



## **CalDesal Executive Committee Meeting Agenda**

**Monday, September 16, 2024**

**11:00 a.m.- 12:00 p.m.**

**Zoom Meeting: <https://zoom.us/j/2629510972>**

### **Agenda**

- Call to Order by Chair Mark Donovan
- Executive Director Glenn Farrel reports:

### **Updates and Discussion**

- **Events Update**
  - CalDesal Board of Directors Meeting
    - Wednesday, December 4 – 7:00 AM (Hybrid)
    - JW Marriott – Palm Desert
  - CalDesal Fall Mixer
    - Wednesday, December 4 – 6:00 PM
    - JW Marriott – Palm Desert
    - Sponsorship opportunities
  - 2025 CalDesal Annual Conference
    - Pechanga Resort – Temecula
    - Wednesday, February 5 – Thursday, February 6
    - Consideration of conference theme options (**Attachment**)
    - Sponsorship prospectus (**Attachment**)
    - Events Planning Committee work under way (**Attachment**)
      - Preview of early programming concepts
      - Keynote speaker ideas

## **Governance**

- Financial
  - CalDesal financials – August 2024 (**Attachment**)
  - CalDesal budget performance report (**Attachment**)
- Executive Committee membership and vacancies (**Attachment**)

## **CalDesal Policy Issues**

- Crowfoot meeting agenda (**Attachment**)
- OPA 2.0 planning efforts (**Attachment**)

## **Desalination Project Updates**

- Update on Monterey Peninsula Water Supply Project
- Update on Doheny Desalination Project
- Update on Carlsbad Desalination Facility Intake Project
- MWD desalination siting and technical studies
- Other project updates?

## **Other?**

**Next Executive Committee meeting: October 21, 2024 – 11:00 AM**

# **Conference Theme Options**

**(1) Improving California's Resiliency Through Desalination**

**(2) Desalination Innovation: Advancing Seawater and Brackish Water for a Sustainable Supply**

**(3) Charting a Course for California's Desalination Future**

**(5) Desal: The Long Game for California's Resiliency**



# 2025 ANNUAL CONFERENCE

February 5-6, 2025 • Temecula, CA

## CalDesal 2025 Annual Conference - Sponsorship Opportunities

### **Diamond Sponsor: \$5000 (1 Available)**

- One 6' table exhibit booth with priority booth placement
- Three full complimentary program registrations for the conference
- Logo recognition on signage at the Conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition in the event program
- Logo recognition on the CalDesal website during the month of the conference
- Logo recognition in conference marketing communications
- Logo recognition on the cover of the event program
- Logo recognition in post-conference newsletter
- Free full-page ad in the event program
- Special mention in opening session and throughout event
- Signage recognizing level of sponsorship throughout event

### **Platinum Exhibitor: \$4000 (2 Available)**

- One 6' table exhibit booth
- Two full complimentary program registrations for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition in conference marketing communications
- Logo recognition in the event program
- Logo recognition on the CalDesal website during the month of the conference
- Logo recognition in post-conference newsletter
- Logo recognition on signage at the Conference
- Special mention in opening session and throughout event
- Signage recognizing level of sponsorship throughout event
- Half-page ad in event program

### **Gold Exhibitor: \$3000 (5 Gold)**

- One 6' table exhibit booth
- One full complimentary program registration for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition on signage at the Conference
- Name recognition in conference marketing communications
- Name recognition in the event program
- Name recognition on the CalDesal website during the month of the conference
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event
- Half-page ad in event program

### **Tote Bag Sponsor: \$2,500 (1 Available)**

- Logo branding and recognition as Tote Bag Sponsor
- One full complimentary program registration for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition on signage at the Conference
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event

### **Lanyard Sponsor: \$2,500 (1 Available)**

- Logo branding and recognition as Lanyard Sponsor
- One full complimentary program registration for the conference
- Logo/ad on a running PPT slide during the Conference lunch
- Logo recognition on signage at the Conference
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event

# CalDesal 2025 Annual Conference - Sponsorship Opportunities

## Reception Sponsor: \$1250 (2 Available)

- Logo recognition on reception drink tickets
- Logo/ad on a running PPT slide during the Conference lunch
- Name recognition in the event program
- Name recognition on signage at the Conference
- Name recognition in post-conference newsletter
- Signage recognizing level of sponsorship throughout event

## Keynote Lunch Sponsor: \$1,000 (1 Available)

- Logo/ad recognition on the Keynote welcome slide
- Logo/ad on a running PPT slide during the Conference lunch
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Name recognition on signage at the Conference

## General Sponsor: \$750

- Logo/ad on a running PPT slide during the keynote conference lunch
- Name recognition in the event program
- Name recognition in post-conference newsletter
- Name recognition on signage at the Conference

## Conference Bag Swag Item Sponsor: \$500

- Add an item with your organization logo into the bags that will be provided to all attendees at registration (or sponsor the bags themselves – logo bags distributed to all attendees, with various swag items included)
- Sponsor is responsible for providing the swag to CalDesal by **January 10, 2025**, in order to be included.
- No refunds will be given if your swag arrives too late to be added to the bags.

