Basin Conditions and Summer Planning

OBGMA

Jordan Kear, PG, CHG 28 January 2021

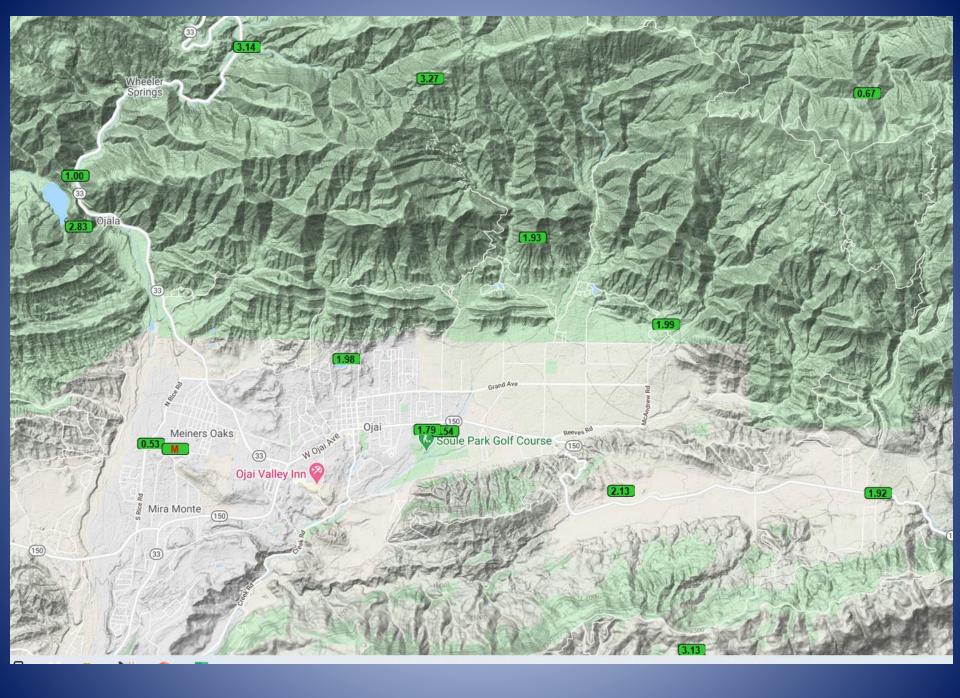


Basin Conditions

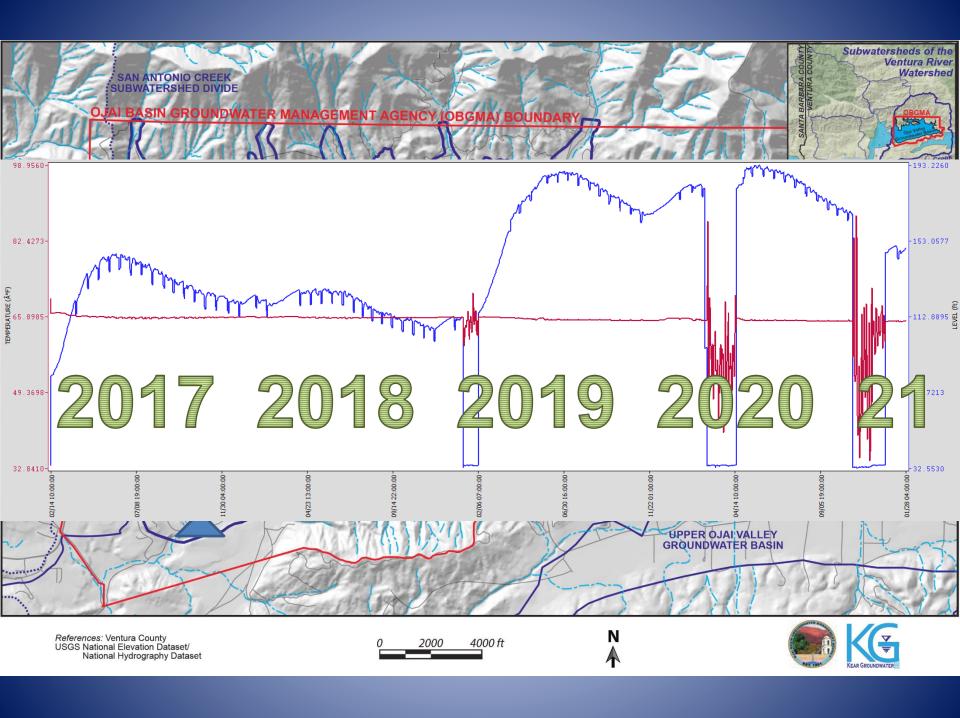
—Precipitation to date 2020-2021 Water Year:

