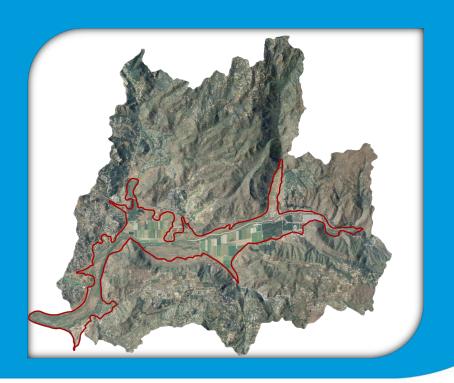
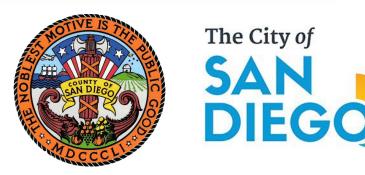
# San Pasqual Valley Groundwater Sustainability Plan (GSP) Stakeholder Workshop

Annual Report for Water Years 2020 and 2021



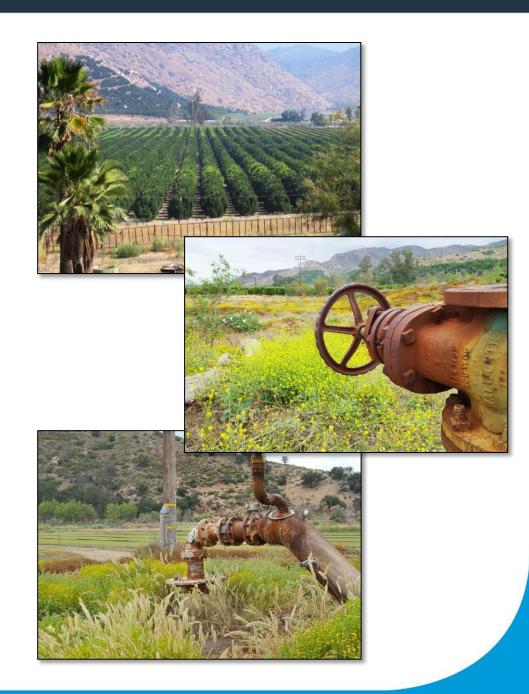




- This is a stakeholder workshop and anyone is welcome to ask questions or provide comments
- Public comment will take place at the end of each agenda item
- Those wishing to speak should place their name and organization in the Chat; participants will be called on in the order received
- Follow-up comments and questions can be sent to Staci Domasco (SDomasco@sandiego.gov)

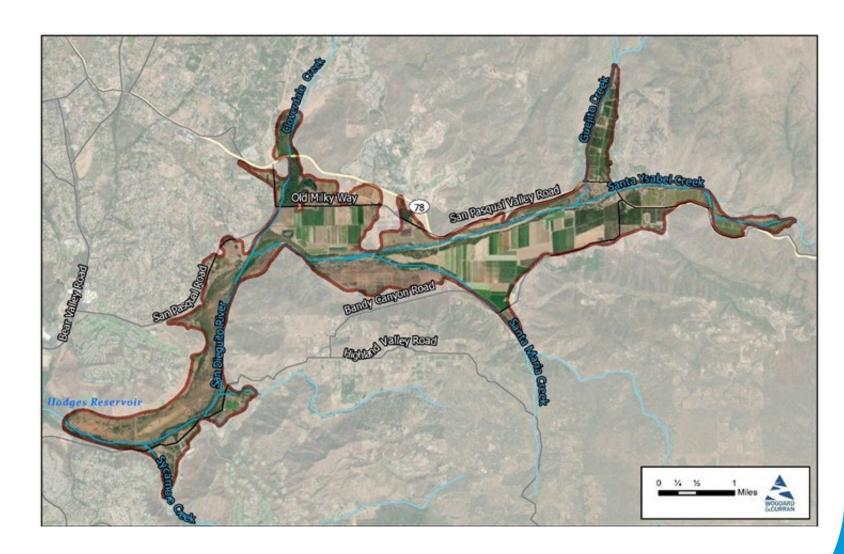
# Meeting Agenda

- Roll Call and Introductions
- Purpose and Objectives of the Annual Report
- Overview of Report Findings
  - Groundwater Levels
  - Change in Groundwater Storage
  - Groundwater Quality
  - Groundwater Production
- Public Comment
- Next Steps and Closing Remarks