## DIY Sponsorships:

- DIY or “do it yourself” sponsorships are for all the creative desal professionals out there. Showcase your organization in a way that we haven’t thought of! Email: [glenmf@caldesal.org](mailto:glenmf@caldesal.org) with your proposed sponsorship and budget and we will work with you to customize a package for your organization!

## All Sponsors Will Receive:

- List of attendees
- Acknowledgement in handout materials – 100-word organization/company/agency description

## Sponsor Registration Form

[Click Here](#)

[CalDesal.org](http://CalDesal.org)



# **CalDesal 2025 Annual Conference**

## **Session/Panel Concepts**

### **Salinity/Concentrate Management Session**

- (So Cal) Jeff Mosher – SAWPA – Inland Empire Brine Line
- Adam Zacheis – Brown/Caldwell – FRRO for High Recovery – City of Santa Monica (MSSC – Feb 2024)
- Mike Mickley – Brine Mining – Mickley & Assoc/BlueTech Research)
- (So Cal) Linnea – Eastern Municipal Water District
- (So Cal) Rancho California (?)
- (Central Cal) Calleguas MWD – new brine line – how to grow use
- (Central Cal) Other inland brackish desal
  - Camarillo desalter
  - Moorpark desalter
- (Northern Cal) Valley Water – brine discharge issues

### **Arizona/Nevada Desal Activities**

- Chuck Podolak – Water Infrastructure Finance Authority of Arizona
- Rick Spilsbury – Ely Shoshone Tribe – Member of Great Basin Water Network
- Wally Wilson – Metro Water District – Arizona
- Jim Watrus – Southern Nevada Water Authority
- Phillip Richards – Arizona Public Service
- Scott Muller – Arizona Public Service
- Rezaur Rahman – Scottsdale Water – Arizona
- Joe Olson – Metro Domestic Water – Arizona
- Orestes Morfin – Central Arizona Project
- Chad Lapora – Tuscon Water
- Peter Fox – Professor – Environmental Engineering School of Sustainable Engineering – Arizona State University
- Charles Ester – Salt River Project – Arizona
- Reed Blochberger – Salt River Project – Arizona
- Andrew Burns – Southern Nevada Water Authority

### **Energy Session (Steve Wait)**

- Global Water Farms – CEO Jon Becker (partnership with Primeval Energy) – Geothermal desal in Salton Sea area
- Capture6 – Project Monarch with Palmdale Water District – CEO Ethan Cohen-Cole
- CarbonCapture, Inc.
- Energy Recovery, Inc. – Rodney Clemente – Sr. Vice President of Water
- Equatic – COO Edward Sanders – Seawater electrolysis for production of green H2
- Hydrogen issues/linkage

### **PFAS Session (Glenn)**

- Mitigating PFAS impacts to Eastern Municipal Water District's brackish desal operations
- Restoring a PFAS-impacted groundwater supply for potable use (Orange County WD)
- Chris Berch – GM, Jurupa Community Services District
- Carlos Quintero – GM, Sweetwater Authority

### **Labor Session (Glenn)**

- Pete Wohlgezogen – UA Local 250 Pipefitters
- Ernesto Medrano – Executive Secretary – LA/OC Building Trades
- Joseph Cruz – CA Council of Laborers
- Michael Quigly – CA Alliance for Jobs

### **Miller Marine Science Report Session**

- Eric Miller
- SDCWA/Channelside Resources

### **Desal Critics Session (Glenn)**

- Environmental Justice group
- Tribal interests (?)
- Enviro groups – CA Coastkeeper
- Pacific Institute

### **Public-Private Partnerships Session – Financing**

- Consolidated Water
- Seven Seas Water Group
- SDCWA/Channelside Resources

### **Cost of Water Session (Steve Wait)**

- Cost comparison models
  - Desalination
    - Seawater
    - Brackish
  - Water recycling (purple pipe)
  - IPR
  - DPR
  - Stormwater
  - Other
- Possibly Family Feud-style (or similar)

