

# IMPAIRED WATER BODIES WITHIN PALM BEACH COUNTY

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**St. Lucie - Loxahatchee Group 2 Basin / Southeast District - Verified List**  
**Hydrologic Unit: St. Lucie - Loxahatchee**

OGC Case Number	Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class <sup>1</sup>	1998 303(d) Parameter Of Concern	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Dissolved Oxygen / Biology Pollutant of Concern	DO / Nutrient / Biology - TN, TP, BOD Median Values (mg/L) <sup>2</sup>	Concentration of Criterion or Threshold Not Met	Previous EPA Integrated Report Category <sup>†</sup> - Cycle 1 Assessment <sup>3</sup>	Current EPA Integrated Report Category <sup>†</sup> - Cycle 2 Assessment <sup>4</sup>	Current Integrated Category <sup>†</sup> - Final Assessment	Current Assessment Status	Priority for TMDL Development <sup>5</sup>	Verified Period (# of Exceedances/ # of Samples) <sup>6</sup>	Comments
09-1697	C-25	3160	C-25 Canal West (St. Johns Marsh)	Stream	3F	Dissolved Oxygen	Dissolved Oxygen	BOD	TN = 1.24 (n=24) TP = 0.15 (n=28) BOD = 2.4 (n=5)	≥ 5.0 mg/L	3c	5	5	Impaired	Medium	12/27	Impaired by the IWR threshold and BOD was found to be the causative pollutant. BOD exceeded the threshold of 2.0 mg/L. TN/TP median = 7.04, standard deviation 5.24, range 1.67 - 28.65, observations 24. Placed on the 1998 303(d) list based on listing for WBID 3189. TMDL proposed by EPA 9-30-06.
09-1698	C-25	3163	Fort Pierce Farm Canal (Belcher Canal/Taylor Creek)	Stream	3F	Nutrients	Nutrients (Chlorophyll-a)		TN = 0.85 (n=194) TP = 0.20 (n=199) BOD = 1.95 (n=4)	≤ 20 µg/L	2	5	5	Impaired	Medium	2002 (16.58 µg/L) 2003 (23.34 µg/L) 2004 (30.55 µg/L) 2005 (18.00 µg/L) 2006 (6.95 µg/L) 2007 (11.57 µg/L)	The annual average Chla value did not exceed the IWR threshold of 20.0 µg/L in 2002, 2005, 2006, and 2007. The annual average Chla value exceeded the IWR threshold in 2003 and 2004. TMDL proposed by EPA 9-30-06. Data indicate the WBID is TN limited. TP is at the listing threshold, is the causative pollutant for the DO impairment, and will be addressed in the DO TMDL.
09-1699	Coastal	3166	Moore's Creek	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1700	Coastal	3166	Moore's Creek	Estuary	3M		Nutrients (Chlorophyll-a)		TN = 0.76 (n=129) TP = 0.15 (n=130)	≤ 11 µg/L	3b	5	5	Impaired	Medium	2002 (2.87 µg/L) 2003 (4.32 µg/L) 2004 (13.91 µg/L) 2005 (13.16 µg/L) 2006 (5.12 µg/L) 2007 (4.68 µg/L)	The annual average Chla value did not exceed the IWR threshold of 11.0 µg/L in 2002, 2003, 2006, and 2007. The annual average Chla value exceeded the IWR threshold in 2004 and 2005. Data indicate the WBID is TN limited. New listing from cycle 2.
09-1701	Coastal	3190	North Coastal	Estuary	3M		Dissolved Oxygen	Total Phosphorus	TN = 0.87 (n=203) TP = 0.08 (n=207) BOD = 1.5 (n=25)	≥ 4.0 mg/L	2	5	5	Impaired	Medium	129/425	DO is verified impaired and TP was found to be the causative pollutant. TN, TP, and BOD did not exceed their respective thresholds however, regression analysis shows that TP, and TN to a lesser degree, are negatively impacting DO levels. TN/TP median = 10.88, standard deviation of 7.31, range 1.44 - 39.89, observations 185. Results based on station changes from comments received from SFWMD. Mini-run produced by Nancy Lewis, 5-6-09.

**St. Lucie - Loxahatchee Group 2 Basin / Southeast District - Verified List**  
**Hydrologic Unit: St. Lucie - Loxahatchee**

