

Fremont Madison Irrigation District Aquifer Recharge

Fremont-Madison Irrigation District



FMID Aquifer Recharge Partnerships

- Idaho Water Resource Board
- Groundwater Districts
- Cities
- IGWA
- BLM
- IDEQ



Recharge Water Sources

Idaho Water Resource Board Recharge Water Right

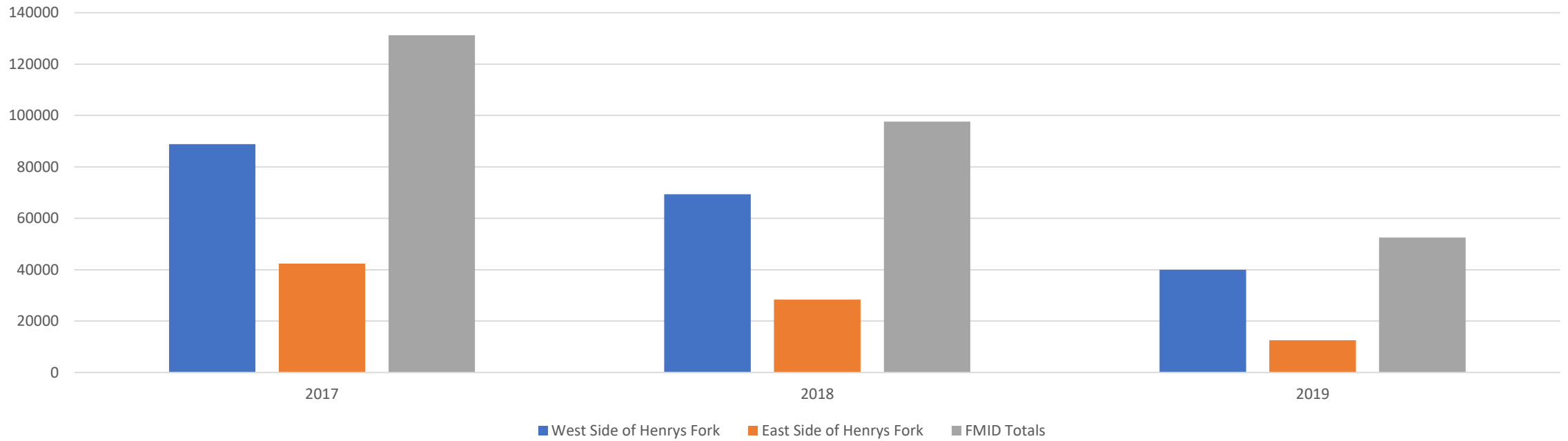
- Storage Water
- Groundwater Districts
- Cities

Temporary Water Right Permits

FMID Recharge Water Right

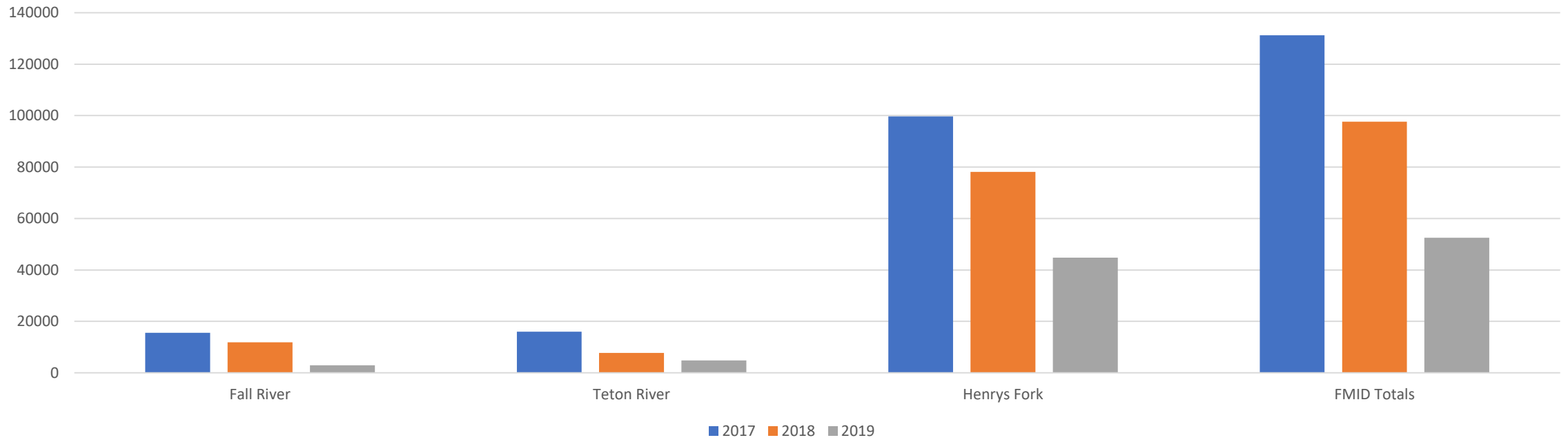


FMID Recharge Location (Acre Feet)



