1. The Memphis Sand and Fort Pillow aquifers serve as the drinking water supply for West Tennessee and the surrounding states.

2. West Tennessee is the home of the aquifer’s “recharge zone”.

3. The recharge zone is the **only area** in a nine-state region where rainwater directly replenishes the aquifer.

4. The sands come to the surface in the green band pictured above.

5. Recharge primarily happens in the streams, creeks, and rivers.

6. Massive paving over of the recharge zone and channelizing, concrete-lined streams will limit the amount of water that replenishes the system.

7. This can cause localized flooding, water supply issues and land subsidence in the future.

8. The development of the Megasite – and surrounding communities – must ensure the Aquifer and local streams can still refill or "recharge" as millions of gallons are pumped per day.

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**How can we balance the aquifer "bank account" so that recharge matches extraction?**

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**Smart Regional Growth**

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Water Use at the Megasite
*Mitigate Flooding, Ensure Recharge, Increase Quality of Life*

According to Memphis Regional Megasite Site Assessment Study, three wells have been drilled, one water tower and water treatment plant have been constructed. “It is unclear how the water supply, treatment, storage and distribution system will be operated and maintained.”

With Ford’s statements on “zero discharge” and “closed-loop ecosystems”, the State and TDEC must allow state-of-the-art integrated water resource management (IWRM). Ford has "set the tone" for a green future in the region with clean water and **advanced treatment.**

Key Recommendations/Questions:

1. **Ensure Aquifer representation on the Megasite Authority** – advance the State’s reputation for clean water, implement best management for water sustainability.
2. **Combine the wastewater, source water, and stormwater** operations to ensure efficiency and reduced impact on water resources.
3. **Encourage low-impact development (LID)** with a focus on managed aquifer recharge.
4. **Track and report water usage for use in data collection and studies on aquifer sustainability.**
5. **How will TDEC permit the infrastructure for reclaimed water?**
6. **What constituents would be discharged into regional streams and rivers?**
7. **Request for Special Notice of permits and permissions regarding the environmental issues associated with the proposed development under TN Comp. Rules & Regs, Rule 0400-40-05-.06 (9)(b)6. (i).**