



CalDesal Executive Committee Meeting Agenda

Monday, August 19, 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**
 - Save the Date – 2025 CalDesal Annual Conference
 - Pechanga Resort – Temecula
 - Wednesday, February 5 – Thursday, February 6
 - Sponsorship prospectus (**Attachment**)
 - Events Planning Committee work under way (**Attachment**)
 - Preview of early programming concepts
 - Keynote speaker ideas
- **Legislative Update**
 - Resources/climate resilience bond de-brief (**Attachments**)
 - Consideration of CalDesal position on Proposition 4
- **Membership Update**
 - Review of outreach matrix (**Attachment**)

Governance

- **Financial**
 - CalDesal financials – July 2024 (**Attachment**)
 - CalDesal budget performance report (**Attachment**)

CalDesal Policy Issues

- Crowfoot meeting agenda (**Attachment**)
- OPA 2.0 planning efforts (**Attachment**)
- Fact sheet – Carlsbad/MMSC (**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: September 16, 2024 – 11:00 AM

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: glennf@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](#)

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CalDesal 2025 Annual Conference

Session/Panel Concepts

Salinity/Concentrate Management Session

- 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)

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

- 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

PFAS Session

- 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

- 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

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

Anti-Desal Session

- 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

Keynote Speaker Options

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

Climate Resilience Bond Update

August 2024

Final Bond Breakdown (Content)

BOND CHAPTER	FUNDING ALLOCATION
Safe Drinking Water, Drought, Flood, and Water Resilience	\$3.8 billion
Wildfire and Forest Resilience	\$1.5 billion
Sea Level Rise and Coastal Resilience	\$1.2 billion
Protect Biodiversity and Accelerating Nature-Based Climate Solutions	\$1.2 billion
Clean Air	\$850 million
Park Creation and Outdoor Access	\$700 million
Climate Smart, Sustainable, and Resilient Farms, Ranches, and Working Lands	\$300 million
Extreme Heat Mitigation	\$450 million
TOTAL	\$10 billion

Comparison of SB 867 – Climate Resilience Bond Package – With Statewide Coalition Funding Request

WATER RESILIENCE FUNDING CATEGORY	SB 867	COALITION REQUEST
Safe drinking water*	\$610 M	\$500 M
Groundwater storage*	\$386.25 M	\$750 M
Water recycling and desalination*	\$448.75 M	\$1 B
Water storage*	\$75 M	\$550 M
Water conservation*	\$75 M	\$400 M
Regional conveyance*	\$75 M	\$600 M
Dam safety*	\$480 M	\$700 M
Flood protection and reactivation + stormwater management*	\$660 M	\$950 M
Watershed resilience	\$100 M	\$700 M
State Water Project public benefits*	\$0	\$500 M
Land repurposing program	\$200 M	\$0
Water data management	\$15 M	\$0
Rivers, lakes, streams, wetlands	\$335 M	\$0
Salton Sea Management Plan	\$170 M	\$0
Streamflow enhancement	\$150 M	\$0
Nature education facilities	\$20 M	\$0
TOTAL	\$3.8 B	\$6.65 B

*Includes "water infrastructure projects"

Coalition request: Allocate 2/3 (66%) of \$10B climate resilience bond to water infrastructure investment

SB 867 water infrastructure investment: ~\$2.81B = 28% of total bond allocation

What's Next?

- Senate President Pro Tempore Mike McGuire signed the climate bond on July 3 to place it onto the General Election ballot
- Proposition 4 on November 5 General Election ballot
- Stakeholders (final position on SB 867):
 - ACWA – Neutral
 - State Water Contractors – Neutral
 - Northern CA Water Association – Neutral
 - WaterReuse – Neutral
 - CA Municipal Utilities Association – Support
 - Environmental Community – Support
 - Labor – Neutral
 - Individual water agencies – Varied
 - Business Community – Neutral
 - Agricultural Community – Varied



Political Considerations

- Proposition 1 on **March 2024 primary election** ballot
 - Passed with only 50.2% of affirmative vote – with full support by Governor
- **PPIC polling**
 - *“64% of voters say this is a bad time to issue state bonds for state programs and infrastructure projects”* (PPIC June 2024, November Election, State fiscal ballot initiatives discussion)
- **California economy + State fiscal condition**
 - \$29 billion budget shortfall for 2024-25
 - Projected \$28 billion budget shortfall for 2025-26
- **Proposition 2 on November 2024 General Election ballot** is a \$10 billion school facilities bond measure

QUESTIONS?

