

**COASTAL WATER PROJECT
PROJECT COMPARISON**

Moss Landing	North Marina	Regional
Desalination Plant		
Source Water		
<ul style="list-style-type: none"> • MLPP Cooling Water Return (Northern Intake Only) from Disengaging Basin • Source Water Pipeline 54-inch diam, 8,000 ft along Dolan Road • Equalization Basin 48 MG 	<ul style="list-style-type: none"> • Subsurface Slant Wells at Reservation Road 6 wells (750' length, 170' below MSL) • 6 well pumps, max 3,000 gpm/well • Source Water Pipeline 36-inch diameter, 16,000 ft (Reservation Road to Beach Road) • No equalization basin 	<ul style="list-style-type: none"> • Vertical Wells to 180' Aquifer 5 brackish, 5 seawater • Located north & south of Salinas River • 10 well pumps, 1700 gpm/well • Source Water Pipelines 12-36-inch diameter, 45,000 ft • No equalization basin
Reverse Osmosis		
<ul style="list-style-type: none"> • Single pass RO membrane each module 2 mgd • Recovery Rate 45% 22 mgd → 10 mgd • Avg. Salinity 33 ppt (varies from 11.5 - 34.3 ppt) 	<ul style="list-style-type: none"> • RO membrane each module 2.2 mgd • Recovery Rate 50% 22 mgd → 11 mgd • Salinity 33 ppt 	<ul style="list-style-type: none"> • RO membrane each module 2.2 mgd • Recovery Rate 50% 26 mgd → 13 mgd • Salinity 25 ppt (to be confirmed)
Brine Flow		
<ul style="list-style-type: none"> • Brine flow pipeline 24-inch diam, 8,000 ft along Dolan Road • To MLPP disengaging basin and mixed with cooling plant water • MLPP outfall (existing) 1,000 ft off shore 20' below MSL (total depth 40') • 12 MGD at 60 ppt to disengaging basin; after mixing 33.5 – 36 ppt at outfall 	<ul style="list-style-type: none"> • Pipeline via easement to MRWPCA headworks (tie-in) • MRWPCA outfall (existing) 1,368 ft, 95 – 109 ft below MSL, diffuser ports, 3.5 ft above sea floor 	
	<ul style="list-style-type: none"> • 11 MGD at 66 ppt 	<ul style="list-style-type: none"> • 13 MGD at 50 ppt (salinity to be confirmed)
Clear Well (Product Water Storage)		
<ul style="list-style-type: none"> • Two 1.5 MG reservoirs above ground 	<ul style="list-style-type: none"> • Two 1.5 MG concrete reservoirs below ground 	<ul style="list-style-type: none"> • Two 2.5 MG concrete reservoirs below ground
Transmission Main - Moss Landing to North Marina		
<ul style="list-style-type: none"> • For product water conveyance south • 30-inch diameter • 9.4 miles 	<ul style="list-style-type: none"> • Alternative for brine disposal conveyance north to MLPP disengaging basin • 30-inch diameter • 2.9 miles 	<ul style="list-style-type: none"> • Not Applicable
Transmission Main - South of North Marina Site		
<ul style="list-style-type: none"> • New 30-inch pipeline from North Marina to Terminal Reservoir • 8.09 miles 		<ul style="list-style-type: none"> • 30-inch diameter pipeline consists of Transmission Main South, Transmission Main Ft Ord, and ASR pipeline segments • 6.56 miles

PROJECT COMPARISON (Continued)

Moss Landing	North Marina	Regional
<p><u>Terminal Reservoir</u></p> <ul style="list-style-type: none"> • New storage tank <p><u>Tarpy Flats</u></p> <ul style="list-style-type: none"> • New pump station <p><u>Segunda Pipeline</u></p> <ul style="list-style-type: none"> • New pipeline in parallel to existing pipeline from Segunda Reservoir to Terminal Reservoir <p><u>Crest Tank</u></p> <ul style="list-style-type: none"> • Existing tank minor modifications <p><u>Segunda Reservoir</u></p> <ul style="list-style-type: none"> • Existing - no improvements <p><u>ASR Facilities (new)</u></p> <ul style="list-style-type: none"> • 2 ASR wells, Pumpstation, pipeline 	<p><u>Terminal Reservoir</u></p> <ul style="list-style-type: none"> • New storage tank <p><u>Tarpy Flats</u></p> <ul style="list-style-type: none"> • Not included <p><u>Segunda Pipeline Minor</u></p> <ul style="list-style-type: none"> • New pipeline from South Boundary Road to Terminal Reservoir <p><u>Crest Tank</u></p> <ul style="list-style-type: none"> • Same as Moss landing <p><u>Segunda Reservoir</u></p> <ul style="list-style-type: none"> • Same as Moss landing <p><u>ASR Facilities (new)</u></p> <ul style="list-style-type: none"> • Same as Moss Landing 	
Monterey Pipeline		
N/A	<ul style="list-style-type: none"> • 36" diameter pipeline to be constructed to Eardley Pump Station/Forest Lake Tank (existing) • 5.34 miles 	
Transmission		
Wet Season		
<ul style="list-style-type: none"> • Carmel River and Aquifer Water <ul style="list-style-type: none"> - flow North through existing pipelines to Segunda Reservoir; and North through Segunda Pipeline to Crest Tank - flow North from Crest to ASR or Terminal Reservoir via Segunda Pipeline • Terminal Reservoir Water <ul style="list-style-type: none"> - pumped by ASR pump station to ASR wells or west to Seaside customers 	<ul style="list-style-type: none"> • Carmel River and Aquifer Water <ul style="list-style-type: none"> - same as Moss Landing • Crest to ASR (Segunda pipeline minor) <ul style="list-style-type: none"> - same as Moss Landing • Terminal Reservoir Water <ul style="list-style-type: none"> - same as Moss Landing 	
Dry Season		
<ul style="list-style-type: none"> • Terminal Reservoir and ASR Water <ul style="list-style-type: none"> - west to Seaside customers - south to Monterey Peninsula via Tarpy Flats Pump Station, Segunda Pipeline to Crest Tank and Segunda Reservoir 	<ul style="list-style-type: none"> • Terminal Reservoir and ASR Water <ul style="list-style-type: none"> - west to Seaside customers - west to Monterey Pipeline, Forest Lake Tank to Monterey Peninsula 	