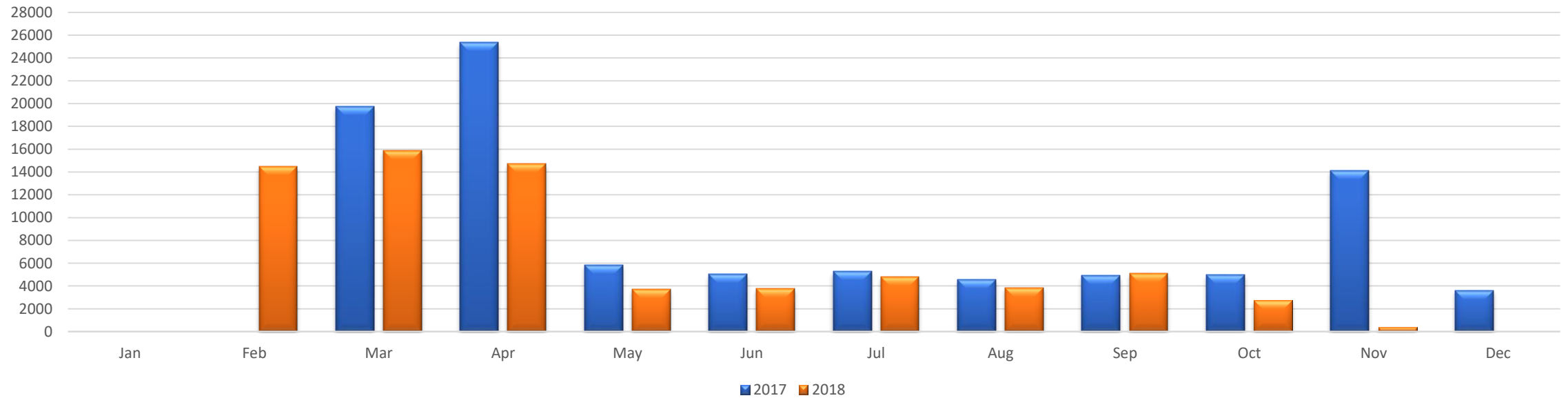
FMID Recharge 2017-2019

FMID Recharge by River (Acre Feet)



