



# General Manager's Report

## Item 11:

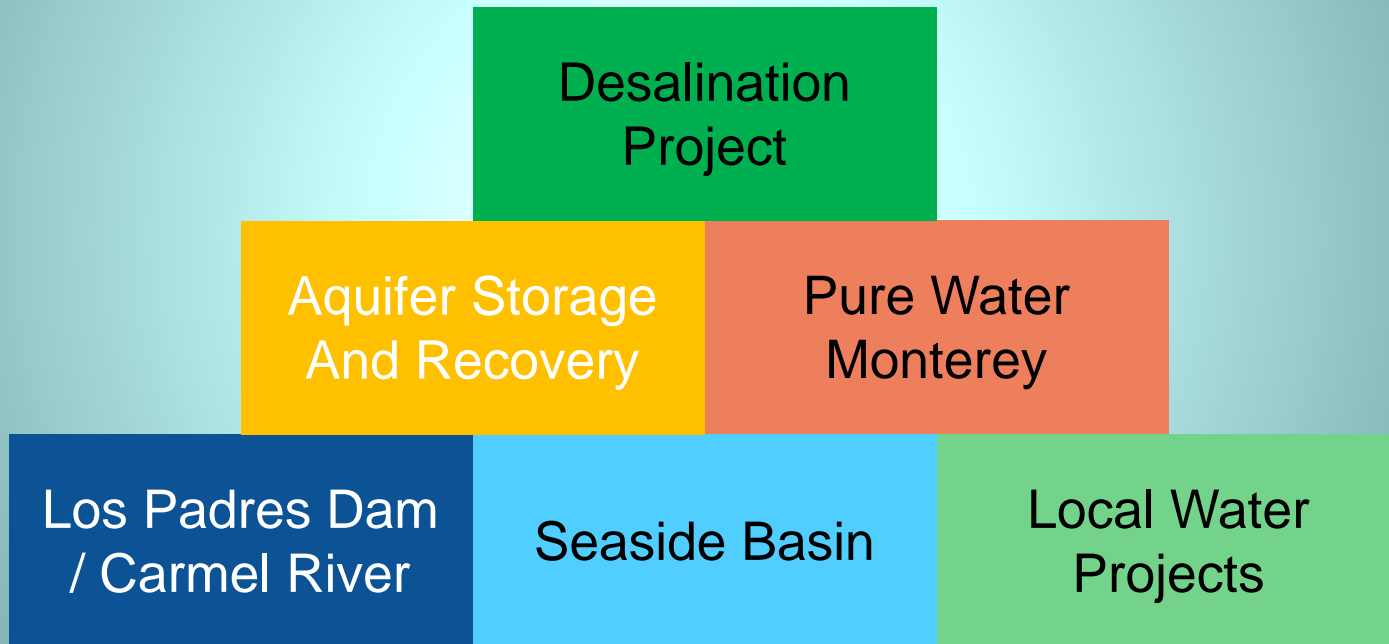


### Update on Development of Water Supply Projects

*January 23, 2019*

