

Rockport's Water Supply and Wastewater Limits

including charts from a draft memo to the DPW
by Tetra Tech dated 22 June 2022

Tom Mikus 16 January 2024

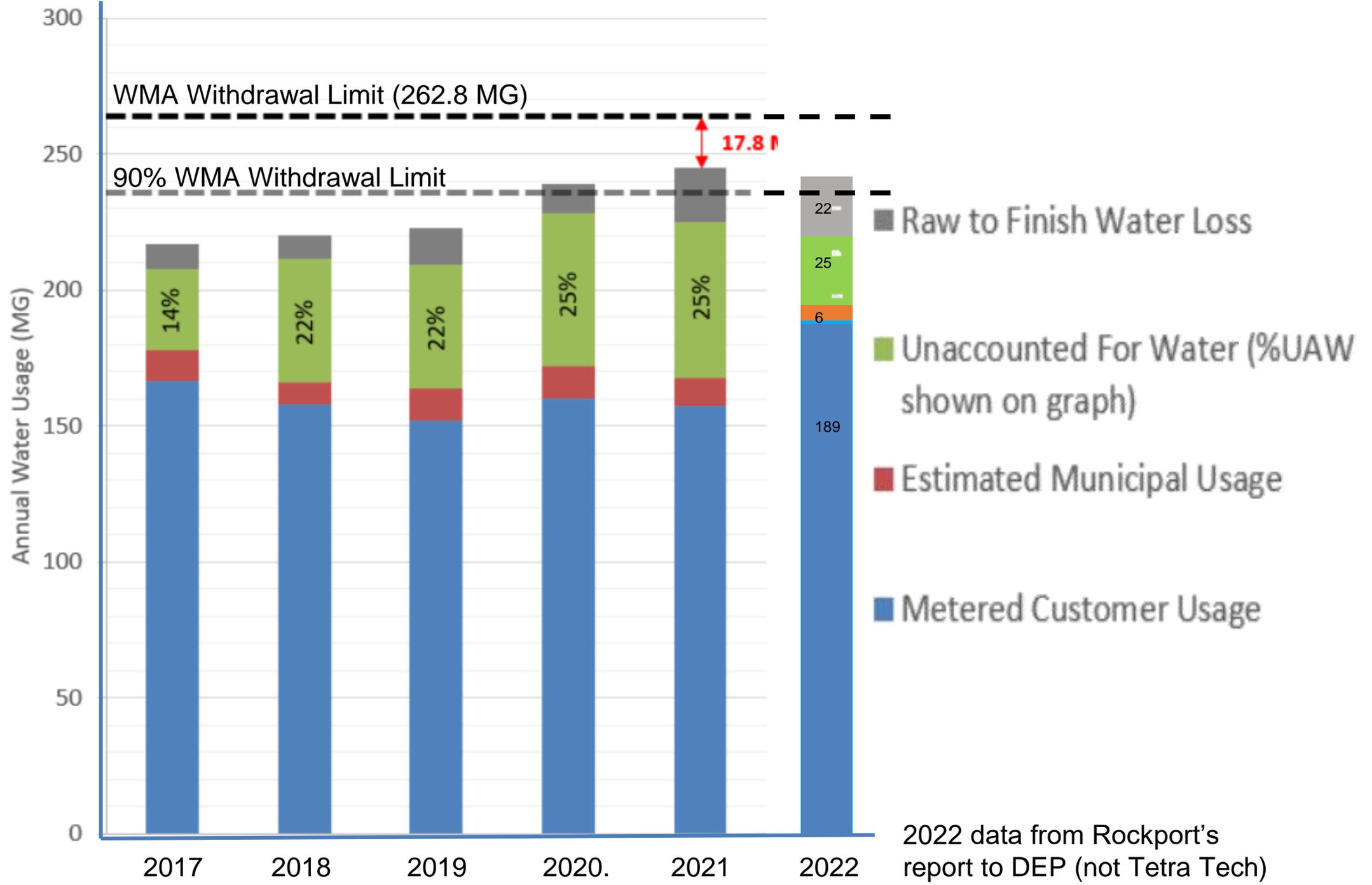
What Limits our Systems?