OGC Case Number	Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class <sup>1</sup>	1998 303(d) Parameter Of Concern	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Dissolved Oxygen / Biology Pollutant of Concern	DO / Nutrient / Biology - TN, TP, BOD Median Values (mg/L) <sup>2</sup>	Concentration of Criterion or Threshold Not Met	Previous EPA Integrated Report Category <sup>†</sup> - Cycle 1 Assessment <sup>3</sup>	Current EPA Integrated Report Category <sup>†</sup> - Cycle 2 Assessment <sup>4</sup>	Current Integrated Category <sup>†</sup> - Final Assessment	Current Assessment Status	Priority for TMDL Development <sup>5</sup>	Verified Period (# of Exceedances/ # of Samples) <sup>6</sup>	Comments
09-1702	Coastal	3193A	Roosevelt Bridge	Beach	3M		Bacteria (Beach Advisories)			≥ 21 days of beach advisories	3c	5	5	Impaired	High	2001 (0 days) 2002 (6 days) 2003 (0 days) 2004 (91 days) 2005 (223 days) 2006 (0 days) 2007 (0 days)	No Beach advisories in 2000, 2001, 2003, 2006 or 2007. 6 advisory days in 2002, 91 advisory days in 2004 and 223 in 2005.
09-1703	Coastal	3208	Manatee Pocket	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1704	Coastal	3208A	ICWW (Martin County)	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1705	Coastal	3226	Jupiter Inlet	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1706	Coastal	3226	Jupiter Inlet	Estuary	3M		Nutrients (Historic Chlorophyll-a)			< 3.0 µg/L	N/A	5	5	Impaired	Medium	2002 (4.92 µg/L) 2003 (4.75 µg/L) 2004 (7.00 µg/L)	Historic chlorophyll is one prong of the IWR nutrient assessment. Historically observed minimum value of 2.0 from 1993 - 1997. The annual Chl-a average exceeded the minimum historic average by more than 50% in three consecutive years; 2002 (4.92 µg/L), 2002 (4.75 µg/L) and 2004 (7.00 µg/L). New listing from cycle 2
09-1707	Coastal	3226B	lcww (Martin County)	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1708	Coastal	5003A	South Indian River	Estuary	2		Fecal Coliform			≤ 43 MPN/100 mL	N/A	5	5	Impaired	Low	83/451	
09-1709	Coastal	5003A	South Indian River	Estuary	2		Fecal Coliform (3)			≤ 14 MPN/100 mL	N/A	5	5	Impaired	Low	N/A	The third of 3 prongs that look at fecal coliform data. This prong refers to class 2 waters and looks at median values.
09-1710	Coastal	8104	Atlantic Ocean (St. Lucie County; Fort Pierce Inlet)	Coastal	3M		Fecal Coliform (2)			≤ 200 counts/100mL monthly avg.	N/A	5	5	Impaired	Low	N/A	The second 3 prongs that look at fecal coliform data. This prong looks at the geometric mean on a monthly basis.

**St. Lucie - Loxahatchee Group 2 Basin / Southeast District - Verified List**  
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09-1711	Loxahatchee	3224	Jonathan Dickinson	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1712	Loxahatchee	3224A	Loxahatchee River (North Fork)	Stream	3F		Fecal Coliform			≤ 400 Counts / 100 mL	2	5	5	Impaired	Low	16/94	Results based on station changes from comments received from SFWMD. Mini-run produced by Nancy Lewis, 5-6-09.
09-1713	Loxahatchee	3224B	Kitchings Creek	Stream	3F	Nutrients	Nutrients (Chlorophyll-a)		TN = 1.26 (n=69) TP = 0.053 (n=69)	≤ 20 µg/L	3c	5	5	Impaired	High	2001 (24.58 µg/L) 2002 (9.88 µg/L) 2003 (15.24 µg/L) 2004 (26.56 µg/L) 2007 (2.96 µg/L)	The annual average Chla value did not exceed the IWR threshold of 20.0 µg/L in 2002, 2003, and 2007. The annual average Chla value exceeded the IWR threshold in 2001 and 2004. Data indicate the WBID is TN and TP limited.
09-1714	Loxahatchee	3224C	Cypress Creek	Stream	3F		Nutrients (Chlorophyll-a)		TN = 1.24 (n=86) TP = 0.062 (n=87)	≤ 20 µg/L	2	5	5	Impaired	Medium	2001 (6.40 µg/L) 2002 (12.55 µg/L) 2003 (5.54 µg/L) 2004 (36.23 µg/L) 2007 (1.38 µg/L)	The annual average Chla value did not exceed the IWR threshold of 20.0 µg/L in 2001, 2002, 2003, and 2007. The annual average Chla value exceeded the IWR threshold in 2004. Data indicate the WBID is TN and TP limited. New listing from cycle 2
09-1715	Loxahatchee	3226A	Loxahatchee River (Northwest Fork)	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1716	Loxahatchee	3226A	Loxahatchee River (Northwest Fork)	Estuary	3M	Nutrients	Nutrients (Historic Chlorophyll-a)			< 6.17 µg/L	N/A	5	5	Impaired	Medium	2001 (7.88 µg/L) 2002 (8.1 µg/L) 2003 (5.20 µg/L) 2004 (7.16 µg/L)	Historic chlorophyll is one prong of the IWR nutrient assessment. Historically observed minimum value of 4.11 from 1996 - 2000. The annual Chl-a average exceeded the minimum historical average by more than 50% in 2001 and 2002.
09-1717	Loxahatchee	3226C	Loxahatchee River (Southwest Fork)	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002 and 28 bull shark samples (average Hg = 1.85 mg/Kg) in 2003 - 2004.*
09-1718	Loxahatchee	3226C	Loxahatchee River (Southwest Fork)	Estuary	3M	Nutrients	Nutrients (Chlorophyll-a)		TN = 1.15 (n=100) TP = 0.043 (n=100)	≤ 11 µg/L	2	5	5	Impaired	Medium	2001 (8.29 µg/L) 2002 (21.50 µg/L) 2003 (15.31 µg/L) 2004 (19.18 µg/L) 2007 (11.1 µg/L)	The annual average Chla value did not exceed the IWR threshold of 11.0 µg/L in 2001. The annual average Chla value exceeded the IWR threshold in 2002, 2003, 2004, and 2007. Data indicate the WBID is TN and TP limited.