### **Public Perceptions of Desalination Session**

#### **Others for Consideration**

- Martin Ludlow – Groundswell for Water and Housing Justice
- Hayley Smith – LA Times environment reporter
- USBR Funding Opportunities for Water Reuse and desalination Construction and Water Treatment Research
  - Maribeth Menendez – USBR Water Resources and Planning Office
  - Andrew Tiffenbach – USBR Research and Development Office
- Jeopardy/Family Feud game

### **Keynote Speaker Options**

- Congressman Mike Levin – San Diego
- Peter Fiske – NAWI



# CALDESAL

## Statement of Financial Position

As of August 31, 2024

	Aug 31, 24	Aug 31, 23	\$ Change	% Change
<b>ASSETS</b>				
<b>Current Assets</b>				
<b>Checking/Savings</b>				
1000.00 · BMO	287,397.97	267,822.96	19,575.01	7.31%
<b>Total Checking/Savings</b>	287,397.97	267,822.96	19,575.01	7.31%
<b>Accounts Receivable</b>				
1200.00 · Accounts Receivable	0.00	1,000.00	-1,000.00	-100.0%
<b>Total Accounts Receivable</b>	0.00	1,000.00	-1,000.00	-100.0%
<b>Other Current Assets</b>				
1300.00 · PrePaid Expenses	5,000.00	4,000.00	1,000.00	25.0%
<b>Total Other Current Assets</b>	5,000.00	4,000.00	1,000.00	25.0%
<b>Total Current Assets</b>	292,397.97	272,822.96	19,575.01	7.18%
<b>TOTAL ASSETS</b>	<b>292,397.97</b>	<b>272,822.96</b>	<b>19,575.01</b>	<b>7.18%</b>
<b>LIABILITIES &amp; EQUITY</b>				
<b>Liabilities</b>				
<b>Current Liabilities</b>				
<b>Accounts Payable</b>				
2000.00 · Accounts Payable	9,185.13	9,285.91	-100.78	-1.09%
<b>Total Accounts Payable</b>	9,185.13	9,285.91	-100.78	-1.09%
<b>Total Current Liabilities</b>	9,185.13	9,285.91	-100.78	-1.09%
<b>Total Liabilities</b>	9,185.13	9,285.91	-100.78	-1.09%
<b>Equity</b>				
3150.00 · Operating Reserve	89,000.00	89,000.00	0.00	0.0%
3300.00 · Unrestricted Net Assets	89,353.92	68,736.36	20,617.56	30.0%
Net Income	104,858.92	105,800.69	-941.77	-0.89%
<b>Total Equity</b>	283,212.84	263,537.05	19,675.79	7.47%
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>292,397.97</b>	<b>272,822.96</b>	<b>19,575.01</b>	<b>7.18%</b>