- The limit on **wastewater** is our **discharge permit**,
not the size of our treatment plant
- The limit on **water supply** is our **withdrawal permit**
not the size of our two treatment plants

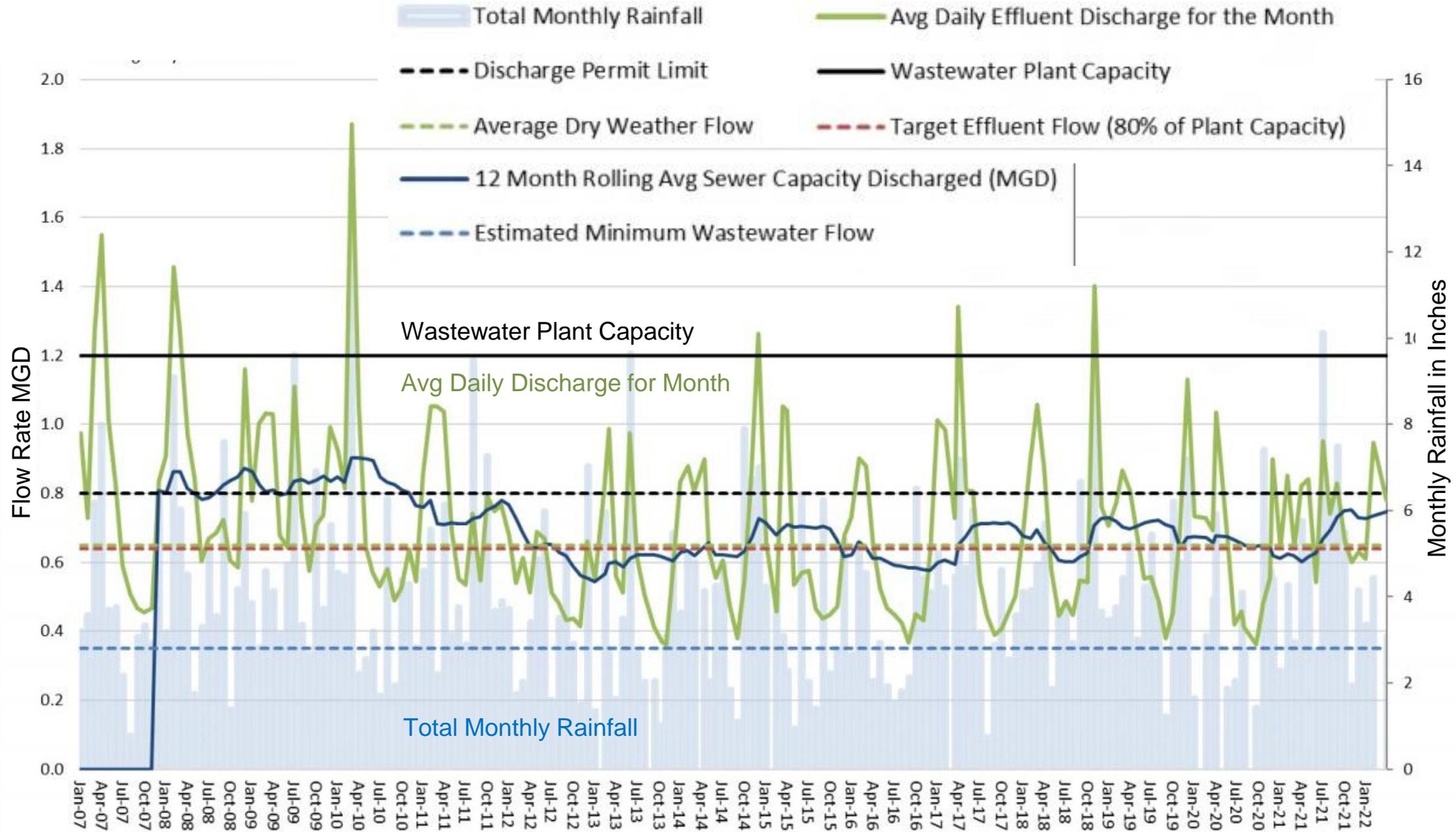
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- Our **water supply** comes from a pond, quarries, and wells,
which are also limited by rainfall and underground sources
- Our **wastewater** is increased by **rainfall** due to inflow and infiltration
- Details and possible solutions follow ...

Water Supply



Wastewater



Some Solutions to Allow Growth

Approach (and comment)	Water?	Wastewater?
Reduce inflow and infiltration (ongoing cost)		✓
Find and fix missing water (measured or actual)	?	?
Water restrictions (reduces revenue)	✓	?
Voluntary water conservation (reduces revenue)	✓	✓
Tiered water rates (higher for higher usage)	✓	?
Community water wells (for irrigation)	✓	?
Use greywater systems (require for high density)	✓	✓
Treat wastewater to drinking standards (ick factor)	✓	✓
Desalinate seawater (high energy, brine discharge)	✓	✗
Increase rainfall (expected regional trend)	?	✗