



Technical Advisory Committee Meeting

August 9, 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

August 9, 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.

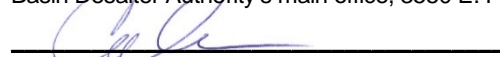
- 1. MINUTES OF JULY 12, 2022 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**
Report By: Chris Waggener/Inland Empire Utilities Agency
- 3. CHINO II / CRF OPERATIONS REPORT**
Report By: Daniel Cardenas/Jurupa Community Services District
- 4. WATER DELIVERIES**
Report By: Thomas 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 Chino Basin Desalter Authority's main office, 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761 by August 5, 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

July 12, 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:

Chris Waggener, Inland Empire Utilities Agency
Mark Wiley, City of Chino Hills
Chris Bonadurer, City of Ontario
John Lopez, Santa Ana River Water Company

Others Present:

Thomas O'Neill, CDA General Manager/CEO
Jose Garcia, CDA Principal Accountant
Michael Chung, CDA CFO/Treasurer
Dave Crosley, City of Chino
Pete Vicario, City of Chino
Matt Abel, Jurupa Community Services District
Daniel Cardenas, Jurupa Community Services District
Cindy Miller, Hazen and Sawyer
Kevin Sage, Integrated Resources Management/SB County Airports

PUBLIC COMMENT - There were no public comments.

ADDITIONS TO THE AGENDA – There were no additions to the agenda.

AGENDA ITEMS

1.	MINUTES OF JUNE 28, 2022 TECHNICAL ADVISORY COMMITTEE MEETING Minutes were approved as submitted.
2.	CHINO I OPERATIONS REPORT Report By: Chris Waggener/Inland Empire Utilities Agency <ul style="list-style-type: none">• Plant Production Average 10.88 MGD• 6/27- High pH CIP of RO Train #1 first stage started, contractor at well I-16 making repairs to well pump.• 6/28- High pH CIP of RO Train #1 second stage started, contractor at well I-16 finished repairs. Well I-16 running to waste and Bacti sample collected.• 6/29- Chino I's RO system Dashboard training held at Chino I. System is live and running. Low pH CIP of RO Train #1 first stage began. Well I-16 back in service• 6/30- RO Train #1 placed online and RO Train #4 first stage high pH CIP started.• 7/1- RO Train #4 back online and RO Train #5 first stage high pH CIP started.• 7/2- RO Train #5 back in service, RO Train #2 first stage high pH CIP started.• 7/3- RO Train #2 back in service, RO Train #3 first stage high pH CIP started.

3.	<p>CHINO II / CRF OPERATIONS REPORT Report By: Daniel Cardenas/Jurupa Community Services District</p> <p><u>Chino II</u></p> <ul style="list-style-type: none"> • Plant Production Average 22.3 MGD • 6/22/22 Chino II / CRF shut down short-term after a lightning storm created power failures • 6/23/22 Replaced gaskets on IX Air Blower feed lines. • 6/23/22 Replaced Permeate Flow Gauge for RO # 2 (Stage 1) • 6/30/22 Completed quarterly change out of Ion Exchange bag filters • 6/22/22 -7/5/22 Continued annual oil changes in well field <p><u>CRF</u></p> <ul style="list-style-type: none"> • 6/22/22 CRF Repaired leaks on Pellet Reactor dilution water feed for caustic
4.	<p>WATER DELIVERIES Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reported water deliveries at 103% of entitlements as of the end of Fiscal Year 2021/22.</p>
5.	<p>CHINO I GAC UPDATE Report By: Alex Rahimian-Pour, Hazen and Sawyer</p> <ul style="list-style-type: none"> • Anticipated construction completion date is in September 2022. • DDW comments for 97-005 permitting are expected shortly. Field visit with DDW scheduled next week.
6.	<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>
7.	<p>NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed upcoming TAC Items</p>

There being no further business, the meeting was adjourned at 1:46 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