*David J. Stoldt*

# The Water Supply Portfolio

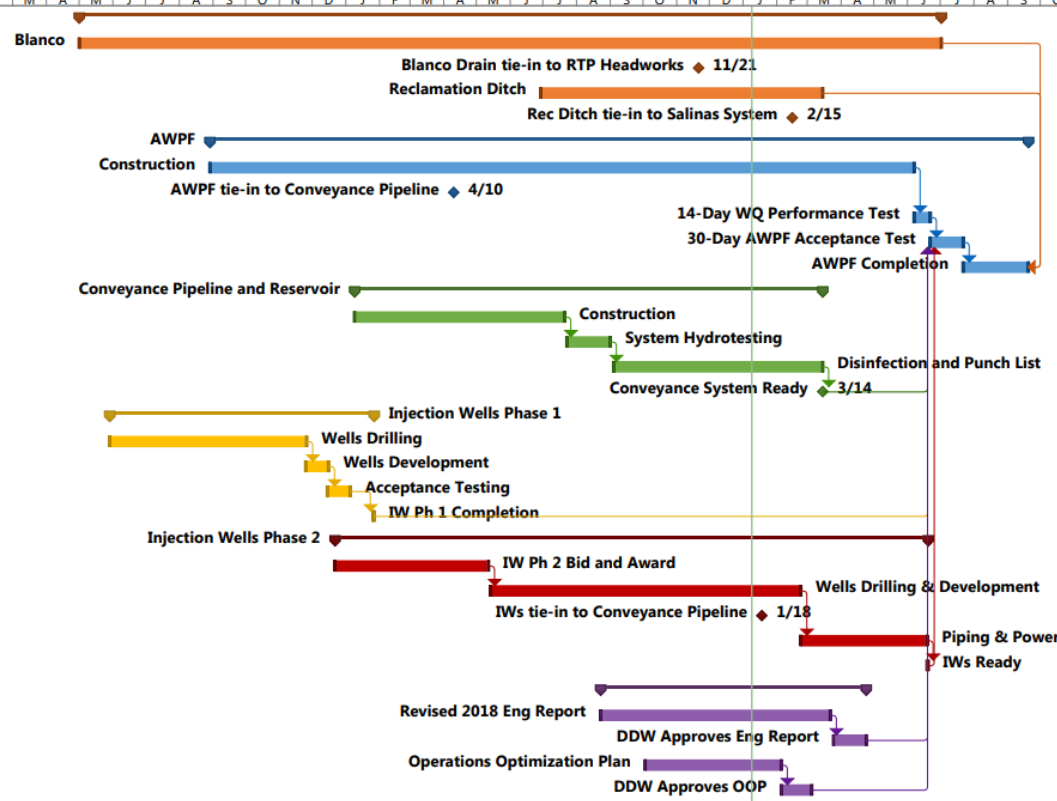
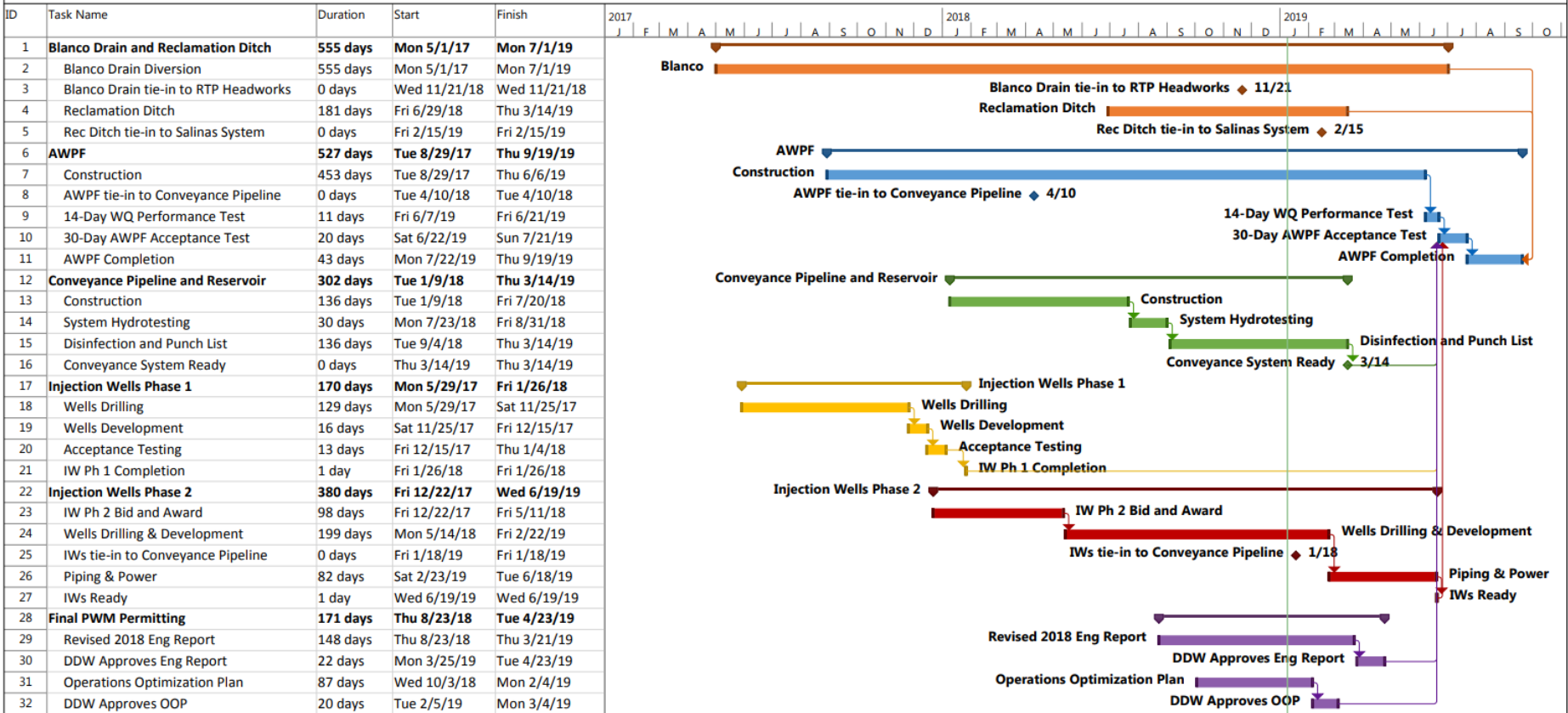