- Review Annual Report for Water Years 2020 and 2021
- Share data collected on groundwater levels and groundwater quality
- Evaluate Basin conditions against thresholds
- Report out on implementation of projects and management actions



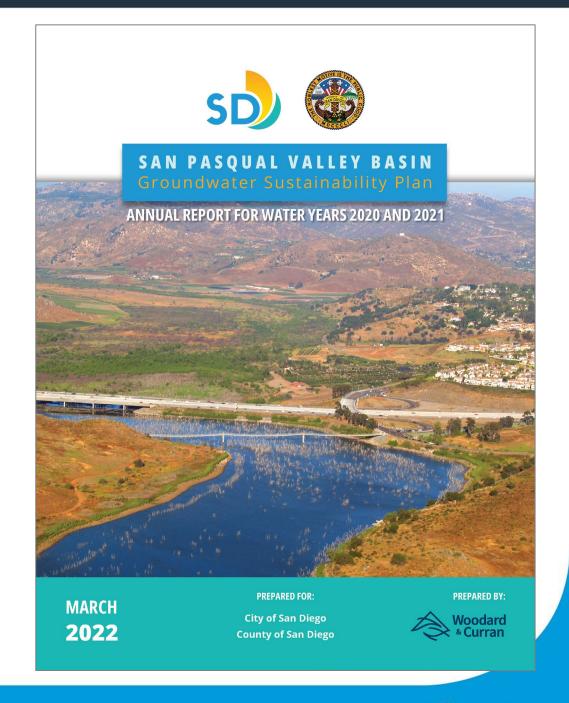
# Purpose and Objectives of Annual Report





### Purpose of the Annual Report

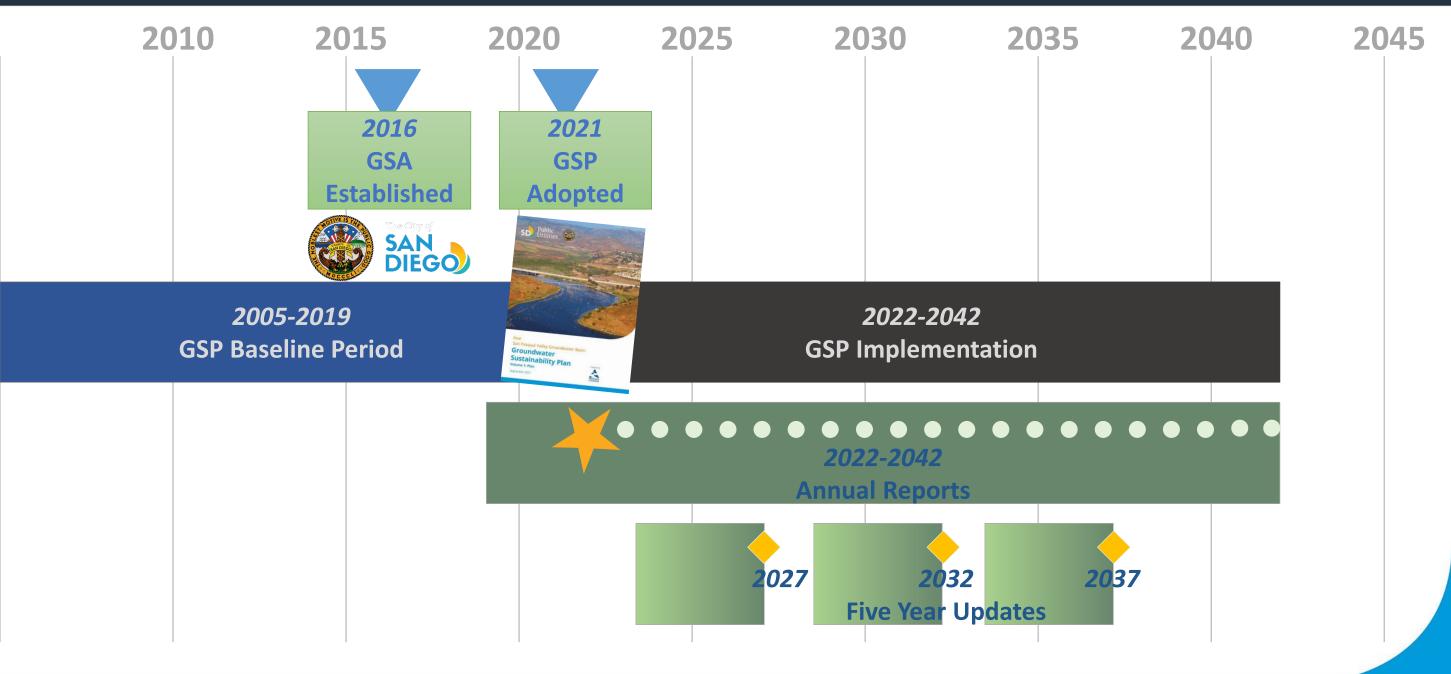
- Sustainable Groundwater Management Act (SGMA) requires submittal of Annual Reports each April 1 following adoption of the GSP
- Annual Reports provide information on groundwater conditions and implementation of the GSP for the prior Water Year (WY)
  - WY runs from October 1 through September 30
  - Our 1<sup>st</sup> Annual Report covers WYs 2020 and 2021 because the GSP data analysis was through 2019



