

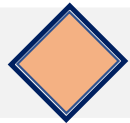


# Sand Canyon Village Water Supply Verification

Water Resources and Watershed Committee  
August 9, 2023  
Rick Vasilopoulos



# Presentation Outline



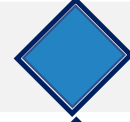
**SB 221 Water Supply Verification**



**Project Description & Water Demands**



**Water Supply Approach**



**Supply and Demand Comparisons**



**Conclusions and Recommendations**

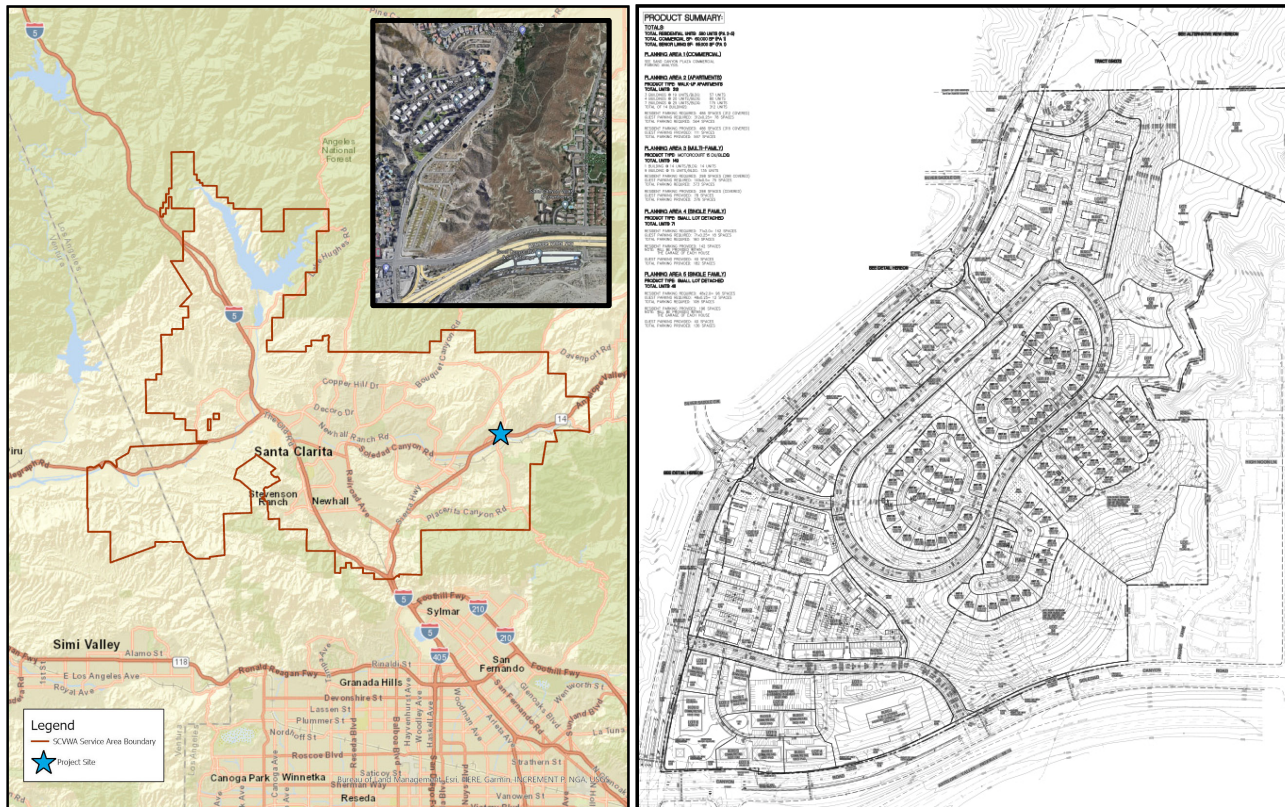


## The Water Supply Verification

- Triggered by Tentative Map approval
- Verification over 20-year planning projection
  - Supported by UWMP and WSA
- WSA estimates replaced with “firm assurances”
  - Include future planned supplies
- WSV’s are not part of CEQA



# Project Location



The Sand Canyon Village Development is located at the North-East corner of Soledad Canyon Road and Sand Canyon Road in Canyon Country



