

Southeast District - Biennial Assessment 2020-2022 FINAL Delist List

Basins: Everglades, Kissimmee River, Lake Okeechobee, Lake Worth Lagoon - Palm Beach Coast, Southeast Coast - Biscayne Bay, St. Lucie - Loxahatchee

OGC Case Number	Group Name	County	WBID	Waterbody Name	Waterbody Type	Waterbody Class ¹	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Criterion Concentration or Threshold Not Met	[†] Previous Summary Assessment Category ²	[†] Current Assessment Category ³	[†] Integrated Report Category Summary Assessment	Summary Assessment Status	Planning Period Assessment Data ⁴	Verified Period Assessment Data ⁴	Comments
22-1331	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3226E1	Lake Worth Lagoon (Northern Segment)	Estuary	3M	Nutrients (Chlorophyll-a)	ENRR1: AGM ≤ 2.9 µg/L	5	2	2	Delist (Not Impaired)	ENRR1 (AGM) 2008 (2.1 µg/L) 2009 (1.5 µg/L) 2010 (2.0 µg/L) 2011 (1.7 µg/L) 2012 (2.8 µg/L) 2013 (3.1 µg/L) 2014 (3.2 µg/L) 2015 (2.6 µg/L) 2016 (3.6 µg/L) 2017 (3.3 µg/L)	ENRR1 (AGM) 2014 (3.2 µg/L) 2015 (2.6 µg/L) 2016 (3.6 µg/L) 2017 (3.3 µg/L) 2018 (2.0 µg/L) 2019 (2.6 µg/L) 2020 (1.3 µg/L)	This waterbody is not impaired for this parameter because the annual geometric means did not exceed the applicable ENR criteria in a three year period and attains the magnitude of the criterion for the three most recent consecutive years. This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List.
22-1332	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3226EB	Phil Foster Park	Beach	3M	Bacteria (Beach Advisories)	< 21 days of beach advisories	5	2	2	Delist (Not Impaired)	Beach Advisories 2008 (0 days) 2009 (1 days) 2010 (4 days) 2011 (37 days) 2012 (2 days) 2013 (9 days) 2014 (2 days) 2015 (0 days) 2016 (4 days) 2017 (5 days)	Beach Advisories 2013 (9 days) 2014 (2 days) 2015 (0 days) 2016 (4 days) 2017 (5 days) 2018 (6 days) 2019 (12 days)	This waterbody is not impaired for this parameter because there were fewer than 21 days of advisories in any one year during the verified period, for five consecutive years. Beach WBID assessment is based on beach advisory information received from DOH. This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List.
22-1335	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3233A	L-8	Stream	3F	Nutrients (Chlorophyll-a)	AGM ≤ 20 µg/L	5	3b	3b	Delist (Insufficient Data)	AGM 2013 (4.0 µg/L) 2017 (10.4 µg/L)	AGM 2013 (4.0 µg/L) 2017 (10.4 µg/L) 2018 (6.0 µg/L) 2019 (6.4 µg/L)	This waterbody is not impaired for this parameter because the annual geometric means did not exceed the nutrient threshold in a three year period. The assessment category is 3b (Insufficient Data) because biological or site-specific data are needed to determine whether or not the waterbody fully attains the designated use. This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List.
22-1336	Everglades	Palm Beach	3238	West Palm Beach Canal	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	4d	4d	Delist (Study List)	209/785	96/555	This waterbody is impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients were identified as the causative pollutant in the previous assessment, but are not impaired based on data in the current verified period. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1337	Everglades	Palm Beach	3238	West Palm Beach Canal	Stream	3F	Nutrients (Chlorophyll-a)	AGM ≤ 20 µg/L	5	3b	3b	Delist (Insufficient Data)	AGM 2015 (31 µg/L) 2017 (12.4 µg/L)	AGM 2015 (31 µg/L) 2017 (12.4 µg/L) 2018 (5.2 µg/L) 2019 (10.0 µg/L)	This waterbody is not impaired for this parameter because the annual geometric means did not exceed the nutrient threshold in a three year period. The assessment category is 3b (Insufficient Data) because biological or site-specific data are needed to determine whether or not the waterbody fully attains the designated use. This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List.
22-1338	Everglades	Palm Beach	3238E	M-Canal	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	4d	4d	Delist (Study List)	69/419	25/181	This waterbody is impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients were identified as the causative pollutant in the previous assessment, but are not impaired based on data in the current verified period. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1339	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3245B	Lake Clarke	Lake	3F	Fecal Coliform	≤ 400 Counts / 100 mL	5	2	2	Delist (Not Impaired)	14/141	0/40	This waterbody is not impaired for this parameter based on the number of exceedances for the sample size. The exceedance rate meets the delisting requirements of Table 4 as described in 62-303.720, F.A.C. This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List.
22-1340	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3245C1	Lake Mangonia	Lake	1	Fecal Coliform	≤ 400 Counts / 100 mL	5	NA	NA	Delist (Not Applicable)	9/41	5/24	This waterbody was previously listed as impaired on the Verified List for this parameter; however, fecal coliform bacteria is no longer assessed to determine impairment for this waterbody classification per 62-302.530, F.A.C. Escherichia coli is not impaired for this waterbody. This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List per 62-303.720(2)(L), F.A.C.