Desalination Funding Allocation in SB 867/Proposition 4

SB 867 – June 2023 Version	SB 867 – June 2024 Version/Final Version	Key Differences
<p>91015. (a) Of the funds made available by Section 91010, one hundred million dollars (\$100,000,000) shall be available, upon appropriation by the Legislature, to the Department of Water Resources for capital investments in brackish desalination, seawater desalination, contaminant and salt removal, and salinity management projects to improve California water and drought resilience. Priority shall be given to projects that use renewable energy and reduce greenhouse gas emissions associated with their construction and operation. (b) For seawater desalination projects described in subdivision (a), priority shall be given to projects that do the following: (1) Incorporate measures to minimize the intake of all forms of marine, brackish, and freshwater life in their construction and operation. (2) Incorporate measures to minimize the adverse impacts of outfalls on marine, brackish, and freshwater life in their construction and operation.</p>	<p>91016. Of the funds made available by Section 91010, sixty-two million five hundred thousand dollars (\$62,500,000) shall be available, upon appropriation by the Legislature, for capital investments in brackish desalination, contaminant and salt removal, and salinity management projects to improve California water and drought resilience. Priority shall be given to projects that use new incremental eligible renewable energy resources during operation and reduce greenhouse gas emissions associated with their construction and operation.</p>	<p>(1) Reduction in total allocation from \$100M to \$62.5M</p> <p>(2) Elimination of “seawater desalination” as an eligible project category for funding</p>

Organizational Positions on Proposition 4

ORGANIZATION	PROPOSITION 4 POSITION
Association of California Water Agencies	Neutral
California Municipal Utilities Association	Support
Northern California Water Association	Neutral
Southern California Water Coalition	Neutral
State Water Contractors	Neutral
WaterReuse	Legislative Committee recommended Support position to WaterReuse Board
CA State Building Trades	Neutral
CA Alliance for Jobs	Neutral
CA Farm Bureau Federation	Neutral
Western Growers	Neutral
Individual Water Agencies	Varies
CA Chamber of Commerce	Neutral (on SB 867)

CalDesal Membership Outreach Targets

Organization/Company	Potential Contact Name/Info	Last CalDesal Outreach
Acciona	Ignacio Beneyto Espinosa de los Monteros “Nacho” Manuel Manjon – CEO Water	
Advanced GeoEnvironmental	Robert Marty	7/24/24
Advantec MFS		3/1/22
AECOM	Daven Oswalt	7/24/24
Afton Pumps	Roland Torres	7/24/24
Air & Liquid Systems Corp.	Michael Montesinos	7/24/24
Antioch, City of	John Samuelson	7/24/24
Applied Marine Sciences	Jay Johnson	7/24/24
Applied Membranes	Gil Dhawan/Manoj Dhawan	7/25/24
Aqua-Aerobic Systems, Inc.	Dave Holland	7/24/24
Arcadis	Brent Alspach	7/24/24
Ari USA	Michelle Sinclair	7/24/24
AXEON Water Technologies	Augustin Pavel	7/24/24
Boll Filter Corp.		3/1/22
Burns + McDonnell	Jacob White	7/25/24
Calleguas Water District	Kristine McCaffrey	7/15/24
Camarillo, City of	Lucie McGovern/Dave Klotzle	7/25/24
Carollo	Brandon Yallaly	7/24/24
Cerafiltec US		
Chart Water		4/14/22
Civiltec Engineering	David Byrum	7/24/24
CLA-VAL	Paul Palubicki Tina Christie Monte Roberts George Aguilar	7/25/24
CLOW Valve Company	Steve Werninger	7/24/24
Cortech Engineering	Marc Sanchez	7/24/24
Delta Diablo	Vince DeLange	7/25/24
DN Tanks	Matt Ford	7/24/24
Dopudja & Wells Consulting	Jon Wells	4/14/22
DuPont Water Solutions	Jeroen Bloemhard	7/25/24
Electropure EDI		
Elsinore Valley Municipal Water District	Greg Thomas – General Manager	7/15/24
Energy Recovery, Inc.	Rodney Clemente	11/23/22
Fieldman Rolapp	Robert Porr	7/24/24
Fluid Equipment Development Company	Rory Weaver	7/24/24
Forsta Filters	Polly Stenberg	7/25/24
Garver	Michael Watts	7/25/24