**St. Lucie - Loxahatchee Group 2 Basin / Southeast District - Verified List**  
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OGC Case Number	Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class <sup>1</sup>	1998 303(d) Parameter Of Concern	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Dissolved Oxygen / Biology Pollutant of Concern	DO / Nutrient / Biology - TN, TP, BOD Median Values (mg/L) <sup>2</sup>	Concentration of Criterion or Threshold Not Met	Previous EPA Integrated Report Category <sup>†</sup> - Cycle 1 Assessment <sup>3</sup>	Current EPA Integrated Report Category <sup>†</sup> - Cycle 2 Assessment <sup>4</sup>	Current Integrated Category <sup>†</sup> - Final Assessment	Current Assessment Status	Priority for TMDL Development <sup>5</sup>	Verified Period (# of Exceedances/ # of Samples) <sup>6</sup>	Comments
09-1719	Loxahatchee	3226D	Loxahatchee River	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1720	Loxahatchee	3226D	Loxahatchee River	Estuary	3M		Nutrients (Historic Chlorophyll-a)			< 6.27 µg/L	N/A	5	5	Impaired	Medium	2002 (6.86 µg/L) 2003 (7.77 µg/L) 2004 (9.83 µg/L) 2007 (3.94 µg/L)	Historic chlorophyll is one prong of the IWR nutrient assessment. Historically observed minimum value of 4.18 from 1996 - 2000. The annual Chl-a average did not exceed the minimum historical average by more than 50% in two consecutive years.
09-1721	Loxahatchee	3228	Pal Mar	Stream	3F		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	3a	5	5	Impaired	High	N/A	Listed based on 4 largemouth bass tissue samples (average Hg = 1.12 mg/Kg) in 2002.*
09-1722	Loxahatchee	3230	Jupiter Farms	Stream	3F		Nutrients (Historic Chlorophyll-a)			< 4.17 µg/L	N/A	5	5	Impaired	Medium	2002 (7.20 µg/L) 2003 (5.94 µg/L) 2004 (7.71 µg/L) 2005 (3.89 µg/L)	Historic chlorophyll is one prong of the IWR nutrient assessment. Historically observed minimum value of 2.78 from 1996 - 2000. The annual Chl-a average exceeded the minimum historic average by more than 50% in three consecutive years; 2002, 2003, and 2004. New listing from cycle 2.
09-1723	Loxahatchee	3234	C-18	Stream	1	Mercury (Based on fish consumption advisory)	Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	3c	5	5	Impaired	High	N/A	Listed based on 16 large mouth bass tissue samples (average Hg = 0.56 mg/kg) from 2005.*
09-1724	Loxahatchee	3234	C-18	Stream	1		Nutrients (Historic Chlorophyll-a)			< 7.55 µg/L	N/A	5	5	Impaired	High	2002 (8.64 µg/L) 2003 (34.42 µg/L) 2004 (3.05 µg/L) 2005 (9.07 µg/L) 2006 (4.84 µg/L) 2007 (18.7 µg/L)	Historic chlorophyll is one prong of the IWR nutrient assessment. Historically observed minimum value of 5.03 from 1996 - 2000. The annual Chl-a average exceeded the minimum historic average by more than 50% in two consecutive years; 2002 and 2003. New listing from cycle 2.
09-1725	North St. Lucie	3194	St. Lucie River (North Fork)	Estuary	3M	Coliforms	Fecal Coliform			≤ 400 Counts / 100 mL	3c	5	5	Impaired	Low	10/55	
09-1726	North St. Lucie	3194	St. Lucie River (North Fork)	Estuary	3M	Mercury (Based on fish consumption advisory)	Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	3c	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*

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09-1727	North St. Lucie	3194A	Ten Mile Creek	Stream	3F	Biochemical Oxygen Demand	Dissolved Oxygen	Total Phosphorus	TN = 1.02 (n=495) TP = 0.30 (n=504) BOD = 1.75 (n=22)	≥ 5.0 mg/L	3c	5	5	Impaired	High	114/168	Listed based on 1998 303(d) list and assessed as DO.
09-1728	North St. Lucie	3194A	Ten Mile Creek	Stream	3F	Dissolved Oxygen	Dissolved Oxygen	Total Phosphorus	TN = 1.02 (n=495) TP = 0.30 (n=504) BOD = 1.75 (n=22)	≥ 5.0 mg/L	3c	5	5	Impaired	High	114/168	Impaired by the IWR threshold and nutrients were found to be the causative pollutant. TP exceeded the threshold of 0.22 mg/L. TN/TP median = 3.67, standard deviation of 1.97, range 1.45 - 28, observations 494.
09-1729	North St. Lucie	3194A	Ten Mile Creek	Stream	3F	Coliforms	Fecal Coliform			≤ 400 Counts / 100 mL	3c	5	5	Impaired	Low	9/45	
09-1730	North St. Lucie	3194A	Ten Mile Creek	Stream	3F	Nutrients	Nutrients (Chlorophyll-a)		TN = 1.02 (n=495) TP = 0.30 (n=504) BOD = 1.75 (n=22)	≤ 20 µg/L	2	5	5	Impaired	High	2002 (7.82 µg/L) 2006 (10.26 µg/L) 2007 (9.58 µg/L)	The annual average Chla value did not exceed the IWR threshold of 20.0 µg/L in 2002, 2006, and 2007. TP exceeded the listing threshold, is the causative pollutant for DO, and will be addressed in the DO TMDL. Data indicate the WBID is TN limited. Delisted from the 1998 303(d) list in cycle 1.
09-1731	North St. Lucie	3194B	St. Lucie River (North Fork)	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1732	North St. Lucie	3194C	Savannas	Lake	3F		Copper			Cu ≤ e(0.8545[lnH]-1.702) µg/L	3b	5	5	Impaired	Medium	21/70	Potential sources may include agrochemicals, fungicides, algacides, soil erosion, vehicle brake pads, roof runoff, etc based on the report "Land Use Changes and Water Quality Impacts: Copper Contamination in St. Lucie Estuary, Florida."
09-1733	North St. Lucie	3194C	Savannas	Lake	3F		Dissolved Oxygen	BOD	TN = 0.93 (n=158) TP = 0.027 (n=159) BOD = 4.6 (n=5)	≥ 5.0 mg/L	3c	5	5	Impaired	Medium	69/187	Impaired by the IWR threshold and BOD was found to be the causative pollutant. BOD exceeded the threshold of 2.9 mg/L. TN/TP median = 32.59, standard deviation 40.87, range 2.70 - 360, observations 156. New listing from cycle 2.
09-1734	South St. Lucie - IRL	3210	St. Lucie River (South Fork)	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*