Basin Storage
 Key Well Area Depth to Water
 Percentage in Storage

-Outflow San Antonio Creek Spill Point

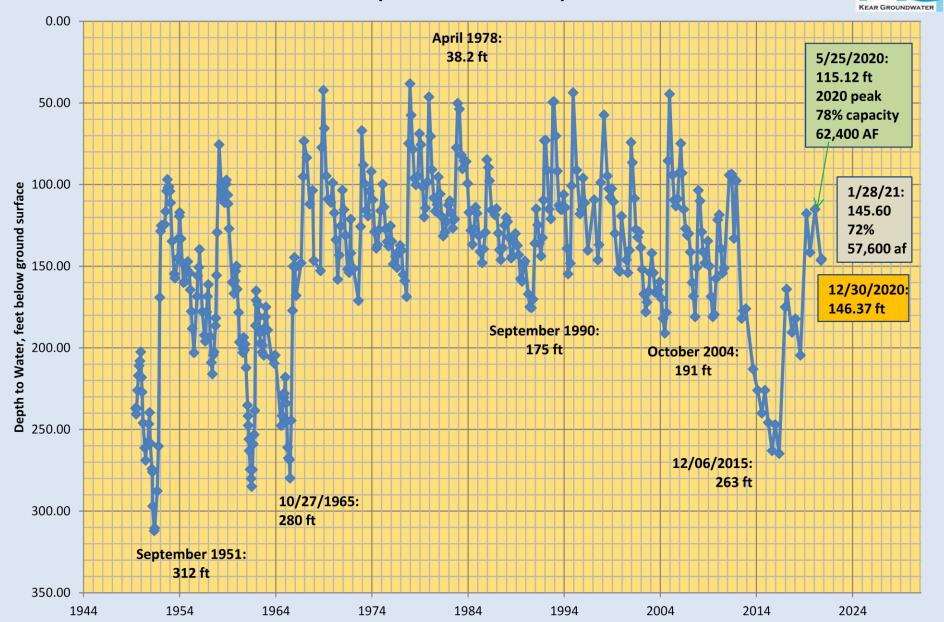






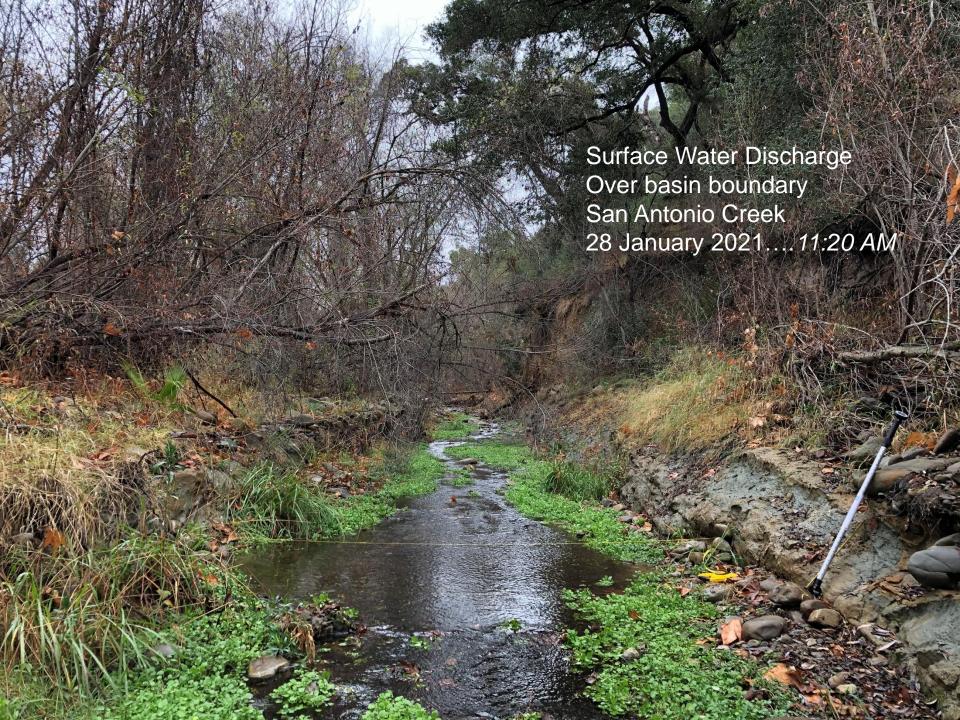
Depth to Water: Ojai Basin Key Well Area 04N/22W-5L8 (Carne and Grand)





