



# Technical Advisory Committee Meeting

February 8, 2022 • 1:30 p.m.

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**TECHNICAL ADVISORY COMMITTEE  
CHINO BASIN DESALTER AUTHORITY**

3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761

**February 8, 2022 • 1:30 p.m.**

**[Join Zoom Meeting](#)**

According to the directives from the California Department of Public Health and Executive Order N-08-21 issued by Governor Gavin Newsom, members of the public are invited to participate via video or teleconference:

Meeting URL: <https://us02web.zoom.us/j/87457108844?pwd=NWxySjFiTXVERXg4NzAyc0xMcU9kUT09>

Or Join by Telephone: (669) 900-6833 Meeting ID: 874 5710 8844 Passcode: 567390

**CALL TO ORDER**

**ROLL CALL**

**PUBLIC COMMENT**

*Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Committee on any matter, whether or not it appears on the agenda, are requested to submit their request to comment to the Executive Assistant no less than one hour prior to the start of the meeting at (909) 218-3230 or [ccosta@chinodesalter.org](mailto:ccosta@chinodesalter.org). Comments will be limited to five minutes per speaker.*

**ADDITIONS TO THE AGENDA**

*In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.*

- 1. MINUTES OF JANUARY 25, 2022 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**  
Report By: Chris Waggener/Inland Empire Utilities Agency
- 3. CHINO II / CRF OPERATIONS REPORT**  
Report By: Daniel Cardenas/Jurupa Community Services District
- 4. WATER DELIVERY REPORT**  
Report By: Thomas O'Neill, CDA General Manager/CEO
- 5. CHINO I GAC UPDATE**  
Report By: Cindy Miller, Hazen & Sawyer Program Manager
- 6. BOARD MEETING AGENDA ITEMS REVIEW**  
Report By: Thomas O'Neill, CDA General Manager/CEO
- 7. NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW**  
Report By: Thomas O'Neill, CDA General Manager/CEO

**ADJOURN**

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**Declaration of Posting**

I, Casey Costa, Executive Assistant to the Chino Basin Desalter Authority, hereby certify that a copy of this agenda has been posted at the Chino Basin Desalter Authority's main office, 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761 by February 4, 2022 at 1:30 p.m.

  
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Casey Costa, Executive Assistant



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 1**

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**CHINO BASIN DESALTER AUTHORITY  
TECHNICAL ADVISORY COMMITTEE**

**MINUTES**

**January 25, 2022 • 1:30 p.m.**

A meeting of the Chino Basin Desalter Authority Technical Advisory Committee was held via audio/teleconference. CDA General Manager O'Neill called the meeting to order at 1:30 p.m.

**Committee Members Present:**

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Dave Crosley, City of Chino  
Mark Wiley, City of Chino Hills  
Chis Bonadurer, City of Ontario  
Chris Waggener, Inland Empire Utilities Agency  
Ben Armel, Jurupa Community Services District  
Todd Minten, Santa Ana River Water Company  
John Lopez, Santa Ana River Water Company (Alternate)  
Derek Kawaii, Western Municipal Water District

**Others Present:**

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Thomas O'Neill, CDA General Manager/CEO  
Casey Costa, Executive Assistant  
Michael Chung, CDA CFO/Treasurer  
Jose Garcia, CDA Principal Accountant  
Daniel Cardenas, Jurupa Community Services District  
Cindy Miller, Hazen & Sawyer  
Kevin Sage, Integrated Resources Management/SB County Airports

**PUBLIC COMMENT** - There were no public comments.

**ADDITIONS TO THE AGENDA** – None

**AGENDA ITEMS**

<b>1.</b>	<b>MINUTES OF JANUARY 11, 2022 TECHNICAL ADVISORY COMMITTEE MEETING</b> Minutes were approved as submitted.
<b>2.</b>	<b>CHINO I OPERATIONS REPORT</b> Report By: Chris Waggener/Inland Empire Utilities Agency <ul style="list-style-type: none"><li>• Plant Production Average 11.51 MGD</li><li>• 1/3 – Chlorine generator washed onsite</li><li>• 1/4 – Cleaned underdrains on RO Train 5, started painting new softener brine lines and softener regen waste lines.</li><li>• 1/5 – Power blip at wells I-11, I-13, I-15. Deliveries lowered by 10% for 2 hours</li><li>• 1/6 – Air-vacs replaced on end user boosters #9 and 10</li><li>• 1/10 – Oil changed on RO Train #1 motor upper and lower bearings.</li><li>• 1/11 – Tree by flagpole removed, tree by end user meters trimmed, check flange gaskets replaced on softener regeneration strong brine dilution line.</li></ul>

