



**CHINO BASIN
DESALTER
AUTHORITY**

Technical Advisory Committee Meeting

September 8, 2020 • 1:30 p.m.

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TECHNICAL ADVISORY COMMITTEE

CHINO BASIN DESALTER AUTHORITY

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

September 8, 2020 • 1:30 p.m.

All documents available for public review are on file with the Authority's secretary located at 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761

NOTICE AND AGENDA

According to the directives from the California Department of Public Health and Executive Order N-33-20 issued by Governor Gavin Newsom, members of the public are invited to participate via video or teleconference:

Video conference: Click on link: [Join Zoom Meeting](#)

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Teleconference: Dial-in #: [\(669\) 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. 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 AUGUST 25, 2020 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**
Report By: Ian Tillery/Inland Empire Utilities Agency
- 3. CHINO II OPERATIONS REPORT**
Report By: Aaron Anderson/Jurupa Community Services District
- 4. CHINO II CONCENTRATE REDUCTION FACILITY OPERATIONAL UPDATE**
Report By: Thomas O'Neill, CDA General Manager/CEO
- 5. WATER DELIVERIES**
Report By: Thomas O'Neill, CDA General Manager/CEO

6. SOUTH ARCHIBALD PLUME UPDATE

Report By: Cindy Miller, South Archibald Plume Program Manager

7. CHINO I GAC UPDATE

Report By: Cindy Miller, Hazen & Sawyer Program Manager

8. BOARD MEETING AGENDA ITEMS REVIEW

Report By: Thomas O'Neill, CDA General Manager/CEO

9. NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW

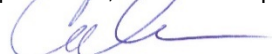
Report By: Thomas O'Neill, CDA General Manager/CEO

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 September 4, 2020 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

August 25, 2020

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:

Dave Crosley, City of Chino
Mark Wiley, City of Chino Hills
Chris Bonadurer, City of Ontario
Ian Tillery, Inland Empire Utilities Agency
Aaron Anderson, Jurupa Community Services District (Alternate)
Derek Kawaii, Western Municipal Water District (Alternate)

Others Present:

Thomas O'Neill, CDA General Manager/CEO
Casey Costa, CDA Executive Assistant
Jose Garcia, CDA Principal Accountant
Pete Vicario, City of Chino
Matt Abel, Jurupa Community Services District
John Lopez, Santa Ana River Water Company
Todd Minten, (on behalf of) Santa Ana River Water Company
Cindy Miller, Hazen & Sawyer
Bob Bowcock, Integrated Resources Management/SB County Airports
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 AUGUST 11, 2020 TECHNICAL ADVISORY COMMITTEE MEETING

Minutes were approved as submitted.

2. CHINO I OPERATIONS REPORT

Report By: Ian Tillery/Inland Empire Utilities Agency

- Plant Production: 12.05 MGD
- 8/4 Cross Connection Control Survey performed.
- 8/6 End user #2 (Chino Hills) mechanical seal leaking. General Pump pulled the unit for repair.
- 8/6 brine pump #2 replaced with new concrete pad poured.
- Quarterly Samples
- 8/14 Decarb Tower #2 bad wiring – temporary wiring solution in place, new wiring pulled next week.
- 8/16 IX system bag filter replacement

3. CHINO II OPERATIONS REPORT

Report By: Aaron Anderson/Jurupa Community Services District

- Plant Production: 19.8 MGD
- ACCO replaced AC unit and has been on site repairing various leaks
- Replaced cooling fan bearing for RO Train 5 after failure
- Troubleshooting sulfuric acid tank level indicators. Problem has been identified – waiting on parts

4. CHINO II CONCENTRATE REDUCTION FACILITY OPERATIONAL UPDATE

Report By: Thomas O'Neill, CDA General Manager/CEO

Matt Abel/JCSD reported. Higher flow rates were attempted about two weeks ago and there were problems with velocity through clarifier. Staff is preparing to increase velocity utilizing the second clarifier and another attempt will be made to increase flow as early as next week.

5. PHASE 3 EXPANSION PROJECT: CONSTRUCTION CONTRACT AWARD FOR EQUIPPING OF CDA WELL II-12 (SPEC NO. CDA EXP3-20-06)

Report By: Cindy Miller, Phase 3 Expansion Project Program Manager

Program Manager Miller reported that bids were opened on August 17th and 4 bids were received from Cora Constructors, Pacific Hydrotech, SCW Contracting and Canyon Springs Enterprises. One bid was deemed non-responsive for not complying with the good-faith effort requirements for DBE stipulated in the bid documents. Cora Constructors was the lowest bidder at a total bid price of \$2.8 Million, just under the Engineer's Estimate of \$2.84 Million. The Construction Manager, TRC, reviewed the bid for conformance with contract documents and Cora's bid was found to be responsive. IEUA staff reviewed bid documents for conformance with grant requirements and found Cora's bid documents to be in compliance with the good-faith effort requirements. There were no questions or comments and no objections to moving the item forward for Finance Committee review.