# Project Sizing

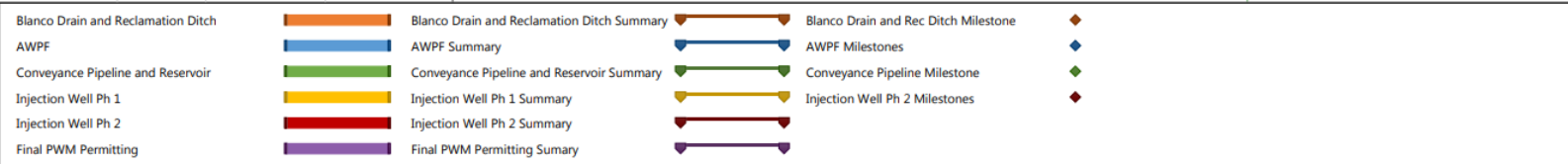
Demand	Supply
13,290 AF average customer demand	3,376 AF legally from Carmel River (2017)
500 AF for economic recovery	1,474 AF legally from Seaside Basin (2021)
325 AF for Pebble Beach buildout	(700) AF Cal-Am intends to leave in the Seaside Basin for recharge for 25 years
1,181 AF for legal lots of record	94 AF available from Sand City long term
-----	1,300 AF assumed available from ASR
15,296 AF total demand	3,500 AF from Pure Water Monterey
	6,252 AF from Desalination Plant
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	15,296 AF total supply

# Pure Water Monterey Schedule

Pure Water Monterey Executive Schedule for 1-17-19 RWC Meeting



Project: PWM GWR Summary  
Date: Wed 1/9/19



# Pure Water Monterey Expenditures

	<b>Expenditures from 2006 - FY 17/18</b>	<b>FY 2018/19 Approved Budget</b>	<b>Costs to Date FY2018/19</b>	<b>Change Orders to Date</b>	<b>FY 2018/19 Costs during Nov/Dec 2018</b>
Combined Categories	\$57,619,343				
Advanced Water Purification		\$33,802,728	\$15,720,991	\$1,076,699.70	\$5,901,046
Source Water Facilities		5,852,953	1,701,343	\$228,165.43	1,083,731
Injection Wells-Phase I				\$36,399.02	
Injection Wells-Phase II		11,286,428	3,243,856	\$127,106.84	1,200,320
Pipeline Conveyance System		3,325,650	1,449,007	\$103,953.67	1,994
<b>TOTALS</b>	<b>\$57,619,343</b>	<b>\$54,267,759</b>	<b>\$22,115,197</b>	<b>\$1,572,324.66</b>	<b>\$8,187,091</b>