# CALDESAL

## Statement of Financial Income and Expense

July through August 2024

	Jul - Aug 24	Jul - Aug 23	\$ Change	% Change
<b>Ordinary Income/Expense</b>				
<b>Income</b>				
4100.00 · Program Income				
4110.00 · Membership Dues				
4110.02 · Regular Dues	110,000.00	115,000.00	-5,000.00	-4.35%
4110.04 · Associate Dues	21,500.00	18,000.00	3,500.00	19.44%
<b>Total 4110.00 · Membership Dues</b>	<b>131,500.00</b>	<b>133,000.00</b>	<b>-1,500.00</b>	<b>-1.13%</b>
4200.00 · Annual Conference Income				
4200.02 · Annual Conference Registration	1,250.00	0.00	1,250.00	100.0%
<b>Total 4200.00 · Annual Conference Income</b>	<b>1,250.00</b>	<b>0.00</b>	<b>1,250.00</b>	<b>100.0%</b>
<b>Total 4100.00 · Program Income</b>	<b>132,750.00</b>	<b>133,000.00</b>	<b>-250.00</b>	<b>-0.19%</b>
4600.00 · Other Types of Income				
4605.00 · Interest Income	4.00	0.00	4.00	100.0%
<b>Total 4600.00 · Other Types of Income</b>	<b>4.00</b>	<b>0.00</b>	<b>4.00</b>	<b>100.0%</b>
<b>Total Income</b>	<b>132,754.00</b>	<b>133,000.00</b>	<b>-246.00</b>	<b>-0.19%</b>
<b>Gross Profit</b>	<b>132,754.00</b>	<b>133,000.00</b>	<b>-246.00</b>	<b>-0.19%</b>
<b>Expense</b>				
6500.00 · Operating Expenses				
6510.00 · Bank/Credit Card Fees	890.15	93.60	796.55	851.02%
6533.00 · Administrative- Management Fees				
6533.10 · Management Contracted Fees	8,652.80	8,652.80	0.00	0.0%
<b>Total 6533.00 · Administrative- Management Fees</b>	<b>8,652.80</b>	<b>8,652.80</b>	<b>0.00</b>	<b>0.0%</b>
6537.00 · Executive Director				
6537.10 · ED Fees	18,334.00	18,334.00	0.00	0.0%
<b>Total 6537.00 · Executive Director</b>	<b>18,334.00</b>	<b>18,334.00</b>	<b>0.00</b>	<b>0.0%</b>
6550.00 · Office Expenses				
6550.45 · Telephone Expense	0.00	88.47	-88.47	-100.0%
6550.60 · Printing/Copy- Admin	0.00	1.16	-1.16	-100.0%
6550.90 · Storage	18.13	29.28	-11.15	-38.08%
<b>Total 6550.00 · Office Expenses</b>	<b>18.13</b>	<b>118.91</b>	<b>-100.78</b>	<b>-84.75%</b>
<b>Total 6500.00 · Operating Expenses</b>	<b>27,895.08</b>	<b>27,199.31</b>	<b>695.77</b>	<b>2.56%</b>
<b>Total Expense</b>	<b>27,895.08</b>	<b>27,199.31</b>	<b>695.77</b>	<b>2.56%</b>
<b>Net Ordinary Income</b>	<b>104,858.92</b>	<b>105,800.69</b>	<b>-941.77</b>	<b>-0.89%</b>
<b>Net Income</b>	<b>104,858.92</b>	<b>105,800.69</b>	<b>-941.77</b>	<b>-0.89%</b>

# CALDESAL

## Profit & Loss Budget vs. Actual

July through August 2024

	Jul - Aug 24	Budget	\$ Over Budget	% of Budget
<b>Ordinary Income/Expense</b>				
Income				
4100.00 · Program Income				
4110.00 · Membership Dues				
4110.02 · Regular Dues	110,000.00	120,000.00	-10,000.00	91.67%
4110.04 · Associate Dues	21,500.00	21,000.00	500.00	102.38%
Total 4110.00 · Membership Dues	131,500.00	141,000.00	-9,500.00	93.26%
4200.00 · Annual Conference Income				
4200.02 · Annual Conference Registration	1,250.00	0.00	1,250.00	100.0%
4200.05 · Annual Conference Sponsorship	0.00	0.00	0.00	0.0%
Total 4200.00 · Annual Conference Income	1,250.00	0.00	1,250.00	100.0%
4300.00 · Event Income				
4310.00 · Virtual Program				
4310.05 · Virtual Program Registration	0.00	0.00	0.00	0.0%
Total 4310.00 · Virtual Program	0.00	0.00	0.00	0.0%
Total 4300.00 · Event Income	0.00	0.00	0.00	0.0%
4360.00 · Spring Mixer				
4360.02 · Spring Mixer Sponsorship	0.00	0.00	0.00	0.0%
4360.00 · Spring Mixer - Other	0.00	0.00	0.00	0.0%
Total 4360.00 · Spring Mixer	0.00	0.00	0.00	0.0%
4380.00 · Fall Mixer				
4380.02 · Fall Mixer Sponsorship	0.00	0.00	0.00	0.0%
Total 4380.00 · Fall Mixer	0.00	0.00	0.00	0.0%
Total 4100.00 · Program Income	132,750.00	141,000.00	-8,250.00	94.15%
4600.00 · Other Types of Income				
4605.00 · Interest Income	4.00	0.00	4.00	100.0%
Total 4600.00 · Other Types of Income	4.00	0.00	4.00	100.0%
Total Income	132,754.00	141,000.00	-8,246.00	94.15%
Gross Profit	132,754.00	141,000.00	-8,246.00	94.15%
Expense				
6100.00 · Program Expenses				
6150.00 · Membership Expenses				
6151.00 · Membershi Plaques/Awards	0.00	0.00	0.00	0.0%
6150.00 · Membership Expenses - Other	0.00	0.00	0.00	0.0%
Total 6150.00 · Membership Expenses	0.00	0.00	0.00	0.0%
6200.00 · Annual Conference				
6203.00 · Printing, Materials and Admin	0.00	0.00	0.00	0.0%
6200.00 · Annual Conference - Other	0.00	0.00	0.00	0.0%
Total 6200.00 · Annual Conference	0.00	0.00	0.00	0.0%
6300.00 · Events				
6360.00 · Spring Mixer Expense	0.00	0.00	0.00	0.0%
6380.00 · Fall Mixer Expense	0.00	0.00	0.00	0.0%
6300.00 · Events - Other	0.00	0.00	0.00	0.0%

