

EXHIBIT 8

2018 AMENDMENTS TO THE VERIFIED LIST OF IMPAIRED WATERS,
SPRINGS ASSESSMENTS

2018 Amendments to Nutrient Impaired Springs

OGC Case Number	Group	Group Name	Planning Unit	WBID	Waterbody Name	Waterbody Type	Waterbody Class ¹	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Criterion Concentration or Threshold Not Met	[†] Previous Cycle Summary Assessment Category ²	[†] Cycle 3 Assessment Category ³	[†] Integrated Report Category Summary Assessment	Summary Assessment Status	Planning Period Assessment Data ⁴	Verified Period Assessment Data ⁴	Comments
18-0923	1	Ocklawaha	Marshall Swamp Unit	2772A	Silver Springs	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4a	4a	Delist (TMDL Complete)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, it is being placed in category 4a because there is a DEP Adopted Nutrient TMDL. This waterbody will be assessed for nitrate-nitrite in future assessments and will be placed in category 4a (TMDL Complete) for that parameter. The department is removing it from the Verified List and requesting EPA remove this parameter from the 303(d) List.
18-0924	1	Ocklawaha	Marshall Swamp Unit	2772C	Silver Springs Group	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4a	4a	Delist (TMDL Complete)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, it is being placed in category 4a because there is a DEP Adopted Nutrient TMDL. This waterbody will be assessed for nitrate-nitrite in future assessments and will be placed in category 4a (TMDL Complete) for that parameter. The department is removing it from the Verified List and requesting EPA remove this parameter from the 303(d) List.
18-0925	1	Ocklawaha	Marshall Swamp Unit	2772E	Silver River Upper	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4a	4a	Delist (TMDL Complete)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, it is being placed in category 4a because there is a DEP Adopted Nutrient TMDL. This waterbody will be assessed for nitrate-nitrite in future assessments and will be placed in category 4a (TMDL Complete) for that parameter. The department is removing it from the Verified List and requesting EPA remove this parameter from the 303(d) List.
18-0926	1	Suwannee	Withlacoochee River	3315Z	Blue Spring (Madison County)	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4e	4e	Delist (Ongoing Restoration Activities)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, this waterbody is impaired based on the nitrate-nitrite annual geometric means and will be assessed for that parameter in future assessments. This parameter is being placed in category 4e because there are restoration activities identified in the Withlacoochee, Middle and Lower Suwannee Basin Management Action Plan that will address nutrient impairments. The department is removing this parameter from the Verified List and placing it on the Study List; however, it will remain on the 303(d) List.
18-0927	1	Suwannee	Aucilla River	3424Z	Wacissa Spring	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4a	4a	Delist (TMDL Complete)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, it is being placed in category 4a because there is a DEP Adopted Nutrient TMDL. This waterbody will be assessed for nitrate-nitrite in future assessments and will be placed in category 4a (TMDL Complete) for that parameter. The department is removing it from the Verified List and requesting EPA remove this parameter from the 303(d) List.
18-0928	1	Suwannee	Santa Fe River	3519Z	Ichetucknee Head Spring	Spring	3F	Nutrients (Nitrate-Nitrite)	≤ 0.35 mg/L	5	4e	4e	Delist (Ongoing Restoration Activities)	AGM(s) 2006 (0.76 mg/L) 2007 (0.86 mg/L) 2008 (0.89 mg/L) 2009 (0.87 mg/L) 2010 (0.85 mg/L) 2011 (0.87 mg/L) 2012 (0.87 mg/L) 2013 (0.78 mg/L) 2014 (0.77 mg/L)	AGM(s) 2011 (0.87 mg/L) 2012 (0.87 mg/L) 2013 (0.78 mg/L) 2014 (0.77 mg/L)	This waterbody is impaired for this parameter because the annual geometric means exceeded the criterion more than once in a three year period. This parameter is being placed in category category 4e (Ongoing Restoration) because there are restoration activities identified in the Santa Fe River Basin Management Action Plan that will address nutrient impairments. The department is removing this parameter from the Verified List; however it will remain on the 303(d) List.
18-0929	2	Middle St. Johns	Lake Monroe Unit	2893	Gemini Springs	Spring	3F	Nutrients (Nitrate-Nitrite)	≤ 0.35 mg/L	5	4a	4a	Delist (TMDL Complete)	AGM(s) 2008 (1.20 mg/L) 2009 (1.20 mg/L) 2010 (1.19 mg/L) 2011 (1.08 mg/L) 2012 (1.05 mg/L) 2013 (1.06 mg/L)	AGM(s) 2012 (1.05 mg/L) 2013 (1.06 mg/L)	This waterbody is impaired for this parameter based on the annual geometric means exceeding the criterion more than once in a three year period. It is being delisted from the Verified List and placed in category 4a because there is a DEP Adopted nutrient TMDL. There are restoration activities identified in the Lake Hamet, Lake Monroe, Middle St. Johns River and Smith Canal Basin Management Action Plan that will address nutrient impairments. The department is removing this parameter from the Verified List and requesting EPA to remove this parameter from the 303(d) List.