# Pure Water Monterey Funding

<b>Funding and Reimbursements</b>				
<b>Organization</b>	<b>Funding 2006 – FY 17/18</b>	<b>FY18/19 Approved Budget</b>	<b>FY18/19 Amounts Billed <sup>(1)</sup></b>	<b>FY 18/19 Amounts Received</b>
General Fund	7,204,996	-	-	-
Watermaster	100,000	-	-	-
MPWMD	12,233,955	-	-	-
SRF Facilities Grant	74,883	-	-	-
SRF Loan <sup>(1)</sup>	31,394,188	\$37,927,666	24,738,954	16,323,253
Prop. 1 Grant - GWR <sup>(2)</sup>	6,098,846	\$8,901,154	-	-
Prop. 1 Grant - Stormwater	362,684	\$2,084,316		
MCWD <sup>(3)</sup>	-	\$5,354,623	-	-
BOR Title 16 Feasibility Water SMART Grant / Other Resource	149,791	-	-	-
<b>TOTALS</b>	<b>\$57,619,343</b>	<b>\$54,267,759</b>		<b>16,323,253</b>

(1) SRF loan requests for Source water facilities and Advance water purification were sent out in November and December.

(2)\$15M Recycled Water Grant for AWPF

(3) Represents MCWD 13.953% est. contribution for the Advanced Water Purification Facility

# Desalination Plant and Pipeline



# Cal-Am MPWSP Expenditures thru September 30, 2018

	Total	Percent	Expended
<u>Project Component</u>	<u>Cost Est</u>	<u>to Date</u>	<u>to Date</u>
Intake and Supply Return	\$ 80,000,000	31%	\$ 24,800,000
Desal Plant	\$ 132,000,000	18%	\$ 23,760,000
Conveyance	\$ 67,000,000	17%	\$ 11,390,000
Monterey Pipeline/Pump Station	\$ 50,000,000	99%	\$ 49,500,000
Pre-Construction	<u>\$ 8,000,000</u>	100%	<u>\$ 8,000,000</u>
	\$ 337,000,000		\$ 117,450,000



# Milestones for Potential 1,000 AF Reduction in Limit

**2016. CPUC Approves Pure Water Monterey**

**2017. Start Construction of Cal-Am Pipeline**

**2018. CPUC Approves Desalination Plant**

**2019. Start Construction of Desalination Plant**

2020. Drill Source Wells

2021. Substantial Completion

# Writ Filed Last Wednesday

CASE NO.

IN THE SUPREME COURT  
OF THE STATE OF CALIFORNIA

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CITY OF MARINA,  
*Petitioner,*

vs.

PUBLIC UTILITIES COMMISSION OF THE STATE OF  
CALIFORNIA,  
*Respondent,*

CALIFORNIA-AMERICAN WATER COMPANY, COALITION OF  
PENINSULA BUSINESSES, COUNTY OF MONTEREY,  
MONTEREY COUNTY FARM BUREAU, MONTEREY COUNTY  
WATER RESOURCES AGENCY, MONTEREY PENINSULA  
REGIONAL WATER AUTHORITY, SALINAS VALLEY WATER  
COALITION, and MONTEREY PENINSULA WATER  
MANAGEMENT DISTRICT,  
*Real Parties in Interest.*

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California Public Utilities Commission  
Decision No. 18-09-017

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PETITION FOR WRIT OF REVIEW  
SUPPLEMENTAL EXHIBITS FILED UNDER SEPARATE COVER

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# Aquifer Storage and Recovery Expansion





# Aquifer Storage and Recovery Expansion





# Malpaso (Odello) Water Thru 12-31-18

Assignments	Water Use Permits	Water Permits
An assignment is the evidence of sale of the water entitlement from Malpaso LLC to the property owner. It is recorded on title to the property.	A water use permit issued by the District acknowledges the entitlement and is filed with the District's property file. Not all entitlement holders execute this step.	When building plans are ready, the District will issue a water permit based on the water available from the entitlement.
To date: 79.90 AF	41.53 AF	11.308 AF
Remaining: 0.10 AF		
Total #: 392	177	107
Residential #: 356		
Non-Residential or Mixed #: 36		

