



Technical Advisory Committee Meeting

May 10, 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

May 10, 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.

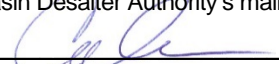
- 1. MINUTES OF APRIL 26, 2022 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**
Report By: Chris Waggener/Inland Empire Utilities Agency
- 3. CHINO II / CRF OPERATIONS REPORT**
Report By: Daniel Cardenas/Jurupa Community Services District
- 4. WATER DELIVERY REPORT**
Report By: 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

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 May 6, 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

April 26, 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 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, CDA Executive Assistant
Jose Garcia, CDA Principal Accountant
Pete Vicario, City of Chino
Courtney Jones, City of Ontario
Kyle Jones, Inland Empire Utilities Agency
Bryan Smith, Jurupa Community Services District
Daniel Cardenas, Jurupa Community Services District
Ben Armel, Jurupa Community Services 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 APRIL 12, 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 11.42 MGD• 4/7- End User room A/C blower motor single phased and went to ground tripping the main breaker which also cut power to our end user. PLC stopping deliveries from 08:00 to 09:10. A/C Blower motor repaired same day.• 4/11- Semiannual Inergen Fire system inspection performed.• 4/13- Well I-14 installation started.• 4/14- 1st half of North GAC pad poured• 4/15- Well I-14 installed, tested and running to waste.• 4/16- Bacti sample taken at well I-14 (Absent/Absent)

	<ul style="list-style-type: none"> • 4/18- Bacti sample taken at well I-14 (Absent/Absent) • 4/19- Well I-14 placed back online.
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 • 4/7/22 Acid Washed Ion Exchange Waste Tank Discharge Lines <p><u>CRF</u></p> <ul style="list-style-type: none"> • 4/12/22 Replaced Lime Pump Feed Lines • 4/17/22 Repaired Ruptured Hose on Pellet Reactor # 1 Discharge Line • 4/19/22 Replaced Ruptured Pinch Valve on Pellet Reactor # 3
4.	<p>AMENDMENT NO. 2 TO AGREEMENT WITH TE ROBERTS, INC. FOR ENVIRONMENTAL CLEANUP SERVICES AND SOLIDS HANDLING SUPPORT Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve an amendment in the with TE Roberts for Environmental Cleanup Services and Solids Handling Support om the not-to-exceed amount of \$100,000, to vacuum and dispose of pellets generated by the Concentrate Reduction Pellet Reactor during maintenance periods, for a new not-to-exceed contract total of \$200,000. Additional expenses were incurred due to the winter shutdown of the Concentrate Reduction Facility for preventative maintenance. Additionally, Denali Water Solutions, who CDA has contracted with to provide transportation and reuse or disposal of wastewater biosolids has been unable to provide those services reliably and TE Roberts has been assisting.</p>
5.	<p>BUDGET REVIEW FY 2022/23 Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the proposed 2022/23 Chino I and Chino II O&M budgets, with increases primarily due to chemicals costs and electricity. He reviewed the proposed CIP budget.</p>
6.	<p>RETENTION OF EXCESS REVENUE Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>Upon Finance Committee review of the reconciliation of costs for fiscal year 2020/21, Finance Committee members recommended that CDA retain \$1,173,807 of the surplus. He reviewed that the surplus revenue resulting from the reconciliation totaled \$3,173,907. The Board approved the retention of \$2,000,000 of that to fund an additional reserve fund for Capital Construction/Expenditures, leaving a balance of \$1,173,807. The Finance Committee also recommended that CDA retain the MWD LRP subsidy of \$3,551,570 for future expenses. Pete Vicario/City of Chino recommended that the monies be distributed to the member agencies instead of being rolled over into next year’s budget.</p>
7.	<p>CHINO I GAC UPDATE</p>

	<p>Report By: Cindy Miller, Hazen & Sawyer Program Manager</p> <ul style="list-style-type: none"> • Anticipating north GAC system online by end of July 2022. • Pacific Hydrotech completed concrete placement for new storage building. They are continuing with installation of miscellaneous pipes for the south GAC system and are working on wood forms for the north GAC pad. • Final process memo was submitted for 97-005 permitting and we are awaiting the DDW's response. • General Manager O'Neill added that the application for Prop 1 grant funding resulted in notice that the GAC project has been included. The expense timeline that will be included is being discussed. Some additional Prop 68 grant funding is being sought for the operations and maintenance.
8.	<p>BOARD MEETING AGENDA ITEMS REVIEW Report By: Thomas O'Neill, CDA General Manager/CEO General Manager O'Neill reviewed upcoming Board Items.</p>
9.	<p>NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW Report By: Thomas O'Neill, CDA General Manager/CEO General Manager O'Neill reviewed upcoming TAC Items</p>

There being no further business, the meeting was adjourned at 2:04 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

April 20th, 2022 to May 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	8%	1,200	102	1%	Yes	102	Run	102
I-6	100%	350	356	4%	Yes	356	Run	356
*I-7	76%	1,200	177	2%	Yes	177	Run	177
I-8	7%	900	51	1%	Yes	51	Run	51
I-9	97%	1,200	1,113	11%	Yes	1,113	Run	1,113
I-10	98%	1,200	1,194	12%	Yes	1,194	Run	1,194
I-11	100%	1,200	1,115	11%	Yes	1,115	Run	1,115
*I-13	73%	2,000	932	9%	Yes	932	Run	932
I-14	86%	2,200	1,952	19%	Yes	1,952	Run	1,952
I-15	95%	2,000	2,285	23%	Yes	2,285	Run	2,285
I-16	100%	250	184	2%	Yes	184	Run	184
****I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	372	4%	Yes	372	Run	372
I-21	100%	400	228	2%	Yes	228	Run	228
gpm	Total	16,500	10,061	100%	100%	10,061	100%	10,061
MGD		23.76	14.49			14.49		14.49

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,244	1.79
2	79.0%	1,244	1.79
3	79.0%	1,244	1.79
4	79.0%	1,244	1.79
5	79.0%	1,244	1.79
		6,220	8.96

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	481	0.69
2	481	0.69
3	481	0.69
4	481	0.69
	1,924	2.77

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,639	2.36

Summary of Activities

4/20- Contractor hit 8" fire water main causing leak while excavating. Operators isolated line, contractor made repair and operations repressurized main.