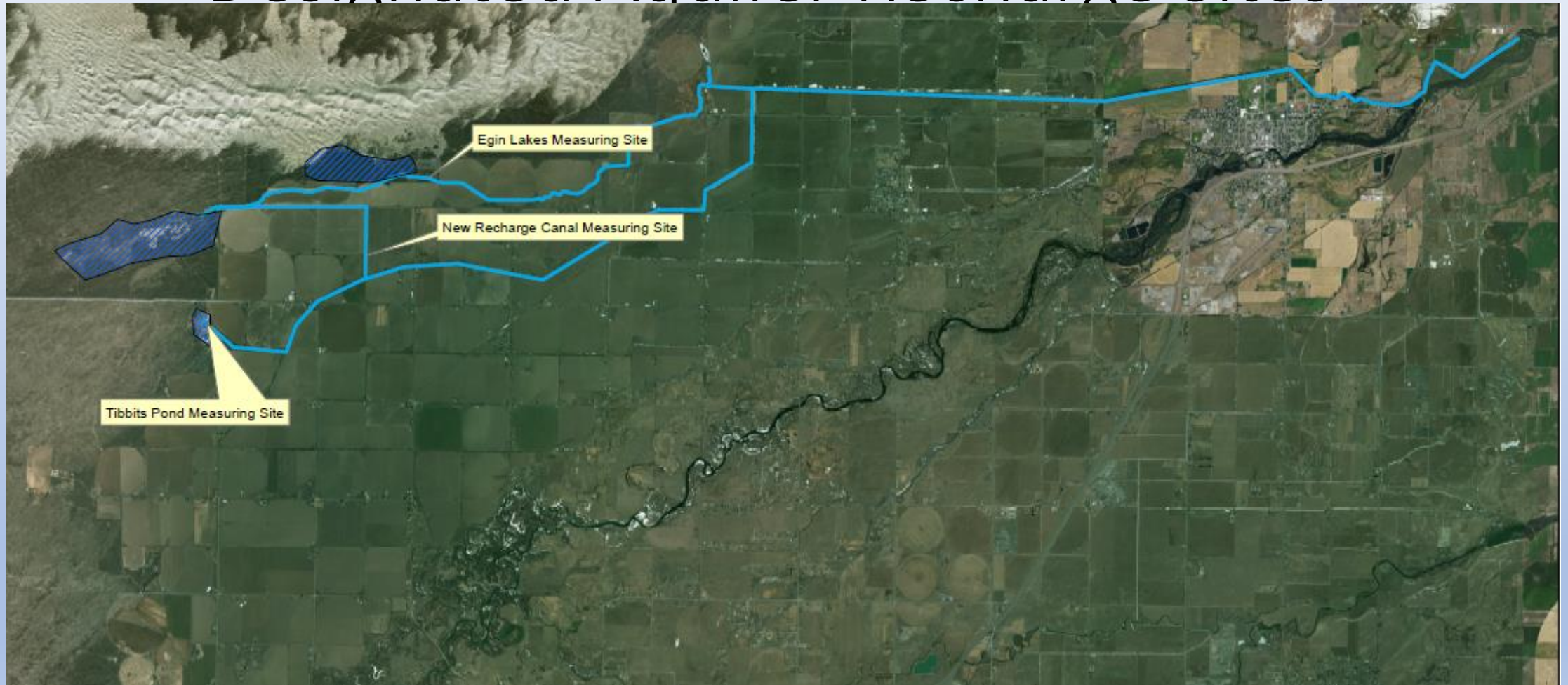
FMID Recharge by River 2017 to 2019

Egin Bench Total Aquifer Recharge (AF) 2017 to 2018 Comparison



West Side of the Henrys Fork

Designated Aquifer Recharge Sites



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Egin Lakes Recharge Site (end of the New Recharge Canal)