Organization/Company	Potential Contact Name/Info	Last CalDesal Outreach
GF Piping Systems	Brian LaBelle	7/24/24
H2O Innovation	Greg Madden	7/24/24
Harn R/O Systems	Julie Nemeth-Harn	7/24/24
HDR	Samantha Black	7/24/24
Hydranautics	Steve Johnson	7/24/24
Intera	Steve Young/Abhishek Singh	7/24/24
Invenergy Clean Water	Matt Nicholls	7/24/24
John Robinson Consulting	John Robinson	7/25/24
Johnson-Frank & Associates	Alan Frank/Teresa Frank	7/25/24
Kennedy Jenks	Todd Reynolds	7/25/24
Kinser Membrane Solutions	Karla Kinser	7/24/24
Lanxess Sybron Chemicals		
Mann + Hummel		
MASAR Technologies	Mohamad Amin Saad	7/25/24
MKN Associates	S. Kamangar A. Bugielski J. Harrington P. brennan M. Nunley	7/25/24
MNS Engineers	Miranda Patton	7/25/24
Montgomery & Associates	Hale Barter	7/25/24
Moulton Niguel Water District	Joone Lopez	7/15/24
MWH		
Nanostone	Aaron Chockla	7/25/24
Ninyo & Moore	Steve Lorenzo/Ruth Dolecki	11/23/22
NX Filtration	Jay Garcia	7/25/24
Oceanus	Neil Aronson	7/25/24
Pacific RO		
Pall Water	Lou Mattera/Mark Selander	7/25/24
Pani Energy	Alan Consigny	
Peterson Structural Engineers	Galit Ryan	7/25/24
Protec Arisawa	Luis Avina	7/25/24
Psomas	Chris Davenport	7/25/24
Pure Aqua, Inc.	Mike Moe	7/25/24
Santa Ana Watershed Project Authority	Jeff Mosher	7/25/24
Santa Margarita Water District	Rob Grantham	7/15/24
Santa Monica, City of	Susan Cline	7/25/24
Separation Processes Inc.	James Vickers	7/25/24

Organization/Company	Potential Contact Name/Info	Last CalDesal Outreach
Solano County Water Agency	Chris Lee	9/29/22
Stantec	Pete Perciavalle	7/25/24
Synauta	Mike Dixon	7/25/24
Tenera Environmental	John Steinbeck	7/25/24
Tetra Tech		
Tory Membrane USA	Sean Carter	7/24/24
United Water Conservation District	Mauricio Guardado	7/15/24
Verdantas	Kristen Williams	7/25/24
Victaulic Company	Stephen Morrison	7/25/24
WATEK Engineering Corp.	Ben Movahed	7/24/24
Water Works Engineers	John Matta	7/25/24
West Yost	Elizabeth Drayer	7/25/24
Wigen Water Technologies	Michael Bourke	7/24/24
Woodard & Curran	Christy Kennedy	7/25/24
Xylem	Rodney Aulick	7/25/24
Yucaipa Valley Water District	Joseph Zoba	7/24/24
Zero Energy Water	Ray Williamson	7/25/24

