

GAT Environmental Criteria

***Follow-up from January 9,
2019 GAT Meeting***

Doug Leeper

CFWI MFLRT Lead, GAT Member

MFLs Program Lead, SWFWMD



Update

- Tentative agreement on GAT-identified environmental criteria options was reached during the 01/09/2019 GAT meeting.
 - Per GAT agreement, an updated “detailed-list” slide for the criteria was developed (see next slide in this slide file).
 - Some additional editorial changes are included in the updated “detailed-list” slide (e.g., added “within the CFWI Planning Area” to the Wekiva River entry, made parenthetical formatting of water body lists more consistent, removed “SWUCA” and “SWIMAL” acronyms, removed words like “an”, and used “criteria” and “criterion”).
 - An additional change was made to the adopted MFLs criteria to include only adopted Outstanding Florida Springs.
 - Also, developed a new slide to address “as available” criteria.
- New draft slides concerning the criteria (also included in this slide file) were also developed for consideration by the WRAT on 01/11/ 2019 and the MOC on 01/14/2019.



Updated Environmental Criteria Slides for the GAT

2020 RWSP GAT-Identified Environmental Criteria Options

MFL and MFL-Related Criteria

- Adopted MFLs for 29 lakes/wetlands (Aurora, Boggy Marsh, Brantley, Burkett, Cherry, Crooked, Eagle, Easy, Emma, Eva, Hancock, Howell, Irma, Louisa, Lowery, Lucy, Martha, McLeod, Mills, Minneola, North Apshawa, Parker, Pearl, Pine Island, Prevatt, South Apshawa, Starr, Sylvan, Wailes) within the CFWI Planning Area.
- Adopted MFLs for the Outstanding Florida Springs (Rock, Wekiwa) within the CFWI Planning Area.
- Adopted MFLs for one river segment (Wekiva River at SR 46) within the CFWI Planning Area.
- Adopted Saltwater Intrusion Minimum Aquifer Level for the Most Impacted Area of the Southern Water Use Caution Area within the SWFMWD.
- Established target regulatory water level based on five Upper Floridan aquifer (UFA) wells used to characterize ground water levels below Lake Wales Ridge Lakes where MFLs have been established and are being recovered.
- Established target regulatory water level based on five UFA wells used to characterize groundwater levels below the upper Peace River where MFLs have been established and are being recovered.
- As available (see next slide):
 - MFLs that may be proposed but are not yet adopted for three lakes (Avalon or Johns, East Crystal, Hodge) within the CFWI Planning Area.
 - MFLs that may be proposed but are not yet adopted for a river segment (Little Wekiva River) within the CFWI Planning Area.
 - Revised MFLs that may be proposed but are not yet adopted for three lakes (Prevatt, South Apshawa, Sylvan) with established MFLs within the CFWI Planning Area (reevaluation MFLs).
 - Revised MFLs that may be proposed but are not yet adopted for a river segment (Wekiva at SR 46) with established MFLs within the CFWI Planning Area (reevaluation MFLs).
 - Revised MFLs that may be proposed but are not yet adopted for six springs (Miami, Palm, Rock, Sanlando, Starbuck, Wekiwa) with established MFLs within the CFWI Planning Area (reevaluation MFLs).

Non-MFL Lakes/Wetlands Criteria

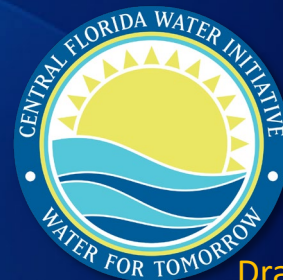
- Isolated ridge and plains stressed wetland acreage changes based on a statistical method.

Non-MFL Spring Criterion

- One spring (Apopka) within the CFWI area without adopted MFLs.

Wellfield Water Quality Criteria

- Vertical migration of poorer quality water at selected wellfields/areas (locations to be determined).



Note Regarding “As Available” Environmental Criteria

- Environmental criteria associated with proposed MFLs that are identified “as available” are currently prioritized for development (i.e., for MFLs adoption) in 2019 or 2020.
- None are currently available and are not expected to be available by April 2019, when the GAT anticipates determining groundwater availability estimates for use in the 2020 CFWI Regional Water Supply Plan.
- As these environmental criteria become available, they will be presented to the GAT for consideration regarding their use in the 2020 CFWI regional water supply planning effort.