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09-1735	South St. Lucie - IRL	3210	St. Lucie River (South Fork)	Estuary	3M		Turbidity			< 29 NTU + background	2	5	5	Impaired	Medium	77/545	Background turbidity was set at the 20th percentile of the data for the verified period, which was 4.35 NTU. The threshold value, defined as 29 NTU above background, was 33.35 NTU. New cycle listing from 2
09-1736	South St. Lucie - IRL	3210B	St. Lucie River (South Fork)	Stream	3F	Dissolved Oxygen	Dissolved Oxygen		TN = 1.01 (n=268) TP = 0.14 (n=269) BOD = 1.7 (n=22)	≥ 5.0 mg/L	5	5	5	Impaired	High	316/525	Impaired by the IWR threshold and nutrients were found to be the causative pollutant. There is a strong correlation between chlorophyll and DO which indicates that chlorophyll has a strong influence on DO levels. TN/TP median = 7.79, standard deviation of 7.26, range 1.15 - 87.67, observations 264.
09-1737	South St. Lucie - IRL	3210B	St. Lucie River (South Fork)	Stream	3F	Nutrients	Nutrients (Chlorophyll-a)		TN = 1.01 (n=268) TP = 0.14 (n=269) BOD = 1.7 (n=22)	≤ 20 µg/L	2	5	5	Impaired	High	2001 (12.52 µg/L) 2002 (8.52 µg/L) 2003 (9.75 µg/L) 2004 (17.61 µg/L) 2005 (11.73 µg/L) 2006 (12.6 µg/L) 2007 (6.24 µg/L)	The annual average Chla value did not exceed the IWR threshold of 20.0 µg/L in 2001, 2002, 2003, 2004, 2005, 2006, and 2007. Data indicate the WBID is nitrogen limited. High chlorophyll values have a strong correlation to low DO and is thus being listed as impaired based on an imbalance of flora/fauna.
09-1738	South St. Lucie - IRL	3210A	St. Lucie Canal	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*
09-1739	South St. Lucie - IRL	3211	Bessey Creek	Estuary	3M		Mercury (Based on fish consumption advisory)			Exceeds DoH threshold (> 0.3 mg/kg)	N/A	5	5	Impaired	High	N/A	Listed based on 87 king mackerel tissue samples (average Hg = 0.67 mg/Kg) in 2002.*

<sup>1</sup> 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

<sup>2</sup> n is equal to the number of samples. When samples are collected at the same location less than 4 days apart, the median of those results represents a single sample for the purpose of determining n.

<sup>3</sup> The Cycle 1 assessment was done in 2003 and included data from that Verified Period (January 1, 1996 through June 30, 2003).

<sup>4</sup> The Cycle 2 assessment is the current assessment and includes data from the Verified Period (January 1, 2001 through June 30, 2008).

<sup>†</sup> EPA's Integrated Report Category:



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<sup>5</sup> - Water quality standards are not attained and a TMDL is required.

N/A - Not Applicable

<sup>5</sup>Where a parameter was identified as impaired, a priority of "medium" was assigned. Exceptions are waters where the impairment poses a threat to potable water or human health, which have been assigned a "high" priority, and fecal coliform impairments, which have been assigned a "low" priority. All other listings as of this cycle are prioritized based on the following: it is our intent that listings with a "High" priority be addressed within the next 5 years, listings with a "Medium" priority be addressed within 5-10 years as resources allow, and listings with a "Low" priority be addressed within the next 10 years.

<sup>7</sup> PP - Planning Period (January 1, 1996 through December 30, 2005);

<sup>6</sup> VP - Verified Period (January 1, 2001 through June 30, 2008)

\* A statewide TMDL for mercury, that will address this waterbody, is scheduled to be completed in 2012.

^ Beach advisories are based on FL Dept of Health Enterococcus (>103 CFU/100mL) or fecal coliform (>399 CFU/100mL) criteria.

Beach advisory data is based on "2006 Beach Advisories" file created 04/16/2007 by Barbara Donner of FDEP.

Fish advisory data is based on "2007 Fish Advisories" file created 07/11/2006 and updated 11/05/2007 by Barbara Donner of FDEP.

The Group 2 St. Lucie - Loxahatchee Verified list is based on IWR Run 35.