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18-0930	2	Middle St. Johns	Lake Woodruff Unit	28933	Blue Spring (Volusia County)	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4a	4a	Delist (TMDL Complete)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, it is being placed in category 4a because there is a DEP Adopted Nutrient TMDL. This waterbody will be assessed for nitrate-nitrite in future assessments and will be placed in category 4a (TMDL Complete) for that parameter. The department is removing it from the Verified List and requesting EPA remove this parameter from the 303(d) List.
18-0931	2	Middle St. Johns	Lake Woodruff Unit	2921A	Deleon Spring (Volusia)	Spring	3F	Nutrients (Nitrate-Nitrite)	≤ 0.35 mg/L	5	4a	4a	Delist (TMDL Complete)	AGM(s) 2007 (0.48 mg/L) 2008 (0.53 mg/L) 2009 (0.78 mg/L) 2010 (0.74 mg/L) 2011 (0.55 mg/L) 2012 (0.52 mg/L) 2013 (0.51 mg/L)	AGM(s) 2012 (0.52 mg/L) 2013 (0.51 mg/L)	This waterbody is impaired for this parameter based on the annual geometric means exceeding the criterion more than once in a three year period. It is being delisted from the Verified List and placed in category 4a because there is a DEP Adopted nutrient TMDL. There are restoration activities identified in the Deleon Spring Basin Management Action Plan that will address nutrient impairments. The department is removing this parameter from the Verified List and requesting EPA to remove this parameter from the 303(d) List.
18-0932	1	Suwannee	Middle Suwannee	3483	Peacock Springs	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4e	4e	Delist (Ongoing Restoration Activities)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, this waterbody is impaired based on the nitrate-nitrite annual geometric means and will be assessed for that parameter in future assessments. This parameter is being placed in category 4e because there are restoration activities identified in the Withlacoochee, Middle and Lower Suwannee Basin Management Action Plan that will address nutrient impairments. The department is removing this parameter from the Verified List and placing it on the Study List; however, it will remain on the 303(d) List.
18-0933	1	Suwannee	Middle Suwannee	3528Z	Lafayette Blue Springs	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4e	4e	Delist (Ongoing Restoration Activities)	08/25/2014: 81% 12/10/2014: 32%	08/25/2014: 81% 12/10/2014: 32%	This waterbody was impaired based on site-specific documentation in a previous cycle. There are failing Rapid Periphyton Survey results to assess for this waterbody; however, this waterbody is also impaired based on the nitrate-nitrite annual geometric means and will be assessed for that parameter in future assessments. This parameter is being placed in category 4e because there are restoration activities identified in the Withlacoochee, Middle and Lower Suwannee Basin Management Action Plan that will address nutrient impairments. The department is removing this parameter from the Verified List and placing it on the Study List; however, it will remain on the 303(d) List.
#	1	Suwannee	Santa Fe River	3605S	Devil's Ear Spring	Spring	3F	Nutrients (Nitrate-Nitrite)	≤ 0.35 mg/L	NA	4e	4e	Ongoing Restoration Activities	AGM(s) 2006 (1.45 mg/L) 2007 (1.52 mg/L) 2008 (1.42 mg/L) 2009 (ID) 2010 (1.57 mg/L) 2011 (1.62 mg/L) 2012 (1.11 mg/L) 2013 (1.54 mg/L) 2014 (1.88 mg/L) 2015 (1.83 mg/L)	AGM(s) 2011 (1.62 mg/L) 2012 (1.11 mg/L) 2013 (1.54 mg/L) 2014 (1.88 mg/L) 2015 (1.83 mg/L)	This waterbody is impaired for this parameter because the annual geometric means exceeded the criterion more than once in a three year period. This parameter is being placed in category category 4e (Ongoing Restoration) because there are restoration activities identified in the Santa Fe River Basin Management Action Plan that will address nutrient impairments. The department is adding this parameter to the Study List and requesting EPA add this to the 303(d) List.
#	1	Suwannee	Santa Fe River	3653Z	Hornsby Spring	Spring	3F	Nutrients (Nitrate-Nitrite)	≤ 0.35 mg/L	NA	4e	4e	Ongoing Restoration Activities	AGM(s) 2006 (0.65 mg/L) 2007 (0.43 mg/L) 2008 (0.19 mg/L) 2009 (0.26 mg/L) 2010 (0.41 mg/L) 2011 (0.38 mg/L)	2011 (0.38 mg/L)	This waterbody is impaired for this parameter because the annual geometric means exceeded the criterion more than once in a three year period. This parameter is being placed in category category 4e (Ongoing Restoration) because there are restoration activities identified in the Santa Fe River Basin Management Action Plan that will address nutrient impairments. The department is adding this parameter to the Study List and requesting EPA add this to the 303(d) List.