Tibbits Pond Recharge Site



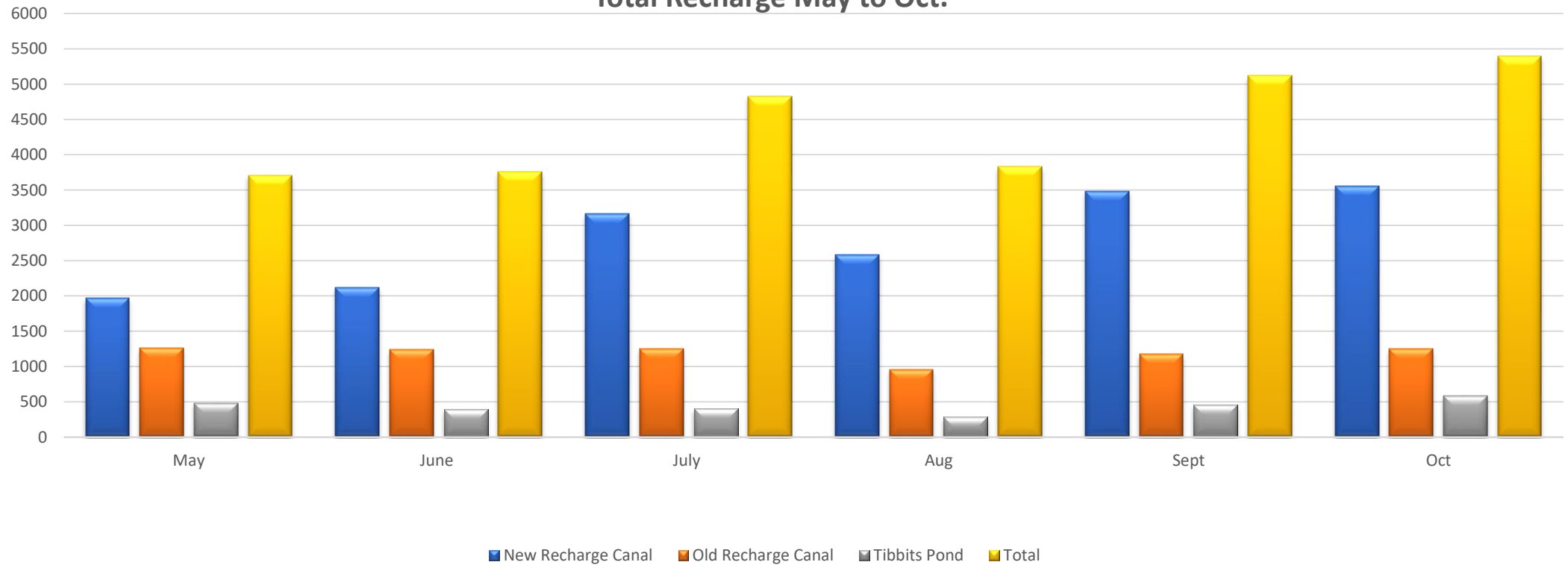


Egin Lakes Recharge Site

Egin Lakes

Monthly Volumes

2018 Egin Bench Designated Recharge Sites
Monthly Volumes (AF)
Total Recharge May to Oct.



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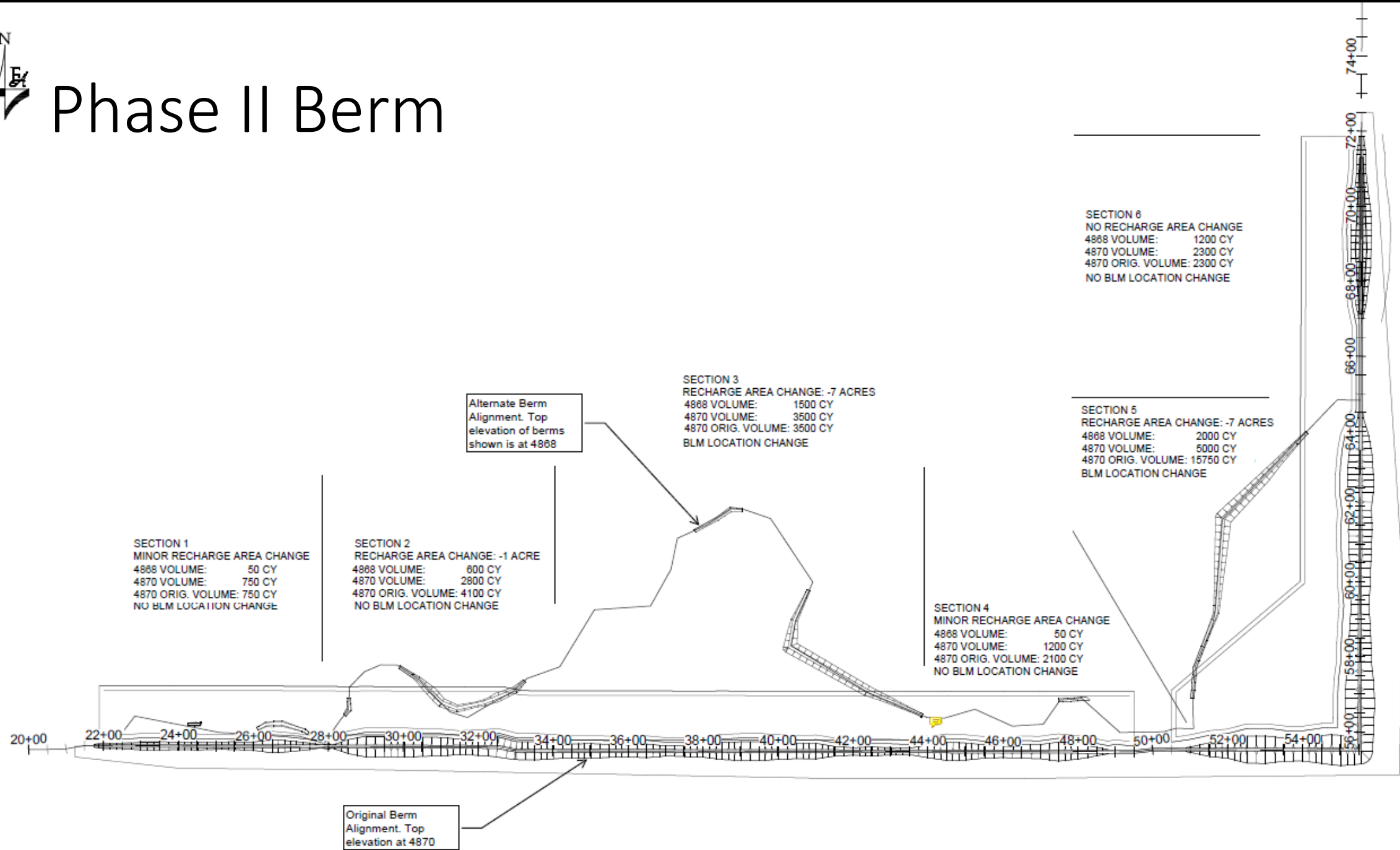




Egin Lakes Recharge Area Expansion (Phase II)