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OGC Case Number	Group Name	County	WBID	Waterbody Name	Waterbody Type	Waterbody Class ¹	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Criterion Concentration or Threshold Not Met	[†] Previous Summary Assessment Category ²	[†] Current Assessment Category ³	[†] Integrated Report Category Summary Assessment	Summary Assessment Status	Planning Period Assessment Data ⁴	Verified Period Assessment Data ⁴	Comments
22-1341	Everglades	Palm Beach	3248	New River Canal (North Segment)	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	4d	4d	Delist (Study List)	56/203	27/124	This waterbody is impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients were identified as the causative pollutant in the previous assessment, but are not impaired based on data in the current verified period. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1342	Everglades	Palm Beach	3248A	Hillsboro Canal	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	2	4d	Delist (Study List)	20/44	4/26	This waterbody is not impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients were identified as the causative pollutant in the previous assessment, but are not impaired based on data in the current verified period. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1343	Everglades	Palm Beach, Hendry	3250	S-236	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	4d	4d	Delist (Study List)	54/106	20/35	This waterbody is impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients were identified as the causative pollutant in a previous assessment, but are no longer impaired. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1344	Everglades	Palm Beach	3253	South Bay	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	4d	4d	Delist (Study List)	21/61	8/9	This waterbody is impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients identified as the causative pollutant in the previous assessment, but are not impaired based on data in the current verified period. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1345	Everglades	Palm Beach	3254	Hillsboro Canal	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	4d	4d	Delist (Study List)	121/451	32/183	This waterbody is impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients were identified as the causative pollutant in the previous assessment, but are not impaired based on data in the current verified period. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1346	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3256A	Lake Osborne	Lake	3F	Biology	Average score of at least two temporally independent LVI scores ≥ 43; or either of the two most recent LVI scores ≥ 43; or if there are only two LVI scores and there is less than or equal to a 20 point difference.	5	4d	4d	Delist (Study List)	LVI (n=6) Mean 1 (23), Mean 2 (43)	LVI (n=3) WBID Mean (31) Mean 1 (27), Mean 2 (23)	This waterbody is impaired for this parameter based on failing bioassessments but is being placed in category 4d per 62-303.720(2)(o), F.A.C. because the causative pollutant identified in the previous assessment was incorrect. Nutrients were identified as the causative pollutant but are not impaired based on data in the current verified period. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1347	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3256A	Lake Osborne	Lake	3F	Nutrients (Chlorophyll-a)	AGM ≤ 20 µg/L	5	2	2	Delist (Not Impaired)	AGM 2008 (25 µg/L) 2009 (16 µg/L) 2010 (16 µg/L) 2011 (17 µg/L) 2012 (26 µg/L) 2013 (29 µg/L) 2014 (20 µg/L) 2015 (15 µg/L) 2016 (11 µg/L)	AGM 2013 (29 µg/L) 2014 (20 µg/L) 2015 (15 µg/L) 2016 (11 µg/L) 2018 (8 µg/L) 2019 (16 µg/L)	This waterbody is not impaired for this parameter because the annual geometric means did not exceed the nutrient criteria for a high color lake more than once in a three year period and attains the magnitude of the criterion for the most recent consecutive three year period (2014 - 2016). This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List.
22-1348	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3256A	Lake Osborne	Lake	3F	Nutrients (Total Phosphorus)	Chl-a AGM ≤ 20 µg/L, TP AGM ≤ 0.16 mg/L; If Chl-a has insufficient or No Data to calculate AGM or if Chl-a AGM > 20 µg/L, TP AGM ≤ 0.05 mg/L	5	2	2	Delist (Not Impaired)	AGM 2008 (0.03 mg/L) 2009 (0.10 mg/L) 2010 (0.06 mg/L) 2011 (0.05 mg/L) 2012 (0.06 mg/L) 2013 (0.07 mg/L) 2014 (0.06 mg/L) 2015 (0.07 mg/L) 2016 (0.04 mg/L)	AGM 2013 (0.07 mg/L) 2014 (0.06 mg/L) 2015 (0.07 mg/L) 2016 (0.04 mg/L) 2018 (0.07 mg/L) 2019 (0.05 mg/L)	This waterbody is not impaired for this parameter because the annual geometric means did not exceed the nutrient criteria for a high color lake more than once in a three year period and attains the magnitude of the criterion for the most recent consecutive three year period (2014 - 2016). This parameter is being removed from the Verified List and the department is requesting EPA remove it from the 303(d) List.