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18-0934	2	Apalachicola - Chipola	Chipola River	180Z	Jackson Blue Spring	Spring	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4a	4a	Delist (TMDL Complete)	No Data	No Data	This waterbody was impaired based on site-specific documentation in a previous cycle. There are no Rapid Periphyton Survey results to assess for this waterbody; however, it is being placed in category 4a because there is a DEP Adopted Nutrient TMDL. This waterbody will be assessed for nitrate-nitrite in future assessments and will be placed in category 4a (TMDL Complete) for that parameter. The department is removing it from the Verified List and requesting EPA remove this parameter from the 303(d) List.
18-0935	4	Withlacoochee	Rainbow River	1320	Rainbow River (Blue Run)	Stream	3F	Nutrients (Algal Mats)	RPS ≤ 25%, or when between 20% - 25% Evaluation of Algal Autoecological Data Indicates No Imbalance	5	4e	4e	Delist (Ongoing Restoration Activities)	No Data	8/21/2014: 25.25% 1/13/2016: 27.27% 6/8/2016: 86.46%	This waterbody is impaired for this parameter based on failing rapid periphyton survey results. This parameter was previously verified as impaired for this waterbody based on "other information" that indicated an imbalance in flora or fauna. It is included in two spring reports, "Florida Springs Initiative Monitoring Network Report and Recognized Sources of Nitrate February 2010" and "2011 Rainbow River Vegetation Evaluation" by Atkins. This parameter is being placed in category 4e because the Rainbow Springs Basin Management Action Plan (BMAP) is being implemented to address nutrient impairments. Table 9 in the BMAP document outlines the current and upcoming projects intended to address the nutrient impairment. The department is removing this parameter from the Verified List and placing it on the Study List; however, it will remain on the 303(d) List.

^{*}OGC Case Numbers are included for impairments that revise the Verified List of Impaired Waters, but are not necessary for waterbody impairments being placed only on the Study List.

¹ Florida's waterbody classifications are defined as:

- 1 - Potable water supplies
- 2 - Shellfish propagation or harvesting
- 3F - Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife in fresh water
- 3M - Recreation, propagation, and maintenance of a healthy, well-balanced population of fish and wildlife in marine water
- 4 - Agricultural water supplies
- 5 - Navigation, utility, and industrial use

² The Cycle 1 assessment was completed in 2009 and included data from that Verified Period (January 1, 1999 through June 30, 2006).

The Cycle 2 assessment was completed in 2012 and included data from the Verified Period (January 1, 2004 through June 30, 2011).

³ The Cycle 3 assessment is the current assessment and includes data from the Planning Period (January 1, 2005 through December 31, 2014) and the Verified Period (January 1, 2010 through June 30, 2017).

[†] EPA's Integrated Report Category:

- 1 - Attains all designated uses.
- 2 - Attains some designated uses and insufficient or no information or data are present to determine if remaining uses are attained.
- 3a - No data and information are present to determine if any designated use is attained.
- 3b - Some data and information are present but not enough to determine if any designated use is attained.
- 3c - Enough data and information are present to determine that one or more designated uses may not be attained according to the Planning List methodology.
- 4a - Impaired for one or more designated uses but does not require TMDL development because a TMDL has already been completed.
- 4b - Impaired for one or more designated uses but does not require TMDL development because the water will attain water quality standards due to existing or proposed measures.
- 4c - Impaired for one or more criteria or designated uses but does not require TMDL development because impairment is not caused by a pollutant.
- 4d - Waterbody indicates nonattainment of water quality standards, but the Department does not have enough information to determine a causative pollutant; or current data show a potentially 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 standard.
- 4e - Waterbody indicates nonattainment of water quality standards and pollution control mechanisms or restoration activities are in progress or planned to address nonattainment of water quality standards, but the Department does not have enough information to fully evaluate whether proposed pollution mechanisms will result in attainment of water quality standards.
- 5 - Water quality standards are not attained and a TMDL is required.

⁴ Where data are presented as x/y, x represents the number of exceedances and y represents the total number of samples;

except for "Fecal Coliform (3)", where x represents the number of stations where the median value was exceeded, and y represents the total number of stations that have sufficient data to calculate the median value in the WBID.

Abbreviations: WBID - Waterbody Identification; NA - Not Applicable, does not apply, or was not assessed in the previous cycle (i.e. it's a new WBID, waterbody type change, etc.);

ENR - Estuary Nutrient Region; AAM - Annual Arithmetic Mean; AGM - Annual Geometric Mean; LTA - Long Term Average; LTAAM - Long Term Annual Arithmetic Mean. Q1 - Quarter 1; Q2 - Quarter 2; Q3 - Quarter 3; Q4 - Quarter 4.

The 2018 Amendments for Nutrient Impaired Springs List is based on IWR Run 54 and the Impaired Waters Rule (IWR), Chapter 62-303, Florida Administrative Code, with the effective date of February 17, 2016.