Phase II Berm





In-Canal Aquifer Recharge

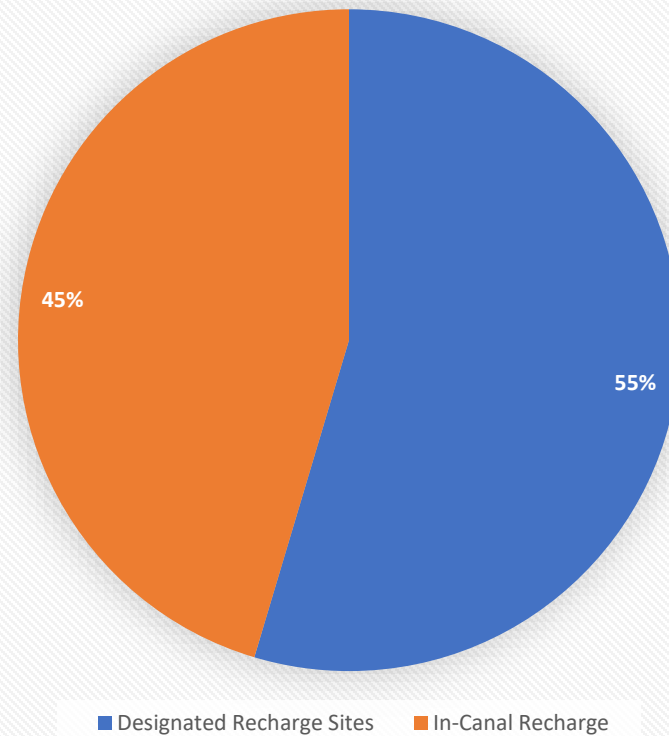


In-Canal Aquifer Recharge Continued



In Canal vs Designated Sites-Aquifer Recharge

**2018 Egin Bench Canals Recharge Comparison
In Canal and Designated Recharge Sites**

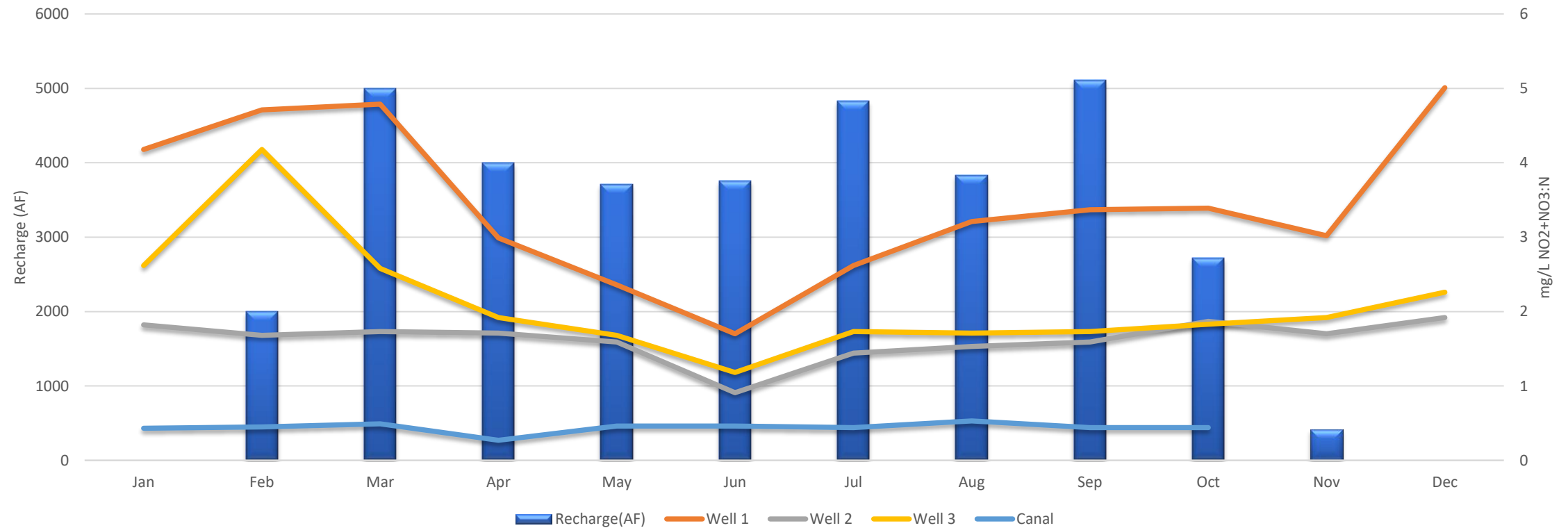


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Water Quality

Nitrate/Nitrite Levels
Comparison to Recharge Volume (AF)