# SGMA Requirements for Annual Reports

- Groundwater conditions
  - Contour maps for seasonal high and low conditions
  - Hydrographs
- Groundwater production by sector
  - Maps showing the distribution of pumping in the basin
- Surface water supply by sector
- Total water use by sector
- Change in groundwater storage
  - Maps showing the change in storage
  - Graphic showing annual and cumulative change in storage
- Progress toward GSP implementation
  - Interim milestones
  - Status of projects and management actions (PMAs)





Questions?



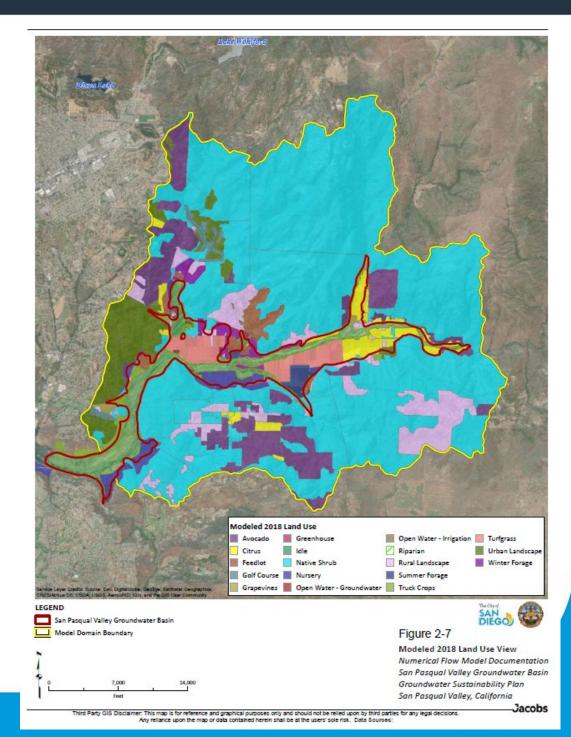
# Overview of Report Findings





#### Precipitation and Groundwater Production

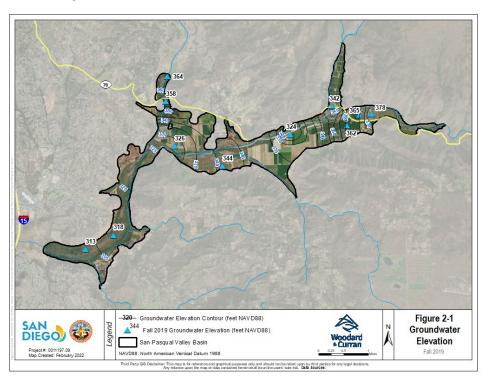
- PRISM data used for precipitation
  - WY 2020 (10/1/2019-9/30/2020): 22.0 inches – Wet year
  - WY 2021 (10/1/2020-9/30/2021): 6.9 inches – Critically Dry year
- Estimated groundwater production using SPV GSP Model approach
  - Demand based on land use and population
  - Assumes no change from 2020 conditions
  - Excludes imported applied water
  - Considers water year type and ET