New Environmental Criteria Slides
for the 01/11/2019 WRAT and
01/14/2019 MOC Meetings

GAT Environmental Criteria

***January 11, 2019 WRAT
& January 11, 2019 MOC
Meetings***



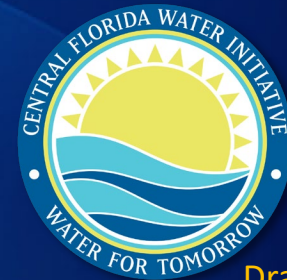
Doug Leeper

CFWI MFLRT Lead, GAT Member

MFLs Program Lead, SWFWMD

Environmental Criteria

- MFLs, MFLs-related regulatory well water levels, non-MFL lakes/wetlands/springs, and groundwater quality criteria for assessing potential environmental and water resource impacts associated with groundwater withdrawals
- To be used with the ECFTX model to identify environmental impact limits supporting development of planning-level estimates of groundwater availability in the CFWI Planning Area



2020 RWSP GAT-Identified Environmental Criteria Options

SIMPLIFIED VERSION

MFL and MFL-Related Criteria

- Adopted MFLs for 29 lakes/wetlands, 2 springs and 1 river segment within the CFWI Planning Area.
- Adopted Saltwater Intrusion Minimum Aquifer Level for the Most Impacted Area of the SWUCA.
- Target regulatory groundwater level below Lake Wales Ridge Lakes established for SWUCA recovery.
- Target regulatory groundwater level below the upper Peace River established for SWUCA recovery.
- As available, proposed MFLs for 6 lakes, 2 river segments and 6 springs.

Non-MFL Lakes/Wetlands Criteria

- Isolated ridge and plains stressed wetland acreage changes.

Non-MFL Spring Criterion

- 1 spring within the CFWI area without adopted MFLs.

Wellfield Water Quality Criteria

- Vertical migration of poorer quality water at selected wellfields/areas.



Note Regarding “As Available” Environmental Criteria

- Environmental criteria associated with proposed MFLs that are identified “as available” are currently prioritized for development (i.e., for MFLs adoption) in 2019 or 2020.
- None are currently available and are not expected to be available by April 2019, when the GAT anticipates determining groundwater availability estimates for use in the 2020 CFWI Regional Water Supply Plan.
- As these environmental criteria become available, they will be presented to the GAT for consideration regarding their use in the 2020 CFWI regional water supply planning effort.



Recommendation

- Approve GAT-identified options for environmental criteria.
- Approve presentation of criteria options to the MOC on 11/14/2019.



EXTRA(S)



2020 RWSP GAT-Identified Environmental Criteria Options

DETAILED VERSION

MFL and MFL-Related Criteria

- Adopted MFLs for 29 lakes/wetlands (Aurora, Boggy Marsh, Brantley, Burkett, Cherry, Crooked, Eagle, Easy, Emma, Eva, Hancock, Howell, Irma, Louisa, Lowery, Lucy, Martha, McLeod, Mills, Minneola, North Apshawa, Parker, Pearl, Pine Island, Prevatt, South Apshawa, Starr, Sylvan, Wailes) within the CFWI Planning Area.
- Adopted MFLs for the Outstanding Florida Springs (Rock, Wekiwa) within the CFWI Planning Area.
- Adopted MFLs for one river segment (Wekiva River at SR 46) within the CFWI Planning Area.
- Adopted Saltwater Intrusion Minimum Aquifer Level for the Most Impacted Area of the Southern Water Use Caution Area within the SWFMWD.
- Established target regulatory water level based on five Upper Floridan aquifer (UFA) wells used to characterize ground water levels below Lake Wales Ridge Lakes where MFLs have been established and are being recovered.
- Established target regulatory water level based on five UFA wells used to characterize groundwater levels below the upper Peace River where MFLs have been established and are being recovered.
- As available (see next slide):
 - MFLs that may be proposed but are not yet adopted for three lakes (Avalon or Johns, East Crystal, Hodge) within the CFWI Planning Area.
 - MFLs that may be proposed but are not yet adopted for a river segment (Little Wekiva River) within the CFWI Planning Area.
 - Revised MFLs that may be proposed but are not yet adopted for three lakes (Prevatt, South Apshawa, Sylvan) with established MFLs within the CFWI Planning Area (reevaluation MFLs).
 - Revised MFLs that may be proposed but are not yet adopted for a river segment (Wekiva at SR 46) with established MFLs within the CFWI Planning Area (reevaluation MFLs).
 - Revised MFLs that may be proposed but are not yet adopted for six springs (Miami, Palm, Rock, Sanlando, Starbuck, Wekiwa) with established MFLs within the CFWI Planning Area (reevaluation MFLs).

Non-MFL Lakes/Wetlands Criteria

- Isolated ridge and plains stressed wetland acreage changes based on a statistical method.

Non-MFL Spring Criterion

- One spring (Apopka) within the CFWI area without adopted MFLs.

Wellfield Water Quality Criteria

- Vertical migration of poorer quality water at selected wellfields/areas (locations to be determined).

