

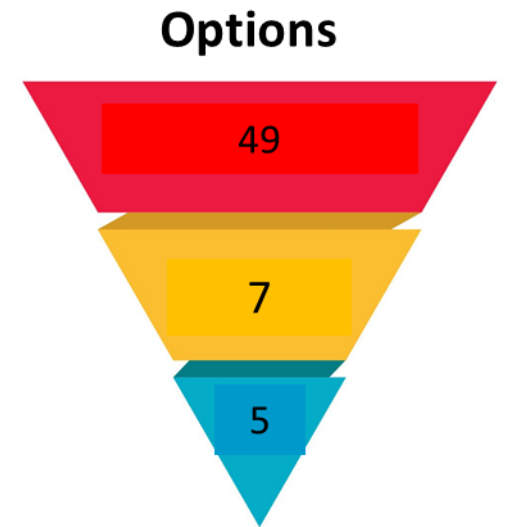
# Reverse Osmosis Concentrate Management Update

Recycled Water Committee – August 6, 2020

Update of ROC Management Options

# Accomplishments of ROC Management Plan

- Held four workshops to engage and consider Countywide Stakeholders input
- Met over a half-dozen times with State regulators
- Reduced ROC Management (ROCM) options
- Initiated essential studies as recommended by regulators
- Refined costs for ROCM options both maximizing targeted purified water production and meeting regulatory thresholds



Portfolio No.	Achievable Permeate Production (AFY)*	
	1) Blending Option**	2) New Outfall Option
Portfolio 1- San Jose	24,200	24,200



\*Acre Feet per Year; \*\*Range based on lower and upper bound effluent projections

Portfolio No.	Achievable Permeate Production (AFY)*	
	1) Blending Option**	2) New Outfall Option
Portfolio 2A -Palo Alto	7,900 to 18,600	23,000



10% REVIEW ONLY  
NOT FOR CONSTRUCTION

# CAPEX and Unit Costs for ROCM

Portfolio	CAPEX	Life Cycle Costs*
Portfolio 1- San Jose	\$19M to \$29M	\$150 to \$180/AF
Portfolio 2A -Palo Alto	\$18M to \$75M	\$130 to \$300/AF
Portfolio 2B - Sunnyvale	\$39M	\$190/AF
Portfolio 4 – Palo Alto	\$41M to \$85M	\$200 to \$320/AF
South County	\$50M	\$1,100/AF

# Next Steps: ROCM Implementation

- Portfolio selection and work with POTWs and regulators on specific permitting scenarios
- Explore source control efforts with POTWs (beyond NDPES compliance)
- Evaluating alternative treatment options including nature-based solution, piloting different technologies at SVAWPC
- Conduct location specific hydrodynamic modeling
- Increase toxicity testing and analysis as it relates to potential impacts to receiving habitats





# Valley Water

Clean Water • Healthy Environment • Flood Protection

# EXTRA SLIDES



Portfolio No.	Achievable Permeate Production (AFY)*	
	1) Blending Option**	2) New Outfall Option
Portfolio 1- San Jose	24,200	24,200



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