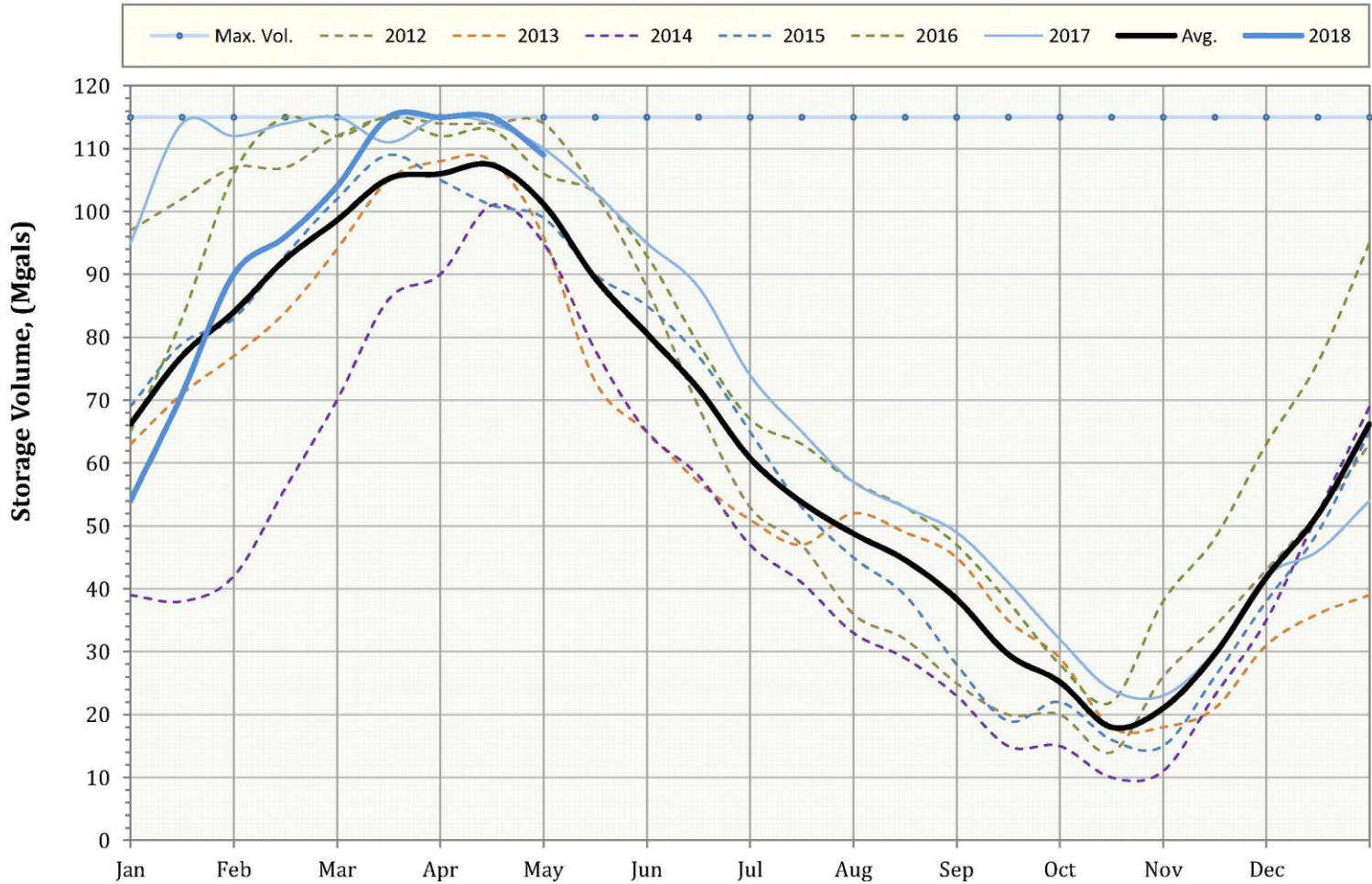
# Local Water Projects

Project	Status
<b>Pacific Grove</b> <b>\$200,000</b>	Local Water Project complete – Will save 88 AFY / Stormwater study complete – All grants fully utilized; City Council Sub-Committee made recommendation re allocation; District may need to revisit size of Entitlement
<b>Old Del Monte Golf Course</b> <b>\$80,000</b>	Two wells completed; Pebble Beach Company put storage component on temporary hold
<b>Monterey Regional Airport</b> <b>\$30,000</b>	Completed study; Identified 104 AFY of non-potable supply; Will attempt to find users in 2019
<b>City of Monterey</b> <b>\$85,000</b>	Storm water capture study still going
<b>City of Seaside</b> <b>\$106,900</b>	Laguna Grande non-potable well; No expenditures to date; Extended 2 years

