

consideration of both individual and collective value. Table ES.2 includes reclaimed water sources, surface water sources, and seawater.

**Table ES.2 Summary of Short-Listed Alternatives**

Source	Volume (MGD)	Santa Fe Benefit (cfs) <sup>3</sup>	Ichetucknee Benefit (cfs) <sup>3</sup>	Capital Cost Estimate (\$M)	Full MFL Goals?
JEA Reclaimed Water from Buckman and Southwest WRFs	40	17	14	830	Yes <sup>2</sup>
GRU Reclaimed Water	3	1.1	0.9	90	No
North Fork Black Creek	4.2 avg	2.0	1.6	210	No
Lower Suwannee/ Branford	8.9 avg	4.1	3.4	340	No
Desal – Coquina <sup>1</sup>	40	19	15	2,800	Yes <sup>2</sup>
Desal – Gulf <sup>1</sup>	40	19	15	3,000	Yes <sup>2</sup>
Pumping Replacement <sup>1</sup>	182	20.6	4.7	12,000	No

1 Desalination options are shown for comparative purposes, but not recommended for further study at this time.

2. Full MFL goals could be met based on current modeling and careful selection/design of recharge sites and methods.

3. MFL benefits for JEA Reclaimed Water from Buckman and Southwest WRFs assume a 90 percent recharge efficiency for RIBs. MFL benefits for GRU Reclaimed Water assume an 80 percent recharge efficiency for recharge wetlands. MFL benefits for the remaining alternatives assume a 100 percent recharge efficiency for recharge wells.

The MFL benefits were estimated based on the volume of water from each source and preliminary recharge benefits based on the conceptual recharge area. The following section provides a summary of each alternative:

- **JEA Reclaimed Water:** Includes reclaimed water from JEA Buckman and Southwest water reclamation facilities totaling 40 million gallons per day (MGD). The preliminary project concept is based on operation of a treatment wetland upstream of the recharge location. At 40 MGD, this alternative could address the full LSFIR MFL needs if recharged in a strategic location. The project would also assist JEA meet Senate Bill 64 non-beneficial surface water discharge elimination requirements.
- **GRU Reclaimed Water:** Up to approximately 3 MGD of reclaimed water flow for aquifer recharge could be obtained by shifting flow between GRU water reclamation facilities. This alternative's volume is not large enough to meet MFL targets by itself, but may be beneficial in concert with the JEA alternative and/or other alternatives.
- **North Fork Black Creek:** Surface water would periodically be withdrawn from the north fork of Black Creek and beneficially recharged. Preliminary analysis suggests that withdrawal of 5.2 MGD could potentially be available approximately 80 percent of the time while meeting ecological flow needs. More detailed hydrological analysis would be required to ensure source water availability.
- **Lower Suwannee River:** Surface water would periodically be withdrawn downstream of the Branford Gage and beneficially recharged. Preliminary analysis suggests that withdrawal of 20 MGD could potentially be available approximately 45 percent of the time while meeting ecological flow needs. More detailed analysis would be required to ensure compliance with Suwannee River MFLs and no other adverse environmental impacts.