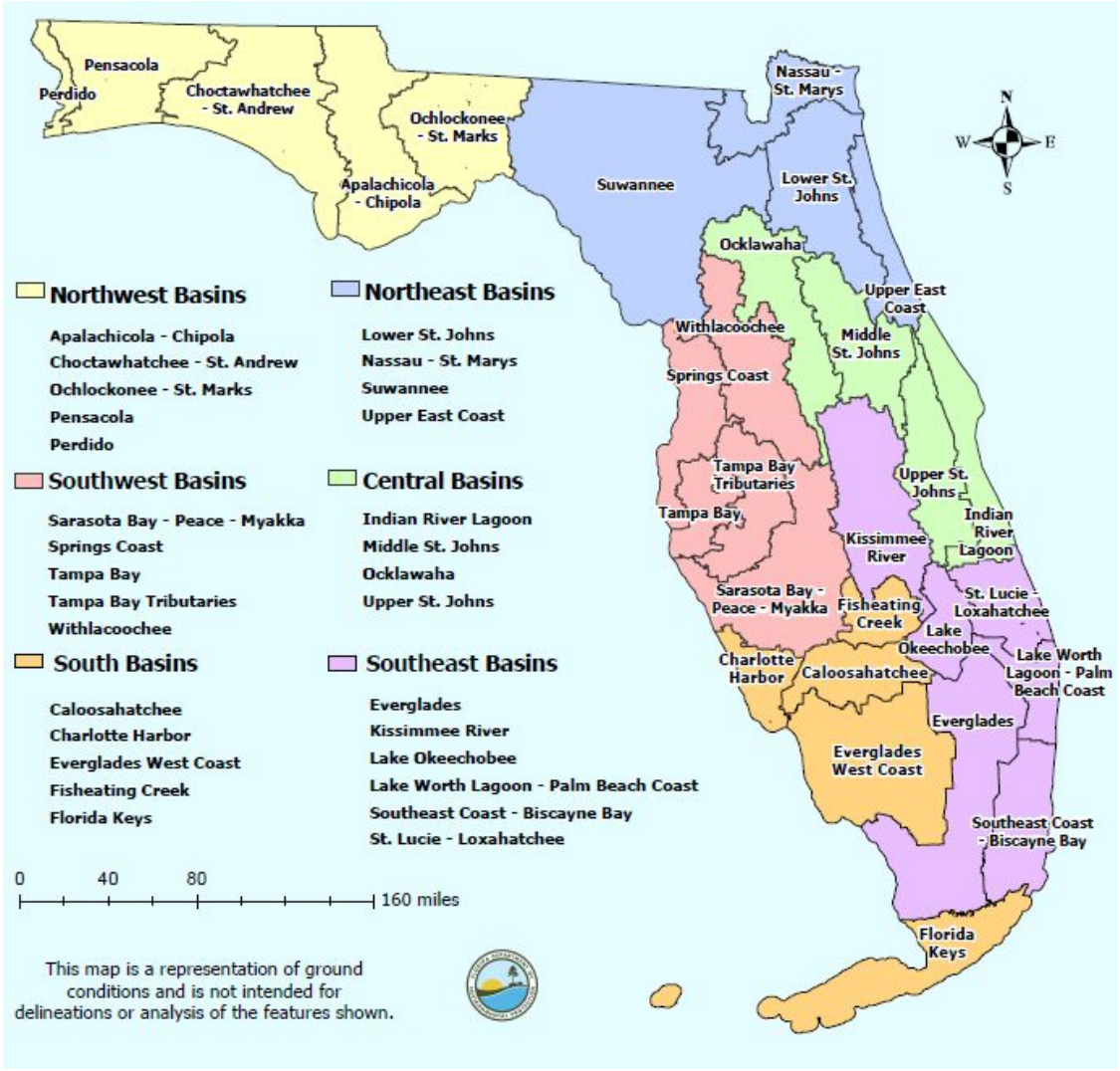
- **Section 303(d) of the Federal Clean Water Act requires states to submit lists every two years that do not meet water quality standards, including designated uses**
  - They are referred to as “Impaired and Threatened Waters”
- **DEP implements TMDL Program as part o Management Approach**
  - Started in July 2000
  - Assessment
  - TMDL Development
  - BMAP Implementation
  - Watershed Restoration



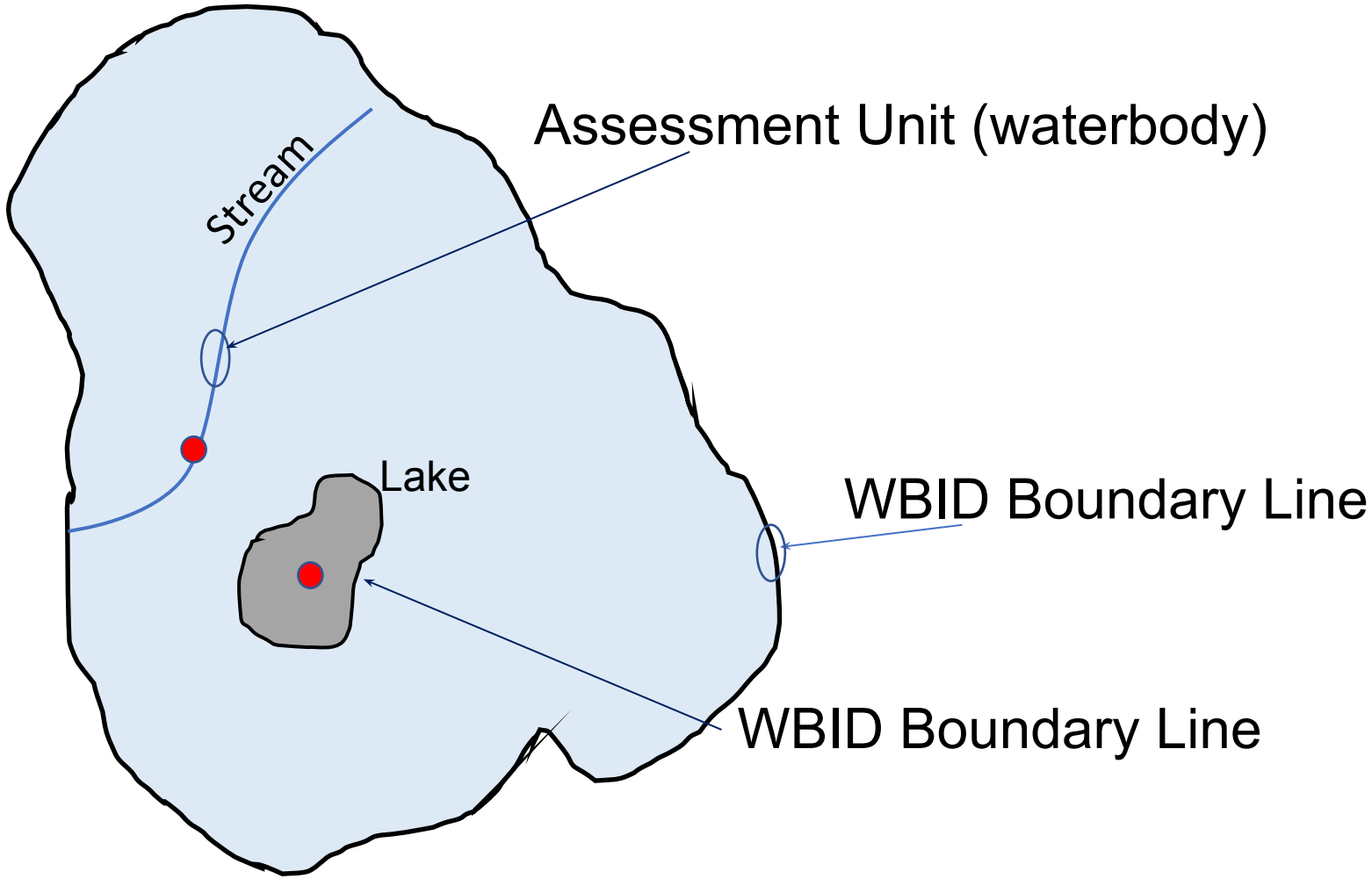
WATERSHED MANAGEMENT APPROACH

- **Previous Basin Assessment Process**
  - Established five-phase cycle that rotated through all basins in the state over a five-year period
  - Divided state's basins into 5 groups
  - Primarily designed to address 1998 303(d) Consent Decree list
- **New Basin Assessment Process**
  - All basins are assessed once every two years while retaining the group and basin nomenclature – Biennial Assessment
  - Floridians would have access to water quality assessment based on more recent data, providing a more current picture of Florida's water quality
  - For more information on the Biennial Assessment please see our Process Document and Frequently Asked Questions: FloridaDEP.gov/dear/water-quality-assessment/content/impaired-wat