	<ul style="list-style-type: none"> <li>• 1/14 – Brine feed pump #1 had low flow, hosed out pump and check valve, pump pumping to setpoint.</li> <li>• 1/17– Disinfecting RO CIP loop in preparation for RO Train Cleanings.</li> </ul>
3.	<p><b>CHINO II / CRF OPERATIONS REPORT</b> Report By: Daniel Cardenas/Jurupa Community Services District</p> <ul style="list-style-type: none"> <li>• Plant Production Average 21.5 MGD</li> <li>• 1/5/22 – Began flushing and sampling Well II-3 to place it back into operation</li> <li>• 1/7/22 – Made plant adjustments to reduce WMWD reduction of flow</li> <li>• 1/12/22 – Repaired chlorine leak on Pump # 1 feed</li> <li>• 1/13/22 – Made plant adjustments to restore WMWD flows</li> <li>• 1/14/22 – Worked with General Pump to replace a mechanical seal on RO # 4 Feed Pump</li> </ul> <p><b><u>CRF Update</u></b></p> <ul style="list-style-type: none"> <li>• 1/16/22 – Repaired discharge hose for Pellet Reactor # 1</li> <li>• 1/16/22 – Calibrated discharge solenoid for Pellet Reactor # 3</li> <li>• 1/17/22 – Replaced Pellet Reactor Caustic Feed Pump</li> <li>• 1/24/22 – CRF shut down for winter maintenance until March 7, 2022.</li> </ul>
4.	<p><b>CHINO AIRPORT PLUME PROJECT: AMENDMENT 2 TO HAZEN &amp; SAWYER’S AGREEMENT FOR DESIGN OF CHINO I DESALTER VOC TREATMENT FACILITY</b> Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to the Board to approve an amendment to the professional services agreement with Hazen and Sawyer for engineering design services in the not-to-exceed amount of \$95,264 and authorize the General Manager/CEO to finalize and execute the amendment, with authorizations up to a not-to-exceed total of \$1,350,000. Amendment 2 is requested to cover expenses for completion of the last step of the Policy Memo 97-005 report, and expenses for additional submittals and RFI’s. The additional amount is a shared cost between the County of San Bernadino (\$50,132), and CDA (\$45,132). There were no questions or comments and no objections to the item moving forward to the Finance Committee.</p>
5.	<p><b>CHINO I GAC UPDATE</b> Report By: Cindy Miller, Hazen &amp; Sawyer Program Manager</p> <ul style="list-style-type: none"> <li>• Pacific Hydrotech is onsite forming the path for the south GAC system for which the County is financially responsible for.</li> <li>• On track for construction completion of July 27, 2022.</li> <li>• The final step of the 97-005 permitting requirements are being finalized and will be submitted to DDW by the end of January 2022.</li> </ul>
6.	<p><b>BOARD MEETING AGENDA ITEMS REVIEW</b> Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed upcoming Board Items.</p>

7.	<b>NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW</b> Report By: Thomas O’Neill, CDA General Manager/CEO General Manager O’Neill reviewed upcoming TAC Items.
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There being no further business, the meeting was adjourned at 1:45 p.m.

Submitted by Casey Costa, CDA Executive Assistant



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 2**

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# Chino I Desalter Treatment Plant Operations

Summary of Activities  
January 19th, 2022 to January 31st, 2022

## Well Field

Well Name	VFD Speed	Original Design Rate (gpm)	Current Production Rate (gpm)	Percent of Production	Operational (Yes/No)	Production Rate (gpm)	Status (Idle/Run)	Current Operation (gpm)
****I-1	0%	600	0	0%	No	0	Idle	0
****I-2	0%	300	0	0%	No	0	Idle	0
****I-3	0%	600	0	0%	No	0	Idle	0
****I-4	0%	300	0	0%	No	0	Idle	0
I-5	90%	1,200	952	11%	Yes	952	Run	952
I-6	100%	350	368	4%	Yes	368	Run	368
*I-7	76%	1,200	194	2%	Yes	194	Run	194
I-8	58%	900	456	5%	Yes	456	Run	456
I-9	96%	1,200	1,070	12%	Yes	1,070	Run	1,070
I-10	72%	1,200	855	10%	Yes	855	Run	855
I-11	100%	1,200	1,134	13%	Yes	1,134	Run	1,134
*I-13	75%	2,000	950	11%	Yes	950	Run	950
****I-14	0%	2,200	0	0%	No	0	Idle	0
I-15	93%	2,000	1,992	23%	Yes	1,992	Run	1,992
I-16	100%	250	192	2%	Yes	192	Run	192
****I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	403	5%	Yes	403	Run	403
I-21	100%	400	233	3%	Yes	233	Run	233
gpm	Total	16,500	8,799	100%	100%	8,799	100%	8,799
MGD		23.76	12.67			12.67		12.67