Lake Worth Lagoon/Palm Beach Coast Group 3 Basin - Southeast District - Cycle 2 Verified List  
Hydrologic Unit: Southeast Florida Coast

OGC Case Number	Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class <sup>1</sup>	1998 303(d) Parameter Of Concern	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Dissolved Oxygen / Biology Pollutant of Concern	DO / Nutrient / Biology - TN, TP, BOD Median Values (mg/L) <sup>2</sup>	Concentration of Criterion or Threshold Not Met	Previous EPA Integrated Report Category <sup>†</sup> - Cycle 1 Assessment <sup>4</sup>	Current EPA Integrated Report Category <sup>†</sup> - Cycle 2 Assessment <sup>5</sup>	Current Integrated Category - Final Assessment <sup>†</sup>	Current Assessment Status	Priority or Year for TMDL Development <sup>6</sup>	Verified Period (# of Exceedances/# of Samples) <sup>8</sup>	Comments
10-0057	C-15	3262	E-4 CANAL	STREAM	3F		Nutrients (Chlorophyll a)		TN = 1.081 (n=97) TP = 0.117 (n=101) BOD = 2.05 (n=20)	≤ 20 ug/L	2	5	5	Impaired	Medium	2002 (37.28 ug/L) 2008 (20.65 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20.0 ug/L in 2002 and 2008. Based on TN/TP ratio median of 8.63, TN was identified as the limiting nutrient. New listing from cycle 2.
10-0058	C-15	3262B	E-1 CANAL	STREAM	3F		Nutrients (Chlorophyll a)		TN = 1.62 (n=25) TP = 0.35 (n=29) BOD = No Data	≤ 20 ug/L	3a	5	5	Impaired	Medium	2005 (23.0 ug/L) 2007 (31.63 ug/L) 2008 (24.63 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20.0 ug/L in 2005, 2007, and 2008. Based on TN/TP ratio median of 5.89, TN was identified as the limiting nutrient. New listing from cycle 2.
10-0059	C-15	3262D	E-3 CANAL	STREAM	3F		Nutrients (Chlorophyll a)		TN = 1.367 (n=29) TP = 0.128 (n=34) BOD = 2.6 (n=45)	≤ 20 ug/L	3b	5	5	Impaired	2010	2002 (59.69 ug/L) 2007 (23.78 ug/L) 2008 (23.73 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20.0 ug/L in 2002, 2007, and 2008. Based on TN/TP ratio median of 10.55, TN was identified as the limiting nutrient.
10-0060	C-16	3256B	BOYNTON CANAL	STREAM	3F	Biochemical Oxygen Demand	Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.112 (n=121) TP = 0.09 (n=129) BOD = 3.0 (n=19)	≥ 5.0 mg/L	3c	5	5	Impaired	2010	35/152	Impaired based on number of exceedances and BOD was found to be the causative pollutant.
10-0061	C-16	3256B	BOYNTON CANAL	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.112 (n=121) TP = 0.09 (n=129) BOD = 3.0 (n=19)	≥ 5.0 mg/L	2	5	5	Impaired	2010	35/152	Impaired based on number of exceedances and BOD was found to be the causative pollutant.
10-0062	C-16	3256B	BOYNTON CANAL	STREAM	3F		Nutrients (Chlorophyll a)		TN = 1.112 (n=121) TP = 0.09 (n=129) BOD = 3.0 (n=19)	≤ 20 ug/L	2	5	5	Impaired	2010	2002 (23.06 ug/L) 2004 (21.01 ug/L) 2005 (20.0 ug/L) 2007 (35.55 ug/L) 2008 (28.49 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20 ug/L in 2002, 2004, 2007, and 2008. Based on TN/TP ratio median of 11.88, TN-TP were identified as co-limiting nutrients.