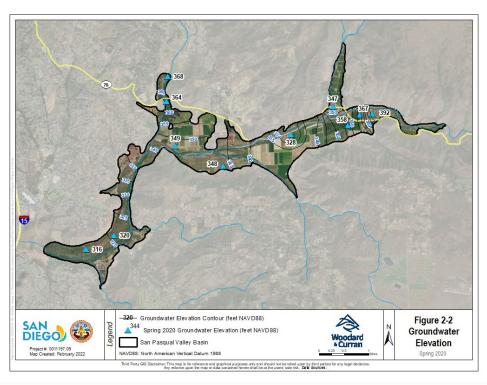


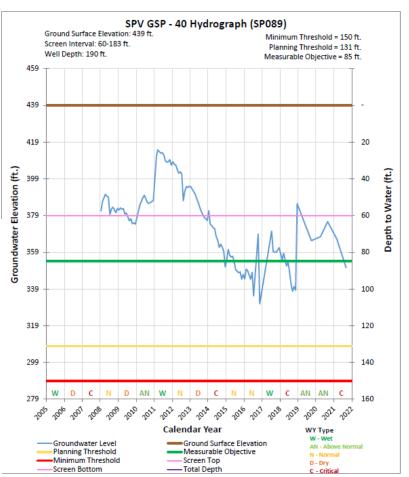


#### WYs 2020 and 2021 Groundwater Levels

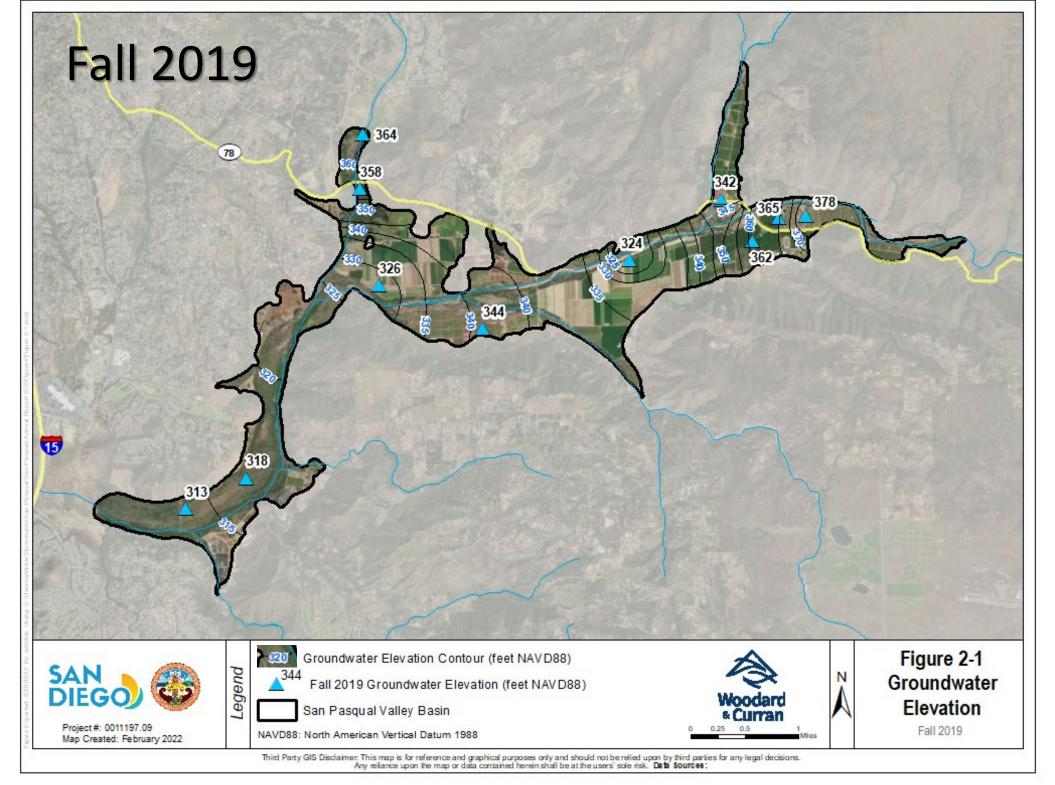
- Similar groundwater flow patterns seasonally and for both WYs
- GW level trends
  - Recovery during WYs 2019 and 2020
  - Declining levels during WY2021
- GW levels did not exceed Minimum Thresholds (MTs) or Planning Thresholds (PTs)
- GW levels for several wells were shallower than the Measurable Objectives (MOs)