# CALDESAL

## Profit & Loss Budget vs. Actual

### July through August 2024

	Jul - Aug 24	Budget	\$ Over Budget	% of Budget
Total 6300.00 · Events	0.00	0.00	0.00	0.0%
Total 6100.00 · Program Expenses	0.00	0.00	0.00	0.0%
6500.00 · Operating Expenses				
6110.00 · Board Expenses				
6113.00 · Board Meeting Expenses	0.00	0.00	0.00	0.0%
Total 6110.00 · Board Expenses	0.00	0.00	0.00	0.0%
6510.00 · Bank/Credit Card Fees	890.15	150.00	740.15	593.43%
6531.00 · Accounting/ Audit/ Tax	0.00	0.00	0.00	0.0%
6533.00 · Administrative- Management Fees				
6533.10 · Management Contracted Fees	8,652.80	8,999.00	-346.20	96.15%
6533.30 · Management Travel	0.00	0.00	0.00	0.0%
6533.50 · Management Expenses	0.00	0.00	0.00	0.0%
Total 6533.00 · Administrative- Management Fees	8,652.80	8,999.00	-346.20	96.15%
6535.00 · Communications Contractors	0.00	140.00	-140.00	0.0%
6537.00 · Executive Director				
6537.10 · ED Fees	18,334.00	18,332.00	2.00	100.01%
6537.30 · ED Expenses	0.00	0.00	0.00	0.0%
6537.50 · ED Travel	0.00	0.00	0.00	0.0%
Total 6537.00 · Executive Director	18,334.00	18,332.00	2.00	100.01%
6545.00 · Meeting Expense	0.00	0.00	0.00	0.0%
6550.00 · Office Expenses				
6550.40 · Office Supplies/Expenses	0.00	8.00	-8.00	0.0%
6550.45 · Telephone Expense	0.00	100.00	-100.00	0.0%
6550.50 · Postage/Delivery-Admin	0.00	8.00	-8.00	0.0%
6550.60 · Printing/Copy- Admin	0.00	6.00	-6.00	0.0%
6550.90 · Storage	18.13	28.32	-10.19	64.02%
Total 6550.00 · Office Expenses	18.13	150.32	-132.19	12.06%
6550.80 · Website/Database	0.00	0.00	0.00	0.0%
6590.00 · Miscellaneous Operating Expense	0.00	0.00	0.00	0.0%
Total 6500.00 · Operating Expenses	27,895.08	27,771.32	123.76	100.45%
Total Expense	27,895.08	27,771.32	123.76	100.45%
Net Ordinary Income	104,858.92	113,228.68	-8,369.76	92.61%
Net Income	104,858.92	113,228.68	-8,369.76	92.61%

**CALDESAL**  
**A/R Aging Detail**  
As of August 31, 2024

	Type	Date	Num	Name	Amount
<hr/>					
Current					
Total Current					
1 - 30					
Total 1 - 30					
31 - 60					
Total 31 - 60					
61 - 90					
Total 61 - 90					
> 90					
Total > 90					<hr/>
TOTAL					<hr/> <hr/>