CALDESAL
Statement of Financial Position
As of July 31, 2024

	Jul 31, 24	Jul 31, 23	\$ Change	% Change
ASSETS				
Current Assets				
Checking/Savings				
1000.00 · BMO	242,936.05	265,508.50	-22,572.45	-8.5%
Total Checking/Savings	242,936.05	265,508.50	-22,572.45	-8.5%
Accounts Receivable				
1200.00 · Accounts Receivable	0.00	1,000.00	-1,000.00	-100.0%
Total Accounts Receivable	0.00	1,000.00	-1,000.00	-100.0%
Other Current Assets				
12000 · Undeposited Funds	18,250.00	0.00	18,250.00	100.0%
1300.00 · PrePaid Expenses	5,175.30	4,000.00	1,175.30	29.38%
Total Other Current Assets	23,425.30	4,000.00	19,425.30	485.63%
Total Current Assets	266,361.35	270,508.50	-4,147.15	-1.53%
TOTAL ASSETS	266,361.35	270,508.50	-4,147.15	-1.53%
LIABILITIES & EQUITY				
Liabilities				
Current Liabilities				
Accounts Payable				
2000.00 · Accounts Payable	9,466.80	9,363.78	103.02	1.1%
Total Accounts Payable	9,466.80	9,363.78	103.02	1.1%
Total Current Liabilities	9,466.80	9,363.78	103.02	1.1%
Total Liabilities	9,466.80	9,363.78	103.02	1.1%
Equity				
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	78,540.63	103,408.36	-24,867.73	-24.05%
Total Equity	256,894.55	261,144.72	-4,250.17	-1.63%
TOTAL LIABILITIES & EQUITY	266,361.35	270,508.50	-4,147.15	-1.53%

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Statement of Financial Income and Expense

July 2024

	Jul 24	Jul 23	\$ Change	% Change
Ordinary Income/Expense				
Income				
4100.00 · Program Income				
4110.00 · Membership Dues				
4110.02 · Regular Dues	75,000.00	100,000.00	-25,000.00	-25.0%
4110.04 · Associate Dues	17,500.00	17,000.00	500.00	2.94%
Total 4110.00 · Membership Dues	92,500.00	117,000.00	-24,500.00	-20.94%
Total 4100.00 · Program Income	92,500.00	117,000.00	-24,500.00	-20.94%
4600.00 · Other Types of Income				
4605.00 · Interest Income	1.73	0.00	1.73	100.0%
Total 4600.00 · Other Types of Income	1.73	0.00	1.73	100.0%
Total Income	92,501.73	117,000.00	-24,498.27	-20.94%
Gross Profit	92,501.73	117,000.00	-24,498.27	-20.94%
Expense				
6500.00 · Operating Expenses				
6510.00 · Bank/Credit Card Fees	467.70	83.60	384.10	459.45%
6533.00 · Administrative- Management Fees				
6533.10 · Management Contracted Fees	4,326.40	4,326.40	0.00	0.0%
Total 6533.00 · Administrative- Management Fees	4,326.40	4,326.40	0.00	0.0%
6537.00 · Executive Director				
6537.10 · ED Fees	9,167.00	9,167.00	0.00	0.0%
Total 6537.00 · Executive Director	9,167.00	9,167.00	0.00	0.0%
6550.00 · Office Expenses				
6550.90 · Storage	0.00	14.64	-14.64	-100.0%
Total 6550.00 · Office Expenses	0.00	14.64	-14.64	-100.0%
Total 6500.00 · Operating Expenses	13,961.10	13,591.64	369.46	2.72%
Total Expense	13,961.10	13,591.64	369.46	2.72%
Net Ordinary Income	78,540.63	103,408.36	-24,867.73	-24.05%
Net Income	78,540.63	103,408.36	-24,867.73	-24.05%

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Profit & Loss Budget vs. Actual

July 2024

	Jul 24	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
4100.00 · Program Income				
4110.00 · Membership Dues				
4110.02 · Regular Dues	75,000.00	100,000.00	-25,000.00	75.0%
4110.04 · Associate Dues	17,500.00	17,000.00	500.00	102.94%
Total 4110.00 · Membership Dues	92,500.00	117,000.00	-24,500.00	79.06%
4200.00 · Annual Conference Income				
4200.02 · Annual Conference Registration	0.00	0.00	0.00	0.0%
4200.05 · Annual Conference Sponsorship	0.00	0.00	0.00	0.0%
Total 4200.00 · Annual Conference Income	0.00	0.00	0.00	0.0%
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	92,500.00	117,000.00	-24,500.00	79.06%
4600.00 · Other Types of Income				
4605.00 · Interest Income	1.73	0.00	1.73	100.0%
Total 4600.00 · Other Types of Income	1.73	0.00	1.73	100.0%
Total Income	92,501.73	117,000.00	-24,498.27	79.06%
Gross Profit	92,501.73	117,000.00	-24,498.27	79.06%
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%
Total 6300.00 · Events	0.00	0.00	0.00	0.0%