STATEWIDE BIENNIAL ASSESSMENT



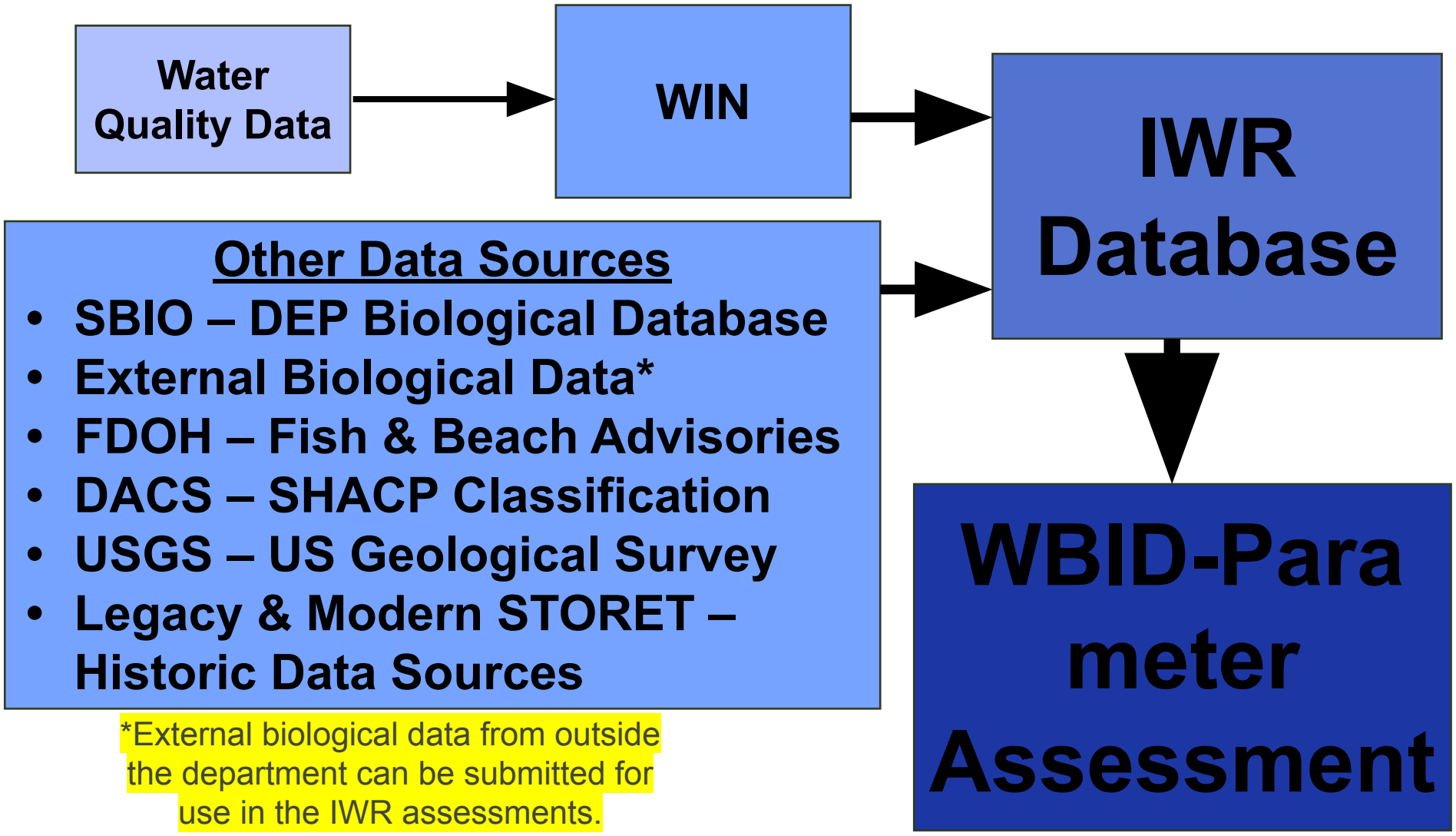
WATERBODY IDENTIFICATION NUMBER - WBID



WBID REVISIONS AND STATION REASSIGNMENTS

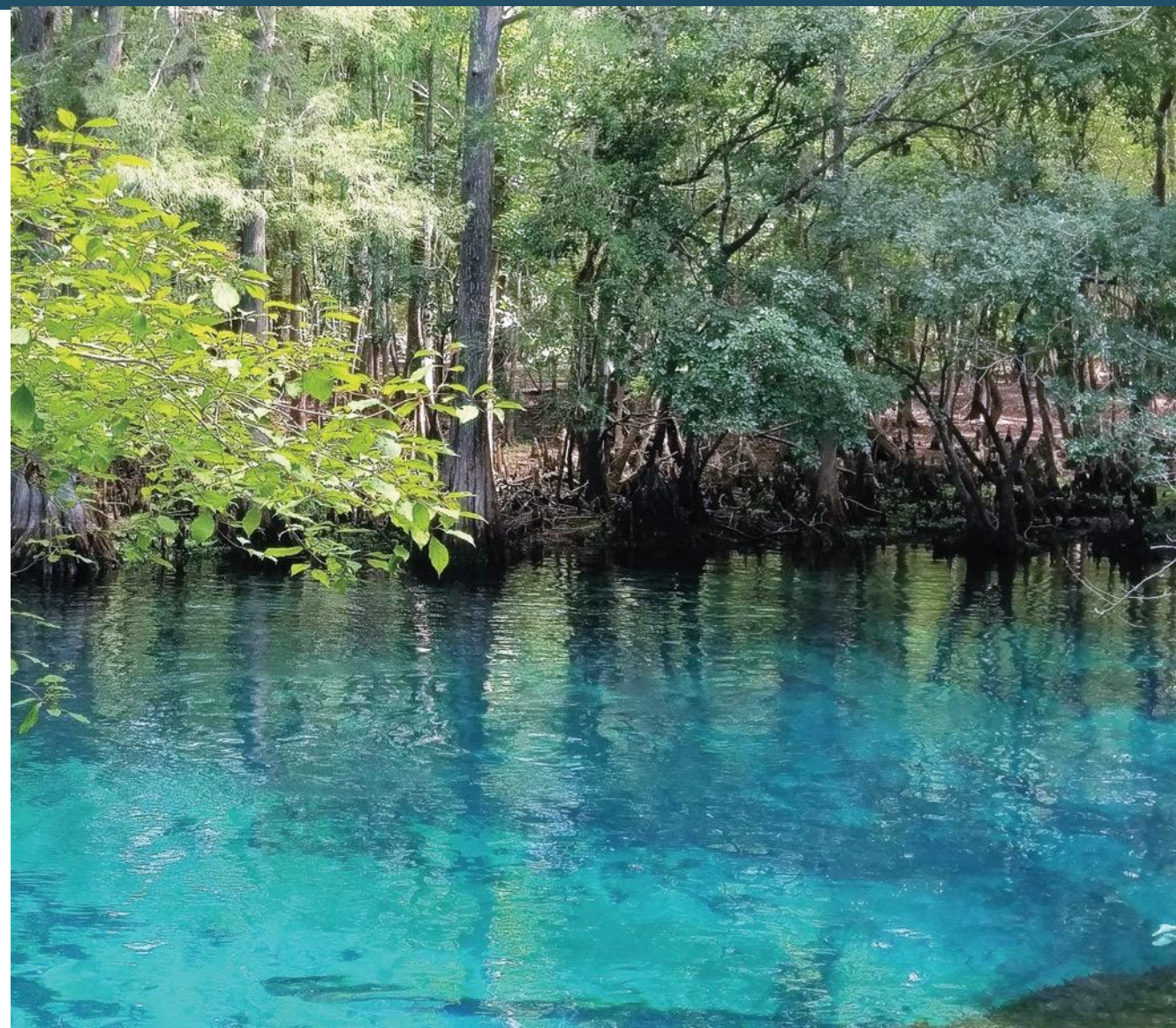
- WBID boundaries may be changed based on stakeholder input and knowledge of their local watersheds.
- Other reasons for WBID changes include delineation of freshwater & salt water, estuary nutrient regions (ENR), new water quality data, and control structures.
- We may reassign stations to other WBIDs if the Lat/Long is incorrect, following a WBID retirement, or un-assign a station if it is not representative of the WBID.
    - “Retired WBID” is the term used when we discontinue a WBID number because of re-segmentation of the boundary and station(s) assigned.

PROCESS OF WATER QUALITY ASSESSMENT



EXTERNAL BIOLOGICAL DATA PROVIDERS

Organization Name
Alachua County Environmental Protection Department
Biological Research Associates (ENTRIX)
Bream Fisherman Association
City of Cape Coral
City of Tallahassee Stormwater Management Division
Environmental Services and Permitting, Inc.
FL Game & Freshwater Fish Commission
Frydenborg Ecologic LLC
Highlands County Biology
Jones Edmunds and Associates
Leon County Public Works
Mosaic Fertilizer, LLC.
Northwest Florida Water Management District
Orange County Environmental Protection
Pinellas County Dept. of Engineering and Env. Services
Polk County Natural Resources Division
Reedy Creek Improvement Dist. Environmental Svcs.
Seminole County
South Florida Water Management District
Southwest Florida Water Management District
St. John's River Water Management District
Suwannee River Water Management District
Sweetgum Environmental
USF Water Institiute Biology



DESIGNATED USES ADDRESSED BY ASSESSMENT

- **Aquatic Life**
  - Dissolved Oxygen, Nutrients, Metals, Turbidity, Pesticides, Biological Assessment
- **Primary Contact and Recreation**
  - Bacteria, Beach Advisories
- **Fish and Shellfish Consumption**
  - Pathogenic Bacteria, Mercury, Shellfish Classification
- **Drinking Water**
  - Metals, Pesticides, Bacteria

Applicable Rules and Documentation
Water Quality Standards, 62-302, F.A.C.
Impaired Waters Rule (IWR), 62-303, F.A.C.
Total Maximum Daily Loads, 62-304, F.A.C.
NNC Implementation Document

WHAT IS AN ASSESSMENT LIST?

- **Data for each WBID-Parameter combination are tracked on the Master List, an assessment list containing all assessments in the form of an Excel spreadsheet**
- **Each WBID-Parameter combination is assessed per Chapters 62-302, 62-303, and 62-304, F.A.C., and depending on the assessment status and category, may also be placed on additional assessment lists:**
  - Verified List – Impaired, needs a TMDL
  - Delist List – Removals from the Verified List
  - Study List – Not meeting standards, but needs additional information or data
  - Study List Removals - Removals from the Study List
- **Waterbodies on the Verified List , Study List, and Planning List are targeted for additional monitoring**

All assessment determinations are retained as part of the department's administrative record.

305(b)/303(d) INTEGRATED REPORT ASSESSMENT CATEGORY DESCRIPTIONS

- **Category 1** – Not Impaired (attains ALL uses)
- **Category 2** – Meets Standards; Not Impaired
- **Category 3** – Insufficient Data
- **Category 4** – Does not meet standards, but a TMDL is not needed
- **Category 5** – Does not meet standards; Impaired by a pollutant

EPA allows for states to use sub-categories based on the data sufficiency and management activities.

NEW ASSESSMENT CATEGORY 2B, 2E AND 2T

- **Category 2b** – Waters that are Not Impaired and a Reasonable Assurance Plan has already been completed
- **Category 2e** – Waters that are Not Impaired and an alternative restoration plan has already been completed
- **Category 2t** – Waters that are Not Impaired and a TMDL has already been completed

LIST DESCRIPTION

- **Verified List – Only Category 5 assessments**
  - Data sufficiency requirements for meeting listing thresholds in Rule 62-303, F.A.C., section .420, .430 and .450, F.A.C:
    - For general parameters, the binomial distribution is applied using Table 3 in the IWR rule, requiring at least 5 temporally-independent samples
    - For nutrients, the annual geometric (AGM) or arithmetic mean (AAM) exceeds more than one once in any consecutive three-year period; requires at least four temporally-independent samples, with at least one sample collected between May 1 and September 30 and one sample collected during the other months of the calendar year
    - For biology and dissolved oxygen (percent saturation) assessments, identification of a causative pollutant is required (e.g., nutrients)
    - For NNC bioassessments (SCI, RPS, LVS), must have at least two temporally independent samples (must be at least 3 months apart)

LIST DESCRIPTION

- **Delist List – Any category possible, except 5**
  - Data meet delisting thresholds in section 62-303.720, F.A.C.
  - WBID-Parameter no longer impaired
  - TMDL developed that addresses listed parameter
  - For nutrients listings, the annual geometric or arithmetic means require the most recent 3 years below the magnitude of the criterion; gaps in data sufficiency are evaluated on a case-by-case basis
  - Correcting errors (Analysis Flaw)

LIST DESCRIPTION

Study List – Category 4d & 4e

- **Category 4d**:
  - Data meet listing thresholds in section 62-303.390, F.A.C.
  - Data needed to determine causative pollutant
  - Evaluate adverse trend in nutrients or nutrients response variables, includes dissolved oxygen
  - Waters to conduct Stressor ID study that are impaired for biology, but do not have a causative pollutant
  - Stakeholder submits a petition for a SSAC (site-specific alternative criterion)
  - Fewer than 20 samples for bacteriological water quality criterion in verified period and need to evaluate sources, conduct bacterial sources tracking study
  - Chlorophyll *a* stream assessments, if AGMs are > 3.2 to ≤ 20 µg/L more than once in a three-year period with TN or TP exceeding; requires a site-specific interpretation
- **Category 4e**:
  - Restoration Plans – such as Pollutant Reduction, Bacteria Pollution Control, and TMDL Implementation
    - For example: McCoy Creek (WBID 2257) Bacteria TMDL and BMAP, Ribault

LIST DESCRIPTION

Study List Removals – Any category possible, except 5, 4d, or 4e

- Data no longer meet the listing requirements for the Study List, as identified in section 62-303.390, F.A.C.
- The department submits these to EPA and request they remove these waterbodies from the 303(d) List.
- There are several reasons for requesting removal from the 303(d) List including, but not limited to, more recent or accurate data, flaw in the original analysis, site-specific data or information to support natural conditions (category 4c), and changes in water quality conditions.

IMPLEMENTATION OF REVISED CRITERIA

- **Fecal Coliform Criteria (EPA Approved July 24, 2017):**
  - **Class II, Marine still assess Fecal Coliform, but will also assess Enterococci**
  - **Class III, Marine will assess Enterococci**
  - **Class I and III, Freshwater will assess *Escherichia coli***
- **Revised Unionized Ammonia**
  - **Replaced with Total Ammonia Nitrogen**

IMPLEMENTATION OF REVISED CRITERIA

Waters on Verified List will stay on the list until:

- **New fecal coliform data indicates the waterbody is not impaired (for Class II waters)**
- **New applicable bacteria parameter indicates the waterbody is not impaired**
- **There is a TMDL that addresses the impairment**
- **For unionized ammonia – revaluate using applicable criteria and available data**

NUMERIC NUTRIENT CRITERIA STREAM EXCLUSIONS

Where can NNC stream exclusion template be downloaded ?