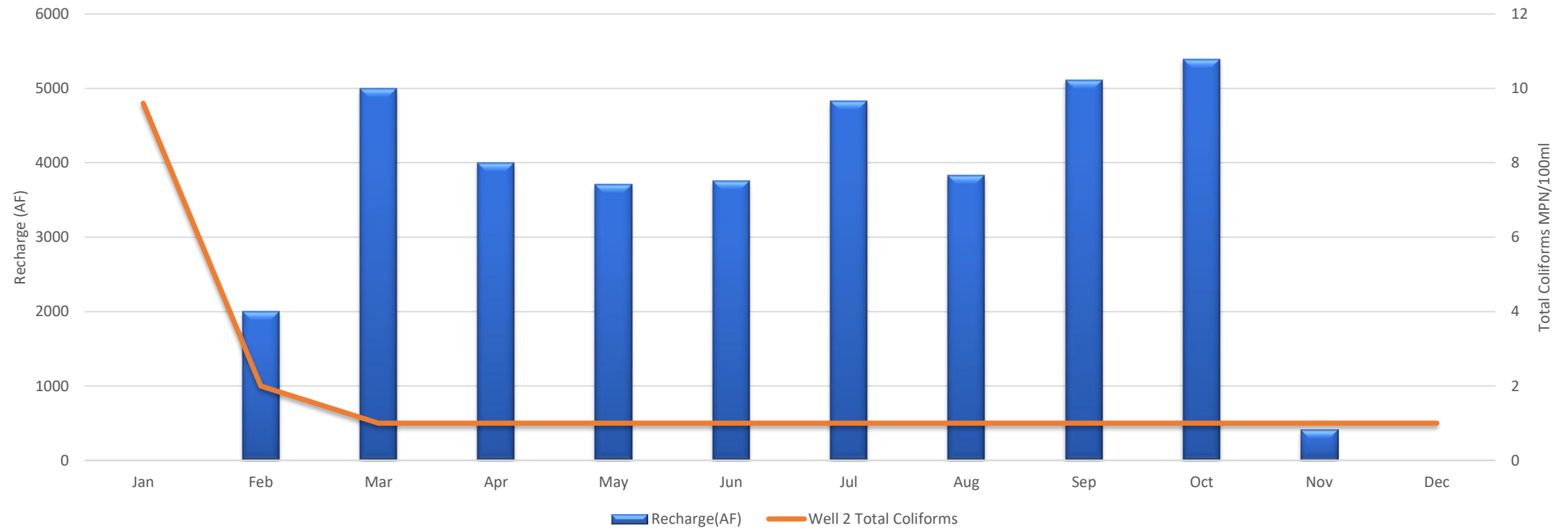


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Water Quality Continued

Well 2 Total Coliforms
Comparison with Monthly Recharge Volumes

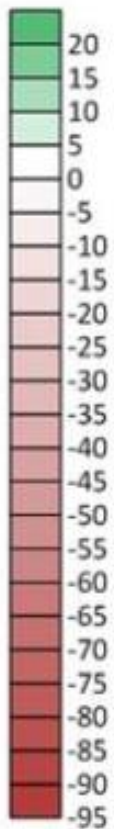


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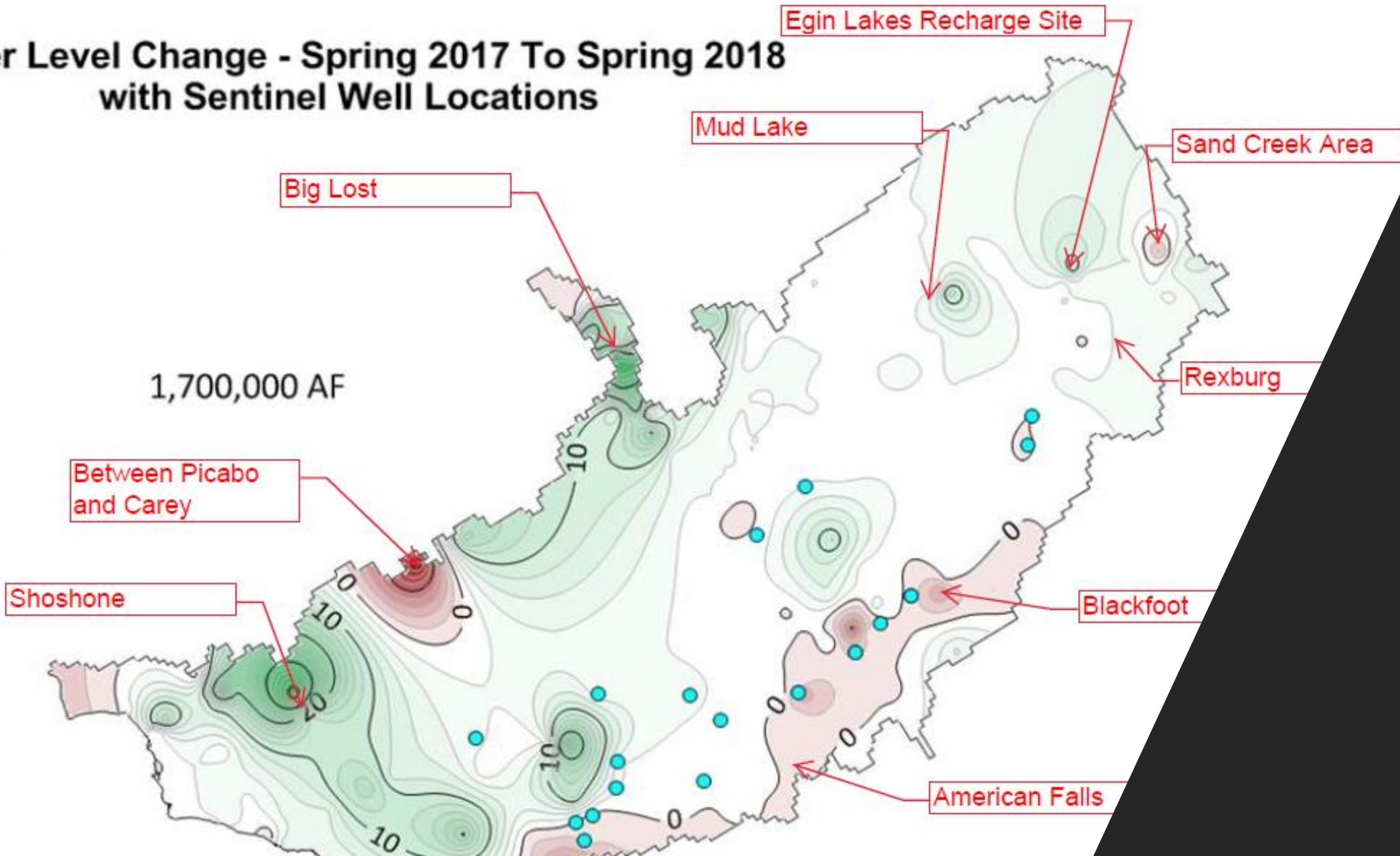