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Profit & Loss Budget vs. Actual

July 2024

	Jul 24	Budget	\$ Over Budget	% of Budget
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	467.70	100.00	367.70	467.7%
6531.00 · Accounting/ Audit/ Tax	0.00	0.00	0.00	0.0%
6533.00 · Administrative- Management Fees				
6533.10 · Management Contracted Fees	4,326.40	4,499.40	-173.00	96.16%
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	4,326.40	4,499.40	-173.00	96.16%
6535.00 · Communications Contractors	0.00	70.00	-70.00	0.0%
6537.00 · Executive Director				
6537.10 · ED Fees	9,167.00	9,166.00	1.00	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	9,167.00	9,166.00	1.00	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	4.00	-4.00	0.0%
6550.45 · Telephone Expense	0.00	50.00	-50.00	0.0%
6550.50 · Postage/Delivery-Admin	0.00	4.00	-4.00	0.0%
6550.60 · Printing/Copy- Admin	0.00	3.00	-3.00	0.0%
6550.90 · Storage	0.00	14.16	-14.16	0.0%
Total 6550.00 · Office Expenses	0.00	75.16	-75.16	0.0%
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	13,961.10	13,910.56	50.54	100.36%
Total Expense	13,961.10	13,910.56	50.54	100.36%
Net Ordinary Income	78,540.63	103,089.44	-24,548.81	76.19%
Net Income	78,540.63	103,089.44	-24,548.81	76.19%

CALDESAL
A/R Aging Detail
As of July 31, 2024

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

CALDESAL
Monthly Detail
July 2024

	Type	Date	Num	Name	Memo	Debit	Credit	Balance
Ordinary Income/Expense								
Income								
4100.00 · Program Income								
4110.00 · Membership Dues								
4110.02 · Regular Dues								
	Invoice	07/01/2024	2024726	Alameda County Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	5,000.00	
	Invoice	07/01/2024	2024729	City of Oceanside	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	10,000.00	
	Invoice	07/01/2024	2024730	City of Santa Barbara	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	15,000.00	
	Invoice	07/01/2024	2024732	Contra Costa Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	20,000.00	
	Invoice	07/01/2024	2024734	Eastern Municipal Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	25,000.00	
	Invoice	07/01/2024	2024739	Laguna Beach County Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	30,000.00	
	Invoice	07/01/2024	2024740	Las Virgenes Municipal Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	35,000.00	
	Invoice	07/01/2024	2024743	Montecito Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	40,000.00	
	Invoice	07/01/2024	2024744	Municipal Water District of Orange Count	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	45,000.00	
	Invoice	07/01/2024	2024747	San Diego County Water Authority	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	50,000.00	
	Invoice	07/01/2024	2024749	Valley Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	55,000.00	
	Invoice	07/01/2024	2024750	Water Replenishment District of Southerr	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	60,000.00	
	Invoice	07/01/2024	2024751	West Basin Municipal Water District	July 1, 2024-June 30 2025 Regular Membership Dues	5,000.00	65,000.00	
	General Journal	07/01/2024	2023-008R		2024-2025 Dues paid in June 2024		5,000.00	70,000.00
	General Journal	07/01/2024	2023-009		Hazen and Sawyer		5,000.00	75,000.00
Total 4110.02 · Regular Dues						0.00	75,000.00	75,000.00
4110.04 · Associate Dues								
	Invoice	07/01/2024	2024700	Avista Technologies, Inc.	2024-2025 Associate Dues July 1, 2024 - June 30, 2025	1,000.00	1,000.00	
	Invoice	07/01/2024	2024701	Black & Veatch	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	2,000.00	
	Invoice	07/01/2024	2024703	CDM Smith	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	3,000.00	
	Invoice	07/01/2024	2024705	Coachella Valley Water District	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	0.00	3,000.00	
	Invoice	07/01/2024	2024707	Helix Water District	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	4,000.00	
	Invoice	07/01/2024	2024709	Kimley-Horn	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	5,000.00	
	Invoice	07/01/2024	2024711	MBC Aquatic Sciences	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	6,000.00	
	Invoice	07/01/2024	2024714	Monterey Peninsula Water Management	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	7,000.00	
	Invoice	07/01/2024	2024715	Noria Water Technologies	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	0.00	7,000.00	
	Invoice	07/01/2024	2024721	Seawell LLC	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	8,000.00	
	Invoice	07/01/2024	2024722	Sweetwater Authority	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	9,000.00	
	Invoice	07/01/2024	2024724	Vallecitos Water District	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	10,000.00	