2020-2022 Biennial Assessment Draft Verified and Delist Lists

Home » Divisions » Division of Environmental Assessment and Restoration » Watershed Assessment Section » 2020-2022 Biennial Assessment Draft Verified and Delist Lists

Watershed Assessment Section Quick Links

- News and Announcements
- Impaired Waters Listing Process
- Assessment Lists
- Contacts
- Subscribe
- Impaired Waters Rule (IWR)
  - NNC Stream Exclusion Template

The Watershed Assessment Section announces the 2020-2022 Biennial Assessment Draft assessment lists of waterbodies and water segments proposed for addition to the Verified List and Delist List. The Draft assessment lists were developed pursuant to Chapter 62-303, Florida Administrative Code (F.A.C.), and include all 29 basins in the state. The Draft Verified Lists include those waters that have been determined to not meet water quality standards and are proposed as additions to the State's Verified List of Impaired Waters and the Clean Water Act (CWA) section 303(d) list. The Draft Delist Lists include those waters that are proposed for removal from the State's Verified List and CWA section 303(d) list for several reasons such as the waterbody is no longer impaired, a TMDL has been completed, the parameter verified impaired in the previous assessment was due to a flaw in the original analysis, or corrections made to the waterbody type or class. Following the adoption by the Secretary of the department, waterbodies identified on the Draft Verified List will be scheduled for TMDL production. A TMDL represents the maximum amount of pollutant loading that can be discharged to a waterbody and have its designated uses be met.

In addition to the draft assessment lists in spreadsheet format, the department has published an interactive map titled "Biennial Assessment 2020-2022 Drafts Lists" that shows the geographic location of the waterbodies and waterbody segments by WBID that are proposed for addition to the Verified List, Delist List, Study List, or Study List Removals. These assessment lists were produced with

FloridaDEP.gov/dear/watershed-assessment-section

NUMERIC NUTRIENT CRITERIA STREAM EXCLUSIONS

As per Paragraph 62-302.200(36)(b), F.A.C., ditches, canals and other conveyances (or segments of conveyances) can be excluded from the stream definition if they are demonstrated to:

1. Be man-made, or predominantly channelized or predominantly physically altered,
2. Be primarily used for water management purposes, such as flood protection, stormwater management, irrigation, or water supply; and
3. Have marginal or poor stream habitat or habitat components, such as a lack of habitat or substrate that is biologically limited, because the conveyance has cross sections that are predominantly trapezoidal, has armored banks, or is maintained primarily for water conveyance.

Example: Ochlockonee – St. Marks basin WBID 916 (East Drainage Ditch) doesn't meet the stream definition rule

QUALITY ASSURANCE LABORATORY AUDIT PERFORMED BY DEP

Department finalized an audit in May 2019 that impacts the data usability for IWR bacteria assessments

- Includes Fecal Coliform, *E. coli* or Enterococci data analyzed:

  AEL Laboratory – Gainesville, Tampa, and Miramar.

  Flowers Laboratory – Port St. Lucie and Altamonte Springs

  ALS Laboratory - Jacksonville

- Depending on the laboratory listed above, there are specific dates that data have been excluded. Please see the Bacteria QA Audit Table posted here:

  Bacteria QA Audit

  Lab audit results available here or by request:

  FLDEPloc.dep.state.fl.us/reports/audits.asp

QUALITY ASSURANCE LABORATORY AUDIT PERFORMED BY DEP

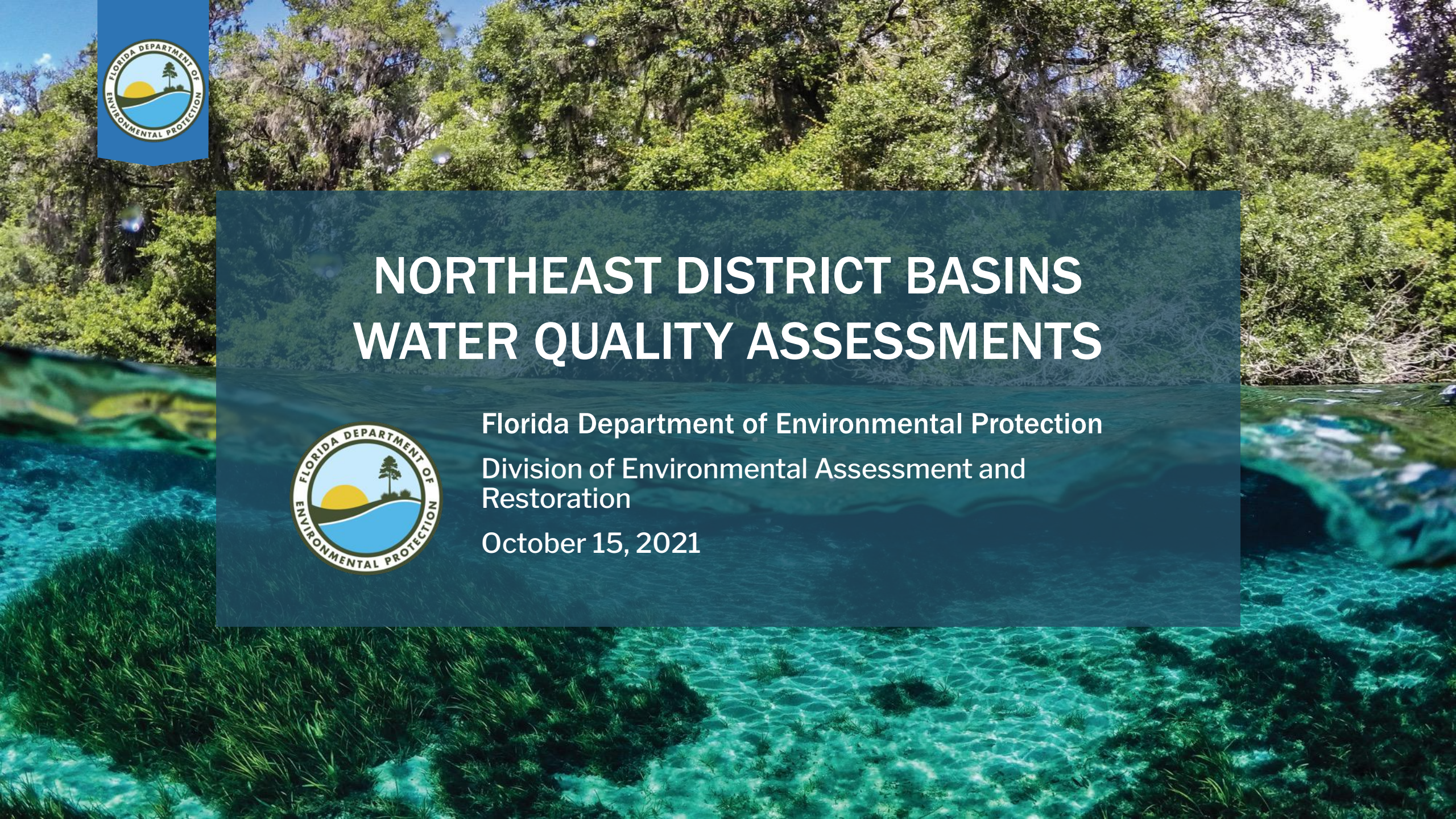
Organizations with some bacteria data excluded from the biennial assessment :

Organization ID	Organization Name
21FLA	Department of Environmental Protection (Northeast ROC)
21FLACEP	Alachua County Environmental Protection Department
21FLCEN	Department of Environmental Protection (Central ROC)
21FLCOAB	City of Atlantic Beach
21FLCOJB	City of Jacksonville Beach
21FLCONB	City of Neptune Beach
21FLDOH	Division of Environmental Health, Bureau of Water
21FLFTM	Department of Environmental Protection (South ROC)
21FLGTM	Guana Tolomato Matanzas National Estuarine Research Reserve
21FLJXWQ	City of Jacksonville
21FLPASC	Pasco County Stormwater Management Division
21FLTPA	Department of Environmental Protection (Southwest ROC)
21FLWPB	Department of Environmental Protection (Southeast ROC)
21FLWQA	Department of Environmental Protection (Watershed Assessment Section)
21FLWQSP	Department of Environmental Protection (Water Quality Standards and Special Projects)

WIN UPDATES

- WIN Coordinators are requesting data providers upload data at least quarterly
- All WIN minimum data quality standards (MDQS) are provided at : Publicfiles.DEP.State.FL.US/DEAR/WIN/
- Includes minimum data quality elements, data templates, FAQs, ar
- C
im

District	Coordinator	Phone	E-mail
WIN Administrator	Julie Zimmerman	850-245-8508	Julie.Zimmerman@dep.state.fl.us
Central, South, Southwest Orgs; Interim Statewide Orgs	Tommy Adams	850-245-8467	Thomas.L.Adams@dep.state.fl.us
Northeast, Northwest, & Southeast	Justin Nelson	850-245-8510	Justin.M.Nelson@dep.state.fl.us
WQX and SPA Coordinator	Lisa Schwenning	850-245-8509	Lisa.Schwenning@dep.state.fl.us



NORTHEAST DISTRICT BASINS WATER QUALITY ASSESSMENTS

Florida Department of Environmental Protection

Division of Environmental Assessment and Restoration

October 15, 2021

WATERSHED ASSESSMENT WEBPAGE - LINKS

Where can IWR runs be downloaded?

The department will conduct three public meetings via GoToWebinar. **Registration is required.** These assessments reflect the department's current assessment status for these waterbodies, but they are subject to change based on input received during the public comment period. The department requests that all comments be received by **Nov. 10, 2021**. Comments on the draft assessments lists should be submitted by email to Kevin.Odonnell@FloridaDEP.gov or by mail to:

Florida Department of Environmental Protection
Attn: Kevin O'Donnell
Watershed Assessment Section
Division of Environmental Assessment and Restoration
2600 Blair Stone Road MS# 3560
Tallahassee, FL 32399-3000
Kevin.Odonnell@FloridaDEP.gov

For best results, print on legal size paper (8.5 x 14).

2020-2022 Draft Verified and Delist Lists

Date	Basins	Draft Verified List	Draft Delist List
9/7/2021	• Apalachicola - Chipola • Choctawhatchee - St.	Northwest Verified List	Northwest Delist List

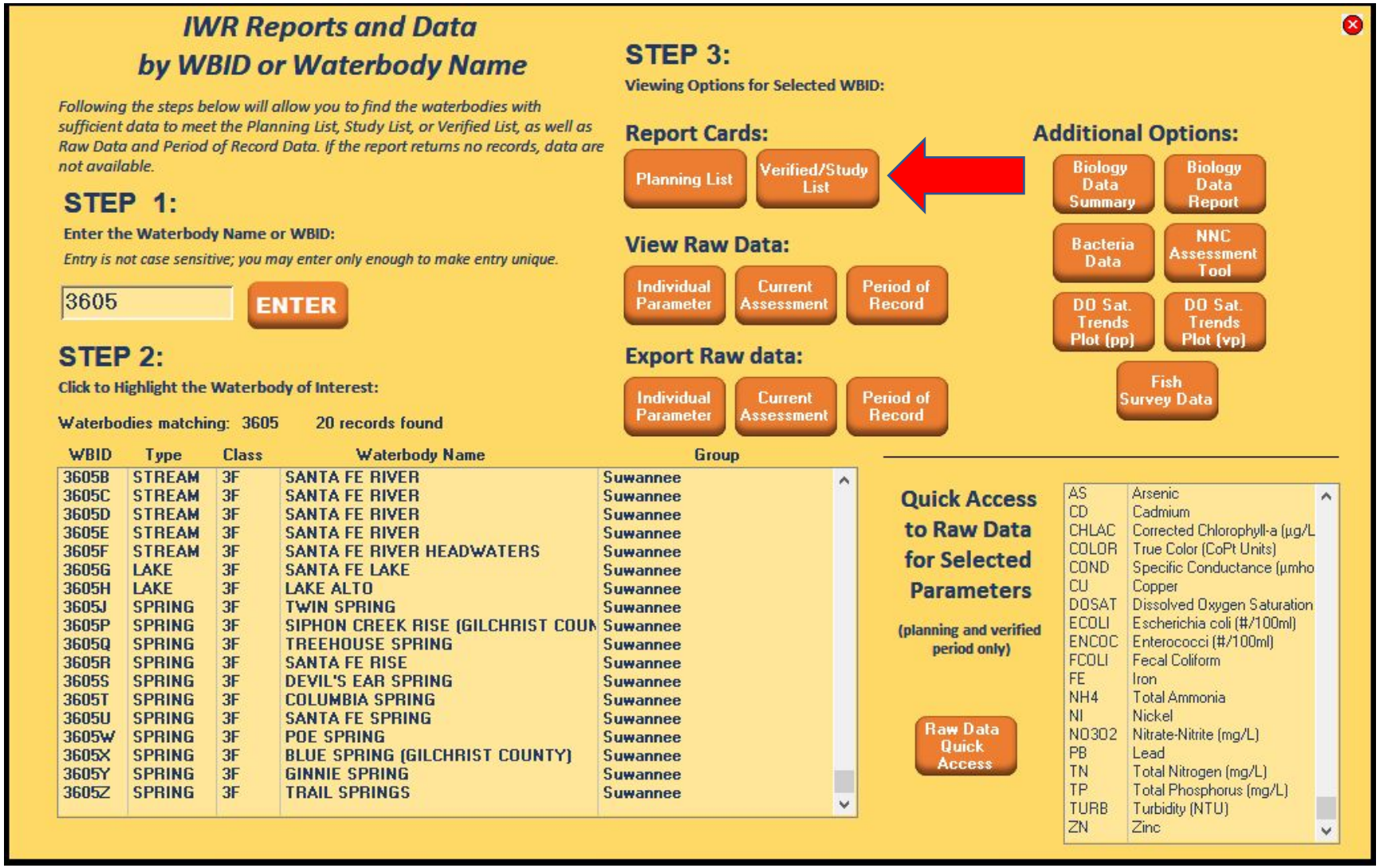
FloridaDEP.gov/dear/watershed-assessment-section

IWR RETRIEVAL TOOL

Where can data for a waterbody be retrieved?

