



Technical Advisory Committee Meeting

March 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

March 8, 2022 • 1:30 p.m.

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:

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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. 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.

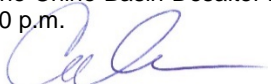
- 1. MINUTES OF FEBRUARY 22, 2022 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**
Report By: Chris Waggener/Inland Empire Utilities Agency
- 3. CHINO II / CRF OPERATIONS REPORT**
Report By: Daniel Cardenas/Jurupa Community Services District
- 4. WATER DELIVERIES**
Report By: Thomas 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

Any person with a disability who requires accommodations in order to participate in this meeting or for package materials in an alternative format should telephone Executive Assistant C. at (909) 218-3730, at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation. Copies of records provided to Board Members which relate to any agenda item to be discussed in open session may be obtained from Chino Basin Desalter Authority at 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761

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 March 4, 2022 at 1:30 p.m.



Casey Costa, Executive Assistant



Technical Advisory Committee Meeting

Agenda Item

No. 1

**CHINO BASIN DESALTER AUTHORITY
TECHNICAL ADVISORY COMMITTEE**

MINUTES

February 22, 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:

Mark Wiley, City of Chino Hills
Chis Bonadurer, City of Ontario
Todd Minten, Santa Ana River Water Company
John Lopez, Santa Ana River Water Company (Alternate)
Derek Kawaii, Western Municipal Water District

Others Present:

Thomas O’Neill, CDA General Manager/CEO
Casey Costa, Executive Assistant
Michael Chung, CDA CFO/Treasurer
Jose Garcia, CDA Principal Accountant
Pete Vicario, City of Chino
Natalie Avila, City of Chino
Kyle Jones, Inland Empire Utilities Agency
Bryan Smith, Jurupa Community Services District
Daniel Cardenas, Jurupa Community Services District
Frank Saucedo, Western Municipal Water District
Cindy Miller, Hazen & Sawyer
Bob Bowcock, Integrated Resources Management/SB County Airports

PUBLIC COMMENT - There were no public comments.

ADDITIONS TO THE AGENDA – None

AGENDA ITEMS

1.	MINUTES OF FEBRUARY 8, 2022 TECHNICAL ADVISORY COMMITTEE MEETING Minutes were approved as submitted.
2.	CHINO I OPERATIONS REPORT Report By: Kyle Jones/Inland Empire Utilities Agency <ul style="list-style-type: none">• Plant Production Average 9.14 MGD• 2/1- RO Train #1 low pH CIP finished, RO Train #1 placed online and RO Train #2 placed offline.• 2/2- RO Train #2 1st stage high pH CIP started.

	<ul style="list-style-type: none"> • 2/3- RO Train #2 2nd stage high pH CIP started. New sample faucets installation started for RO Trains #1-4 concentrate sample lines. • 2/4- RO Train #2 1st stage low pH CIP started. • 2/5- RO Train #2 2nd stage low pH CIP started. • 2/6- RO Train #2 low pH CIP finished. Train #2 placed online and Train #3 placed offline. • 2/7-RO Train #3 placed online, RO Train #4 taken offline. Minor leaks on Victalisc couplings repaired on RO Train #4. • 2/8- Finished repairs of Victauliscs on RO Train #4. • 2/9- SARI Flow meter Calibrated • 2/10- New sample faucet installations complete for RO Trains 1-4 concentrate sample lines. • 2/11- Removal of Brine transfer pump #1 and pad. Poured new pad for new Brine Transfer pump. • 2/14- Brine Transfer pump #1 installation began.
<p>3.</p>	<p>CHINO II / CRF OPERATIONS REPORT Report By: Daniel Cardenas/Jurupa Community Services District</p> <ul style="list-style-type: none"> • Plant Production Average 17.4 MGD • 2/7/22 Replaced Leaking Y-Strainer Housing at CL2 Pump Inlet • 2/13/22 Fixed CL2 Leaks on Tank # 1 Effluent Line <p><u>CRF Update</u></p> <ul style="list-style-type: none"> • 2/2//22 - 2/15/22 Ran Acid Circulation Through Pellet Reactors and Clarifier Influent Lines to Remove Calcium • 2/7/22 Replaced Sheer Pins and Bearings on All Sludge Hopper Gates • 2/14/22 Repaired PVC Leaks for Permeate Flush Line in the Lime Room • 2/15/22 Began Rebuilding Permeate Flush Manifold at Clarifier Blow Down Station
<p>4.</p>	<p>RECONCILIATION OF THE ALLOCATION OF COSTS Report By: Jose Garcia, CDA Principal Accountant</p>
<p>5.</p>	<p>ANALYSIS OF RESERVE Report By: Jose Garcia, CDA Principal Accountant</p>
<p>6.</p>	<p>MWD LRP CONTRIBUTIONS Report By: Jose Garcia, CDA Principal Accountant</p> <p>Principal Accountant Garcia reviewed Items 4 through 6, commenting that these items are informational, as the Finance Committee will discuss disbursement and potential retention of a portion of these funds to facilitate future obligations. The reconciliation of costs resulted in an overage of \$3,173,907, the reserve analysis resulted in an overage of \$1,199,735 and the projected LRP contributions total \$3,551,670.</p>