CALDESAL
Monthly Detail
July 2024

	Type	Date	Num	Name	Memo	Debit	Credit	Balance
	Invoice	07/01/2024	2024725	Waterise	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	11,000.00	
	Invoice	07/01/2024	2024733	Dudek	July 1, 2024 - June 30, 2025 Cal Desal Associate Dues	1,000.00	12,000.00	
	General Journal	07/01/2024	2023-008R		2024-2025 Dues paid in June 2024	4,000.00	16,000.00	
	General Journal	07/01/2024	2023-009		Brown and Caldwell	1,500.00	17,500.00	
Total 4110.04 · Associate Dues						0.00	17,500.00	17,500.00
Total 4110.00 · Membership Dues						0.00	92,500.00	92,500.00
Total 4100.00 · Program Income						0.00	92,500.00	92,500.00
4600.00 · Other Types of Income								
4605.00 · Interest Income								
	Deposit	07/31/2024			Interest		1.73	1.73
Total 4605.00 · Interest Income						0.00	1.73	1.73
Total 4600.00 · Other Types of Income						0.00	1.73	1.73
Total Income						0.00	92,501.73	92,501.73
Gross Profit						0.00	92,501.73	92,501.73
Expense								
6500.00 · Operating Expenses								
6510.00 · Bank/Credit Card Fees								
	General Journal	07/01/2024	2023-007		Intuit Transaction Fees (prepaid in June)	141.20		141.20
	Check	07/03/2024	EFT	Intuit Transaction fee		35.30		176.50
	Check	07/10/2024	EFT	Intuit Transaction fee		35.30		211.80
	Check	07/18/2024	EFT	Intuit Payment Solutions		35.30		247.10
	Check	07/19/2024	EFT	Intuit Transaction fee		175.30		422.40
	Check	07/22/2024			Service Charge	10.00		432.40
	Check	07/23/2024	EFT	Intuit Transaction fee		35.30		467.70
Total 6510.00 · Bank/Credit Card Fees						467.70	0.00	467.70
6533.00 · Administrative- Management Fees								
6533.10 · Management Contracted Fees								
	Bill	07/01/2024	20240169	Smith Moore and Associates	Monthly Admin Contract Expense	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	07/31/2024	1181	Glenn Farrel		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						13,961.10	0.00	13,961.10
Total Expense						13,961.10	0.00	13,961.10
Net Ordinary Income						13,961.10	92,501.73	78,540.63
Net Income						13,961.10	92,501.73	78,540.63



CalDesal Budget Performance Worksheet – July 31, 2024

Income

Item	Approved Annual Budget – 2024-25	1 Month Ended July 31, 2024	% of Budgeted Revenue
Membership Dues – Regular	145,000	75,000	52%
Membership Dues – Associate	25,000	17,500	70%
Annual Conference Registration	30,000	0	-
Annual Conference Sponsorships	15,000	0	-
Fall Virtual Program Registration	0	0	-
Webinar Income	0	0	-
Spring Mixer Sponsorship	7,000	0	-
Fall Mixer Sponsorship	8,000	0	-
Interest Income		2	
TOTAL Income	230,000	92,502	40%

Expenses

Item	Approved Annual Budget – 2024-25	1 Month Ended July 31, 2024	% of Budget Expended
Accounting/Audit/Tax	2,000	0	-
Bank/Credit Card Fees	3,000	468	16%
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	9,167	8%
Executive Director Expenses	0	0	-
Executive Director Travel	0	0	-
Management Fees	53,993	4,326	8%
Management Travel	2,000	0	-
Administrative Management Fees – Other	0		-
Management Expenses	0	0	-
Office Supplies and Expense	50	0	-
Postage/Delivery – Admin	50	0	-
Print/Copy – Admin	40	0	-
Storage	170	0	-
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	-
TOTAL Expenses	224,803	13,961	6%