Water Level Change - Spring 2017 To Spring 2018 with Sentinel Well Locations

Water Level
Change (ft)

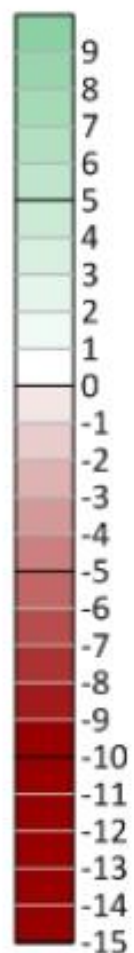


1,700,000 AF

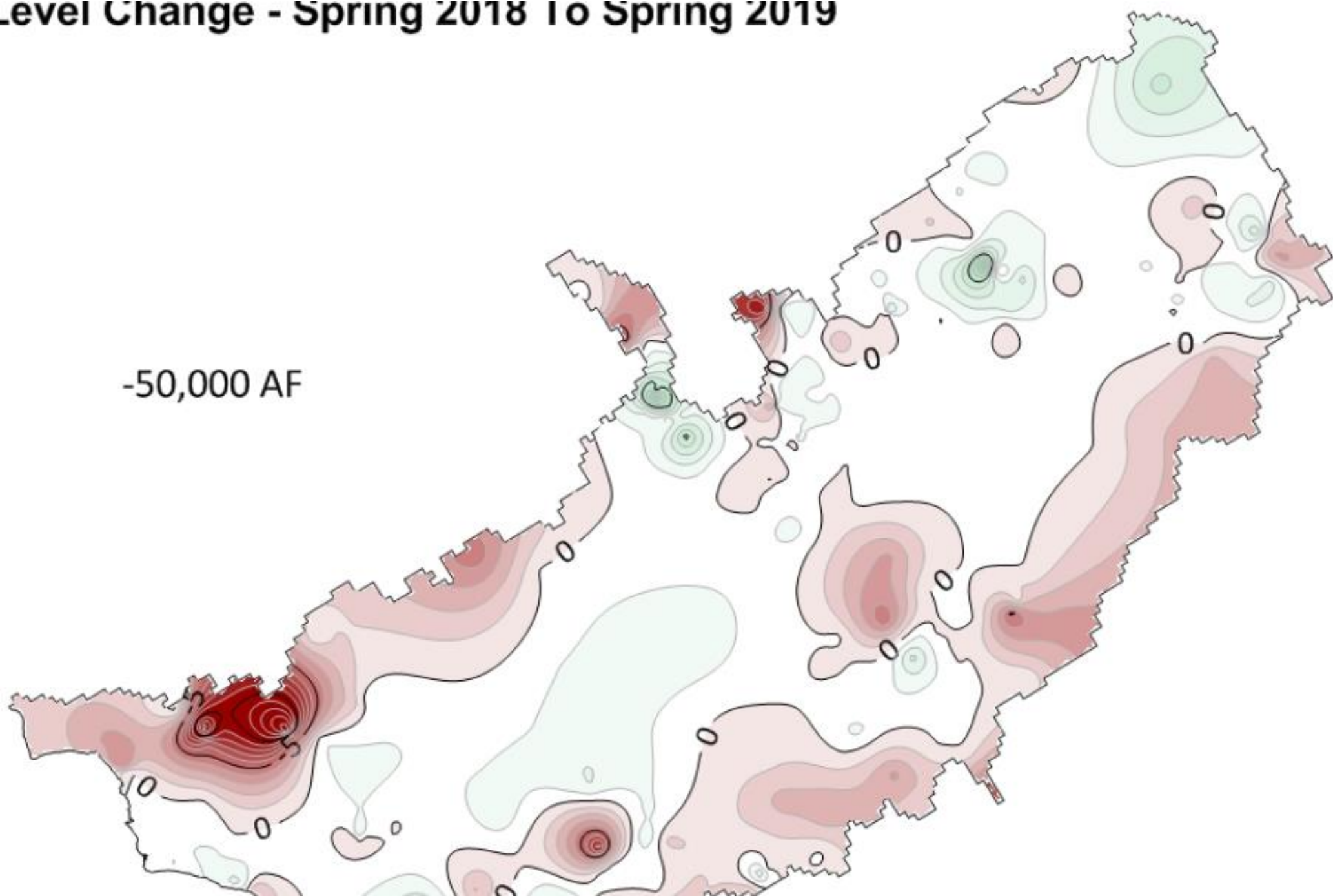


Water Level Change - Spring 2018 To Spring 2019

Water Level
Change (ft)