CALDESAL  
Monthly Detail  
August 2024

	Type	Date	Num	Name	Memo	Debit	Credit	Balance
Ordinary Income/Expense								
Income								
4100.00 · Program Income								
4200.00 · Annual Conference Income								
4200.02 · Annual Conference Registration								
	Sales Receipt	08/20/2024	292	South Coast Water Di	2025 Annual Conference Registration		1,250.00	1,250.00
Total 4200.02 · Annual Conference Registration						0.00	1,250.00	1,250.00
Total 4200.00 · Annual Conference Income						0.00	1,250.00	1,250.00
Total 4100.00 · Program Income						0.00	1,250.00	1,250.00
4600.00 · Other Types of Income								
4605.00 · Interest Income								
	Deposit	08/31/2024			Interest		2.27	2.27
Total 4605.00 · Interest Income						0.00	2.27	2.27
Total 4600.00 · Other Types of Income						0.00	2.27	2.27
Total Income						0.00	1,252.27	1,252.27
Gross Profit						0.00	1,252.27	1,252.27
Expense								
6500.00 · Operating Expenses								
6510.00 · Bank/Credit Card Fees								
	Check	08/19/2024		Stripe		20.00		20.00
	Sales Receipt	08/20/2024	292	South Coast Water Di	Stripe credit card processing fee	36.55		56.55
	Deposit	08/22/2024	Stripe	Mesa Water District	Deposit	145.30		201.85
	Check	08/22/2024			Service Charge	10.00		211.85
	Check	08/23/2024	EFT		Intuit Fee	35.30		247.15
Total 6510.00 · Bank/Credit Card Fees						247.15	0.00	247.15
6533.00 · Administrative- Management Fees								
6533.10 · Management Contracted Fees								
	Bill	08/01/2024	20240200	Smith Moore and Assc	August Monthly Contracteed Fee	4,326.40		4,326.40
Total 6533.10 · Management Contracted Fees						4,326.40	0.00	4,326.40
Total 6533.00 · Administrative- Management Fees						4,326.40	0.00	4,326.40
6537.00 · Executive Director								
6537.10 · ED Fees								
	Bill	08/31/2024	1187	Glenn Farrel	August 2024 Executive Director Srvs	9,167.00		9,167.00
Total 6537.10 · ED Fees						9,167.00	0.00	9,167.00
Total 6537.00 · Executive Director						9,167.00	0.00	9,167.00
Total 6500.00 · Operating Expenses						13,740.55	0.00	13,740.55
Total Expense						13,740.55	0.00	13,740.55
Net Ordinary Income						13,740.55	1,252.27	-12,488.28
Net Income						13,740.55	1,252.27	-12,488.28



## CalDesal Budget Performance Worksheet – August 31, 2024

### Income

Item	Approved Annual Budget – 2024-25	2 Months Ended August 31, 2024	% of Budgeted Revenue
Membership Dues – Regular	145,000	110,000	76%
Membership Dues – Associate	25,000	21,500	86%
Annual Conference Registration	30,000	0	-
Annual Conference Sponsorships	15,000	1,250	8%
Fall Virtual Program Registration	0	0	-
Webinar Income	0	0	-
Spring Mixer Sponsorship	7,000	0	-
Fall Mixer Sponsorship	8,000	0	-
Interest Income		4	
<b>TOTAL Income</b>	<b>230,000</b>	<b>132,754</b>	<b>58%</b>

## Expenses

Item	Approved Annual Budget – 2024-25	2 Months Ended August 31, 2024	% of Budget Expended
Accounting/Audit/Tax	2,000	0	-
Bank/Credit Card Fees	3,000	890	30%
Board Meeting Expenses	3,000	0	-
Fall Mixer	8,000	0	-
Spring Mixer	8,000	0	-
Communications	800	0	-
Contract Services	0	0	-
Dues and Subscriptions	0	0	-
Executive Director Fees	110,000	18,334	17%
Executive Director Expenses	0	0	-
Executive Director Travel	0	0	-
Management Fees	53,993	8,653	16%
Management Travel	2,000	0	-
Management Expenses	0	0	-
Office Supplies and Expense	50	0	-
Postage/Delivery – Admin	50	0	-
Print/Copy – Admin	40	0	-
Storage	170	18	11%
Taxes & Licenses	0	0	-
Telephone	600	0	-
Website/Database	600	0	-
Annual Conference	32,000	0	-
Miscellaneous Expense	0	0	-
Membership Plaques/Awards	500	0	-
<b>TOTAL Expenses</b>	<b>224,803</b>	<b>27,895</b>	<b>12%</b>





## CalDesal 2024 Executive Committee Roster

NAME	ORGANIZATION	CONTACT	TYPE
Mark Donovan (Chair)	GHD	<a href="mailto:mark.donovan@ghd.com">mark.donovan@ghd.com</a>	Non-Water Purveying
Marice DePasquale (Vice Chair)	Mesa Water District	<a href="mailto:marice@mconsensus.com">marice@mconsensus.com</a>	Water Purveying
Jeremy Crutchfield (Treasurer)	San Diego County Water Authority	<a href="mailto:jcrutchfield@sdewa.org">jcrutchfield@sdewa.org</a>	Water Purveying
Michelle Peters (Secretary)	Channelside Resources	<a href="mailto:mpeters@channelsidedesal.com">mpeters@channelsidedesal.com</a>	Non-Water Purveying
<del>Kim Adamson</del>	<del>Kiewit Infrastructure</del>	<del><a href="mailto:kim.adamson@kiewit.com">kim.adamson@kiewit.com</a></del>	<del>Non-Water Purveying</del>
Lacy Carothers	California American Water	<a href="mailto:Lacy.Carothers@amwater.com">Lacy.Carothers@amwater.com</a>	Water Purveying
Jeff Armstrong	Eastern Municipal Water District	<a href="mailto:jeffarmstrong100@verizon.net">jeffarmstrong100@verizon.net</a>	Water Purveying
Bill Green	South Coast Water District	<a href="mailto:bgreen@director.scwd.org">bgreen@director.scwd.org</a>	Water Purveying
Clifford Maurer	City of Santa Barbara	<a href="mailto:cmaurer@santabarbaraca.gov">cmaurer@santabarbaraca.gov</a>	Water Purveying
Jeff Quimby	Contra Costa Water District	<a href="mailto:jquimby@ccwater.com">jquimby@ccwater.com</a>	Water Purveying
Ed Stevenson	Alameda County Water District	<a href="mailto:ed.stevenson@acwd.com">ed.stevenson@acwd.com</a>	Water Purveying
Warren Teitz	Metropolitan Water District of Southern California	<a href="mailto:wteitz@mwdh2o.com">wteitz@mwdh2o.com</a>	Water Purveying
Vacancy			
Vacancy			