10-0063	C-16	3256D	CANAL E-4	STREAM	3F		Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.092 (n=26) TP = 0.074 (n=26) BOD = 2.6 (n=24)	≥ 5.0 mg/L	3b	5	5	Impaired	Medium	7/26	Impaired based on number of exceedances and BOD was found to be the causative pollutant. New listing from cycle 2.
10-0064	C-16	3256D	CANAL E-4	STREAM	3F		Nutrients (Chlorophyll a)		TN = 1.092 (n=26) TP = 0.074 (n=26) BOD = 2.6 (n=24)	≤ 20 ug/L	2	5	5	Impaired	2010	2008 (21.53 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20.0 ug/L in 2008. Based on TN/TP ratio median of 14.75, TN-TP were identified as co-limiting nutrients.
10-0065	C-17	3242	C-17 SEGMENT	STREAM	3F	Biochemical Oxygen Demand	Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.31 (n=55) TP = 0.08 (n=54) BOD = 3.3 (n=15)	≥ 5.0 mg/L	3c	5	5	Impaired	2010	20/54	Impaired based on number of exceedances and BOD was found to be the causative pollutant.
10-0066	C-17	3242	C-17 SEGMENT	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.31 (n=55) TP = 0.08 (n=54) BOD = 3.3 (n=15)	≥ 5.0 mg/L	3c	5	5	Impaired	2010	20/54	Impaired based on number of exceedances and BOD was found to be the causative pollutant.
10-0067	C-17	3242	C-17 SEGMENT	STREAM	3F		Nutrients (Chlorophyll a)		TN = 1.31 (n=55) TP = 0.08 (n=54) BOD = 3.3 (n=15)	≤ 20 ug/L	2	5	5	Impaired	Medium	2002 (11.1 ug/L) 2004 (10.53 ug/L) 2005 (21.5 ug/L) 2006 (27.38 ug/L) 2007 (16.49 ug/L) 2008 (35.83 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20 ug/L in 2005, 2006, and 2008. Based on TN/TP ratio median of 15.49, TN-TP were identified as co-limiting nutrients. New listing from cycle 2.
10-0068	C-17	3242B	M-CANAL (EAST)	STREAM	1		Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.161 (n=21) TP = 0.028 (n=22) BOD = 2.2 (n=13)	≥ 5.0 mg/L	3b	5	5	Impaired	Medium	72/151	Impaired based on number of exceedances and BOD was found to be the causative pollutant. New listing from cycle 2.
10-0069	C-51	3245B	LAKE CLARKE	LAKE	3F		Fecal Coliform			≤ 400 Counts / 100 mL	3b	5	5	Impaired	Low	9/53	Impaired based on the number of exceedances and will be added to the 303(d) list. New listing from cycle 2.
10-0070	C-51	3245C2	CLEAR LAKE	LAKE	1		Nutrients (TSI)		TN = 0.959 (n=17) TP = 0.02 (n=23) BOD = 2 (n=7)	TSI < 40, Color ≤ 40	3b	5	5	Impaired	High	2002 (44.8 TSI - 40 PCU)	This waterbody is impaired because one TSI annual mean exceeded the threshold in 2002. Based on TN/TP ratio median of 69.08, TP was identified as the limiting nutrient. Excluded from period of record assessment, as it is impaired according to more recent data. New listing from cycle 2.
10-0071	C-51	3245C4	PINE LAKE	LAKE	3F		Dissolved Oxygen	Biochemical Oxygen Demand	TN = 0.982 (n=43) TP = 0.062 (n=51) BOD = 3.1 (n=13)	≥ 5.0 mg/L	N/A	5	5	Impaired	Medium	9/47	Impaired based on number of exceedances and BOD was found to be the causative pollutant. New listing from cycle 2.
10-0072	C-51	3245C4	PINE LAKE	LAKE	3F		Fecal Coliform			≤ 400 Counts / 100 mL	N/A	5	5	Impaired	Low	14/49	Impaired based on the number of exceedances and will be added to the 303(d) list. New listing from cycle 2.