First Daylighting water in San Antonio
Creek

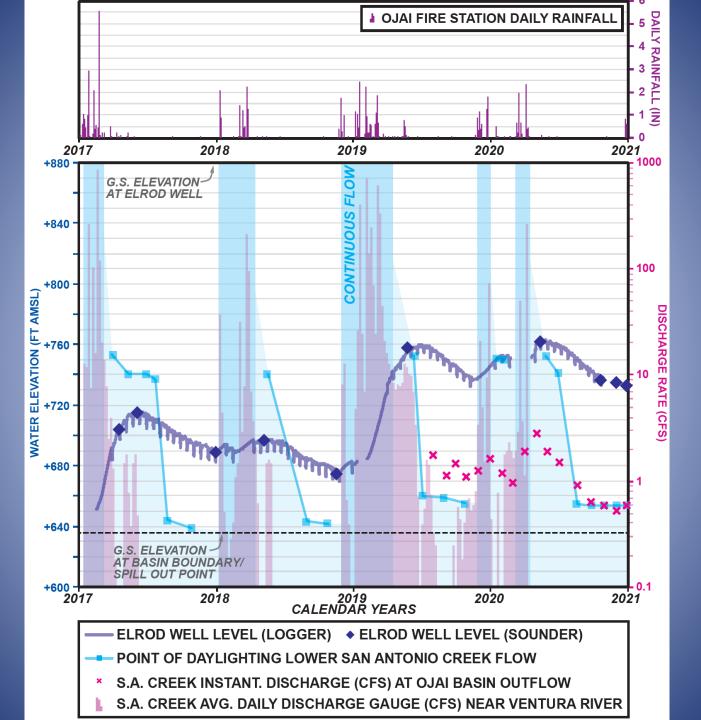


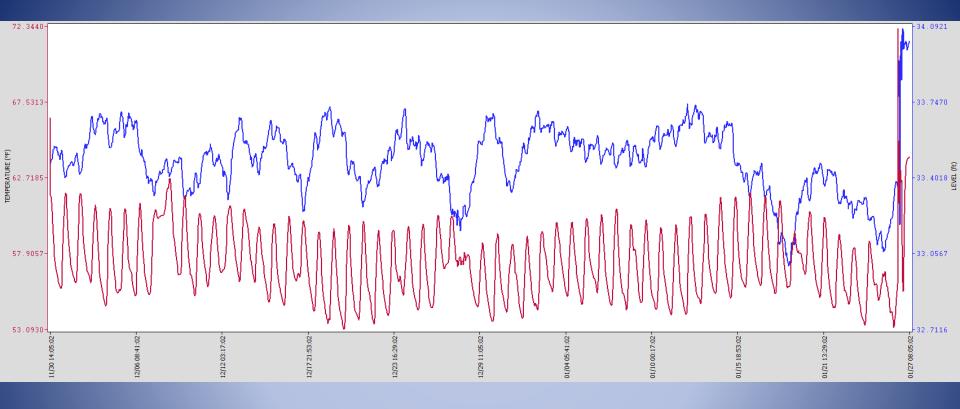


Monthly readings

- Surface outflow
- Snapshot-based
- 30 to 45 AF/mo
- WY 2020-21:
 148 AF to date

FLOW TRANSECT SURVEYS AT OJAI BASIN OUTFLOW		
Date	San Antonio Creek Flow Measurement (cfs)	Montgomerey Creek Flow Measurement (cfs)
29-Jul-2019	1.77	-
5-Sep-2019	1.14	-
26-Sep-2019	1.45	-
26-Oct-2019	1.09	-
26-Nov-2019	1.27	-
31-Dec-2019	1.63	-
29-Jan-2020	1.20	-
26-Feb-2020	0.96	-
31-Mar-2020	1.91	0.37
30-Apr-2020	2.80	0.54
28-May-2020	1.89	0.21
30-Jun-2020	1.51	0.08
18-Aug-2020	0.93	<0.01
24-Sep-2020	0.64	0.00
29-Oct-2020	0.59	0.00
30-Nov-2020	0.52	0.00
30-Dec-2020	0.60	0.05
28-Jan-2021	0.67	0.07