Water purveying organizations: At least 7 (current 9)

Non-water purveying organizations: At least 3 (current 2)



## Meeting with CA Natural Resources Secretary Wade Crowfoot

### Agenda

- **Overview of January 2024 brine discharge study from Carlsbad Desalination Plant**
  - Results and conclusions
  - **CalDesal Request:** Help the desalination community promote the study because it demonstrates California is protecting the environment and advancing desalination responsibly
- **Upcoming Ocean Plan Amendment Process**
  - Anticipated proposed amendments to the Ocean Plan raise concerns about the viability of desalination in California going forward
    - De facto prohibition on open ocean intakes
    - Improving timing and mechanisms for mitigation (including consideration for elimination of shearing mitigation for projects in compliance with SWRCB streamlining recommendations by utilizing subsurface intakes and commingling discharge with an existing wastewater outfall)
    - Determination of “need” for desalination
    - Improving streamlined opportunities for pilot seawater desalination projects to proceed expeditiously
- **Ensuring that seawater desalination remains a viable resource strategy – including through new innovations and emerging approaches – for California. What needs to be done and how can CalDesal partner with the Newsom Administration to achieve these objectives?**
- **Next steps and future discussions**

## OPA 2.0 Working Group – Issues Matrix

ISSUE	CONTEXT (What Issues are Implied Within This Item?)	KEY TALKING POINTS
Allowance of flow augmentation without bias	Flow augmentation can result in less impact than diffusers and should be included in discharge analysis.	All brine dilution methods should be included in analysis to determine which has least impact project by project.
Elimination of brine diffusers as best available technology		
Improving science around determination of shearing mortality and related mitigation requirements		
Eliminate shearing mitigation for projects that comply with the SWB streamlining recommendations by utilizing subsurface intakes and commingling discharge with an existing wastewater outfall.	Differentiating brine from freshwater in an existing wastewater outfall ignores the fact that the brine makes the freshwater more similar to the receiving waters and thereby reduces shearing effects because the more similar water masses mix more readily. Just as a subsurface intake is assumed to minimize entrainment and impingement to the point no mitigation for marine life impacts is needed, the same logic should be applied to commingled discharges.	Using the BTA for intake and discharge should result in no mitigation needed as the impacts to all forms of marine life have been minimized to the extent possible. Freshwater causes shear just like brine because dissimilar liquids (freshwater and marine receiving waters) are being forcibly mixed. Pre-mixing brine and freshwater wastewater reduces the liquid dissimilarity and results in less energetic mixing needing less shear. An overall environmental benefit.
		The state does not regulate shearing in wastewater discharge and it's scientifically inconsistent to apply this standard only to desalination plants.
De facto prohibition on open intakes	Subsurface intakes are not feasible everywhere and cannot provide sufficient source water for the large plants the arid southwest will need to offset the aridification-induced water losses.	Subsurface is not possible everywhere. We cannot replace the water volumes lost to aridification without open intakes.  Cost must be considered. Lots of small plants with subsurface intakes could result in higher water costs. Brings in the EJ/SJ issue opponenets have been focused on.

