

**Disclaimer** These Draft Documents are provided for information only and are intended to help facilitate discussions related to Projects & Management Actions to be considered in the Paso Basin Groundwater Sustainability Plan (GSP), currently under development. The information contained herein is subject to change and does not commit, nor does it necessarily reflect the views, opinions or endorsement of, the Cooperative Committee or any Agency.

### Paso Robles Basin GSP Development Example Water Charges Calculation and Financial Impacts

### DRAFT February 2019

Privileged and Confidential Information #4 Pumping Fees Example



# **Illustrative Projects Portfolio**

### • State Water Project (SWP):

- Injection wells in Creston.
- Average volume: 1,100 AF.

#### Nacimiento Project (NWP):

- Recharge basin in Estrella.
- Average volume: 8,400 AF.
- Land Retirement:
  - Purchase and retire irrigated land in key areas where groundwater levels are declining.
  - 1,150 acres based on 50% of alfalfa and pasture land in the basin.
  - Average volume: 5,220 AF.

<u>Area</u>	Supply	Annual Volume (AF)
Creston	SWP	1,100
Estrella	NWP	8,400
All	Land Retirement	5,220
	TOTAL	14,720



# **Preliminary Project Cost Estimates**

	SWP	NWP	Land Retirement	Total, All Projects
CAPEX	\$990,834	\$1,672,032	\$2,879,610	\$5,542,476
OPEX	\$94,000	\$742,000	\$232,500	\$1,068,500
Water	\$1,320,000	\$10,080,000	\$0	\$11,400,000
Total Annual	\$2,404,834	\$12,494,032	\$3,112,110	\$18,010,976

- All capital expenditures (CAPEX) are annualized over 30 years using a 4.6% discount rate.
- Operating expenditures (OPEX) escalate annually at CPI.
- SWP and NWP cost estimates prepared by Carollo Engineers.
- Land retirement costs:
  - Acquisition CAPEX: \$30,000/ac based on vineyard land values of \$50,000/ac minus \$20,000/ac establishment costs.
  - Land management OPEX: \$150/ac annually.



#4 Pumping Fees Example

# **Establishment of Water Charges**

#### Base Pumping Assessment:

- Fee per acre-foot charged for all non-exempt pumping.
- Intended to cover infrastructure CAPEX, infrastructure OPEX, and all land retirement costs as these investments benefit all pumpers in the basin.

#### • Overproduction Surcharge:

- Additional fee per acre-foot charged for any non-exempt pumping above an individual's pumping allowance.
- Intended to cover water costs which are incurred to directly replace overpumping by individuals.

		SWP	NWP	Land Retirement	Total, All Projects
Base Pumping Assessment-	APEX	\$990,834	\$1,672,032	\$2,879,610	\$5,542,476
	DPEX	\$94,000	\$742,000	\$232,500	\$1,068,500
Overproduction Surcharge-	Vater	\$1,320,000	\$10,080,000	\$0	\$11,400,000
	otal Annual	\$2,404,834	\$12,494,032	\$3,112,110	\$18,010,976



# Water Charges Calculations

#### **Base Pumping Assessment:**

CAPEX	\$5,542,476			
OPEX	<u>\$1,068,500</u>			
Total Costs	\$6,610,976			
Total Pumping	70,780 AF (after land retirement)			
\$93/AF				

#### **Overproduction Surcharge:**

	\$832/AF
<u>Overproduction</u>	13,700 AF
Water Costs	\$11,400,000

#### #4 Pumping Fees Example



### **Financial Implications** for Growers

Revenue and cost assumption from crop enterprise budgets by UC Davis, and personal inte with growers. Actual revenue vary across growers and prop

#### **Illustrative Enterprise Budget (Vineyard)**

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Growers	Assumption	Value	Unit	
cost assumptions obtained erprise budgets published and personal interviews Actual revenues and costs rowers and properties.	Yield	7	Tons/ac	
	Price	\$1,200	Per ton	
	Gross Revenue	\$8,400	Per ac	
	Operating Costs	\$2,400	Per ac	
	Cash Overhead	\$1,200	Per ac	
	Total Cash Costs	\$3,600	Per ac	
Without water charges	Net Revenue	\$4,800	Per ac	
	Pumping Allowance	1	AF/ac	
	Actual Pumping	1.25	AF/ac	
	Overproduction	0.25	AF/ac	
	Base Assessment	\$116	Per ac (\$93/AF x 1.25 AF)	
	Overproduction Surcharge	\$208	Per ac (\$832/AF x 0.25 AF)	
	Total Water Charges	\$324	Per ac	
With water charges	Net Revenue	\$4,476	Per ac	

#4 Pumping Fees Example

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