# San Canyon Village Description

- The Project is within SCV Water's service area.
- The Project consists of:
  - 119 Single Family Homes
  - 461 Multi Family Attached Homes
  - 140 Unit Assisted Living Facility
  - 45,000 Square Feet of Commercial Space
  - 2 Acre Private Park and Recreation Center
  - 18 acres of Dedicated Irrigation



# Sand Canyon Village -Demand Assessment Analysis

**TABLE 2-6**  
**WATER DEMAND ESTIMATE - SAND CANYON VILLAGE**  
**Projected Normal/Average Year Demands**

| Unit   | # of Units | Unit Type | Demand (AFY) |
|--|------------|-----------|--------------|
| Commercial Development                           | 45,000     | SF        | 17.15        |
| Single Family (6-10 du/ac)                       | 119        | DU        | 57.86        |
| HOA/Dedicated Irrigation                         | 17.9       | Acres     | 58.32        |
| Multi-Family Residential                         | 461        | DU        | 139.52       |
| Assisted Living Facility                         | 140        | DU        | 16.10        |
| <b>Total Average Year Demands (AFY)</b>          |            |           | <b>289</b>   |
| <b>Projected Single Dry Year Demands (AFY)</b>   |            |           | <b>306</b>   |
| <b>Projected Multiple Dry Year Demands (AFY)</b> |            |           | <b>295</b>   |

Note: Totals reflect additional demand of 25.6% above MWELo demands and a 3.77% climate change factor



# Water Supply Approach

- WSV relies on SCV Water's current water supply portfolio
- Supplies from 2020 UWMP modified due to:
  - 1) DWR's Final 2021 SWP Delivery Capability Report
  - 2) Recovery schedule of wells impacted by Perchlorate/VOCs and PFAS contamination
  - 3) New well treatment due to newly proposed USEPA MCL's for PFAS and PFOA



# SWP Table A Reliability Table

| Table 3-1   |        |        |        |        |           |
|---|--------|--------|--------|--------|-----------|
| SWP TABLE A SUPPLY RELIABILITY (AF) <sup>(a)(b)</sup> |        |        |        |        |           |
| Wholesaler (Supply Source)                            | 2020   | 2025   | 2030   | 2035   | 2040-2050 |
| <b>Average Water Year<sup>(c)</sup></b>               |        |        |        |        |           |
| SWP Table A Supply                                    | 53,312 | 52,360 | 51,408 | 50,456 | 49,504    |
| % of Table A Amount <sup>(d)</sup>                    | 56%    | 55%    | 54%    | 53%    | 52%       |
| <b>Single-Dry Year<sup>(e)</sup></b>                  |        |        |        |        |           |
| SWP Table A Supply                                    | 2,856  | 2,618  | 2,380  | 2,142  | 1,904     |
| % of Table A Amount <sup>(d)</sup>                    | 3%     | 3%     | 3%     | 2%     | 2%        |
| <b>Multiple-Dry Year<sup>(f)</sup></b>                |        |        |        |        |           |
| SWP Table A Supply                                    | 23,800 | 23,800 | 23,800 | 23,800 | 23,800    |
| % of Table A Amount <sup>(d)</sup>                    | 25%    | 25%    | 25%    | 25%    | 25%       |





# Saugus Well Treatment Schedule

| WELL                          | MAIN TREATMENT   | START UP DATE |
|-------------------------------|------------------|---------------|
| (Newhall) N12                 | PFAS             | Jun-28        |
| (Newhall) N11, N13            | PFAS             | Jan-26        |
| Saugus 1 & 2                  | VOCs             | Oct-25        |
| Well 201 <sup>(a)</sup>       | PERCHLORATE/VOCs | Jan-25        |
| Well 205 <sup>(a)</sup>       | PERCHLORATE/VOCs | Oct-25        |
| Well 206 & 207 <sup>(b)</sup> | PFAS             | Jun-28        |
| Saugus 3 and 4                |                  |               |
| Saugus 5 and 6                |                  |               |
| Saugus 7 and 8                |                  |               |