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
 - **Scientific basis** for discharge approaches and technology
 - Improving timing and mechanisms for mitigation
 - Determination of “need” for desalination
- **Can seawater desalination remain a viable resource strategy for California, and if so, what needs to be done?**
- **Next steps and future discussions**

Commented [1]: I suggest we dull down the request for more science on this shearing issue and promote Eric's idea that those who choose the Water Board's preferred option get a pass on mitigation. We still need to preserve flexibility for project proponents on how to comply.

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.

CARLSBAD DESALINATION PLANT

State of the Ocean Report



A new scientific study found that California's strict ocean protection regulations are working and that the Claude "Bud" Lewis Carlsbad Desalination Plant offers an environmentally friendly supply in an era of increasing water scarcity. The findings highlighted how ocean waters near the plant remain healthy and minimally impacted.

The analysis focused on the Carlsbad Desalination Plant, which has produced up to 54 million gallons of drought-proof water per day for the greater San Diego region for nearly a decade.

"The most robust monitoring program of the area ever completed demonstrated the Carlsbad Desalination Plant is operating in compliance with all applicable regulations and permits in harmony with the coastal marine environment," said the study, prepared by Miller Marine Science & Consulting, Inc. of Aliso Viejo.

Plant Background

The Carlsbad Desalination Plant minimizes the San Diego region's vulnerability to statewide drought conditions. It is part of a \$1 billion project that includes the nation's largest, most technologically advanced and energy-efficient seawater desalination plant, a 10-mile large-diameter pipeline, and improvements to Water Authority facilities for distributing desalinated seawater throughout San Diego County.

The plant draws seawater from Agua Hedionda Lagoon, which is adjacent to the Pacific Ocean and also home to the Hubbs SeaWorld Research Institute's premier aquaculture facility for restoring California's white seabass population. The desal plant provides several environmental benefits by using cutting-edge technology to recapture energy from the desalination process, offsetting carbon emissions and developing extensive wetlands to enhance fish populations along the San Diego County coastline. The entire project was developed through a rigorous environmental permitting process, which required scientific assessments.

A new intake structure is under construction to meet strict state laws for environmental protection. Federal grant funds are being used to modify the initial intake and discharge operations, including construction of a new screening structure to further protect sea life.



Construction on the new intake structure began March 2023

CARLSBAD DESALINATION PLANT

State of the Ocean Report



Ocean Health Assessment

Ocean monitoring was ordered by the San Diego Regional Water Quality Control Board to determine what impact the desal plant was having on sediments and water quality, including any impacts on surfing, diving and shellfish.

The Miller Marine study started July 2019 and ran through fall 2023 (except during the early days of the COVID-19 pandemic). All monitoring was conducted while the desal plant was drawing water from the lagoon, discharging brine back to the ocean, and delivering potable water to the San Diego County Water Authority. Samples showed that the waters off the coast of Carlsbad are healthy in the monitoring areas,

and water quality has remained consistent with the regional patterns.

Occasionally, large harmful algal blooms negatively impacted the Carlsbad coastline, but the study found that desalination plant operation did not contribute to the blooms. In addition, the seabed environment offshore of Carlsbad was deemed healthy, with low levels of common pollutants (which were expected because they can derive from various sources in the ocean) and none creating a toxic environment. Communities of sediment-dwelling sea creatures in the area were as expected, indicating no effect of the desal discharge.

The State of the Ocean report concluded that:

1. The Carlsbad coastal marine environment continues to support its full suite of beneficial use.
2. The Carlsbad Desalination Plant's discharge is not disturbing the receiving water quality or environment outside the brine mixing zone.
3. The Carlsbad Desalination Plant is not discharging toxic substances to the detriment of the environment. The plant's operations result in an environmentally safe discharge to the marine environment in compliance with all regulations.



Read the
Full Report

