OPV Stakeholder Group Meeting

February 2, 2021

4. Sustainable Yield

SGMA Sustainable Groundwater Management

- Sustainable groundwater management means avoiding **undesirable results** related to one or more of the six sustainability indicators:
  - **Chronic lowering of groundwater levels** indicating a significant and unreasonable depletion of groundwater supply
  - Significant and unreasonable **reduction of groundwater storage**
  - Significant and unreasonable **seawater intrusion**
  - Significant and unreasonable **degraded water quality**
  - Significant and unreasonable **land subsidence**
  - **Depletions of interconnected surface water** that have significant and unreasonable impacts on the beneficial uses of the surface water

Oxnard & Pleasant Valley Basin GSPs

- **Minimum Thresholds** – water levels at key wells that identify when undesirable results (non-sustainable) are occurring
- **Measurable Objectives** – ideal water levels that should be maintained to protect against dropping below minimum thresholds in drought
- Seawater intrusion is controlling sustainability indicator
- Current water levels are below the minimum thresholds at all key wells in both basins

Sustainable Yield

- **Sustainable Yield** – amount of groundwater that can be extracted annually without causing undesirable results
- Sustainable yield of the OPV Basins estimated using a numerical groundwater model for the GSPs
- Modeling included assumptions that several projects would be implemented:
  - 4,600 AFY of GREAT water to farmers in the vicinity of Hueneme Road
  - Expansion of GREAT Program to increase groundwater recharge by 4,500 AFY (note City of Oxnard no longer supports this project water could be used elsewhere in basins)
  - Approximately 2,700 AFY reduction of pumping through voluntary temporary fallowing

GSP Estimate of Sustainable Yield

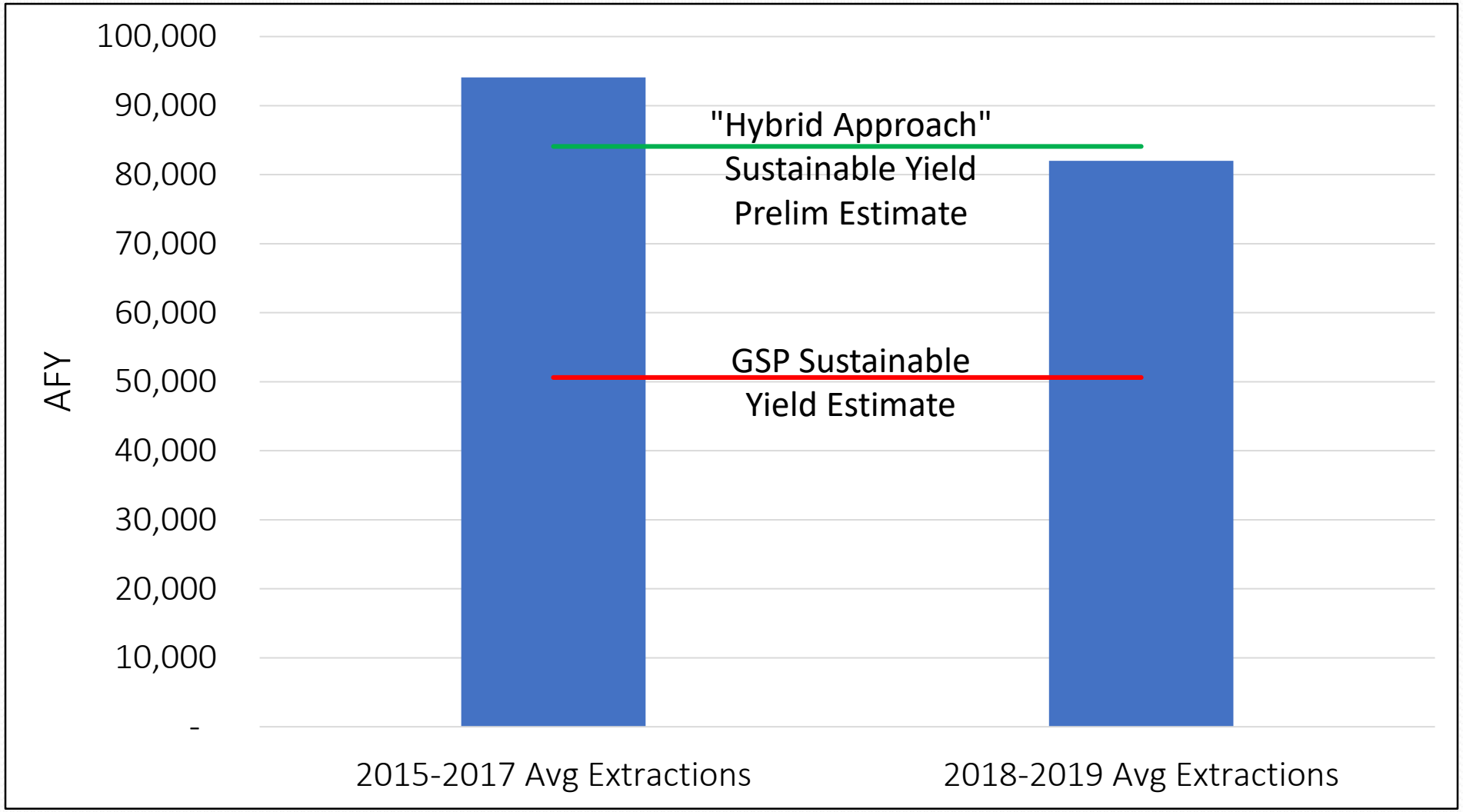
Basin	Sustainable Yield (AFY)
Oxnard – Upper Aquifer System (UAS)	32,000 ± 6,000
Oxnard – Lower Aquifer System (LAS)	7,000 ± 3,600
Oxnard – Total (UAS & LAS)	39,000 ± 9,600
Pleasant Valley	11,600 ± 1,200
Combined OPV Basins	**50,600** ± 10,800