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22-1349	Everglades	Palm Beach,Hendry	3260	S-8	Stream	3F	Dissolved Oxygen (Percent Saturation)	≥ 38 %	5	4d	4d	Delist (Study List)	256/886	141/442	This waterbody is impaired for this parameter based on the number of exceedances for the sample size, but is being placed in category 4d per 62-303.720(2)(o), F.A.C. Nutrients were identified as the causative pollutant in the previous assessment, but are not impaired based on data in the current verified period. Samples used in this assessment were evaluated against a time of day adjustment as described in 62-303.420(9), F.A.C. This parameter is being removed from the Verified List but will remain on the 303(d) List.
22-1350	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3262	E-4 Canal	Stream	3F	Nutrients (Chlorophyll-a)	AGM ≤ 20 µg/L	5	3b	3b	Delist (Insufficient data)	AGM 2008 (15.0 µg/L) 2013 (15.4 µg/L) 2014 (23 µg/L) 2015 (18.8 µg/L) 2016 (14.4 µg/L) 2017 (17.6 µg/L)	AGM 2013 (15.4 µg/L) 2014 (23 µg/L) 2015 (18.8 µg/L) 2016 (14.4 µg/L) 2017 (17.6 µg/L) 2018 (9.1 µg/L) 2019 (13.7 µg/L)	This waterbody is not impaired for this parameter because the annual geometric means did not exceed the nutrient threshold more than once in a three year period and attains the magnitude of the criterion for the three most recent consecutive years. This parameter is being removed from the Verified List, placed in category 3b (Insufficient Data) based on insufficient biological data, and the department is requesting EPA remove it from the 303(d) List.
22-1351	Lake Worth Lagoon - Palm Beach Coast	Palm Beach	3262D	E-3 Canal	Stream	3F	Nutrients (Chlorophyll-a)	AGM ≤ 20 µg/L	5	3b	3b	Delist (Insufficient data)	AGM 2008 (16.8 µg/L) 2009 (6.1 µg/L) 2010 (10.8 µg/L) 2011 (19.8 µg/L) 2012 (18.8 µg/L) 2013 (29 µg/L) 2014 (29 µg/L) 2015 (7.2 µg/L) 2016 (11.5 µg/L) 2017 (14.4 µg/L)	AGM 2013 (29 µg/L) 2014 (29 µg/L) 2015 (7.2 µg/L) 2016 (11.5 µg/L) 2017 (14.4 µg/L) 2018 (13.2 µg/L) 2019 (14.2 µg/L)	This waterbody is not impaired for this parameter because the annual geometric means did not exceed the nutrient threshold more than once in a three year period and attains the magnitude of the criterion for the three most recent consecutive years. This parameter is being removed from the Verified List, placed in category 3b (Insufficient Data) based on insufficient biological data, and the department is requesting EPA remove it from the 303(d) List.

¹ Florida's waterbody classifications are defined as:

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

² The previous summary assessment is based on the most recent basin assessment. The basin list adoptions are as follows: Group 1 in 2019; Group 2 in 2020, Group 3 in 2016, Group 4 in 2017, Group 5 in 2018.

³ The current assessment includes data from the Planning Period (January 1, 2008 through December 31, 2017) and the Verified Period (January 1, 2013 through June 30, 2020).

[†] 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.
- 2b - Attains one or more designated uses and a Reasonable Assurance Plan has already been completed.
- 2e - Attains one or more designated uses and an Alternative Restoration Plan has already been completed.
- 2t - Attains one or more designated uses and a Total Maximum Daily Load (TMDL) has already been completed.
- 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.

Where Biology data are presented as SCI (n=y), y represents the total number of samples; WBID Mean is the average value of all temporally independent biological health assessment scores over the assessment period; Mean 1 is the first temporally independent average of all biological health assessments within the most recent consecutive three month period; Mean 2 is the second temporally independent average of all biological health assessments within the most recent consecutive three month period prior to the most recent biological health assessment.

Beach advisories are based on FL Dept of Health Enterococcus criterion of >70 CFU/100mL. Beach advisory data are provided by the Florida Department of Health 2020 Beach Advisories.

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Fish advisory data are provided by the Florida Department of Health 2021 Fish Advisories.

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; LTAGM - Long Term Annual Geometric Mean; PCT - Percent; SSAC - Site Specific Alternative Criteria; WQBEL - Water Quality Based Effluent Limit.

The Southeast District Delist List is based on IWR Run 60 and the Impaired Waters Rule (IWR), Chapter 62-303, Florida Administrative Code, with the effective date of 10/17/2016.