6. SOUTH ARCHIBALD PLUME PROJECT: AMENDMENT NO. 3 TO HAZEN AND SAWYER'S AGREEMENT FOR PROGRAM MANAGEMENT SERVICES

Report By: Thomas O'Neill, CDA General Manager/CEO

General Manager O'Neill reviewed the recommendation to approve an amendment to the Professional Services Agreement with Hazen and Sawyer for Program Management Services for the South Archibald Plume Project in the amount of \$246,352. He reported that the current schedule extends the completion of construction activities from October 2020 to March 2021. The extension is due to several factors including the relocation of wellsite II-12 according to developer and City of Ontario requirements, coordination with the SCE transmission project with a portion of the Phase II pipeline in Jurupa Valley and additional effort required by the Regional Water Quality Control Board to support the MRP and associated documents for additional analyses of number, locations and design criteria of monitoring wells and water quality monitoring. There were no questions or comments and no objections to moving the item forward for Finance Committee review.

7. SOUTH ARCHIBALD PLUME UPDATE

Report By: Cindy Miller, South Archibald Plume Project Program Manager

Phase 1 Pipeline – Complete

Phase 2 Pipeline – Easements have been finalized on both sides of I-15 Freeway to construct pipeline under the freeway. Notice to Proceed will be prepared for Gwinco to begin construction. Coordination continues with SCE and Jurupa Valley concerning pipeline alignment between Bellegrave and Cantu Galleano.

Phase 3 Pipeline – Contractor completed water and sewer facilities in Parkside Drive. Installation is underway to install pipeline to connect I-11 to VOC system and segment of pipeline under Remington bridge.

Well II-12 – Well has been constructed. Contractor has brought GAC vessels on site to treat the water before sending it to the sewer due to TCE levels. Once the GAC vessels have been located on the site, discharge will begin as early as next week.

Decarbonator Modifications – Project is in submittal phase. Changes were made to conduit routing and electrical equipment and Contractor is pricing out these changes.

Monitoring Wells – Geoscience preparing bid package. Locations of two outside monitoring wells are being determined. Will go out to bid after Labor Day.

8. CHINO I GAC UPDATE

Report By: Cindy Miller, South Archibald Plume Project Program Manager

- A review of the revised BODR was presented and submitted to DDW for review and we expect to receive a response from them by the end of next week.
- It is expected that the design will be completed by the end of 2020.
- Wildermuth Environmental has completed the 97-005 modeling and has delivered the capture zone maps. Data is being reviewed by sub-consultant for data gaps.
- DDW meeting is scheduled at the end of September.

9. BOARD MEETING AGENDA ITEMS REVIEW

Report By: Thomas O'Neill, CDA General Manager/CEO

General Manager O'Neill reviewed upcoming Board Items.

10. 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.

There being no further business, the meeting was adjourned at 2:02 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

August 21st to September 3rd, 2020

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%	Yes	0	Idle	0
I-5	98%	1,200	1,044	9%	Yes	1,044	Run	1,044
*I-6	0%	1,200	0	0%	Yes	0	Run	0
*I-7	81%	1,200	360	3%	Yes	360	Run	360
I-8	94%	900	869	8%	Yes	869	Run	869
I-9	95%	1,200	1,091	10%	Yes	1,091	Run	1,091
I-10	99%	1,200	1,222	11%	Yes	1,222	Run	1,222
I-11	99%	1,200	1,107	10%	Yes	1,107	Run	1,107
**I-13	78%	2,000	795	7%	Yes	795	Run	795
I-14	86%	2,200	1,516	13%	Yes	1,516	Run	1,516
****I-15	90%	2,000	1,852	16%	Yes	1,852	Run	1,852
I-16	100%	250	176	2%	Yes	176	Run	176
I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	380	3%	Yes	380	Run	380
I-21	100%	400	975	9%	Yes	975	Run	975
gpm	Total	17,350	11,387	100%	100%	11,387	100%	11,387
MGD		24.98	16.40			16.40		16.40

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,267	1.82
2	79.0%	1,267	1.82
3	79.0%	1,267	1.82
4	79.0%	1,267	1.82
5	79.0%	1,267	1.82
		6,335	9.12

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	521	0.75
2	521	0.75
3	521	0.75
4	521	0.75
	2,084	3.00

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,618	2.33

Summary of Activities

- 8/20 GPC pulled End User #2
- 8/24 Well I-6 pulled by GPC
- 8/25 Well I-18 pulled by GPC
- 8/28 Well I-15 level transducer replaced
- 8/31 Well I-21 flow meter replaced
- 9/1 Meter calibrations
- 9/2 Well I-2 VFD fans replaced

Plant Efficiency

Flow in Vs. Flow Out	(gpm)	(MGD)
Wells	11,387	16.40
Brine	-1618	-2.33
	9,769	14.07