FloridaDEP.gov/dear/watershed-assessment-section

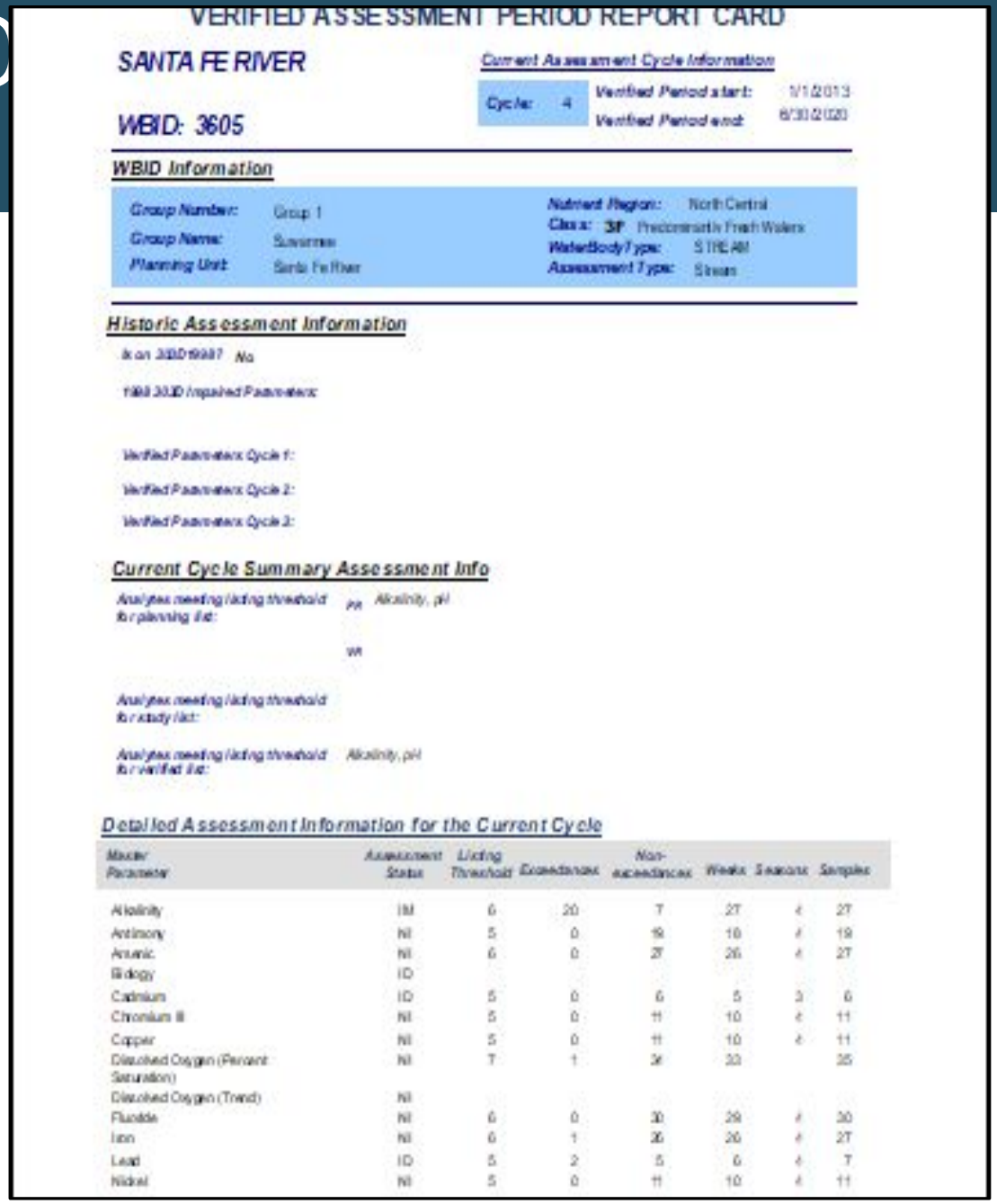
IWR RETRIEVAL TOOL – REPORT CARDS



Where can preliminary assessments be viewed?

REPORT CARD FO VERIFIED LIST

- Summary of parameters collected for the WBID with data in the verified period
- Provides the counts (exceedances and non-exceedances) and assessment status for each parameter
- Assessment status abbreviations:
  IM – Impaired
  NI – Not Impaired
  SL – Study List
  ID – Insufficient Data
  PL – Planning List



VERIFIED ASSESSMENT PERIOD REPORT CARD

SANTA FE RIVER

WBID: 3605

Current Assessment Cycle Information

Cycle: 4 Verified Period start: 1/1/2013 Verified Period end: 6/30/2020

WBID Information

Group Number: Group 1
Group Name: Suwannee
Planning Unit: Santa Fe River
Nutrient Region: North Central
Class: 3F Predominantly Fresh Waters
WaterBody Type: STREAM
Assessment Type: Stream

Historic Assessment Information

Is on 303D 1998? No

1998 303D Impaired Parameters:

Verified Parameters Cycle 1:

Verified Parameters Cycle 2:

Verified Parameters Cycle 3:

Current Cycle Summary Assessment Info

Analytes meeting listing threshold for planning list: pH Alkalinity, pH

WI

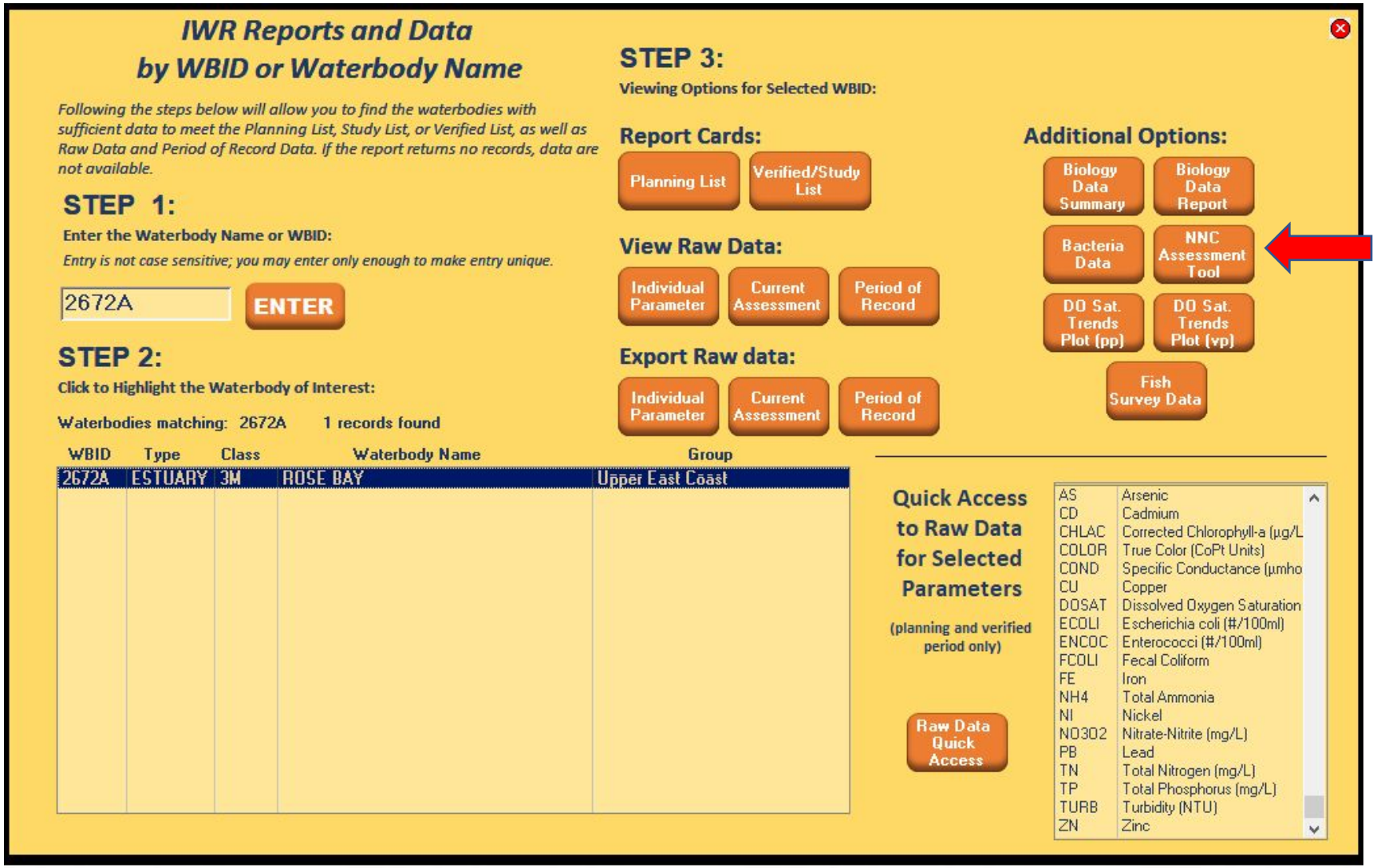
Analytes meeting listing threshold for study list:

Analytes meeting listing threshold for verified list: Alkalinity, pH

Detailed Assessment Information for the Current Cycle

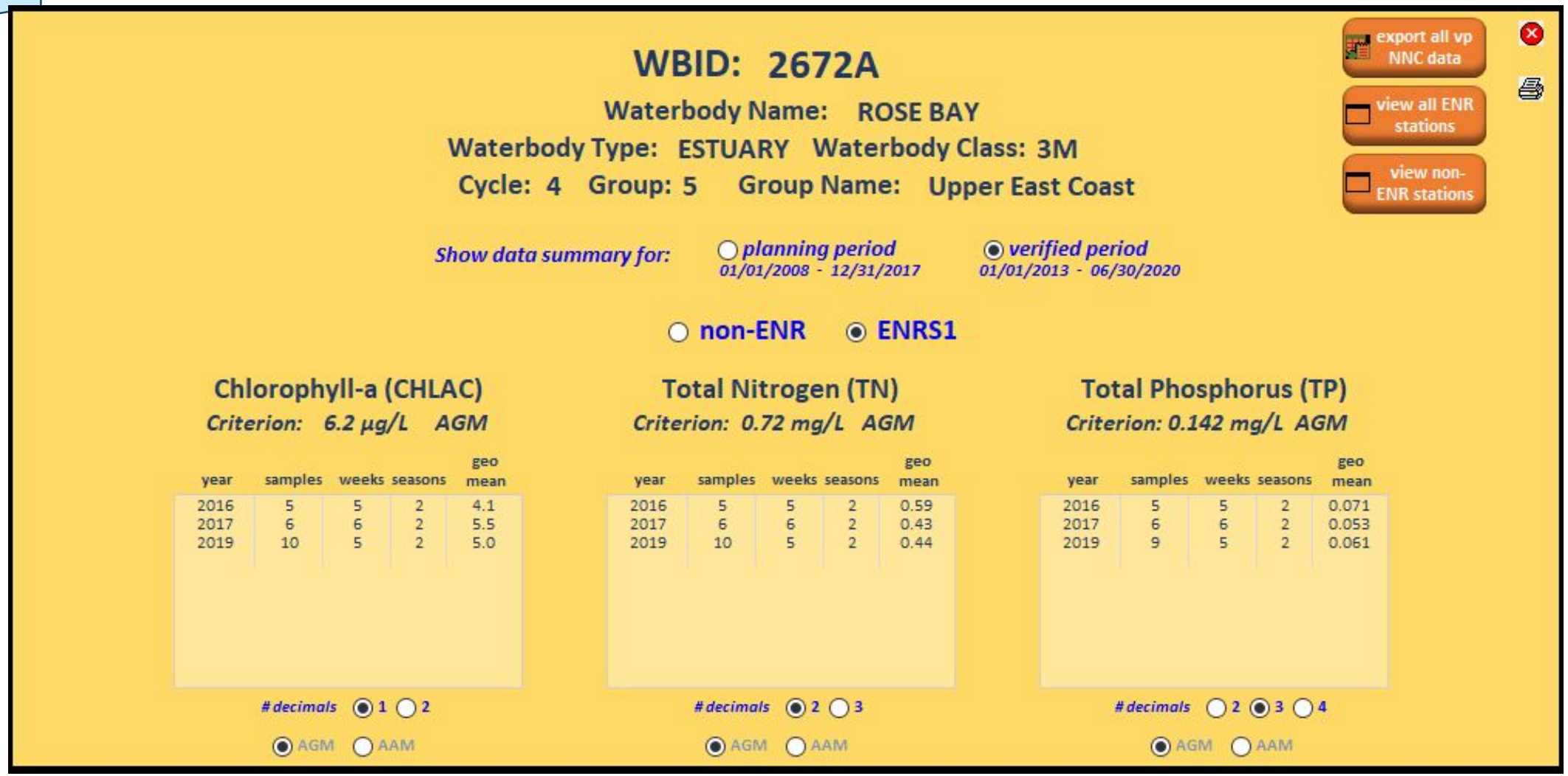
Master Parameter	Assessment Status	Listing Threshold	Exceedances	Non-exceedances	Weeks	Seasons	Samples
Alkalinity	IM	6	20	7	27	4	27
Antimony	NI	5	0	19	19	4	19
Arsenic	NI	6	0	27	26	4	27
Biology	ID						
Cadmium	ID	5	0	6	5	3	6
Chromium III	NI	5	0	11	10	4	11
Copper	NI	5	0	11	10	4	11
Dissolved Oxygen (Percent Saturation)	NI	7	1	34	33		35
Dissolved Oxygen (Trend)	NI						
Fluoride	NI	6	0	30	29	4	30
Iron	NI	6	1	26	26	4	27
Lead	ID	5	2	5	6	4	7
Nickel	NI	5	0	11	10	4	11

IWR RETRIEVAL TOOL – NNC ASSESSMENT

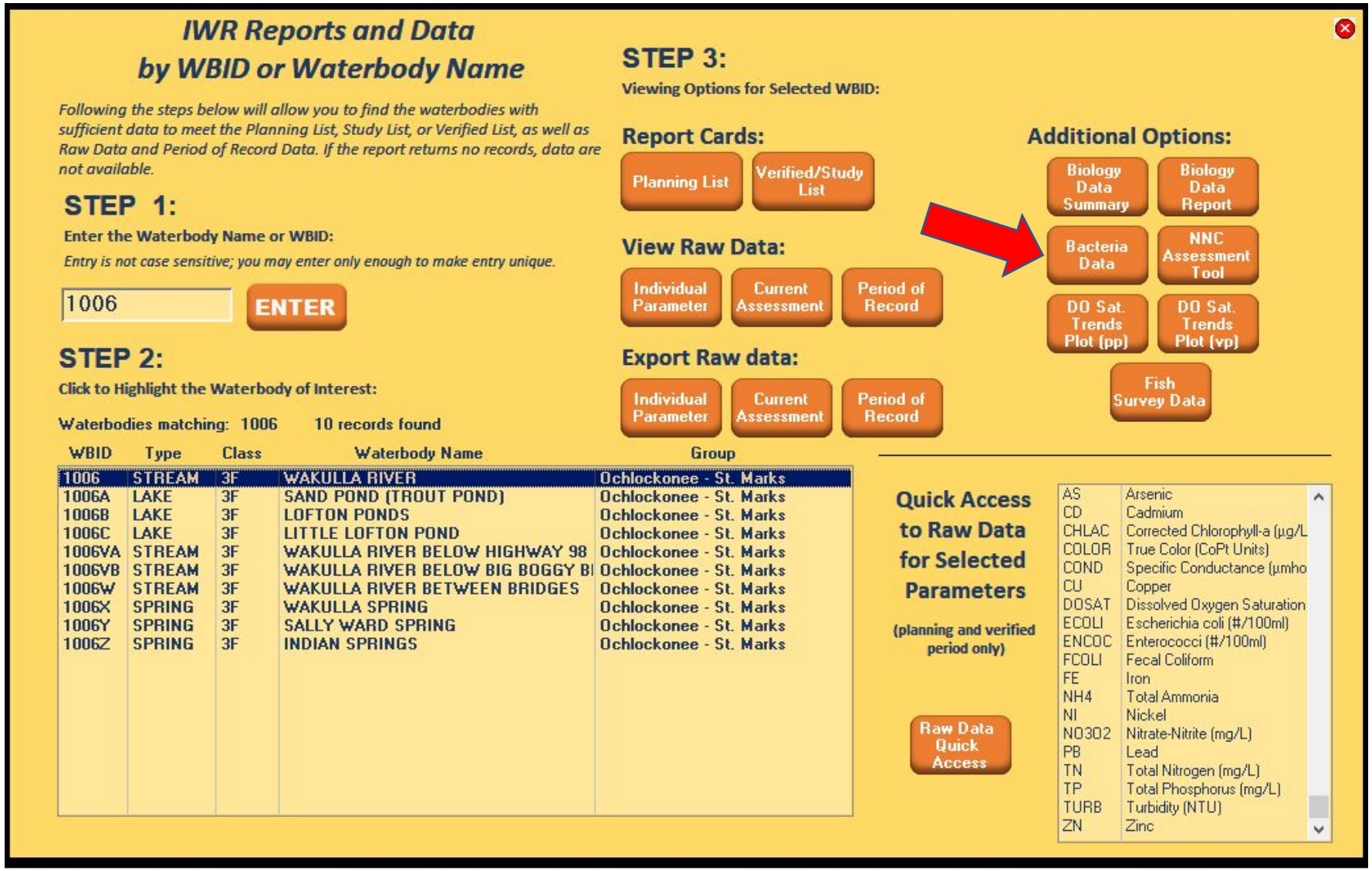


Where can Numeric Nutrient Criteria information be viewed?

NNC ASSESSMENT RESULTS



IWR RETRIEVAL TOOL – BACTERIA DATA



Where can bacteria information including tracers and markers be viewed?

BACTERIA DATA TABLE INCLUDING CHEMICAL TRACERS & GENETIC MARKERS

Station	Date	WBID	Escherichia coli (/100ml)	rCode_E	Enterococci (/100ml)	rCode_E	Fecal Coliform (/100ml)	rCode_F	HF183 DNA marker	rC
21FLGW 34879	4/19/2018	1006	65.7		8.5					
21FLGW 34879	5/22/2018	1006	172.8	A	116	A				
21FLGW 34879	6/18/2018	1006	39.7	Q	28.1	Q				
21FLGW 34879	7/17/2018	1006	59.1	Q	41.7	Q				
21FLGW 34879	8/20/2018	1006	48.7	Q						
21FLGW 34879	9/18/2018	1006	62.4							
21FLGW 34879	10/15/2018	1006	80.9							
21FLGW 34879	11/13/2018	1006	547.5	Q						
21FLGW 34879	12/17/2018	1006	77.8	A						
21FLGW 34879	1/23/2019	1006	201.4							
21FLGW 34879	2/18/2019	1006	261.3	Q						
21FLGW 34879	3/19/2019	1006	29.2							
21FLGW 34879	4/17/2019	1006	18.1							
21FLGW 34879	5/20/2019	1006	32.7							
21FLGW 34879	6/17/2019	1006	48.7							
21FLGW 34879	7/17/2019	1006	48	A						
21FLGW 34879	8/22/2019	1006	49.8	A						
21FLGW 34879	9/18/2019	1006	60.9							
21FLGW 34879	10/23/2019	1006	61	A						
21FLGW 34879	11/21/2019	1006	127.8	A						
21FLGW 34879	12/16/2019	1006	88.4							
21FLGW 34879	1/23/2020	1006	39.3							
21FLGW 44059	10/30/2013	1006	26	B	60	Q	42	Q		
21FLGW 44059	4/21/2014	1006			91	Q	200	Q		
21FLGW 44059	10/28/2014	1006	3.1	Q	1	Q	15	B		
21FLGW 44059	4/21/2015	1006	17.3	Q	96	J	15	B		
21FLGW 44059	4/21/2015	1006	17.3	Q	96	J	15	B		
21FLGW 44059	10/29/2015	1006	1	Q	5.2	Q	7	B		
21FLGW 44059	4/26/2016	1006	5.2	Q	2	Q	2	U		
21FLGW 44059	10/18/2016	1006	16	Q	4.1	Q	3	B		
21FLGW 44059	4/26/2017	1006	2	Q	8.5	Q				
21FLGW 44061	10/31/2013	1006	2	U	2	B	2	U		

CHEMICAL TRACERS AND GENETIC MARKERS USED BY DEP

Chemical tracers of human waste:

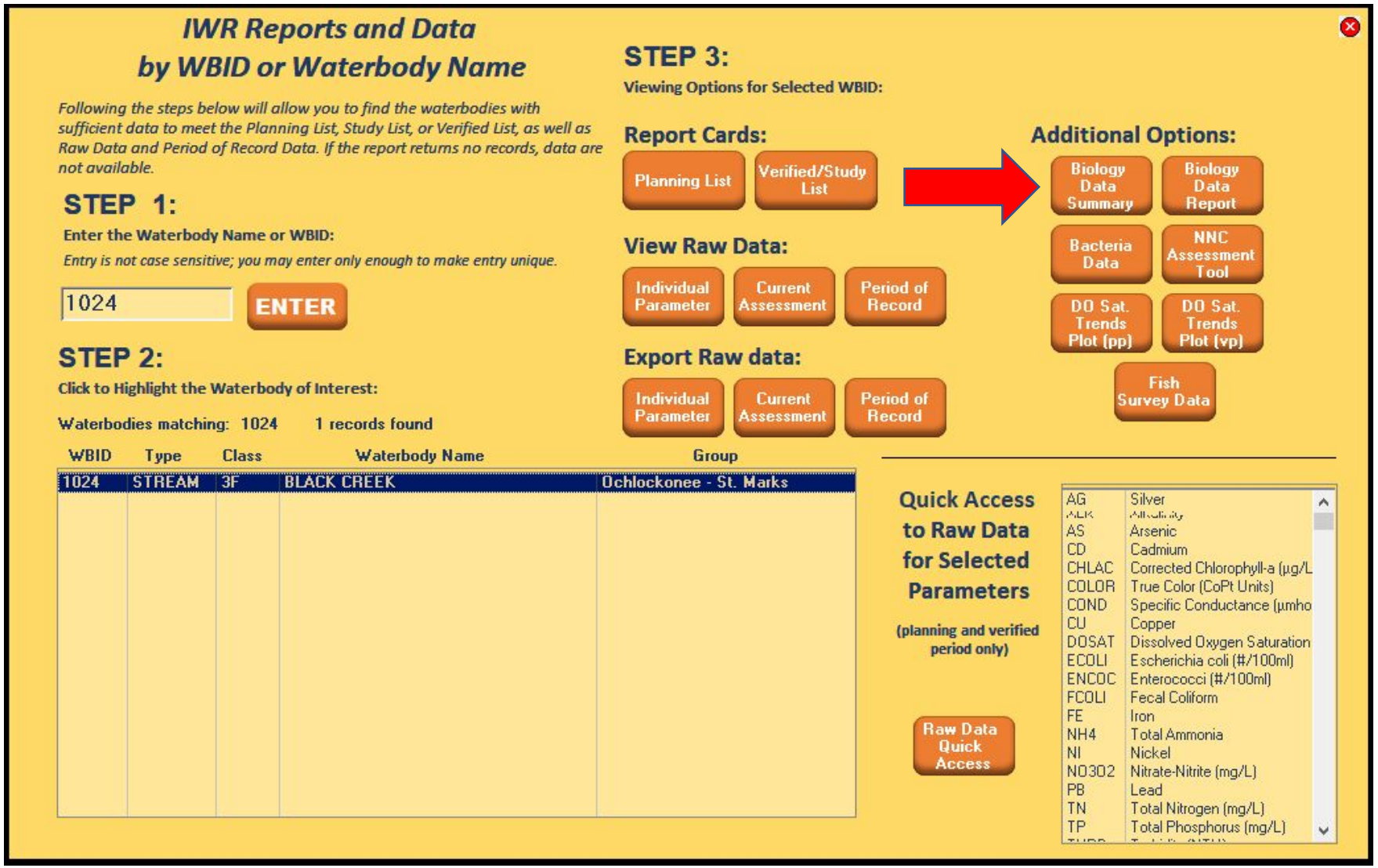
- Acesulfame K* (synthetic calorie-free sugar substitute)
- Acetaminophen (Tylenol®)*
- Carbamazepine (mood stabilizer)
- Hydrocodone (opiate analgesic)
- Ibuprofen (Advil®)*
- Naproxen (Aleve®)*
- Primidone (anticonvulsant)
- Sucralose (Splenda®)

Genetic markers used to detect waste from specific source types:

- Bird waste markers Gull2 and GFD
- Dog waste marker DG3
- Human waste markers HF-183 and HUMM2
- Ruminant waste marker BacR

* Analyte often removed from waste stream during wastewater treatment processes; these analytes cling to organics and settle out of the water column when exposed to the environment over days.

IWR RETRIEVAL TOOL – BIOLOGY DATA



Where can biology data be viewed?

IWR RETRIEVAL TOOL – BIOLOGY DATA

WBID: 1024

export POR Biology data

Waterbody Name: BLACK CREEK

Waterbody Type: STREAM **Waterbody Class:** 3F

Cycle: 4 **Group:** 1 **Group Name:** Ochlockonee - St. Marks

Planning Period				Verified Period			
WBID mean	75	Mean 1	72	WBID mean	74	Mean 1	79
# samples	4	Mean 2	77	# samples	4	Mean 2	72

Show data summary for: ○ *planning period* 01/01/2008 - 12/31/2017 ◉ *verified period* 01/01/2013 - 06/30/2020

Station	Station Name	Date	HA	LVI 2012	SCI 2012	BioRecon	RPS	LVS (Avg CofC)	LVS (FLEPPC)	LVS <2sqm
21FLPNS 22020063	Black Ck at CR 375, N of Ward	3/18/2015	132		68		0			y
21FLPNS 22020063	Black Ck at CR 375, N of Ward	10/15/2015	127		77		0			y
21FLPNS 22020063	Black Ck at CR 375, N of Ward	5/9/2017	123		72		0			y
21FLWQSP22020063	Blk375*Ref	4/23/2019	131		79		0			y

Detailed Assessment Information for the Current Cycle

Master Parameter	Assessment Status	Listing Threshold	Exceedances	Non-exceedances	Weeks	Seasons	Samples
Alkalinity	IM	6	20	10	30	4	30
Antimony	ID		0	1	1	1	1
Arsenic	NI	6	0	29	29	4	29
Biology	NI						
Cadmium	NI	6	0	29	29	4	29

NORTH BASINS 2020-2022

Master List Excerpt

Group Name	County	WBID	Waterbody Name	Waterbody Type	Waterbody Class [1]	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Pollutant of Concern for Dissolved Oxygen/Biology Assessment	Criterion Concentration or Threshold Not Met	† Previous Summary Assessment Category [2]	† Current Assessment Category [3]	† Integrated Report Category Summary Assessment	Summary Assessment Status	Priority for TMDL Development [4]	Planning Period Assessment Data [5]	Verified Period Assessment Data [5]	Comments
Suwannee	Levy	1313	Cow Creek	Stream	3F	Dissolved Oxygen (Percent Saturation)		≥ 38 %	3b	3b	3b	Insufficient Data		1/1	1/1	This waterbody has insufficient data available to assess for this parameter.
Suwannee	Levy	1313	Cow Creek	Stream	3F	Fluoride		≤ 10.0 mg/L	3b	3b	3b	Insufficient Data		0/1	0/1	This waterbody has insufficient data available to assess for this parameter.
Suwannee	Levy	1313	Cow Creek	Stream	3F	Nutrients (Chlorophyll-a Trend)		Increasing Trend in Chlorophyll-a Annual Geometric Means	3b	3b	3b	Insufficient Data		Insufficient Data	Insufficient Data	This waterbody has insufficient data available to assess for this parameter.
Suwannee	Levy	1313	Cow Creek	Stream	3F	Nutrients (Chlorophyll-a)		AGM ≤ 20 µg/L; > 3.2 to ≤ 20 µg/L	3b	3b	3b	Insufficient Data		AGM Insufficient Data	AGM Insufficient Data	This waterbody has insufficient data available to assess for this parameter. There are insufficient data to calculate an annual geometric mean.
Suwannee	Levy	1313	Cow Creek	Stream	3F	Nutrients (Total Nitrogen Trend)		Increasing Trend in Total Nitrogen Annual Geometric Means	3b	3b	3b	Insufficient Data		Insufficient Data	Insufficient Data	This waterbody has insufficient data available to assess for this parameter.
Suwannee	Levy	1313	Cow Creek	Stream	3F	Nutrients (Total Nitrogen)		AGM ≤ 1.54 mg/L	3b	3b	3b	Insufficient Data		AGM Insufficient Data	AGM Insufficient Data	This waterbody has insufficient data available to assess for this parameter. There are insufficient data to calculate an annual geometric mean.
Suwannee	Levy	1313	Cow Creek	Stream	3F	Nutrients (Total Phosphorus Trend)		Increasing Trend in Total Phosphorus Annual Geometric Means	3b	3b	3b	Insufficient Data		Insufficient Data	Insufficient Data	This waterbody has insufficient data available to assess for this parameter.
Suwannee	Levy	1313	Cow Creek	Stream	3F	Nutrients (Total Phosphorus)		AGM ≤ 0.12 mg/L	3b	3b	3b	Insufficient Data		AGM Insufficient Data	AGM Insufficient Data	This waterbody has insufficient data available to assess for this parameter. There are insufficient data to calculate an annual geometric mean.

NORTHEAST BASINS DATA PROVIDERS:

PERCENTAGE OF WATER QUALITY DATA FOR THE VERIFIED PERIOD

Data Provider	Percentage of Total
Alachua County Environmental Protection Department	0.35
City of Atlantic Beach	0.23
City of Jacksonville	3.99
City of Jacksonville Beach	0.09
City of Neptune Beach	0.06
Department of Agriculture and Consumer Services	12.44
Division of Environmental Health, Bureau of Water	0.58
Florida Department of Environmental Protection	29.61
Frydenborg Ecologic LLC	0.01
Guana Tolomato Matanzas (GTM) Estuarine	0.50
Howard T Odum Florida Springs Institute	1.81
Jacksonville Electric Authority	0.39
Naval Station Mayport	0.06
Southwest Florida Water Management District	0.16
St. John's River Water Management District	36.09
Suwannee River Water Management District	11.26
US Geological Survey Data	0.50
Volusia County Environmental Health Lab	1.86

Total Results: 999,300

This table lists data providers, including the US Geological Survey, and data loaders to STORET and WIN in alphabetical order. Biological data were separately submitted to the department by Alachua County Environmental Protection Department, Environmental Services & Permitting, Frydenborg EcoLogic, and Jones Edmunds and Associates.

NORTHEAST BASINS 2020-2022 VERIFIED LIST SUMMARY

Parameter	Lower St. Johns River	Nassau St Mary's	Suwanee	Upper East Coast	Total
Aluminum		2			2
Bacteria (Beach Advisories)		1			1
Copper	1				1
Dissolved Oxygen (Percent Saturation)	2			1	3
Enterococci	3			3	6
Escherichia coli	5		2	2	9
Fecal Coliform	1			2	3
Iron	5	6	5	4	20
Lead			1		1
Mercury (in fish tissue)		1		1	2
Nutrients (Algal Mats)	1				1
Nutrients (Chlorophyll-a)				3	3
Nutrients (Macrophytes)	3				1
Nutrients (Nitrate-Nitrite)			1		1
Nutrients (Total Nitrogen)	2		1	1	4
Nutrients (Total Phosphorous)	4	1	2	2	9
Total	**2**	**11**	**12**	**19**	**69**

- 14 new impairments for Enterococci / E. coli – 8 in Lower St. Johns, 1 in Suwannee, and 5 in Upper East Coast basins which have all been assessed previously for new criteria

NORTHEAST BASINS 2020-2022 DELIST LIST SUMMARY

Parameter	Lower St. Johns River	Nassau St Mary's	Suwanee	Upper East Coast	Total
Dissolved Oxygen (Percent Saturation)	1		1		2
Enterococci	1	1			2
Escherichia coli	2		4		6
Fecal Coliform	7		16	4	27
Nutrients (Chlorophyll-a)				1	1
Nutrients (Total Nitrogen)	2			1	3
Nutrients (Total Phosphorous)	2				2
Total	**15**	**1**	**21**	**6**	**43**

- 2 listings moving into category 2 Not Impaired for Halifax River (WBID 2363A)
- Chlorophyll-a & TN, AGMs did not exceed the ENR criteria in a three-year period and also attain for the three most recent consecutive years

NORTHEAST BASINS 2020-2022 STUDY LIST SUMMARY

Parameter	Lower St. Johns River	Nassau St Mary's	Suwanee	Upper East Coast	Total
Biology	1		4		5
Dissolved Oxygen (Percent Saturation)	4			1	5
Enterococci	11		1		12
Escherichia coli	17			2	19
Fecal Coliform			1		1
Nutrients (Algal Mats)			6		6
Nutrients (Chlorophyll-a)			2	1	3
Nutrients (Nitrate-Nitrite)			29		29
Nutrients (Total Nitrogen)	1		3		4
Nutrients (Total Phosphorous)		1	4		5
Total	**34**	**1**	**50**	**4**	**89**

- Counts above exclude previous 4d assessments that remain on the Study List in 4d; all other study listings are included
- 66 listings assessed in category 4e Ongoing Restoration Activities, 5 of which are new:
  - 1 Enterococci based on Lower St. Johns River Tributaries II BMAP, 2 Nutrients based on Suwannee River BMAP, and 1 Nutrient based on Santa Fe River BMAP

NORTHEAST BASINS 2020-2022 STUDY LIST REMOVALS SUMMARY

Parameter	Lower St. Johns River	Nassau St Mary's	Suwanee	Upper East Coast	Total
Biology		1			1
Dissolved Oxygen (Percent Saturation)	2		2	4	8
Enterococci	1				1
Escherichia coli	1				1
Nutrients (Chlorophyll-a)	1				1
Nutrients (Total Phosphorous)		1			1
Total	**5**	**2**	**2**	**4**	**13**

- 9 listings moving from the Study List into category 2 based on current data indicating they're not impaired, include DO and Nutrients


PUBLIC INVOLVEMENT
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BIENNIAL ASSESSMENT DRAFT 2020-2022 INTERACTIVE MAP