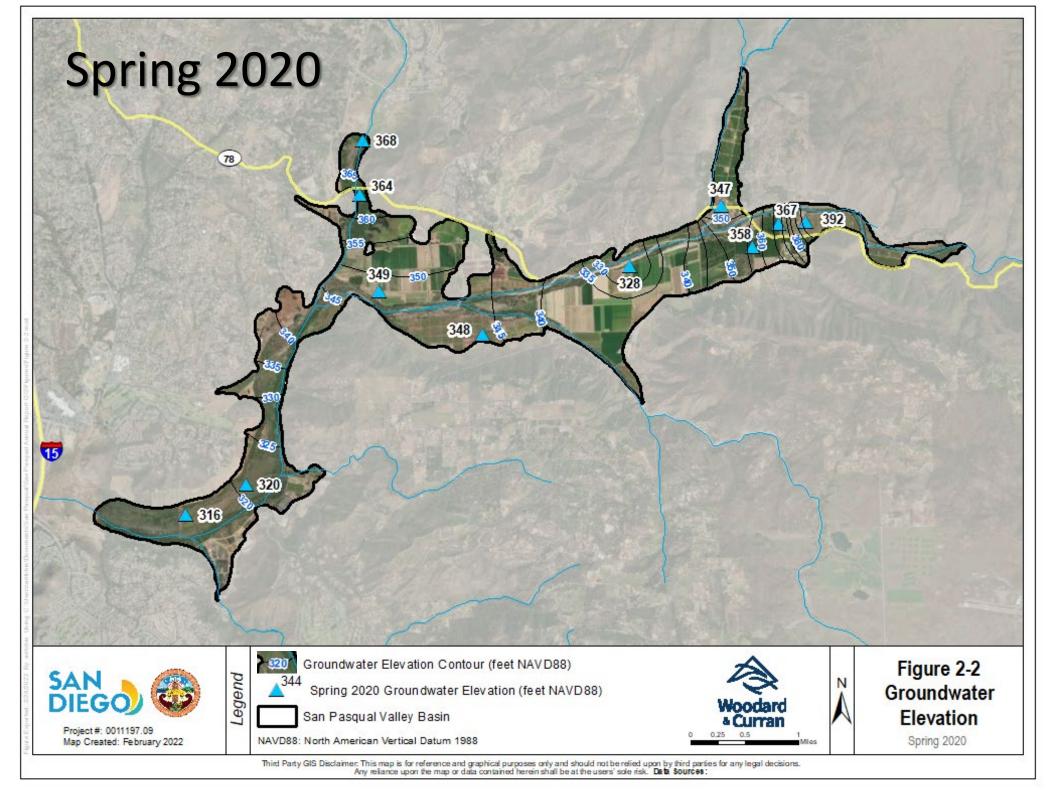








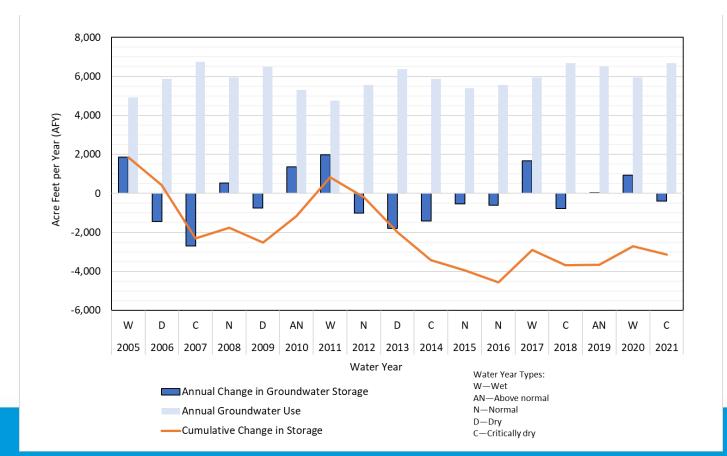


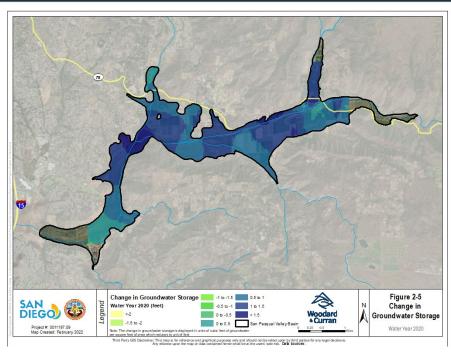


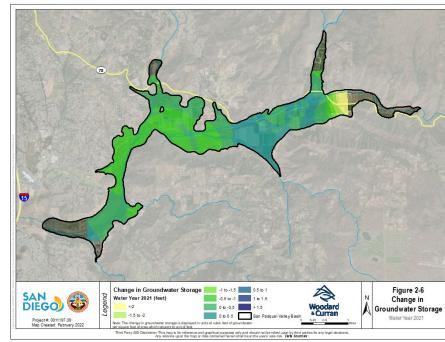


#### WYs 2020 and 2021 Change In Storage

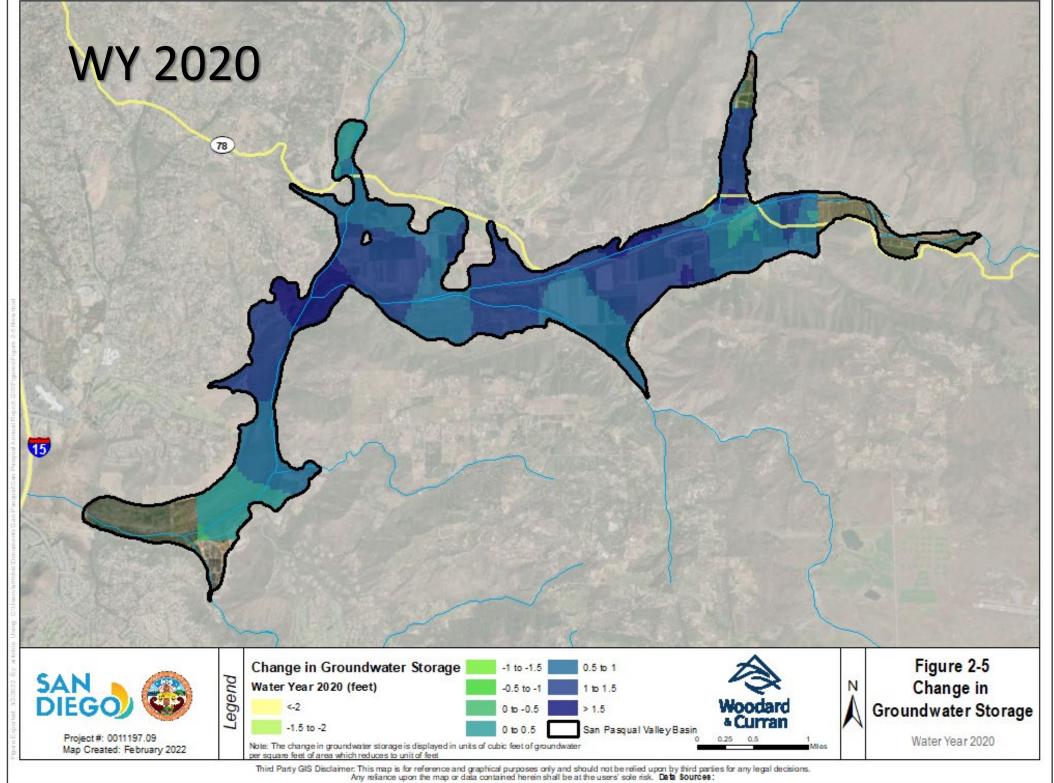
- Estimated based on change in groundwater levels
- Annual Change in storage
  - WY2020 (Wet): +942 AF
  - WY2021 (Critically Dry): -409 AF
- Cumulative Change is better than 2019 (end of baseline)
  - WY 2005-2021: -3,113 AF