July 4th, 2022 to July 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	84%	1,200	903	9%	Yes	903	Run	903
I-6	94%	350	346	3%	Yes	346	Run	346
*I-7	69%	1,200	184	2%	Yes	184	Run	184
I-8	60%	900	458	5%	Yes	458	Run	458
I-9	91%	1,200	863	9%	Yes	863	Run	863
I-10	92%	1,200	1,010	10%	Yes	1,010	Run	1,010
I-11	99%	1,200	1,031	10%	Yes	1,031	Run	1,031
*I-13	73%	2,000	950	9%	Yes	950	Run	950
I-14	89%	2,200	2,041	20%	Yes	2,041	Run	2,041
I-15	86%	2,000	1,556	15%	Yes	1,556	Run	1,556
I-16	82%	250	118	1%	Yes	118	Run	118
****I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	383	4%	Yes	383	Run	383
I-21	100%	400	225	2%	Yes	225	Run	225
gpm	Total	16,500	10,068	100%	100%	10,068	100%	10,068
MGD		23.76	14.50			14.50		14.50

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,221	1.76
2	79.0%	1,221	1.76
3	79.0%	1,221	1.76
4	79.0%	1,221	1.76
5	79.0%	1,221	1.76
		6,105	8.79

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	491	0.71
2	491	0.71
3	491	0.71
4	491	0.71
	1,964	2.83

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,618	2.33

Summary of Activities

7/4- Train #3 1st stage high pH CIP finished. End user flows restored to allocations. Well I-11 intermittently shutting down. Well I-11 placed offline to troubleshoot.

7/5- New allocations to End Users. Isolated and dewatered 16" raw line to wells I-16 and I-17 for tie-in.

7/6- Shut down JCSD to install new isolation valve. Tested Chino isolation valve on Euclid Ave. to get a good shutdown with success.

7/7- Shut down Chino and Chino Hills to replace isolation valves. Isolation valves replaced. MCC A/C at well I-15 failed, well I-15 placed offline.

7/8- Tie-in to wells I-16 and I-17 to south GAC complete. Flushed line back to well I-16 and sampled Bacti. Well I-15 A/C recharged and waiting on quote for A/C replacement

7/13- Plant shutdown due to scheduled Edison outage to repair supply line at Edison power pole. Oil changed on all 5 RO motors. IX waste line resin trap installed, South GAC pressure relief valve installed.

7/14- Well I-15 radio antenna and coaxial cable replaced. Communications restored to well I-15.

7/16- Started assembling storage shelving in new storage facility.

7/17- Well I-7 MCC room A/C failed. Well I-7 placed offline until A/C repaired.

7/18- DDW engineers met at plant to view progress of North and South GAC plants. IX air blocker

Plant Efficiency

Flow in Vs. Flow Out	(gpm)	(MGD)
Wells	10,068	14.50
Brine	-1618	-2.33
	8,450	12.17

Plant Production

All Treatment Trains	(gpm)	(MGD)
Primary RO	6,105	8.79
Ion Exchange	1,964	2.83
Raw Bystage	0	0.00
	8,069	11.62

* Air Problem

** Sand Problem

***Cooling Problem

****Out of Service

check valves replaced (7).

7/19- Quarterly PFAS samples collected.

7/20- Leak on coupling at cross just North of the South GAC system repaired. Well I-9 PLC UPS failed, staff replaced UPS and well running with no issues.

7/21- Leak repaired on Chino product line (Welded patch just afer meter isolation valve).



Technical Advisory Committee Meeting

Agenda Item

No. 3



Chino II Desalter Treatment Plant Operations

Summary of Activities

July 6, 2022 - August 5, 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	1,547	8%	Yes	1,500	Run	1,527
II-2	Fixed	2,000	1,522	8%	Yes	1,750	Run	1,358
II-3	Fixed	2,000	1,801	10%	Yes	2,000	Run	1,800
II-4	100%	2,000	1,576	8%	No	1,700	Idle	1,610
II-6	100%	2,000	1,372	7%	Yes	1,500	Run	1,300
II-7	100%	1,200	791	4%	Yes	1,000	Run	875
II-8	Fixed	1,500	1,045	6%	No	1,200	Idle	0
II-9	Fixed	2,000	1,562	8%	Yes	1,750	Run	1,450
II-10	97%	3,700	2,822	15%	Yes	3,200	Run	2,429
II-11	97%	3,300	2,833	15%	Yes	3,200	Run	2,680
II-12	85%	2,000	1,883	10%	Yes	1,600	Run	1,850
gpm	Total	23,700	18,754	100%	109%	20,400	90%	16,879
MGD		34.13	27.01			29.38		24.31