Lake Worth Lagoon/Palm Beach Coast Group 3 Basin - Southeast District - Cycle 2 Verified List  
Hydrologic Unit: Southeast Florida Coast

OGC Case Number	Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class <sup>1</sup>	1998 303(d) Parameter Of Concern	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Dissolved Oxygen / Biology Pollutant of Concern	DO / Nutrient / Biology - TN, TP, BOD Median Values (mg/L) <sup>2</sup>	Concentration of Criterion or Threshold Not Met	Previous EPA Integrated Report Category <sup>†</sup> - Cycle 1 Assessment <sup>4</sup>	Current EPA Integrated Report Category <sup>†</sup> - Cycle 2 Assessment <sup>5</sup>	Current Integrated Category - Final Assessment <sup>†</sup>	Current Assessment Status	Priority or Year for TMDL Development <sup>6</sup>	Verified Period (# of Exceedances/# of Samples) <sup>8</sup>	Comments
10-0073	C-51	3245C4	PINE LAKE	LAKE	3F		Nutrients (TSI)		TN = 0.98 (n=43) TP = 0.062 (n=51) BOD = 3.1 (n=13)	TSI < 60, No Color or TSI < 60, Color > 40	N/A	5	5	Impaired	Medium	2006 (57.5 TSI - No Color) 2008 (62.2 TSI - 54.4 PCU)	This waterbody is impaired because one TSI annual mean exceeded the threshold in 2008. Based on TN/TP ratio median of 17.97, TN-TP were identified as co-limiting nutrients. New listing from cycle 2.
10-0074	C-51	3245D	M CANAL (WEST)	STREAM	1		Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.52 (n=185) TP = 0.108 (n=187) BOD= 2.4; (n=12)	≥ 5.0 mg/L	3a	5	5	Impaired	High	151/597	Impaired based on the listing threshold and BOD was found to be the causative pollutant. New listing from cycle 2.
10-0075	C-51	3245F	C-51 EAST	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.24 (n=156) TP = 0.067 (n=207) BOD = 2.3 (n=12)	≥ 5.0 mg/L	N/A	5	5	Impaired	2010	674/1132	Impaired based on number of exceedances and BOD was found to be the causative pollutant.
10-0076	C-51	3245F	C-51 EAST	STREAM	3F	Coliform	Fecal Coliform			≤ 400 Counts / 100 mL	N/A	5	5	Impaired	2010	119/496	Impaired based on the number of exceedances and will be retained on the 303(d) list.
10-0077	C-51	3245G	C-51 WEST	STREAM	3F	Nutrients	Nutrients (Chlorophyll a)		TN = 1.61 (n=276) TP = 0.104 (n=300) BOD = 1.5 (n=5)	≤ 20 ug/L	N/A	5	5	Impaired	2010	2003 (19.8 µg/l) 2004 (5.3 µg/l) 2005 (4.28 µg/l) 2006 (6.6 µg/l) 2007 (35.2 µg/l) 2008 (15.1 µg/l)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20.0 ug/L in 2007. Based on TN/TP ratio median of 16.64, TN-TP were identified as co-limiting nutrients.
10-0078	Hillsboro Canal	3264	HILLSBORO CANAL	STREAM	3F		Nutrients (Historic Chlorophyll)			≤ 12.24 ug/L	2	5	5	Impaired	Medium	2003 (5.3 µg/l) 2004 (5.1 µg/l) 2005 (11.9 µg/l) 2006 (17.2 µg/l) 2007 (13.1 µg/l) 2008 (15.0 µg/l)	This waterbody is impaired because the annual Chl-a average exceeded the minimum historical average by more than 50% in at least two consecutive years, 2006, 2007, and 2008. The historically observed minimum value was 8.16 ug/L from 1995 - 1999. Based on TN/TP ratio median of 27.09, TN-TP were identified as the co-limiting nutrients. New listing from cycle 2.
10-0079	Hillsboro Canal	3264A	E-1 CANAL	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.12 (n=40) TP = 0.203 (n=50) BOD = 3.05 (n=24)	≥ 5.0 mg/L	2	5	5	Impaired	2010	17/44	Impaired based on number of exceedances and BOD was found to be the causative pollutant.
10-0080	Hillsboro Canal	3264A	E-1 CANAL	STREAM	3F	Coliforms	Fecal Coliform			≤ 400 Counts / 100 mL	3b	5	5	Impaired	2010	5/19	Impaired based on the number of exceedances and will be retained on the 303(d) list.
10-0081	Hillsboro Canal	3264A	E-1 CANAL	STREAM	3F	Nutrients	Nutrients (Chlorophyll a)		TN = 1.12 (n=40) TP = 0.203 (n=50) BOD = 3.05 (n=24)	≤ 20 ug/L	2	5	5	Impaired	2010	2003 (31.25 ug/L) 2008 (28.07 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20.0 ug/L in 2003 and 2008. Based on TN/TP ratio median of 5.85, TN was identified as the limiting nutrient.
10-0082	Hillsboro Canal	3264D	E-4 CANAL	STREAM	3F	Dissolved Oxygen	Dissolved Oxygen	Biochemical Oxygen Demand	TN = 1.176 (n=25) TP = 0.13 (n=26) BOD = 2.2 (n=20)	≥ 5.0 mg/L	3c	5	5	Impaired	2010	22/26	Impaired based on number of exceedances and BOD was found to be the causative pollutant. Excluded from period of record assessment, as it has been determined with more recent data that the WBID is impaired.
10-0083	Intracoastal	3226E	ICCW ABOVE ROYAL PALM BRIDGE	ESTUARY	3M		Mercury (in fish tissue)			Exceeds DoH Threshold (> 0.3 mg/kg)	3a	5	5	Impaired	High*	N/A	Verified for impairment based on DOH marine fish consumption advisory data from 2003/2004 for 28 bull shark with an average mercury concentration of 1.85 ppm.
10-0084	Intracoastal	3226EB	PHIL FOSTER	BEACH	3M		Bacteria (Beach Advisory)			≥ 21 days of beach advisories	3a	5	5	Impaired	High	2002 (0 days) 2003 (2 days) 2004 (105 days) 2005 (35 days) 2006 (6 days) 2007 (1 days) 2008 (0 days)	This waterbody is impaired because of beach advisories ≥ 21 days/yr in 2004 and 2005. ^
10-0085	Intracoastal	3226F	ICCW ABOVE POMPANO	ESTUARY	3M		Mercury (in fish tissue)			Exceeds DoH Threshold (> 0.3 mg/kg)	3a	5	5	Impaired	High*	N/A	Verified for impairment based on DOH marine fish consumption advisory data from 2003/2004 for 28 bull shark with an average mercury concentration of 1.85 ppm.
10-0086	Intracoastal	3226F	ICCW ABOVE POMPANO	ESTUARY	3M		Nutrients (Historic Chlorophyll)			≤ 5.23 ug/L	2	5	5	Impaired	Medium	2003 (4.9 µg/l) 2004 (5.9 µg/l) 2005 (8.6 µg/l) 2006 (6.3 µg/l) 2007 (6.9 µg/l)	This waterbody is impaired because the annual Chl-a average exceeded the minimum historical average by more than 50% in at least two consecutive years, 2004-2005-2006-2007. The historically observed minimum value was 3.49 from 1993 - 1997. Based on TN/TP ratio median of 11.86, TN-TP were identified as co-limiting nutrients.

Lake Worth Lagoon/Palm Beach Coast Group 3 Basin - Southeast District - Cycle 2 Verified List