**Commented [1]:** CalDesal should be careful with shearing. Roberts has produced reports with conflicting conclusions. The peer-reviewed literature he cites in his reports confirms that larvae larger than 1 mm are killed more than those less than 1 mm. The biggest issue with the Roberts shearing work is that it all cites invertebrate larval studies while we are mostly concerned with fish larvae from the ETM/APF analytical standpoint. This is mainly due to Robert's reliance on Kolmogorov scales. There is literature on the effect of shearing on larval fish but they do not express shearing energy as Kolmogorov but at dynes. They find high turbulence is very lethal and not tied to time or frequency of exposure. A turbulent jet with enough force tears apart fish larvae that lack shells or exoskeletons like invertebrate larvae. I personally do not know how/if dynes and Kolmogorov scales can be converted into similar units. In this list, we also have conflicting requests about diffusers, shearing, etc. I added a different route that hopefully sidesteps the shearing issue and benefits those projects that are using what the State says is the "streamlined" route.

**Commented [4]:** Just added "pre" to indicate we are talking about com-mingling

**Commented [3]:** I think this could complicate the already complicated shearing issue. Shearing results from a high velocity jet being injected into stagnant water. The salinity perspective is only relevant in that co-mingled effluent would no longer need high velocity to mix efficiently.

**Commented [2]:** I think this is a slick solution. It preserves flexibility in compliance which is usually is a benefit to industry.

**Commented [5]:** OK - you captured it here. Great

Specify a sequential order for assessing site, design, technology, and mitigation under the Water Code Section 13142.5(b) determination process ( <i>Siting Criteria Report</i> )	Each Water Code element needs to be evaluated with equal weight for each project. No project should be summarily denied because an element reviewed early in the process is determined to be less than ideal.	The current process is untenable for most developers municipalities when there are so many potential ways to stop a project. Making stage-gates, reduces risk for project proponents and increases certainty.
Offshore/deep-sea desalination evaluation and permitting	Should be given a pathway to compliance like all rather than disregarded because its in a less studied habitat.	Flexibility in the final regulations is required to leave space for new technologies
Articulate criteria for studies necessary to demonstrate subsurface intake feasibility ( <i>Siting Criteria Report</i> )		

Align the desalination provisions with the Coastal Act requirements regarding energy consumption and Resolution No. 2017-0012 ( <i>Siting Criteria Report</i> )		
Timing – requirement for mitigation to be in place prior to operations of a facility is problematic	Mitigation need is quantified too late in the permitting process to allow for a mitigation project to be feasibly designed, permitted, constructed, and demonstrated as successful. Either allow after the fact mitigation or increase the range of mitigation banks allowed in CA that can be used by desalination developers, or both.	<p>This proposed provision is not legal because it renders projects infeasible. Evidence shows that coastal wetlands take 20 years to site, design, permit and build, not taking into account demonstrating performance. Such a provision is in conflict with the state's definition of feasible as a project cannot be successfully developed in a reasonable period of time.</p> <p>No project - public or private - would be able to secure construction financing with such a permit condition, leaving a project in limbo for an unspecified period of time.</p>
Mechanisms – Fee-based mitigation; artificial reef efficacy		Establishing a fee-based program, as contemplated by the 2016 OPA, is the best way to streamline the development of desalination projects.
Elimination of mitigation for shearing mortality		
Establish definitions for terms such as “restoration,” “creation,” and “expansion” to improve clarity around mitigation planning expectations ( <i>Siting Criteria Report</i> )		
Clarify that “preservation” is not an acceptable means of mitigation under		

**Commented [6]:** I would say "allowed". It was in there.

**Commented [7]:** I just don't see the WB saying yes. This is a heavy hammer they can use against big projects. They wielded it, in part, to kill HB. More than 50% of the HB mitigation was due to shearing.

**Commented [8]:** Without shearing, flow augmentation will always result in more impact based on the current assessment methods. Earlier we request FA be allowed as a method. Having FA as an option for future big plants could be a huge reduction in impact and cost, especially if the intake can be located in a low-productivity habitat.

the Ocean Plan ( <i>Siting Criteria Report</i> )		
Who makes determinations or evaluations?		
Factors comprising determination of "need"		
Provide guidance on the information needed to prepare a Water Supply and Demand Assessment ( <i>Siting Criteria Report</i> )		
Provide guidance on the application of existing policies and regulatory requirements relating to EJ, including siting projects with proactive community engagement and locally scoped EJ in mind at the onset of the permitting process ( <i>Siting Criteria Report</i> )		
Align the desalination provisions with the Human Right to Water and all applicable racial equity resolutions ( <i>Siting Criteria Report</i> )		
Cost of water as a consideration (rate-making)		

**Commented [9]:** Instead of trying to fix a bad provision let's discuss spiking the entire "need" discussion in the OPA. It's an overreach.

**Commented [10]:** See my previous comment on water cost associated with lots of small subsurface intake plants.