# Reclamation Project Thru May 4, 2018

## Forest Lake Reservoir Storage Volume Current vs Historic

Current Volume: 109



# Reclamation Project – Recycled Water Deliveries Potable Water Savings

2018 Calendar Year	5 Year Average	22 Year Average	2018 Year to Date
996 AF	973 AF	950 AF	108 AF

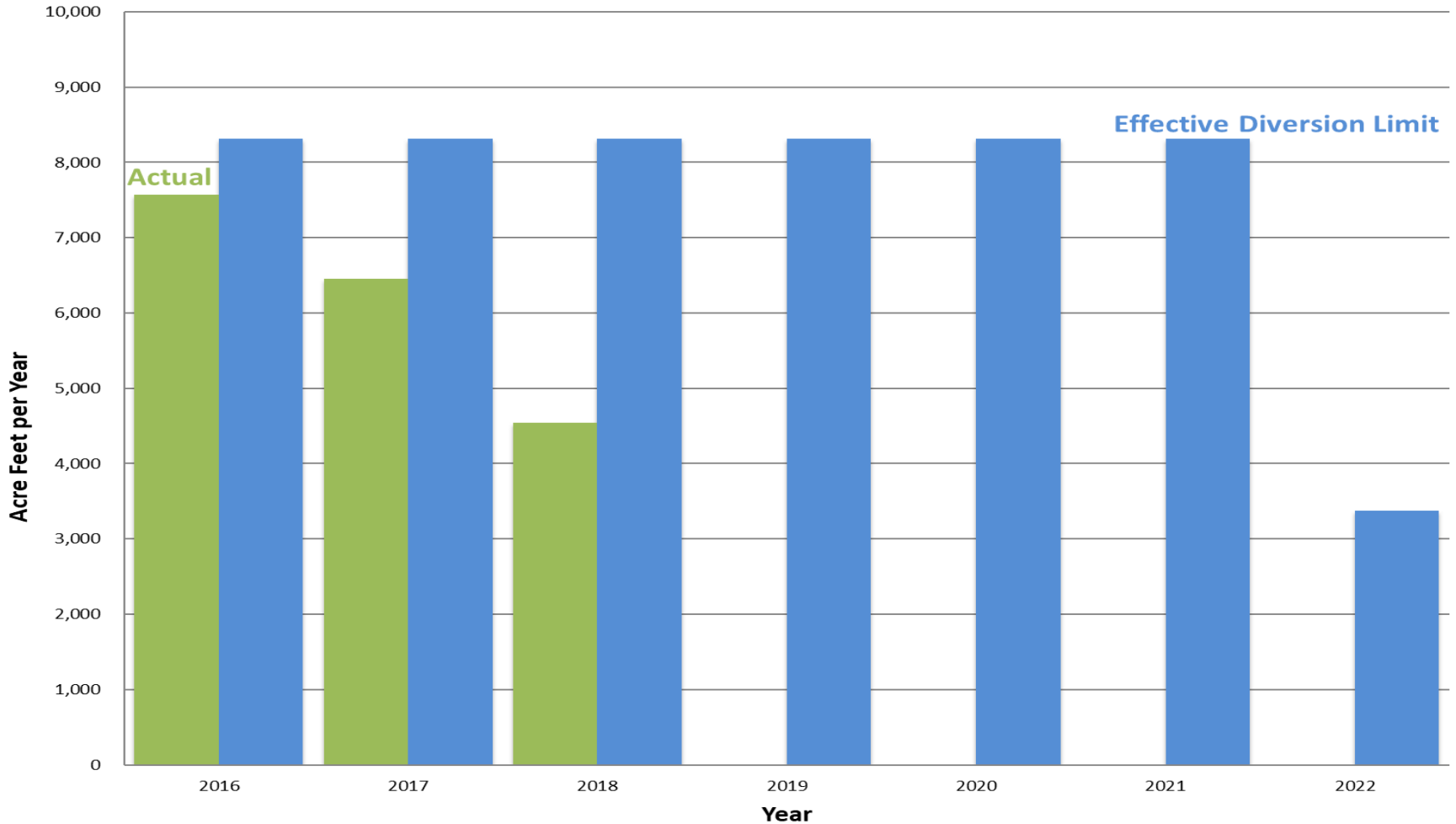


## Other

- ASR delivered 530 AF to injection this year
- DeepWater Desal still in negotiation with potential equity partner

# Compliance with CDO Effective Diversion Limit

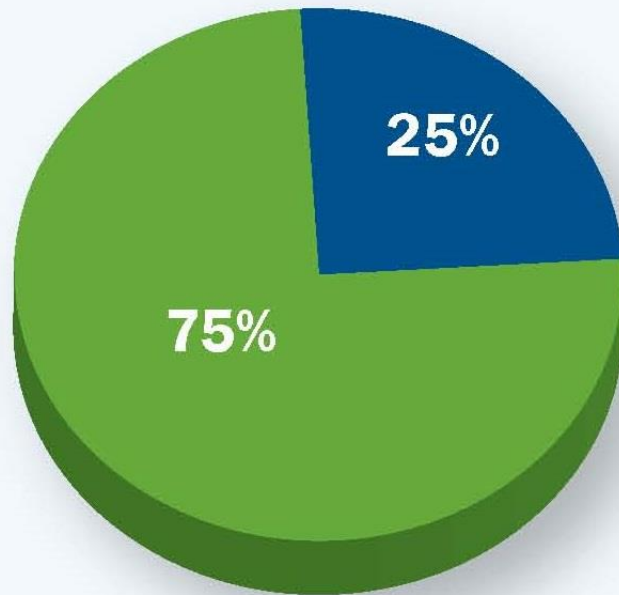
**Cal-Am Carmel River Production**  
*Compared to*  