Plant Production

All Treatment Trains	(gpm)	(MGD)
Primary RO	6,335	9.12
Ion Exchange	2,084	3.00
Raw Bypass	0	0.00
	8,419	12.12

- * 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
August 19, 2020 to September 2, 2020

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	1,606	11%	Yes	1,606	Run	1,900
II-2	Fixed	2,000	1,662	11%	Yes	1,662	Idle	0
II-3	Fixed	2,000	1,660	11%	Yes	1,660	Run	1,900
II-4	100%	2,000	1,656	11%	Yes	1,656	Run	1,800
II-6	100%	2,000	1,573	10%	Yes	1,573	Run	1,700
II-7	100%	1,200	876	6%	Yes	876	Run	1,100
II-8	Fixed	1,500	1,103	7%	Yes	1,103	Run	1,050
II-9	Fixed	2,000	1,678	11%	Yes	1,678	Run	1,800
II-10	100%	3,700	3,377	22%	Yes	3,377	Run	3,600
II-11	100%	3,300	0	0%	Yes	0	Idle	0
II-12								
gpm	Total	21,700	15,191	100%	100%	15,191	98%	14,850
MGD		31.25	21.88			21.88		21.38

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	83.5%	0	0.00
2	83.5%	1,390	2.00
3	83.5%	1,390	2.00
4	83.5%	2,050	3.00
5	83.5%	2,200	3.17
		7,030	10.12

Ion Exchange Treatment

NRV			NRV		
	(gpm)	(MGD)		(gpm)	(MGD)
1	750	1.08	5	760	1.09
2	0	0.00	6	765	1.10
3	760	1.09	7	835	1.20
4	775	1.12	8	0	0.00
				4,725	6.80

Raw Bypass

Production	
(gpm)	(MGD)
2,000	2.88

Brine Flow

Production	
(gpm)	(MGD)
440	0.63

Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	520	0.75
2	70.0%	0	0.00
3	70.0%	520	0.75
		1,040	1.50

Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	14,850	21.38
Brine	-440	-0.63
	14,410	20.75
		97.0%

Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	7,030	10.12
Ion Exchange	4,725	6.80
Raw Bypass	2,000	2.88
Secondary RO	1,040	1.50
	14,795	21.3

Summary of Activities

- Daily Plant Rounds/Weekly Samples
- Weekly Calibrations
- P&L/Gwinco onsite for Decarb project
- GP onsite for wells II-2 and II-11 reinstall - Well II-11 still troubleshooting
- Raw Water Flush for Well 12
- CIP SRO Train 3
- CRF operation flow increased on 9/2 - two clarifiers
- CIP SRO Train 2



Technical Advisory Committee Meeting

Agenda Item

No. 5

FY 2020/21 CDA (Chino I and Chino II) Water Deliveries (Draft)

Month	Chino	Chino Hills	JCSD	Norco	Ontario	SARWC	Western MWD	Total
Jul-20	427.132	356.844	991.292	87.597	736.790	102.381	301.153	3,003.189
Aug-20	433.651	363.384	973.886	89.228	741.172	102.461	301.748	3,005.530
Sep-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jan-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total FY 20/21 Deliveries	860.783	720.228	1,965.178	176.825	1,477.962	204.842	602.901	6,008.719
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 August 2020 (AF)	860.8	720.2	1,965.2	176.8	1,478.0	204.8	602.9	6,008.7
	103.3%	102.9%	100.5%	106.1%	103.9%	102.4%	102.4%	102.4%

Notes:

1. Actual deliveries to date are shaded.

Water Deliveries Through

Aug-20



Technical Advisory Committee Meeting

Agenda Item

No. 8

Chino Basin Desalter Authority
Board Meeting Agenda Items

October 1, 2020 Board Meeting (Regular)		TAC	Finance
II-2 and II-3 Purchase and Sale Agreement	O'Neill/CDA	9/22/2020	9/24/2020
Quarterly Financial Reports	Garcia/CDA	-	9/24/2020
Quarterly Operations Report/Presentation	O'Neill/CDA	-	-
Quarterly South Archibald Plume Report/Presentation	Miller/H&S	-	-

November 5, 2020 Board Meeting (Special)		TAC	Finance
Appoint CDA Representative for ACWA/JPIA Board of Directors		10/13/2020	10/22/2020

FUTURE	TAC	Finance	Board
O&M Agreement			
Records Retention Policy			



Technical Advisory Committee Meeting

Agenda Item

No. 9

Chino Basin Desalter Authority

TAC Meeting Agenda Items

September 22, 2020
Meeting Minutes
Chino I Operations Report
Chino II Operations Report
CRF Update
II-2 and II-3 Purchase and Sale Agreement
Chino I GAC Update
South Archibald Plume Update

October 13, 2020
Meeting Minutes
Chino I Operations Report
Chino II Operations Report
Water Deliveries
CRF Update
Chino I GAC Update
South Archibald Plume Update

FUTURE
O&M Agreement Update
Records Retention Policy