## Primary RO Treatment

Train	Recovery Rate	Production (gpm)	Production (MGD)
1	79.0%	1,083	1.56
2	79.0%	1,083	1.56
3	79.0%	1,083	1.56
4	79.0%	1,083	1.56
5	79.0%	1,083	1.56
		5,415	7.80

## Ion Exchange Treatment

Train	(gpm)	(MGD)
1	407	0.59
2	407	0.59
3	407	0.59
4	407	0.59
	1,628	2.34

## VOC Bypass

Production (gpm)	Production (MGD)
0	0.00

## Brine Flow

Production (gpm)	Production (MGD)
1,465	2.11

## Summary of Activities

1/20- Cathode and Anodes cleaned on onsite Chlorine Generator. Brine feed pump #1 pump disassembled, cleaned and reassembled to achieve setpoint flow.

1/21- Chlorinating CIP system in preparation for RO trains 1-5 CIP's. Breif power blip at plant and wells I-8, I-9, and I-10.

1/24- Quarterly plant and well PFAS samples collected. Lowered production due to SARI flow transfer to Chino II. High pH CIP started on RO Train #5 1st stage.

1/25- Well I-8 packing replaced. High pH CIP started on RO Train #5 2nd stage.

1/26- High pH CIP on RO Train #5 completed, placed back online. Decarbonator Towers #1&#2 main and pre-filters changed out.

1/27- Water Softener Booster #1 LOTO'd, pump and base removed, new base framing installed. High pH CIP started on RO Train #1 1st stage.

1/28- Water Softener Booster #1 base poured. EQ Basin cleaned out. High pH CIP started on RO Train #1 2nd stage.

1/29- High pH CIP finished on RO Train #1, prepping for low pH CIP of RO Train #1. CIP Loop flushed out.

1/30- Low pH CIP of RO Train #1 1st stage started

1/31- Low pH CIP of RO Train #1 2nd stage started.

## Plant Efficiency

	Flow in (gpm)	Flow Out (MGD)
Wells	8,799	12.67
Brine	-1465	-2.11
	7,334	10.56

## Plant Production

	All Treatment Trains (gpm)	(MGD)
Primary RO	5,415	7.80
Ion Exchange	1,628	2.34
Raw Bypass	0	0.00
	7,043	10.14

\* Air Problem

\*\* Sand Problem

\*\*\*Cooling Problem

\*\*\*\*Out of Service





# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 3**

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**Chino II Desalter  
Treatment Plant Operations**

Summary of Activities  
January 19, 2022 to February 1, 2022

**Well Field**

Well Name	VFD Speed	Original Design Rate (gpm)	Current Production Rate (gpm)	Percent of Production	Operational (Yes/No)	Production Rate (gpm)	Status (Idle/Run)	Current Operation (gpm)
II-1	100%	2,000	1,396	7%	Yes	1,500	Run	1,541
II-2	Fixed	2,000	1,435	8%	Yes	1,750	Run	1,481
II-3	Fixed	2,000	1,500	8%	Yes	2,000	Idle	0
II-4	100%	2,000	1,576	8%	Yes	1,700	Run	1,586
II-6	100%	2,000	1,460	8%	Yes	1,500	Run	1,462
II-7	100%	1,200	829	4%	Yes	1,000	Run	840
II-8	Fixed	1,500	1,045	5%	No	1,200	Idle	0
II-9	Fixed	2,000	1,575	8%	Yes	1,750	Idle	0
II-10	97%	3,700	3,260	17%	Yes	3,200	Run	2,385
II-11	97%	3,300	3,001	16%	Yes	3,200	Run	2,273
II-12	85%	2,000	2,000	10%	yes	1,600	Run	1,577
gpm	Total	23,700	19,077	100%	107%	20,400	69%	13,145
MGD		34.13	27.47			29.38		18.93

**Primary RO Treatment**

Train	Recovery Rate	Production (gpm)	(MGD)
1	83.5%	1,100	1.58
2	83.5%	1,100	1.58
3	83.5%	1,100	1.58
4	83.5%	0	0.00
5	83.5%	2,250	3.24
		5,550	7.99

**Ion Exchange Treatment**

NRV			NRV		
	(gpm)	(MGD)		(gpm)	(MGD)
1	658	0.95	5	660	0.95
2	662	0.95	6	657	0.95
3	650	0.94	7	0	0.00
4	0	0.00	8	661	0.95
				3,948	5.69

**Raw Bypass**

Production (gpm)	(MGD)
2,573	3.71

**Brine Flow**

Production (gpm)	(MGD)
1,120	1.61

**Secondary RO Treatment**

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	0	0.00
2	70.0%	0	0.00
3	70.0%	0	0.00
		0	0.00