4/24- End User Booster #6 placed offline due to high vibration and noise. Placed out of service. Pump and motor will be pulled for rehabilitation.

4/25- PFAS samples taken at well I-14.

4/26- Updated GHS signs on standby generators at wells I-1 through I-11.

4/27- Operators tested backup chlorine supply line. Test succesful, no leaks.

5/2- Resin Trap installed on NRV-4.

Plant Efficiency

	Flow in (gpm)	Flow Out (MGD)
Wells	10,061	14.49
Brine	-1639	-2.36
	8,422	12.13

Plant Production

	All Treatment Trains (gpm)	(MGD)
Primary RO	6,220	8.96
Ion Exchange	1,924	2.77
Raw Bypass	0	0.00
	8,144	11.73

* 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

April 20, 2022 to May 3, 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	1,533
II-2	Fixed	2,000	1,522	8%	Yes	1,750	Run	1,492
II-3	Fixed	2,000	1,801	10%	Yes	2,000	Run	1,824
II-4	100%	2,000	1,576	8%	No	1,700	Idle	0
II-6	100%	2,000	1,372	7%	Yes	1,500	Run	1,359
II-7	100%	1,200	791	4%	Yes	1,000	Run	880
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	1,517
II-10	97%	3,700	2,822	15%	Yes	3,200	Run	2,441
II-11	97%	3,300	2,833	15%	Yes	3,200	Run	2,795
II-12	85%	2,000	1,883	10%	Yes	1,600	Run	1,874
gpm	Total	23,700	18,754	100%	109%	20,400	84%	15,715
MGD		34.13	27.01			29.38		22.63

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	612	0.88	5	615	0.89
2	620	0.89	6	610	0.88
3	0	0.00	7	0	0.00
4	618	0.89	8	0	0.00
				3,075	4.43

Raw Bypass

Production	
(gpm)	(MGD)
2,802	4.03

Brine Flow

Production	
(gpm)	(MGD)
709	1.02

Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	470	0.68
2	70.0%	470	0.68
3	70.0%	0	0.00
		940	1.35

Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	15,715	22.63
Brine	-709	-1.02
	15,006	21.61
	95.5%	

Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	8,670	12.48
Ion Exchange	3,075	4.43
Raw Bypass	2,802	4.03
Secondary RO	940	1.35
	15,487	22.3

Summary of Activities

- * Daily Plant Rounds/Weekly Samples
- * Weekly Calibrations
- * 5/02/22 Chino II Well # 1 Temporarily Offline for an Oil Change
- * 4/25/22 Chino II Replaced Sulfuric Acid Pump # 2 / Rebuilt Older Pump
- * 4/27/22 CRF Replaced All Pellet Reactor Discharge Hoses
- * 4/29/22 CRF Replaced Second Stage Permeate Flow Meter for SRO # 3
- * 5/03/22 CRF Replaced Ruptured Pinch Valve for Clarifier Pump # 3 Discharge Line



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	438.888	369.163	1,059.890	91.522	791.512	106.163	256.989	3,114.127
Apr-22	448.288	377.269	986.594	91.751	795.389	104.818	270.548	3,074.657
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	4,241.747	3,534.403	10,041.284	887.548	7,584.422	1,028.449	2,840.372	30,158.225
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 April 2022 (AF)	4,241.7	3,534.4	10,041.3	887.5	7,584.4	1,028.4	2,840.4	30,158.2
	101.8%	101.0%	102.7%	106.5%	106.7%	102.8%	96.4%	102.8%

Notes:

- Actual deliveries to date are shaded.

Water Deliveries Through

Apr-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

May 12, 2022 Board Meeting (Special)		TAC	Finance
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-
TE Roberts Amendment	O'Neill/CDA	4/26/2022	4/28/2022
Budget Approval FY 2022/23	Chung/CDA	4/26/2022	4/28/2022
Retention of Excess Revenue (Information Item)	O'Neill/CDA	4/26/2022	4/28/2022

June 2, 2022 Board Meeting (Special)		TAC	Finance
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-
Contract Renewals Carollo - CRF Operations Support Hazen & Sawyer - On-Call Services Misc Engineering Support Aquasystec - CII SCADA Programming and Maintenance American Water Chemical - CIP Chemicals TE Roberts - Hydro-Vac Excavation and Solids Handling Eurofin - PFOA/PFOS Testing Supply of Granular Activated Carbon	O'Neill/CDA	5/10/2022	5/26/2022



Technical Advisory Committee Meeting

Agenda Item

No. 7

Chino Basin Desalter Authority

TAC Meeting Agenda Items

May 24, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
<u>Contract Renewals 2022/23</u> Carollo - CRF Operations Support Hazen & Sawyer - On-Call Services Misc Engineering Support Aquasystec - CII SCADA Programming and Maintenance American Water Chemical - CIP Chemicals TE Roberts - Hydro-Vac Excavation and Solids Handling Eurofin - PFOA/PFOS Testing Supply of Granular Activated Carbon
Chino I GAC Update

June 14, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Water Deliveries
Chino I GAC Update