**SWRCB Effective Diversion Limit**



“Actual” Caps Diversions to ASR at 600 AF

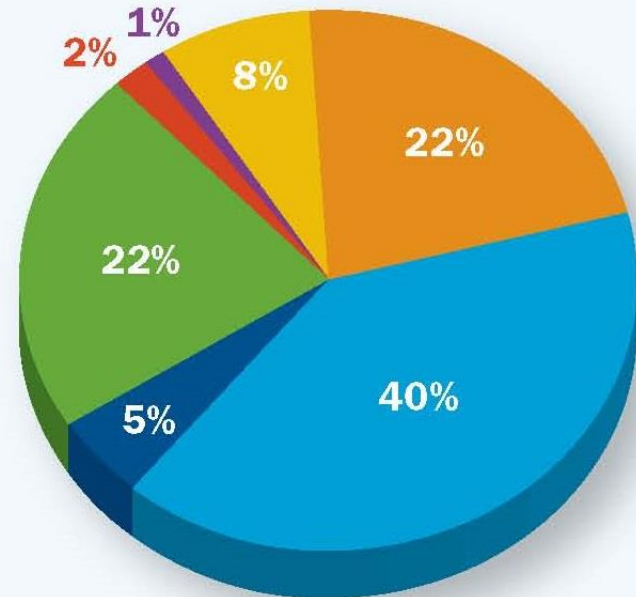
# Changing Sources of Supply on the Monterey Peninsula

## Traditional Sources



- Seaside Basin
- Carmel River

## Proposed Water Sources



- Groundwater Replenishment
- Desalination
- Seaside Basin
- Carmel River
- Sand City
- Pacific Grove
- Aquifer Storage Recovery

The Water Supply Project will diversify the Monterey Peninsula's water supply portfolio. These new sources of water will be sustainable and help protect against drought while also protecting the natural resources of the Carmel River.