7.	<p>CHINO II WELL FIELD EVALUATION DISCUSSION Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed well field capacity utilization, which is currently 78%, with a target of approximately 70%. He reviewed well field water levels, noting drawdown in 2009/2010 with relative consistency since that time. He reviewed well production and amount lost over time, well settings and water levels, pumping levels and concerns regarding submergence. He reviewed historic static water levels, pumping levels, specific capacity, pump settings and rehab history for each well. Discussion ensued about scheduling of well rehabs, and acquisition of additional supply.</p>
8.	<p>CHINO I GAC UPDATE Report By: Cindy Miller, Hazen & Sawyer Program Manager</p> <ul style="list-style-type: none"> • Pacific Hydrotech is onsite working on the foundation for the GAC pads and prefabricated storage building. • First set of vessels are expected to be received first week of March. • Hazen is reviewing the final piece of the 97-005 permitting submittal.
9.	<p>BOARD MEETING AGENDA ITEMS REVIEW Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed upcoming Board Items.</p>
10.	<p>NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW Report By: Thomas O’Neill, CDA General Manager/CEO</p>

There being no further business, the meeting was adjourned at 2:10 p.m.

Submitted by Casey Costa, CDA Executive Assistant



Technical Advisory Committee Meeting

Agenda Item

No. 2



Chino I Desalter Treatment Plant Operations

Summary of Activities

February 15th, 2022 to March 2nd, 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	87%	1,200	853	11%	Yes	853	Run	853
I-6	100%	350	365	5%	Yes	365	Run	365
*I-7	76%	1,200	183	2%	Yes	183	Run	183
I-8	86%	900	573	7%	Yes	573	Run	573
I-9	97%	1,200	1,095	14%	Yes	1,095	Run	1,095
I-10	6%	1,200	33	0%	Yes	33	Run	33
I-11	100%	1,200	1,117	14%	Yes	1,117	Run	1,117
*I-13	74%	2,000	867	11%	Yes	867	Run	867
****I-14	0%	2,200	0	0%	No	0	Idle	0
I-15	90%	2,000	1,906	24%	Yes	1,906	Run	1,906
I-16	100%	250	174	2%	Yes	174	Run	174
****I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	397	5%	Yes	397	Run	397
I-21	100%	400	230	3%	Yes	230	Run	230
gpm	Total	16,500	7,793	100%	100%	7,793	100%	7,793
MGD		23.76	11.22			11.22		11.22

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	990	1.43
2	79.0%	990	1.43
3	79.0%	990	1.43
4	79.0%	990	1.43
5	76.0%	990	1.43
		4,950	7.13

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	338	0.49
2	338	0.49
3	338	0.49
4	338	0.49
	1,352	1.95

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,347	1.94

Summary of Activities

2/15- RO Train #3 offline, began high pH CIP on 1st stage. SARI sample pump replaced, Brine Transfer pump #1 placed on new pump pad.

2/16- Began RO Train #3 high pH CIP on 2nd stage

2/17- Brine Transfer pump tested and placed back online. RO Train #3 high pH CIP finished. Softener Booster pump #2 placed offline and removal began.

2/18- Low pH CIP began on RO Train #3 1st stage.

2/19- Low pH CIP began on RO Train #3 2nd stage.

2/20- Low pH CIP on RO Train #3 finished. RO Train #3 placed on line and #4 offline.

2/21- High pH CIP on RO Train #4 1st stage started.

2/22- High pH CIP on RO Train #4 2nd stage started.

2/23- High pH CIP on RO Train #4 finished. Water Softener Booster pump #2 pad poured.

2/24- Power outage a Well I-11, no disruption to deliveries.

2/28- South GAC Vessels delivered and set in place.

3/1- RO Cartridge filters changed out on Vessels 1 and 2. Water Softener Booster #2 placed on pad and placed back in service.

3/2- RO Cartridge filters changed out on vessels 3,4,5. Brine Transfer pump #2 placed offline for demolition.

