

## Facilities Description

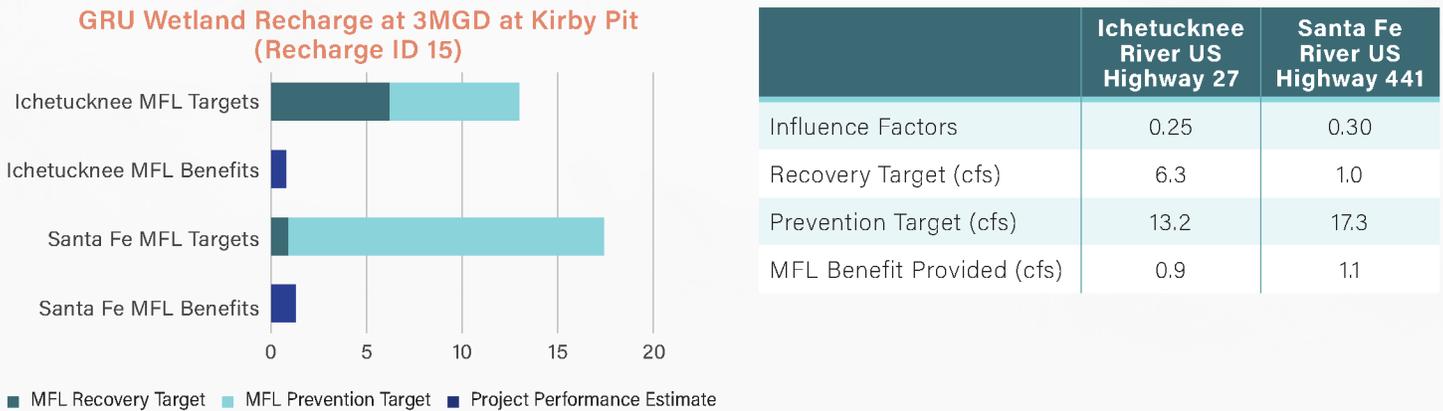
The following facilities have been identified as part of this project:

- For the higher treatment option, requiring denitrification filters and PFAS removal, treatment facilities will be located onsite at the WRF. Following treatment, on-site pumping facilities will transport reclaimed water from the WRF to the recharge site.
- For the low treatment option, only pumping facilities will be provided at the WRF to transport reclaimed water to the next stage of the process.
- Provide transmission mains from the Main Street WRF to the recharge site. Booster pump stations will be provided as necessary to convey flow to the target recharge area.
- Provide approximately 40-60 acres of flow through treatment/recharge wetland.

## Project Benefits to the LSFIR MFLS

The benefits calculated for this project are based on representative NFSEG influence factors for the Ichetucknee and Santa Fe River gages within the target recharge area. A recharge efficiency of 80% was assumed for this project based on use of wetlands.

The graph below demonstrates the project's ability to address MFLs at the Santa Fe River US Highway 441 gage near High Springs and the Ichetucknee River gage near Highway 27 in Hildreth.



## Ancillary Benefits

- Utilization of either the denitrification filters or the recharge wetland to lower nutrient concentrations prior to discharge addresses concerns for impaired water bodies near the discharge location. The Santa Fe River has an adopted Basin Management Action Plan (BMAP) which sets a 3 mg/l total nitrogen limit for wastewater discharges within the BMAP area. The addition of high-quality water to the aquifer will improve water quality for the impaired water body.
- The wetland recharge site will provide wildlife habitat and can be configured as a public park which will provide recreational and economic benefits from tourism to the region. The GRU Sweetwater Wetlands Park is an example of a similar facility which has resulted in habitat for species such as the endangered Cape Sable Seaside Sparrow and Snail Kite as well as providing more than 3.5 miles of recreational trails.
- With a relatively short implementation timeline, this project could provide an opportunity to demonstrate progress toward meeting recovery targets within 10 years.

## Potential for Regional Benefits

In recognition that there are additional MFLs under development in the same geographic area as the Ichetucknee and Santa Fe, the project was evaluated for potential to positively impact surrounding water bodies. Implementation of the project resulted in an average increase of approximately 0.1 cfs at the Suwannee River Ellaville gage.