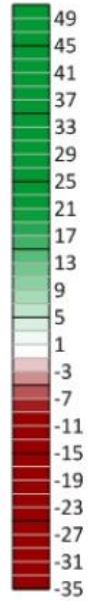


-50,000 AF

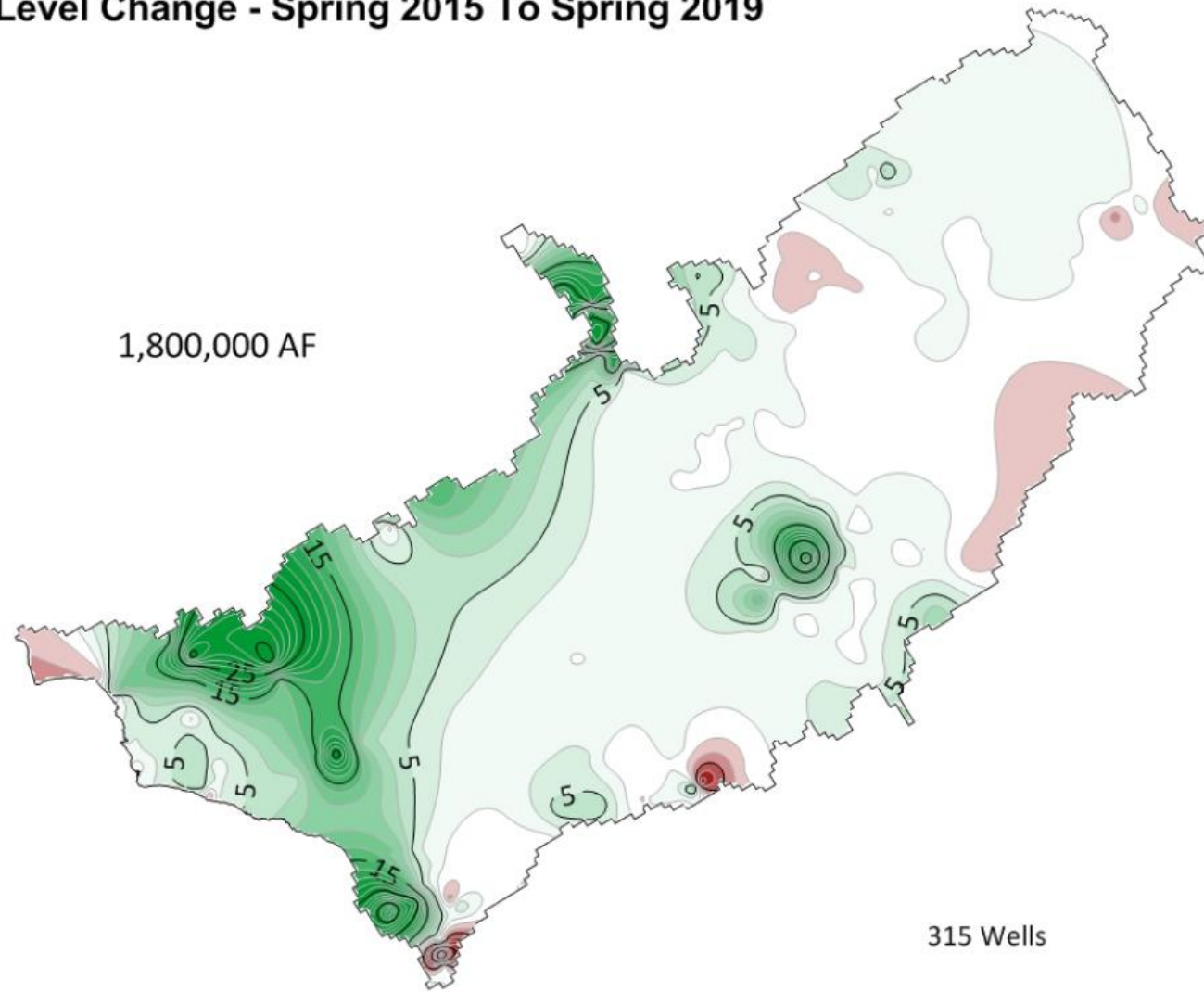


Water Level Change - Spring 2015 To Spring 2019

Water Level
Change (ft)



1,800,000 AF



315 Wells



Questions???