Watershed Assessment Section Quick Links

- News and Announcements
- Impaired Waters Listing Process
- Assessment Lists
- Contacts
- Subscribe
- Impaired Waters Rule (IWR)
  - NNC Stream Exclusion Template
- Strategic Monitoring Plans
  - Biology Template
- Alternative Restoration Plans

News & Announcements

Notice of Statewide 2020-2022 Biennial Assessment Draft Assessment Lists and Public Meetings

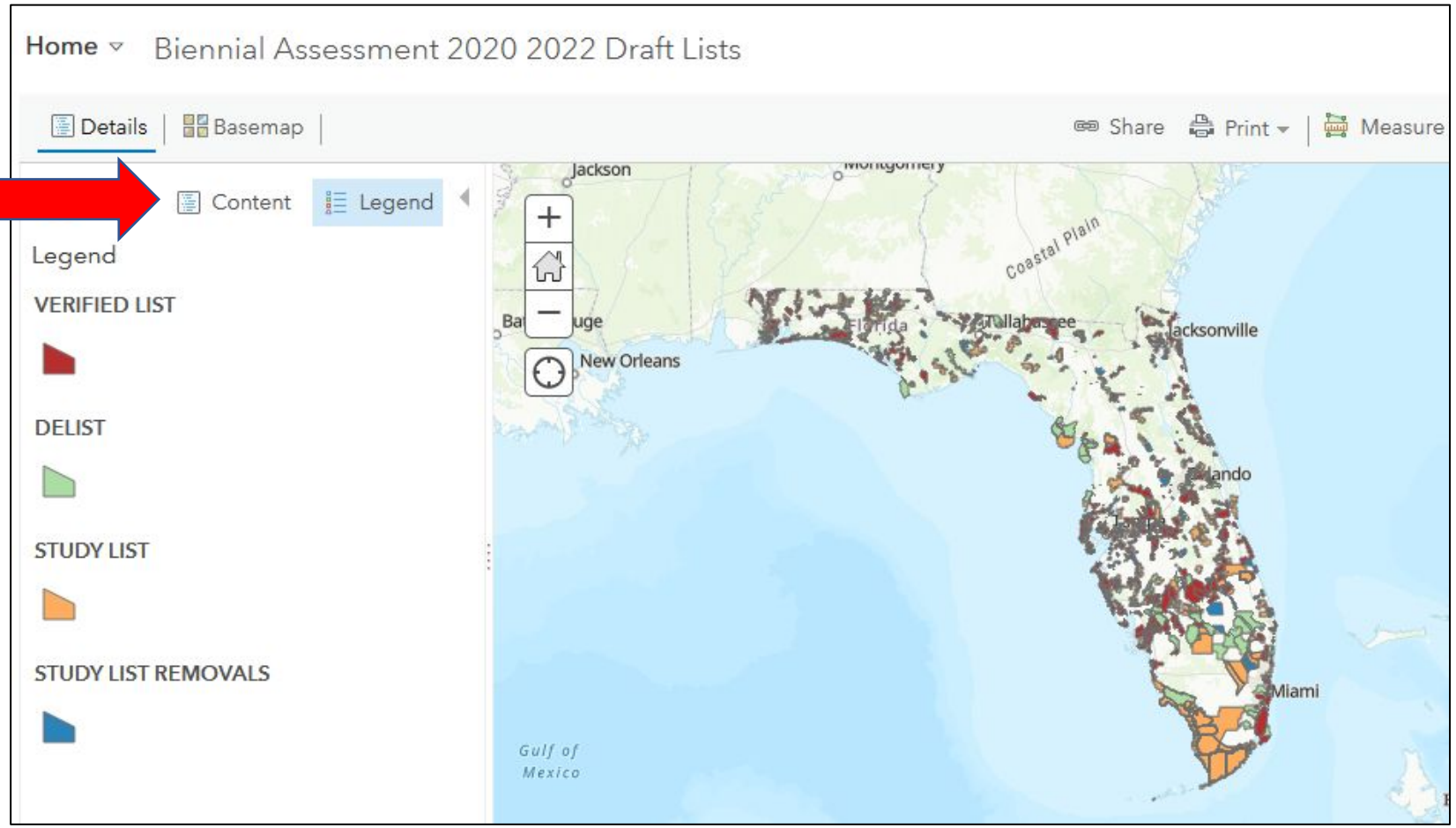
The Watershed Assessment Section announces the 2020-2022 Biennial Assessment Draft assessment lists of waterbodies and water segments. The **DRAFT assessment lists** were developed pursuant to Chapter 62-303, Florida Administrative Code (F.A.C.), and include all 29 basins in the state. The Draft Verified Lists include those waters that are proposed as additions to the State's Verified List of Impaired Waters and the Clean Water Act (CWA) section 303(d) list. The Draft Delist Lists include those waters that are proposed for removal from the State's Verified List and CWA section 303(d) list. The Draft Study Lists include those waters that do not attain water quality standards and additional information is needed to confirm attainment; there is an alternative restoration plan in place; waters that have an adverse trend in nutrients or nutrient response variables; or, there are exceedances of stream nutrient thresholds but the department does not have enough information to fully assess nonattainment of the stream nutrient water quality standard. The Draft Study Lists Removals include those waters that no longer meet the listing requirements for the Study List, as identified in Rule 62-303.390, F.A.C., and are submitted to EPA for removal from the CWA section 303(d) list.

In addition to the draft assessment lists in spreadsheet format, the department has published an interactive map titled "Biennial Assessment 2020-2022 Drafts Lists" that shows the geographic location of the waterbodies and waterbody segments by WBID that are proposed for addition to the Verified List, Delist List, Study List, or Study List Removals. For help using the interactive map features, please review this help file or alternatively, you may download the draft lists GIS shapefiles as a geodatabase.

Where can interactive map be accessed?

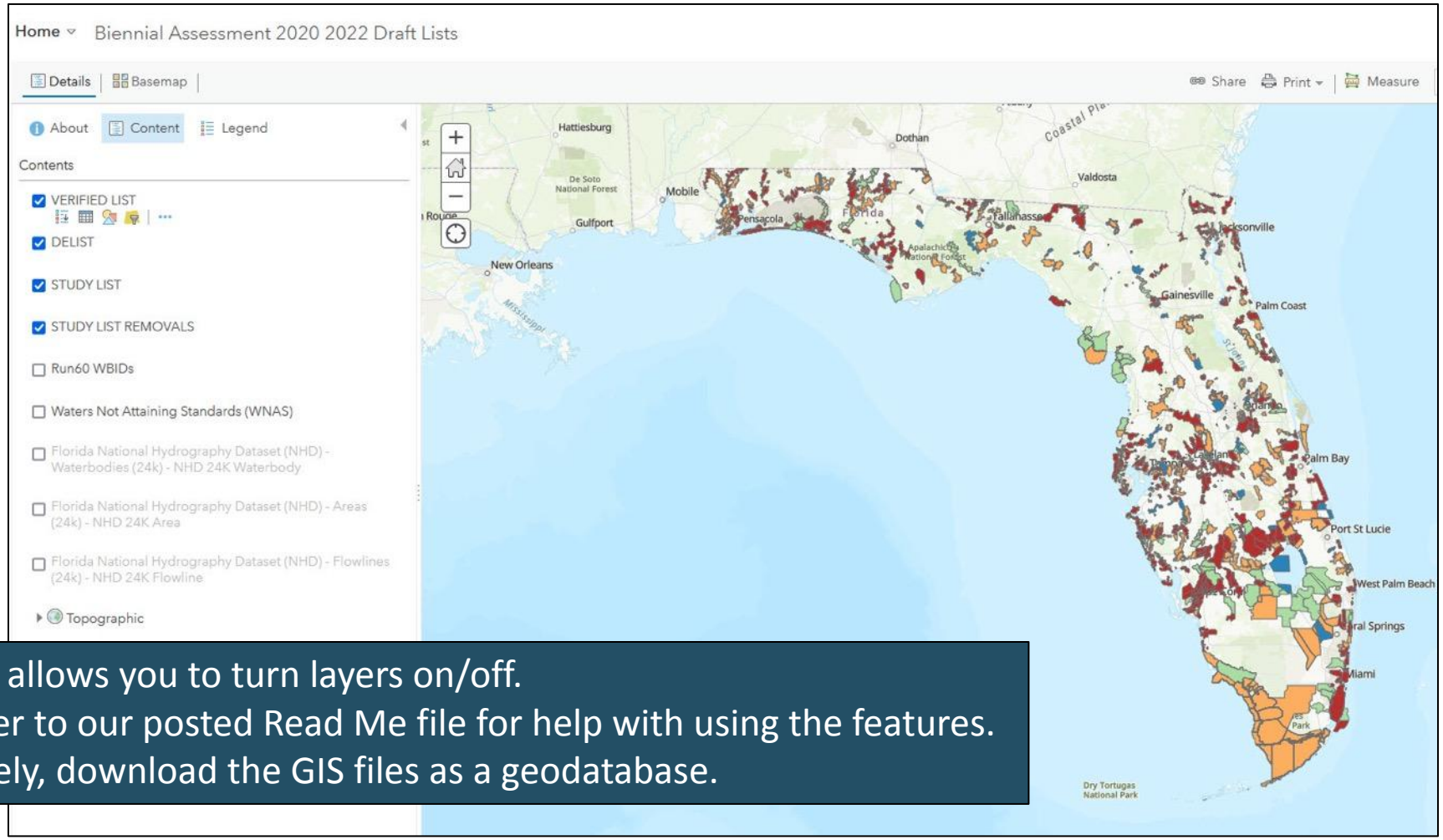
BIENNIAL ASSESSMENT DRAFT 2020-2022 INTERACTIVE MAP

Click Content tab for filter options



FDEP.maps.arcgis.com/home/webmap/viewer.html?webmap=84773af76da44c1fa20f7317279cdca7

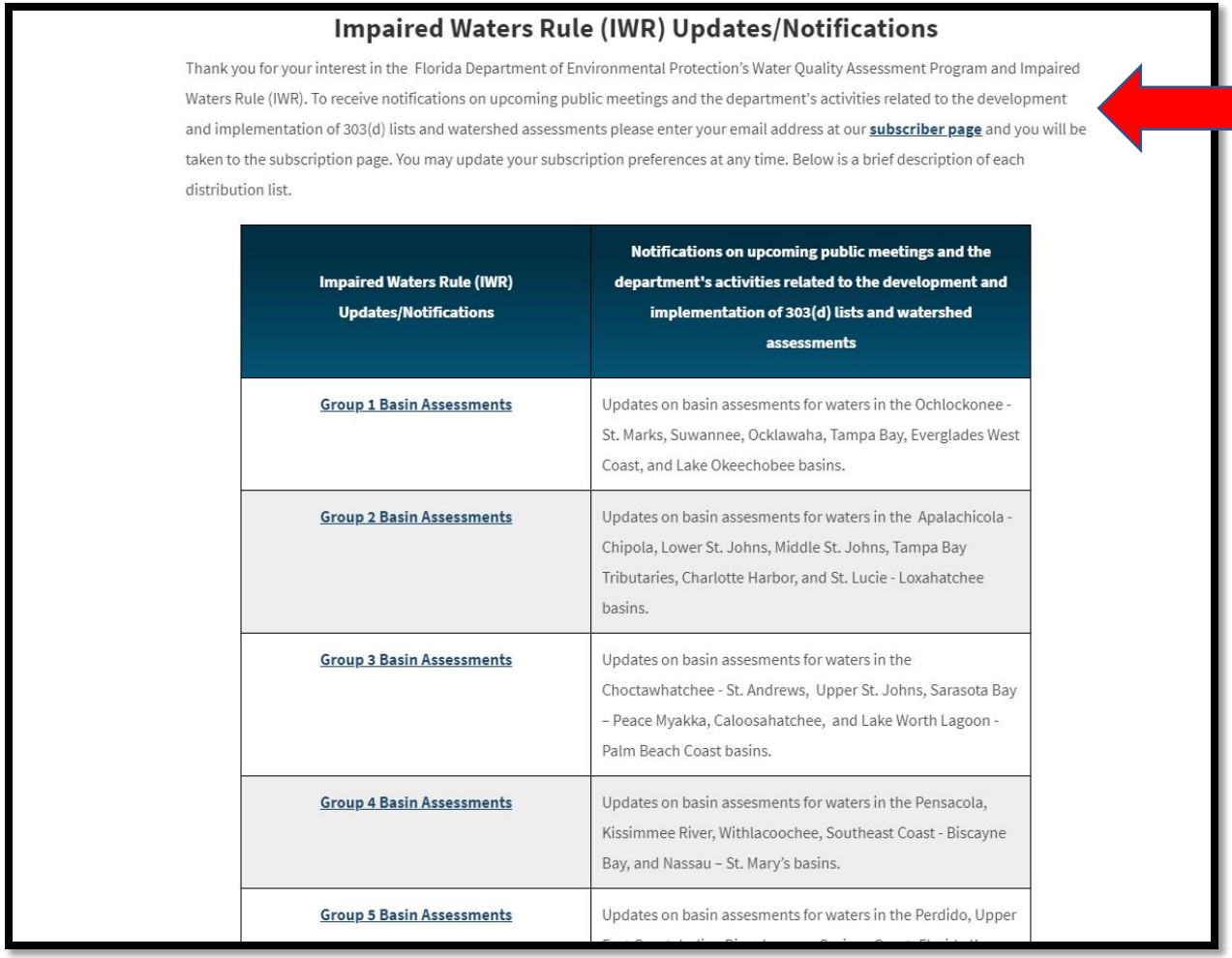
BIENNIAL ASSESSMENT DRAFT 2020-2022 INTERACTIVE MAP



- "Content" allows you to turn layers on/off.
- Please refer to our posted Read Me file for help with using the features.
- Alternatively, download the GIS files as a geodatabase.