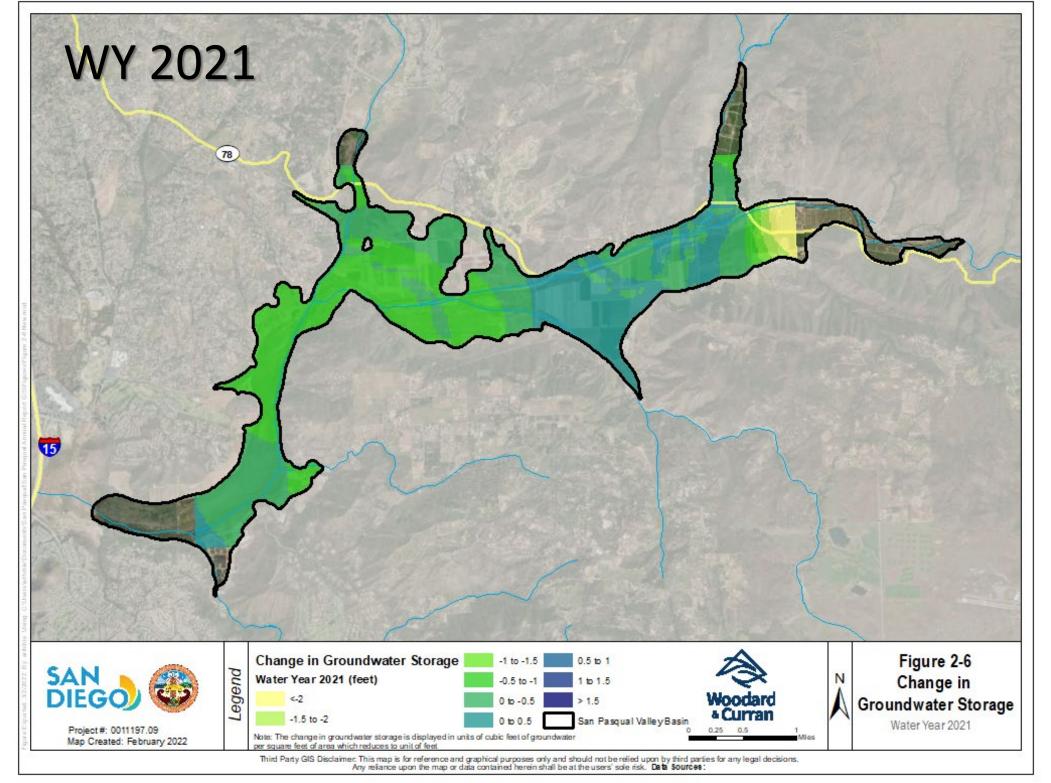




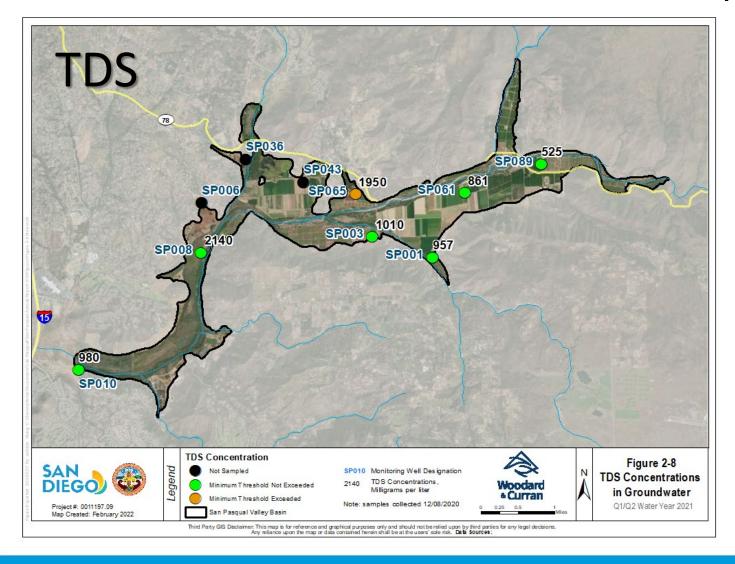


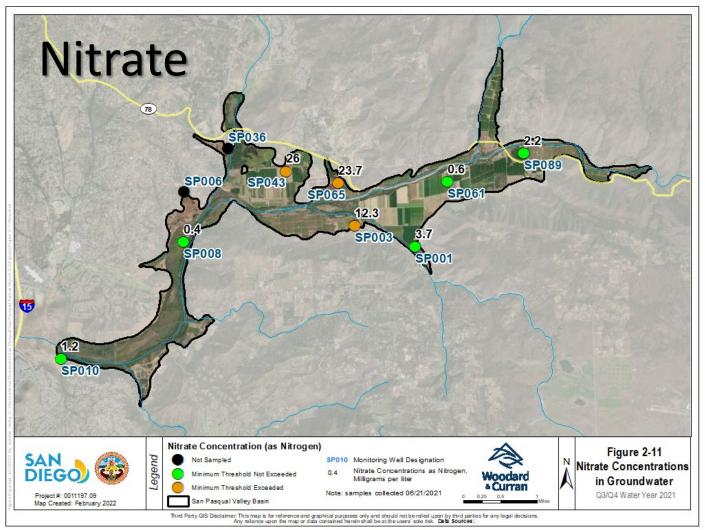






- TDS MT exceedances in one well (SP065)
- Nitrate exceedances in three wells (SP043, SP065, SP003)



