

**Table 6-11. Summary of North County Project Portfolios and South County Reuse Options**

<b>Portfolio 1</b>		<b>Portfolio 1a</b>	<b>Portfolio 1b</b>	<b>Portfolio 1c</b>	<b>Portfolio 1d</b>	
<b>San José AWPF</b>	<b>Variation</b>	Delivers <b>19,000-24,000 AFY</b> to LGRP for GWR	Delivers <b>19,800-24,000 AFY</b> to the SBA terminal tank upstream of Penitencia WTP for RWA	Delivers <b>24,000 AFY</b> total for TWA, including up to 4 mgd directly to Santa Clara and San José (north of Highway 101) and up to 20 mgd to Valley Water’s retailers through Milpitas Pipeline (flowing south) to a blending location near Penitencia WTP	Delivers <b>24,000 AFY</b> total for TWA, including up to 4 mgd directly to Santa Clara and San José (north of Highway 101) and up to 20 mgd to Valley Water’s retailers through a dedicated purified water pipeline to a blending location near Penitencia WTP	
	<b>ROC Management Strategy</b>	Discharge ROC to a new outfall near existing outfall under a separate NPDES permit	Discharge ROC to a new outfall near existing outfall under a separate NPDES permit	Discharge ROC to a new outfall near existing outfall under a separate NPDES permit	Discharge ROC to a new outfall near existing outfall under a separate NPDES permit	
	<b>Estimated Costs</b>	<b>Total Capital Cost</b>	\$630M (+\$20M assumed for ROC)	\$615M (+\$20M assumed for ROC)	\$535M (+\$20M assumed for ROC)	\$585M (+\$20M assumed for ROC)
		<b>Annual O&amp;M Cost</b>	\$18.4M (+\$1.8M assumed for ROC)	\$18.9M (+\$1.8M assumed for ROC)	\$21.4M (+\$1.8M assumed for ROC)	\$21.5M (+\$1.8M assumed for ROC)
	<b>Unit Cost, 30-year Life-cycle</b>	\$2,500-\$3,100/AF	\$2,600-\$3,000/AF	\$2,500/AF	\$2,600/AF	
	<b>Unit Cost, 100-year Life-cycle</b>	\$2,000-\$2,500/AF	\$2,100-\$2,500/AF	\$2,100/AF	\$2,200/AF	
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<b>Portfolio 2</b>	<b>Variation</b>	<b>Portfolio 2a</b> Combines source flow at a regional AWPf in Palo Alto and delivers <b>17,000-23,000 AFY</b> to LGRP for GWR	<b>Portfolio 2b</b> Combines source flow at a regional AWPf in Sunnyvale and delivers <b>17,000-23,000 AFY</b> to LGRP for GWR			
	<b>ROC Management Strategy</b>	Blend ROC with residual final effluent; discharge at existing outfall	Discharge ROC at a new shallow-water outfall at Guadalupe Slough for enhanced mixing.			
	<b>Estimated Costs</b>	<b>Total Capital Cost</b>	\$735M (+\$40M assumed for ROC)	\$755M (+\$40M assumed for ROC)		
		<b>Annual O&amp;M Cost</b>	\$19.4M (+\$1.6M assumed for ROC)	\$18.6M (+\$1.6M assumed for ROC)		
	<b>Unit Cost, 30-year Life-cycle</b>	\$2,900-\$3,800/AF	\$2,900-\$3,800/AF			
	<b>Unit Cost, 100-year Life-cycle</b>	\$2,300-\$3,000/AF	\$2,300-\$3,000/AF			
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<b>Portfolio 4</b>	<b>Variation</b>	<b>Portfolio 4</b> Treats source flow at two separate AWPfs and delivers a combined <b>17,000-23,000 AFY</b> to LGRP for GWR				
	<b>Separate Facility</b>	Palo Alto AWPf	Sunnyvale AWPf			
	<b>ROC Management Strategy</b>	Blend ROC with residual final effluent; discharge at existing outfall	Discharge ROC at a new shallow water outfall at Guadalupe Slough for enhanced mixing			
	<b>Estimated Costs</b>	<b>Total Capital Cost</b>	\$775M (+\$40M assumed for ROC)			
<b>Annual O&amp;M Cost</b>		\$20.2M (+\$1.87M assumed for ROC)				
	<b>Unit Cost, 30-year Life-cycle</b>	\$3,000-\$4,000/AF				
	<b>Unit Cost, 100-year Life-cycle</b>	\$2,400-\$3,200/AF				
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<b>Morgan Hill Reuse Options</b>	<b>Variation</b>	<b>Option 1</b> Delivers <b>2,900 AFY</b> of NPR+ from SBWR to a new Morgan Hill recycled water system	<b>Option 2</b> Delivers <b>1,900 AFY</b> from a Morgan Hill satellite WWTP and AWPf to San Pedro Ponds for GWR	<b>Option 3</b> Delivers <b>1,900 AFY</b> from a Morgan Hill satellite WWTP and AWPf to Anderson Reservoir for SWA		
	<b>ROC Management Strategy</b>	Not applicable	Lined evaporation ponds	Lined evaporation ponds		
	<b>Estimated Costs</b>	<b>Total Capital Cost</b>	\$70M	\$75M (+\$50M assumed for ROC)	\$95M (+\$50M assumed for ROC)	
		<b>Annual O&amp;M Cost</b>	\$2.6M	\$6.8M (+\$0.1M assumed for ROC)	\$7.3M (+\$0.1M assumed for ROC)	
	<b>Unit Cost, 30-year Life-cycle</b>	\$2,200/AF	\$6,300/AF	\$7,200/AF		
	<b>Unit Cost, 100-year Life-cycle</b>	\$1,700/AF	\$5,500/AF	\$6,100/AF		



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