Hydrologic Unit: Southeast Florida Coast

OGC Case Number	Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class <sup>1</sup>	1998 303(d) Parameter Of Concern	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Dissolved Oxygen / Biology Pollutant of Concern	DO / Nutrient / Biology - TN, TP, BOD Median Values (mg/L) <sup>2</sup>	Concentration of Criterion or Threshold Not Met	Previous EPA Integrated Report Category <sup>†</sup> - Cycle 1 Assessment <sup>4</sup>	Current EPA Integrated Report Category <sup>†</sup> - Cycle 2 Assessment <sup>5</sup>	Current Integrated Category - Final Assessment <sup>†</sup>	Current Assessment Status	Priority or Year for TMDL Development <sup>6</sup>	Verified Period (# of Exceedances/ # of Samples) <sup>8</sup>	Comments
10-0087	Intracoastal	3226F1	LAKE WORTH LAGOON (CENTRAL SEGMENT)	ESTUARY	3M		Mercury (in fish tissue)			Exceeds DoH Threshold (> 0.3 mg/kg)	3a	5	5	Impaired	High*	N/A	Verified for impairment based on DOH marine fish consumption advisory data from 2003/2004 for 28 bull shark with an average mercury concentration of 1.85 ppm.
10-0088	Intracoastal	3226F2	LAKE WORTH LAGOON (SOUTHERN SEGMENT)	ESTUARY	3M		Mercury (in fish tissue)			Exceeds DoH Threshold (> 0.3 mg/kg)	3a	5	5	Impaired	High*	N/A	Verified for impairment based on DOH marine fish consumption advisory data from 2003/2004 for 28 bull shark with an average mercury concentration of 1.85 ppm. Excluded from period of record assessment, as it is impaired according to more recent data.
10-0089	L-8	3233A	L-8	STREAM	3F	Mercury (based on fish consumption advisory)	Mercury (in fish tissue)			Exceeds DoH Threshold (> 0.3 mg/kg)	3b	5	5	Impaired	High*	N/A	Verified for impairment based on DOH fish consumption advisory data from 2007 for 13 Largemouth Bass with an average mercury concentration of 0.62 ppm.
10-0090	L-8	3233A	L-8	STREAM	3F	Nutrients	Nutrients (Chlorophyll a)		TN = 1.70 (n=536) TP = 0.13 (n=542) BOD = 2.45 (n=20)	≤ 20 ug/L	2	5	5	Impaired	High	2003 (5.32 ug/L) 2007 (23.09 ug/L)	This waterbody is impaired because the annual average Chla value exceeded the listing threshold of 20 ug/L in 2007. Based on TN/TP ratio median of 13.42, TN-TP were identified as co-limiting nutrients. TMDL proposed by EPA 9-30-06.

<sup>1</sup> 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

<sup>2</sup> n is equal to the number of samples. When samples are collected at the same location less than 4 days apart, the median of those results represents a single sample for the purpose of determining n.

<sup>4</sup> The Cycle 1 assessment was done in 2004 and included data from that Verified Period (January 1, 1997 through June 30, 2004).

<sup>5</sup> The Cycle 2 assessment is the current assessment and includes data from the Verified Period (January 1, 2002 through June 30, 2009).

<sup>†</sup> 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 as part of an approved Reasonable Assurance.
- 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 - The waterbody does not meet applicable criteria, but no pollutant can be identified thus a TMDL will not be developed at this time.
- 4e - Impaired, but recently completed or on-going restoration activities are underway to restore the designated uses of the waterbody.
- 5 - Water quality standards are not attained and a TMDL is required.

<sup>6</sup> Where a parameter was 1998 303(d) listed, the priority for TMDL development is the year provided and is assigned based on the consent decree schedule.

Where a parameter was only identified as impaired under the IWR, a priority of "medium" was assigned. Exceptions are waters where the impairment poses a threat to potable water or human health, which have been assigned a "high" priority, and fecal coliform impairments, which have been assigned a "low" priority. All other listings as of this cycle are prioritized based on the following: it is our intent that listings with a "High" priority be addressed within the next 5 years, listings with a "Medium" priority be addressed within 5-10 years as resources allow, and listings with a "Low" priority be addressed within the next 10 years.

<sup>8</sup> VP - Verified Period (January 1, 2002 through June 30, 2009)

<sup>†</sup> A statewide TMDL for mercury, that will address this waterbody, is scheduled to be completed in 2012.

<sup>^</sup> Beach advisories are based on FL Dept of Health enterococcus (>103 CFU/100mL) or fecal coliform (≥400 CFU/100mL) criteria.

Beach advisory data is based on "2008 Beach Advisories" created 2009 by Barbara Donner (FDEP Watershed Assessment Section).

Fish advisory data is based on "2008 Fish Advisories" created 2008 and updated 2009 by Barbara Donner (FDEP Watershed Assessment Section).

N/A = Not Applicable, does not apply, or was not assessed in the previous cycle (i.e. it's a new WBID, waterbody type change, etc.).

**Lake Worth Lagoon/Palm Beach Coast Group 3 Basin - Southeast District - Cycle 2 Verified List**

**Hydrologic Unit: Southeast Florida Coast**

OGC Case Number	Planning Unit	WBID	Water Segment Name	Waterbody Type	Waterbody Class <sup>1</sup>	1998 303(d) Parameter Of Concern	Parameters Assessed Using the Impaired Surface Waters Rule (IWR)	Dissolved Oxygen / Biology Pollutant of Concern	DO / Nutrient / Biology - TN, TP, BOD Median Values (mg/L) <sup>2</sup>	Concentration of Criterion or Threshold Not Met	Previous EPA Integrated Report Category <sup>†</sup> - <u>Cycle 1</u> Assessment <sup>4</sup>	Current EPA Integrated Report Category <sup>†</sup> - <u>Cycle 2</u> Assessment <sup>5</sup>	Current Integrated Category - Final Assessment <sup>†</sup>	Current Assessment Status	Priority or Year for TMDL Development <sup>6</sup>	Verified Period (# of Exceedances/ # of Samples) <sup>8</sup>	Comments
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The Group 3 Lake Worth Lagoon - Palm Beach Coast Verified list is based on IWR Run 38\_2.