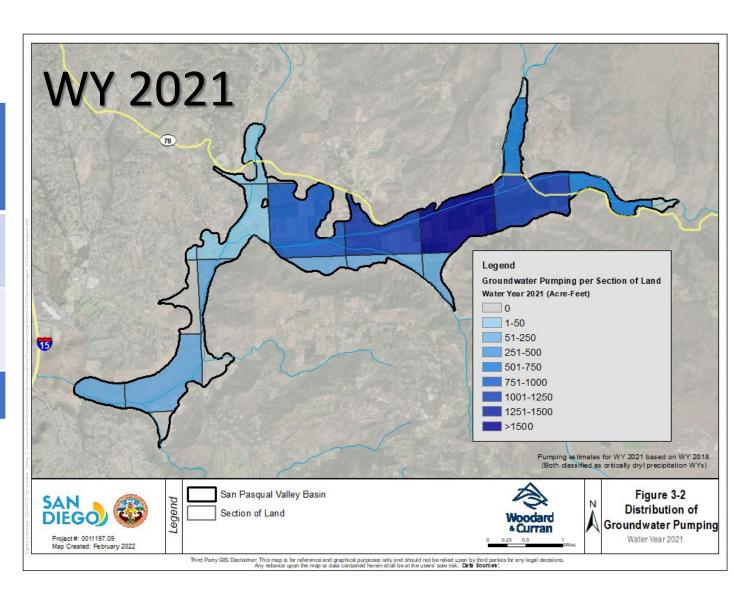




#### WYs 2020 and 2021 Groundwater Production

Water Year	Water Year Type	Agricultural Pumping (AFY)	Domestic Pumping (AFY)	Total Pumping (AFY)
2020	Wet	5,933	3	5,936
2021	Critically Dry	6,664	3	6,667

AFY = acre feet per year



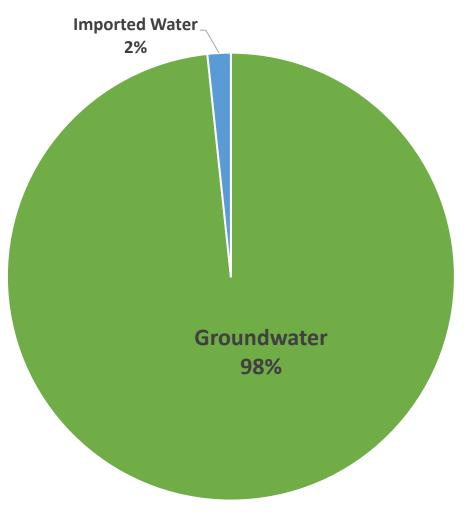


Source	WY 2020 (AF)	WY 2021 (AF)
Groundwater		
Agricultural <sup>a</sup>	5,933	6,664
Domestic <sup>b</sup>	3	3
Surface Water	0	0
Imported Applied Water Agricultural <sup>c</sup>	100	114
Total Water Use	6,036	6,781

a) Based on SPV GSP Model results for WY 2017 (applied to WY 2020) and WY 2018 (applied to WY 2021)

AF = acre-feet





b) Assumed constant population and per capita per day demand see Appendix I of the GSP

c) Based on previous modeled results for WY 2017 (applied to WY 2020) and WY 2018 (applied to WY 2021)

#### Status of Management Action Implementation:

- Management Action 3 Support Water Quality Improvement Plan (WQIP)
   Actions Continuous
- Management Action 4 Coordinate and Collaborate Regionally with Other Entities to Perform Monitoring and Implement Regional Projects *Continuous*
- Management Action 5 Education and Outreach for TDS and Nitrate Planned for 2022
- Management Action 6 Coordinate with City on Hodges Watershed Improvement Project – Continuous
- Management Action 7 Initial Surface Water Recharge Evaluation Planned for 2022-2024
- Management Action 8 Study Groundwater Dependent Ecosystems, Phase I Desktop Study – *Planned for 2022*

Questions?



#### **PUBLIC COMMENT**



#### **NEXT STEPS & CLOSING REMARKS**



# Next Steps & Closing Remarks

- San Pasqual Valley GSP Website
  - https://www.sandiegocounty.gov/content/sdc/pds/SGMA/san-pasqualvalley.html
- San Pasqual Valley GSP
  - https://sgma.water.ca.gov/portal/gsp/preview/75
- Annual Report for Water Years 2020 and 2021
  - https://sgma.water.ca.gov/portal/gspar/preview/140
- San Pasqual Valley GSP Data Management System (Opti)
  - <a href="https://opti.woodardcurran.com/sanpasqual/login.php">https://opti.woodardcurran.com/sanpasqual/login.php</a>

- Kickoff of Management Action No 7 Initial Surface Water Recharge Evaluation
  - June 2022 Stay tuned for workshop date announcement!