Plant Efficiency

	Flow in (gpm)	Flow Out (MGD)
Wells	7,793	11.22
Brine	-1347	-1.94
	6,446	9.28

Plant Production

	All Treatment Trains (gpm)	(MGD)
Primary RO	4,950	7.13
Ion Exchange	1,352	1.95
Raw Bypass	0	0.00
	6,302	9.07

* Air Problem

** Sand Problem

***Cooling Problem

****Out of Service



Technical Advisory Committee Meeting

Agenda Item

No. 3



**Chino II Desalter
Treatment Plant Operations**

Summary of Activities

February 16, 2022 to March 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	1,543
II-2	Fixed	2,000	1,435	8%	Yes	1,750	Run	1,488
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	1,580
II-6	100%	2,000	1,460	8%	Yes	1,500	Run	1,461
II-7	100%	1,200	829	4%	Yes	1,000	Run	872
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	2,378
II-11	97%	3,300	3,001	16%	Yes	3,200	Run	2,277
II-12	85%	2,000	2,000	10%	yes	1,600	Run	1,579
gpm	Total	23,700	19,077	100%	107%	20,400	69%	13,178
MGD		34.13	27.47			29.38		18.98

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	(gpm)	(MGD)	NRV	(gpm)	(MGD)
1	650	0.94	5	661	0.95
2	652	0.94	6	658	0.95
3	0	0.00	7	0	0.00
4	670	0.96	8	660	0.95
				3,951	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 (gpm)	Flow Out (MGD)
Wells	13,178	18.98
Brine	-1,120	-1.61
	12,058	17.36
		91.5%

Plant Production

All Treatment Trains	(gpm)	(MGD)
Primary RO	5,550	7.99
Ion Exchange	3,951	5.69
Raw Bypass	2,573	3.71
Secondary RO	0	0.00
	12,074	17.4

Summary of Activities

- * Daily Plant Rounds/Weekly Samples
- * Weekly Calibrations
- * 2/17/22 Chino II - Replaced and Cleaned Out Air Stripper Filters
- * 3/1/22 Chino II - High pH Clean In Place of Reverse Osmosis Train # 3
- * 2/16/22 - 3/1/22 CRF - Completed Acid Circulation throughout facility
- * 2/22/22 CRF - Completed Rebuilding Permeate Flush Manifold at Clarifier Blow Down Station
- * 2/24/22 CRF - Rebuilt Flushing Ring Manifolds in both Clarifiers
- * 3/1/22 CRF - Began Circulating CL2 for Plant Disinfection



Technical Advisory Committee Meeting

Agenda Item

No. 4

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	3,267.582
Aug-21	435.578	362.918	1,006.008	86.648	749.330	104.004	306.291	3,050.777
Sep-21	445.261	369.010	1,010.849	90.256	785.650	106.231	308.850	3,116.107
Oct-21	451.102	377.695	1,083.275	95.961	809.200	110.983	327.287	3,255.503
Nov-21	434.756	364.486	1,029.274	92.714	777.850	106.500	318.430	3,124.010
Dec-21	390.214	307.134	993.505	90.656	776.663	100.000	265.524	2,923.696
Jan-22	429.756	363.519	984.728	88.912	751.486	100.740	235.905	2,955.046
Feb-22	299.627	250.960	787.496	66.100	572.432	77.615	222.490	2,276.720
Mar-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total FY 21/22 Deliveries	3,354.571	2,787.971	7,994.800	704.275	5,997.521	817.468	2,312.835	23,969.441
Contract Entitlement								
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 February 2022 (AF)	3,354.6	2,788.0	7,994.8	704.3	5,997.5	817.5	2,312.8	23,969.4
	100.6%	99.6%	102.2%	105.6%	105.4%	102.2%	98.2%	102.1%

Notes:

1. Actual deliveries to date are shaded.

Water Deliveries Through

Feb-22

Submitted By:

Tom O'Neill, General Manager/CEO

Date

Approved By:

CDA Technical Advisory Committee

Approved On:



Technical Advisory Committee Meeting

Agenda Item

No. 6

Chino Basin Desalter Authority
Board Meeting Agenda Items

April 7, 2022 Board Meeting (Regular)		TAC	Finance
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-
Contract Award Chino I RO Improvements/Chino I & II Cl2 Tank Replacement	O'Neill/CDA	3/22/2022	3/24/2022
Eurofin Contract Amendment	O'Neill/CDA	3/22/2022	3/24/2022
Reserve Policy	Chung/CDA	3/22/2022	3/24/2022
Reconciliation of the Allocation of Costs	Chung/CDA	2/22/2022	3/24/2022
Distribution of Excess Reserves	Chung/CDA	2/22/2022	3/24/2022
MWD LRP Contributions	Chung/CDA	2/22/2022	3/24/2022
Quarterly Financial Reports	Chung/CDA	-	3/24/2022
Quarterly Operations Report/Presentation	O'Neill/CDA	-	-

May 5, 2022 Board Meeting (Special)		TAC	Finance
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-



Technical Advisory Committee Meeting

Agenda Item

No. 7

Chino Basin Desalter Authority

TAC Meeting Agenda Items

March 22, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Contract Award Chino I RO Improvements/Chino I & II Cl2 Tank Replacement
Eurofin Contract Amendment
Reserve Policy
Chino I GAC Update

April 12, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Water Deliveries
Chino I GAC Update