AFY: Acre-Feet per Year

Projects Committee

- Projects Committee reviewed potential projects and recommended suite of projects referred to as the “hybrid approach” for further evaluation
- Preliminary estimate is this suite of projects may increase sustainable yield by approximately 33,500 AFY
- UWCD is modeling these projects to better estimate effect on sustainable yield
- These projects would be very expensive ($100s of millions) to implement
- Once UWCD initial modeling complete, additional feasibility analysis, cost estimation, and cost-benefit evaluation needed for recommendation to Board and stakeholders for further evaluation of funding and implementation

Sustainable Yield & Average Extractions



GSP Updates

- SGMA requires GSP evaluation minimum of every 5 years
- GSPs must be amended or revised as appropriate, based on new data
- Minimum thresholds, measurable objectives, and sustainable yield will be revised in GSP updates based on feasible projects ultimately selected for funding and implementation
- Stakeholder input important part of GSP update process
- GSP updates will be adopted by the Board at a public hearing

5. Starting Basin Allocation

OPV Allocation Ordinance

- Operative Oct 1, 2020
- Well allocations based on average annual extractions 2005-2014 (base period)
- PVCWD additional allocation for Conejo Creek Project, less amount received each year – must use all available Conejo Creek Project water
- Santa Clara River Flex Allocation provides conjunctive-use flexibility to UWCD and PVCWD, but not additional extraction allocation

OPV Basins Starting Allocation

2005-2014 Avg Extraction	AFY
Oxnard Basin	76,800
Pleasant Valley Basin	13,400
OPV Combined	**90,200**
Projected Net Conejo Creek Allocation	2,300
Total OPV Basins	**92,500**

AFY: Acre-Feet per Year

Variances & OPV Basins Starting Allocation

- Three principal types of variance requests:
  - “Standard” – Adjustment to base period due to unusual circumstances during base period
  - “Non-Reporting” – Bring unreported extractions into compliance
  - “New Water” – Additional allocation due to change in operations or desire to extract water previously provided by purveyor
- Standard and Non-Reporting variances granted are additive to total basin allocation
- New Water variances granted come out of total basin allocation – not additive
  (Subject to review and recommendation by Variance Review Committee and Board approval)