**Plant Efficiency**

Flow in Vs. Flow Out (gpm) (MGD)		
Wells	13,145	18.93
Brine	-1120	-1.61
	12,025	17.32
	91.5%	

**Plant Production**

All Treatment Trains (gpm) (MGD)		
Primary RO	5,550	7.99
Ion Exchange	3,948	5.69
Raw Bypass	2,573	3.71
Secondary RO	0	0.00
	12,071	17.4

**Summary of Activities**

- \* Daily Plant Rounds/Weekly Samples
- \* Weekly Calibrations
- \* 1/20/22 Well II - 3 - Began troubleshooting issues with soft start
- \* 1/24/22 Chino II - Plant Adjusted for CRF Shut Down.
- \* 1/26/22 Chino II - Aqua Sierra on-site to repair leaks on Chlorine Generation System
- \* 1/26/22 Chino II - Replaced Soft Water Booster Pump for Chlorine Generator
- \* 1/24/22 CRF - Shut Down and Began Dewatering Process
- \* 1/25/22 CRF - Removed All Pellet Reactor Effluent Valves and Piping for Acid Circulation
- \* 1/31/22 - 2/1/22 - CRF - Worked with TE Roberts Inc to begin cleaning out all Reactors and Gravity Thickener # 1



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 4**

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## FY 2021/22 CDA (Chino I and Chino II) Water Deliveries (Draft)

Month	Chino	Chino Hills	JCSD	Norco	Ontario	SARWC	Western MWD	Total
Jul-21	468.277	392.249	1,099.665	93.028	774.910	111.395	328.058	<b>3,267.582</b>
Aug-21	435.578	362.918	1,006.008	86.648	749.330	104.004	306.291	<b>3,050.777</b>
Sep-21	445.261	369.010	1,010.849	90.256	785.650	106.231	308.850	<b>3,116.107</b>
Oct-21	451.102	377.695	1,083.275	95.961	809.200	110.983	327.287	<b>3,255.503</b>
Nov-21	434.756	364.486	1,029.274	92.714	777.850	106.500	318.430	<b>3,124.010</b>
Dec-21	390.214	307.134	993.505	90.656	776.663	100.000	265.524	<b>2,923.696</b>
Jan-22	429.756	363.519	984.728	88.912	751.486	100.740	235.905	<b>2,955.046</b>
Feb-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
Mar-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
Apr-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
May-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
Jun-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
<b>Total FY 21/22 Deliveries</b>	<b>3,054.944</b>	<b>2,537.011</b>	<b>7,207.304</b>	<b>638.175</b>	<b>5,425.089</b>	<b>739.853</b>	<b>2,090.345</b>	<b>21,692.721</b>
<b>Contract Entitlement</b>								
Annual (AF/YR)	5,000.0	4,200.0	11,733.0	1,000.0	8,533.0	1,200.0	3,534.0	35,200
Monthly (AF)	416.7	350.0	977.8	83.3	711.1	100.0	294.5	2,933.3
Delivered through January 2022 (AF)	<b>3,054.9</b>	<b>2,537.0</b>	<b>7,207.3</b>	<b>638.2</b>	<b>5,425.1</b>	<b>739.9</b>	<b>2,090.3</b>	<b>21,692.7</b>
	<b>104.7%</b>	<b>103.6%</b>	<b>105.3%</b>	<b>109.4%</b>	<b>109.0%</b>	<b>105.7%</b>	<b>101.4%</b>	<b>105.6%</b>

**Notes:**

1. Actual deliveries to date are shaded.

**Water Deliveries Through**

**Jan-22**

Submitted By:

Tom O'Neill, General Manager/CEO

Date

Approved By:

CDA Technical Advisory Committee

Approved On:



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 6**

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***Chino Basin Desalter Authority***  
**Board Meeting Agenda Items**

<b>March 3, 2022 Board Meeting (Special)</b>		<b>TAC</b>	<b>Finance</b>
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-

<b>April 7, 2022 Board Meeting (Regular)</b>		<b>TAC</b>	<b>Finance</b>
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-
Reserve Policy	Chung/CDA	3/8/2022	2/24/2022
Reconciliation of the Allocation of Costs	Chung/CDA	2/22/2022	3/24/2022
Distribution of Excess Reserves	Chung/CDA	3/8/2022	3/24/2022
Quarterly Financial Reports	Chung/CDA	3/8/2022	3/24/2022
Quarterly Operations Report/Presentation	O'Neill/CDA	-	-



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 7**

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# *Chino Basin Desalter Authority*

## TAC Meeting Agenda Items

<b>February 22, 2022</b>
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Reconciliation of the Allocation of Costs
Chino I GAC Update

<b>March 8, 2022</b>
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Reserve Policy
Distribution of Excess Reserves