# Alluvial Well Treatment Schedule

| WELL                            | MAIN TREATMENT | TREATMENT STATUS     | START UP DATE |
|---------------------------------|----------------|----------------------|---------------|
| (N Wells) N, N7, N8             | PFAS           | Online               | Dec-20        |
| Q2                              | PERCHLORATE    | Online               | May-23        |
| Valley Center                   | PFAS           | Online               | Oct-22        |
| Santa Clara, Honby              | PFAS           | Construction         | Dec-23        |
| T7, U4, U6                      | PFAS           | Final Design         | Oct-25        |
| S6, S7, S8                      | PFAS           | Final Design RFP     | Sep-26        |
| E14, E15, E16, E17              | PFAS           | Planning             | Dec-26        |
| North Oaks West, Central & East | PFAS           | Planning RFP issued  | Jun-28        |
| Sierra Well                     | PFAS           | Planning RFP issued  | Jun-28        |
| Well W10                        | PFAS           | Planning RFP issued  | Jun-28        |
| Well W9                         | PFAS           | Planning RFP issued  | Jun-28        |
| Well D                          | PFAS           | Planning RFP issued  | Jun-28        |
| Lost Canyon 2, 2A, Sand Canyon  | PFAS           | Planning RFP issued  | Jun-28        |
| Mitchel 5A                      | PFAS           | Planning             | TBD           |
| Clark Well                      | PFAS           | Planning RFP issued  | Jun-28        |
| (Castaic) Well C1               | PFAS           | Blending Strategy    | TBD           |
| (Pinetree) Well P3              | PFAS           | No Planned Treatment | TBD           |
| (Castaic) Well C1               | PFAS           | Blending Strategy    | TBD           |
| (Pinetree) Well P3              | PFAS           | No Planned Treatment | TBD           |



# Supply Exceeds Demand

| SUMMARY OF SCV WATER'S EXISTING AND RECOVERED SUPPLIES |                         |                                      |                        |                             |  |                        |                               |  |                        |
|--|-------------------------|--------------------------------------|------------------------|-----------------------------|--|------------------------|-------------------------------|--|------------------------|
| Year   | Normal Year Supply (AF) | Normal Year Demand (AF) with Project | Remaining Balance (AF) | Single-Dry Year Supply (AF) | Single-Dry Year Demand (AF) with Project | Remaining Balance (AF) | 5-Year Dry Period Supply (AF) | 5-Year Dry Period Demand (AF) with Project | Remaining Balance (AF) |
| 2025   | 94,039                  | 76,400                               | <b>17,639</b>          | 86,547                      | 81,000                                   | <b>5,547</b>           | 98,043                        | 77,830                                     | <b>20,213</b>          |
| 2030   | 104,196                 | 81,700                               | <b>22,496</b>          | 104,356                     | 86,600                                   | <b>17,756</b>          | 114,023                       | 83,620                                     | <b>30,403</b>          |
| 2035   | 108,988                 | 88,700                               | <b>20,288</b>          | 115,550                     | 94,000                                   | <b>21,550</b>          | 125,229                       | 90,570                                     | <b>34,659</b>          |
| 2040   | 109,435                 | 93,600                               | <b>15,835</b>          | 116,719                     | 99,200                                   | <b>17,519</b>          | 129,706                       | 95,780                                     | <b>33,926</b>          |
| 2045   | 110,436                 | 97,500                               | <b>12,936</b>          | 117,720                     | 103,400                                  | <b>14,320</b>          | 130,636                       | 99,670                                     | <b>30,966</b>          |

**Conclusion: Water Supply is sufficient to meet projected demands in normal, multi dry-years and single dry-years throughout the study period**



# Conclusion:

- The long-term water demands in the 2020 UWMP included all demands for this project.
- Staff compared these demands against updated UWMP water supplies.
- Staff has concluded that the total projected water supplies over the 20-year period will be sufficient to meet the projected demands associated with the proposed Sand Canyon Village development as well as existing and planned future uses.



# Recommendation

That the Water Resources and Watershed Committee recommend that the Board of Directors of the Santa Clarita Valley Water Agency adopt a resolution approving the SB 221 Water Supply Verification for the Sand Canyon Village Development and direct staff to submit the WSA to the City of Santa Clarita.





Questions?