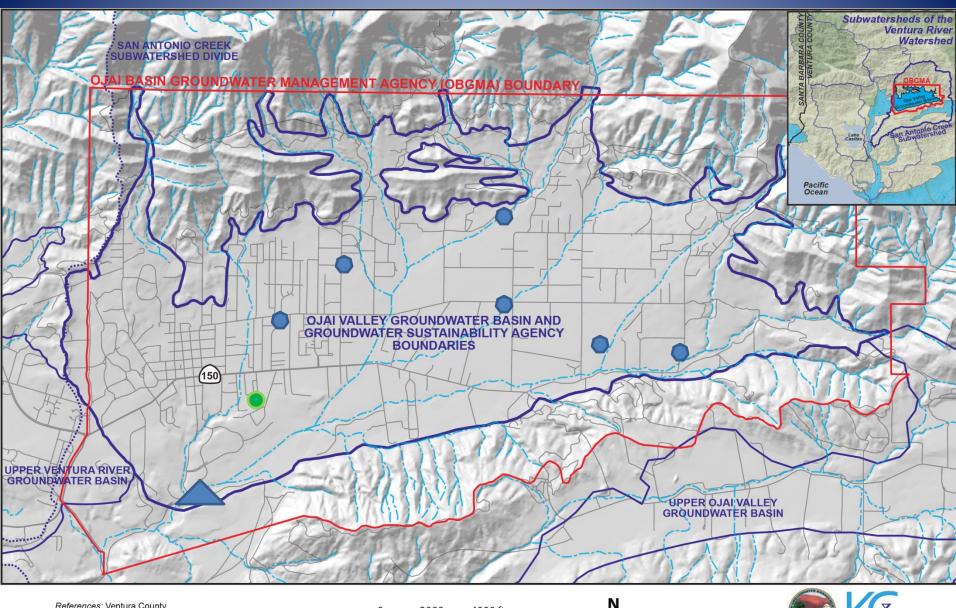




High temporal resolution creek stage data

- -3 minute interval
- -Temperature correlation
- -relatively consistent, must be barometrically pressure-corrected

Summer Plan: Southern Depth Discrete Monitoring Well -Funded by WCB Grant City of Ojai: Encroachment permit, well permit **OBGMA**: well permit Ventura County: Well Permit



References: Ventura County USGS National Elevation Dataset/ National Hydrography Dataset



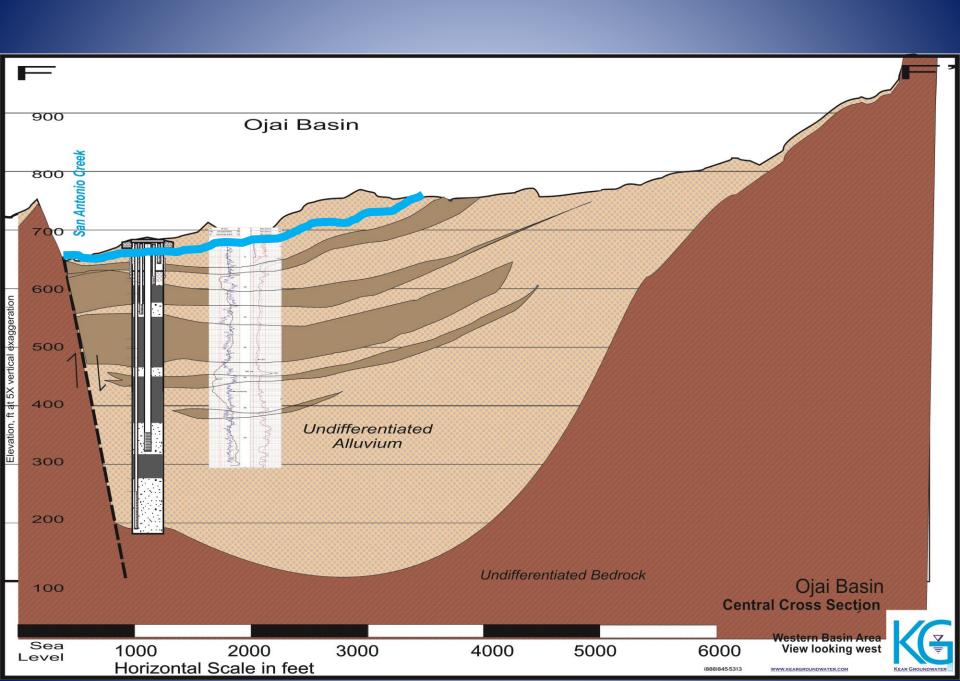












Schedule

- City Permitting: February 23
- OBGMA permit: February Meeting
- County Permit March 2021
- Drilling April
- Monitoring for 2021 peak Basin storage and Water Levels

Drilling Method Options

- Sonic Drilling Benefits: small footprint, low profile, continuous core, cuttings are dry and transportable, casing stabilizes borehole for piezometer installations and packing, sealing operations, crews have worked in City and tight locations
- Limitations: support yard distant, no elog before final design







Mud Rotary

Benefits include:

Proximity to drillers yard

Obtain elog prior to final well
design

Development

Normal for water wells

Limitations include:

Fluid disposal

Cuttings mixed with mud, disposal

High profile

Large footprint

Mud invasion issues