HOW CAN THE PUBLIC GET INVOLVED? GOVDELIVERY

FloridaDEP.gov/dear/dear/content/subscribe#IWR



Impaired Waters Rule (IWR) Updates/Notifications

Thank you for your interest in the Florida Department of Environmental Protection's Water Quality Assessment Program and Impaired Waters Rule (IWR). To receive notifications on upcoming public meetings and the department's activities related to the development and implementation of 303(d) lists and watershed assessments please enter your email address at our **subscriber page** and you will be taken to the subscription page. You may update your subscription preferences at any time. Below is a brief description of each distribution list.

Impaired Waters Rule (IWR) Updates/Notifications	Notifications on upcoming public meetings and the department's activities related to the development and implementation of 303(d) lists and watershed assessments
Group 1 Basin Assessments	Updates on basin assesments for waters in the Ochlockonee - St. Marks, Suwannee, Ocklawaha, Tampa Bay, Everglades West Coast, and Lake Okeechobee basins.
Group 2 Basin Assessments	Updates on basin assesments for waters in the Apalachicola - Chipola, Lower St. Johns, Middle St. Johns, Tampa Bay Tributaries, Charlotte Harbor, and St. Lucie - Loxahatchee basins.
Group 3 Basin Assessments	Updates on basin assesments for waters in the Choctawhatchee - St. Andrews, Upper St. Johns, Sarasota Bay – Peace Myakka, Caloosahatchee, and Lake Worth Lagoon - Palm Beach Coast basins.
Group 4 Basin Assessments	Updates on basin assesments for waters in the Pensacola, Kissimmee River, Withlacoochee, Southeast Coast - Biscayne Bay, and Nassau – St. Mary's basins.
Group 5 Basin Assessments	Updates on basin assesments for waters in the Perdido, Upper

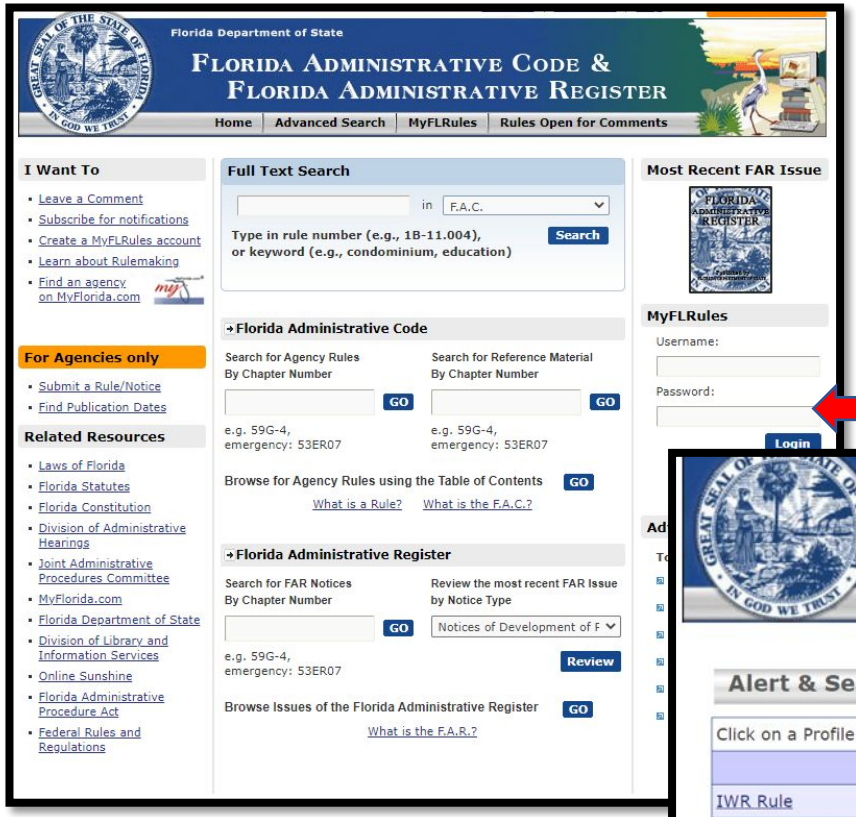
Click to subscribe to GovDelivery

GOVDELIVERY NOTIFICATION PROCESS FOR STAKEHOLDERS

- Stakeholders will receive a “Subscriber Import Notification” from FloridaDEP@public.govdelivery confirming contact information has been imported into the new system.
- Subscription topics include Impaired Waters Rule (IWR), Total Maximum Daily Load (TMDL), and Basin Management Action Plan (BMAP) announcements.

HOW CAN THE PUBLIC GET INVOLVED?
FAR

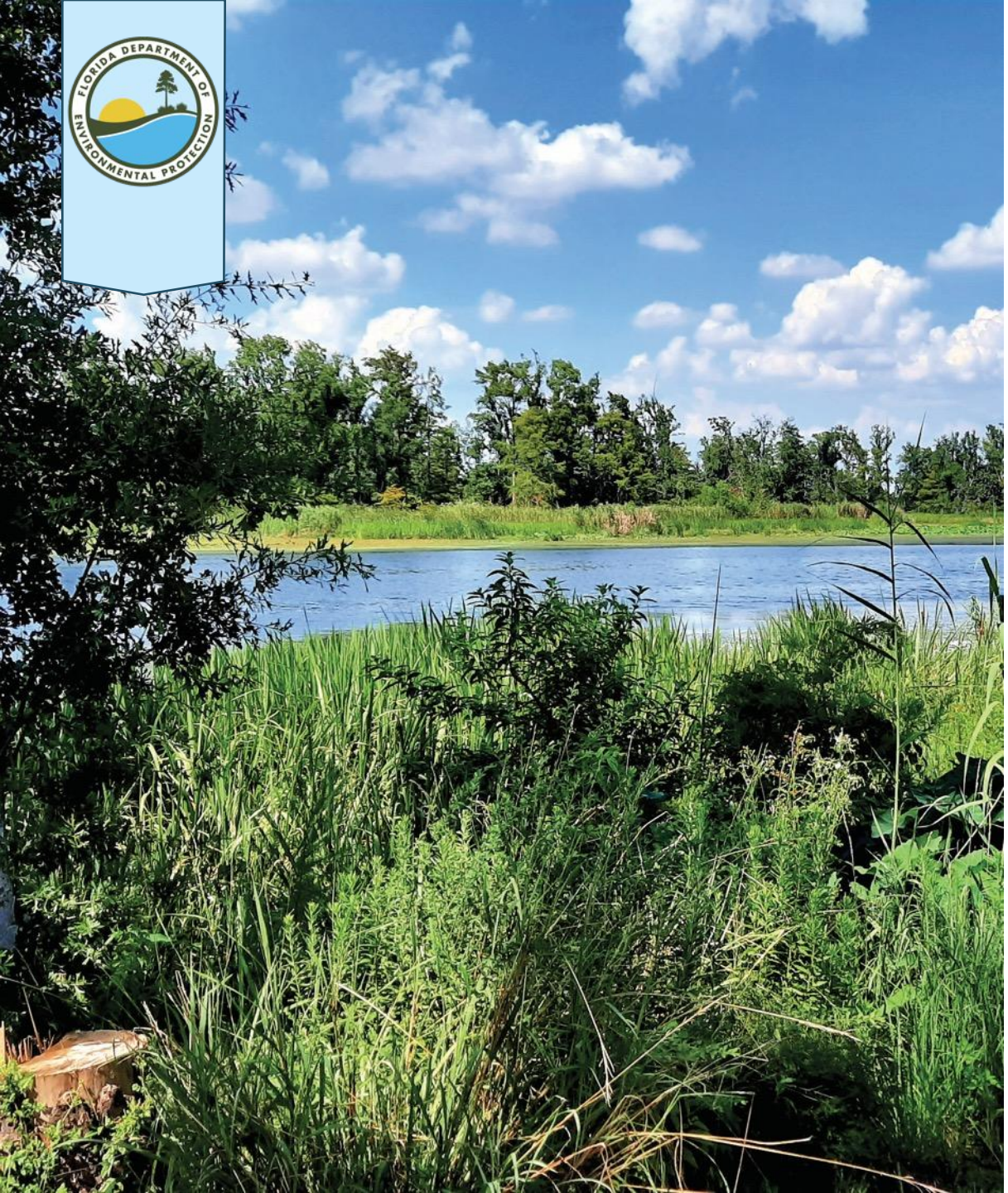
www.FLrules.org/



Click to create FAR account

LISTING SCHEDULE

- **SEPTEMBER** – Held three public meeting webinars to present Draft Basin Assessment Lists
- **OCTOBER/FEBRUARY** - Respond to Comments, Finalize Assessments; Note, an additional IWR Run will not be used prior to the adoption, and there will not be revised list published
- **END OF APRIL** - Schedule Briefing with Upper Management; Request/Hold Briefing with DEP Secretary
- **FOLLOWING THE ADOPTION** - Notification of the Order will be



COMMENT PERIOD

Comment period ends: **November 10, 2021**

E- MAIL: Kevin.Odonnell@FloridaDEP.gov

MAIL:
Kevin O'Donnell (Environmental Administrator)
Watershed Assessment Section
Florida Department of Environmental Protection
2600 Blair Stone Road, M.S. 3560
Tallahassee, Florida 32399-2400

The Public Comments that we receive will be posted to the Meeting Materials FTP site:

Publicfiles\pubfds\DEAR\watershed\WQETP_WAS_BA_2020-22_MtgMaterials_Draft

Kevin O'Donnell
Environmental Administrator
Assessment Section
(850) 245-8469
Kevin.ODonnell@FloridaDEP.gov

Katrina Yancey
Environmental Consultant
Northwest and Northeast Basins
(850) 245-8471
Katrina.Yancey@FloridaDEP.gov

Caryn Crabb
Environmental Specialist II
Northeast Basins
(850) 245-8433
Caryn.Crabb@FloridaDEP.gov

Ken Weaver
Program Administrator
Assessments and TMDL
(850) 245-8414
Kenneth.Weaver@FloridaDEP.gov

Jesse Pfadenhauer
Environmental Consultant
Northwest Basins
(850) 245-8415
Jesse.Pfadenhauer@FloridaDEP.gov

Benjamin Ralys
Environmental Consultant
Alternative Restoration Plans
(850) 245-8443
Benjamin.Ralys@FloridaDEP.gov


FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
THANK YOU