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	83.5%	1,390	2.00
2	83.5%	1,390	2.00
3	83.5%	1,390	2.00
4	83.5%	2,250	3.24
5	83.5%	2,250	3.24
		8,670	12.48

Ion Exchange Treatment

NRV			NRV		
	(gpm)	(MGD)		(gpm)	(MGD)
1	0	0.00	5	820	1.18
2	810	1.17	6	800	1.15
3	815	1.17	7	0	0.00
4	800	1.15	8	0	0.00
				4,045	5.82

Raw Bypass

Production	
(gpm)	(MGD)
2,956	4.26

Brine Flow

Production	
(gpm)	(MGD)
635	0.91

Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	485	0.70
2	70.0%	485	0.70
3	70.0%	0	0.00
		970	1.40

Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	16,879	24.31
Brine	-635	-0.91
	16,244	23.39
	96.2%	

Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	8,670	12.48
Ion Exchange	4,045	5.82
Raw Bypass	2,956	4.26
Secondary RO	970	1.40
	16,641	24.0

Summary of Activities

- * Daily Plant Rounds/Weekly Samples
- * Weekly Calibrations
- * 7/7/22 Chino II - Continue semi-annual oil changes in well field
- * 7/7/22 CRF - Mechanical Team removed screw from Centrifuge 1 for repair
- * 7/11/22 ChinoII Semi-Annual oil changes continued at plant - PWPS and Trains
- * 7/14/22 Chino II - Annual tank cleaning: WST #2
- * 7/19/22 CRF - Lime Tank #1 clean out
- * 7/19/22 Chino II - Annual tank cleaning: RRT
- * 7/25/22 CRF - Gravity Thickener maintenance
- * 7/25/22 Chino II - II-4 back in service after completion of GP well rehab



Technical Advisory Committee Meeting

Agenda Item

No. 4

FY 2022/23 CDA (Chino I and Chino II) Water Deliveries (Draft)

Month	Chino	Chino Hills	JCSD	Norco	Ontario	SARWC	Western MWD	Total
Jul-22	449.730	377.051	1,079.790	97.174	796.743	110.306	324.851	3,235.645
Aug-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jan-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total FY 22/23 Deliveries	449.730	377.051	1,079.790	97.174	796.743	110.306	324.851	3,235.645
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 July 2022 (AF)	449.7	377.1	1,079.8	97.2	796.7	110.3	324.9	3,235.6
	107.9%	107.7%	110.4%	116.6%	112.0%	110.3%	110.3%	110.3%

Notes:

1. Actual deliveries to date are shaded.

Water Deliveries Through

Jul-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

September 1, 2022 Board Meeting (Special)		TAC	Finance
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-
CI Chemical Room Modifications	O'Neill/CDA	8/23/2022	8/25/2022
Carollo agreement to update Chino II Desalter O&M Manual	O'Neill/CDA	8/23/2022	8/25/2022

October 6, 2022 Board Meeting (Regular)			
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-
Quarterly Financial Reports	Garcia/CDA	-	8/25/2022
Quarterly Operations Presentation	O'Neill/CDA	-	-



Technical Advisory Committee Meeting

Agenda Item

No. 7

Chino Basin Desalter Authority

TAC Meeting Agenda Items

August 23, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
CI Chemical Room Modifications
Carollo agreement to update Chino II Desalter O&M Manual
Chino I GAC Update

September 13, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Water Deliveries
Chino I GAC Update