



Technical Advisory Committee Meeting

March 9, 2021 • 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 9, 2021 • 1:30 p.m.

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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 JANUARY 26, 2021 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: Bryan Smith/Jurupa Community Services District
- 4. WATER DELIVERIES**
Report By: Thomas O'Neill, CDA General Manager/CEO
- 5. SOUTH ARCHIBALD PLUME UPDATE**
Report By: Cindy Miller, South Archibald Plume Program Manager
- 6. CHINO I GAC UPDATE**
Report By: Cindy Miller, Hazen & Sawyer Program Manager
- 7. BOARD MEETING AGENDA ITEMS REVIEW**
Report By: Thomas O'Neill, CDA General Manager/CEO

8. NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW

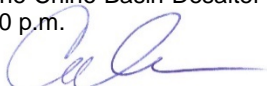
Report By: Thomas O'Neill, CDA General Manager/CEO

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 5, 2021 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 23, 2021 • 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:

Dave Crosley, City of Chino
Chris Bonadurer, City of Ontario
Chris Waggener, Inland Empire Utilities Agency
Ben Armel, Jurupa Community Services District
Bryan Smith, Jurupa Community Services District (Alternate)
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
Michael Chung, CDA CFO/Treasurer
Jose Garcia, CDA Principal Accountant
Robert Delgado, Inland Empire Utilities Agency
Daniel Cardenas, Jurupa Community Services District
Courtney Jones, City of Ontario
Cindy Miller, Hazen & Sawyer
Bob Bowcock, Integrated Resources Management/SB County Airports

PUBLIC COMMENT - There were no public comments.

ADDITIONS TO THE AGENDA – General Manager O'Neill presented an addition to the agenda:

SOUTH ARCHIBALD PLUME CLEANUP PROJECT: TEMPORARY LICENSE AGREEMENT WITH LEWIS MANAGEMENT CORP FOR CONSTRUCTION OF MONITORING WELL II-MW4

AGENDA ITEMS

1.	MINUTES OF JANUARY 26, 2021 TECHNICAL ADVISORY COMMITTEE MEETING Minutes were approved as submitted.
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2.	<p>CHINO I OPERATIONS REPORT Report By: Chris Waggener/Inland Empire Utilities Agency</p> <ul style="list-style-type: none"> • Plant Production Average - 9.86 MGD • Edison power blips shut down plant from for a short period on February 3rd. • RO Train #4 dump valve replaced on February 4th. • RO Masterstation needed to be reset and line voltage increased • 2/6/21 – Decarbonator #1 filters changed out. End User Booster #7 installed • End User #1 pulled for repair • Annual Calibration of SARI Flow Meter performed • Shutdown scheduled 3/1 and 3/2 to finish programming of RO PLC's, NRV Brine inlet piping replacement, Decarbonator 2 inspection, and Inhibitor flow meter replacement.
3.	<p>CHINO II OPERATIONS REPORT Report By: Bryan Smith/Jurupa Community Services District</p> <ul style="list-style-type: none"> • Plant Production Average – 17 MGD • Loaded NRV-6 resin, began disinfection, flushing and sampling • Replaced IX bag filters for maintenance
4.	<p>CHINO II CONCENTRATE REDUCTION FACILITY OPERATIONAL UPDATE Report By: Thomas O'Neill, CDA General Manager/CEO</p> <ul style="list-style-type: none"> • Continued plant CIP to remove Calcium build up • Completed Waste Wash Basin and Storage Tank clean up with T.E Roberts • Rebuilt soda ash influent line into Clarifier # 2 • Finished programming updates to new Concentrate Bypass Valve with Emerson • J.C. Coatings on site to begin patch work on Clarifiers and Gravity Thickeners • Reinstalled influent nozzles at Pellet Reactor 1 and Pellet Reactor 2 • Cleaned out Lime Tanks with United Pumping • Made repairs to both Clarifier Mixers for shaft realignment.
5.	<p>ADOPTION OF CHINO BASIN DESALTER AUTHORITY'S REVISED RESERVE POLICY Report By: Michael Chung, CDA CFO/Treasurer</p> <p>Treasurer Chung reviewed the recommendation to approve the adoption of the Revised Reserve Policy. Based on the total Operations & Maintenance budget per the adopted FY 2020/21 budget, the calculated reserve for the Operating Contingency would be \$4.43 Million, an increase from the previous reserve amount of \$3.82 Million. There were no objections to moving the item forward to the Finance Committee.</p>

6.	<p>RECONCILIATION OF THE ALLOCATION OF COSTS FOR FISCAL YEAR 2019/20 Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the reconciliation of the allocation of costs for fiscal year 2019/20, resulting in an overpayment of \$4,743,987. Two options were presented to the TAC: 1) Refund \$1,646,917 of the surplus to member agencies and allocate \$3,097,070 of the surplus to fund the Chino I GAC Project or 2) Refund the entire surplus of \$4,743,987 to member agencies and fund the Chino I GAC Project by borrowing from the reserves, according to a prior Board Action. The TAC unanimously selected Option 1: Refund \$1,646,917 to member agencies and allocate \$3,097,070 to fund the Chino I GAC Project.</p>
7.	<p>SOUTH ARCHIBALD PLUME UPDATE Report By: Cindy Miller, South Archibald Plume Program Manager</p> <p>Phase 1 Pipeline – Complete</p> <p>Phase 2 Pipeline – Gwinco continuing to make progress on pipeline in Bellegrave Avenue, east of I-15 and should be through this area by the end of the week. They will then begin in the Eastvale area on the westerly side of I-15.</p> <p>Phase 3 Pipeline – Complete</p> <p>Well II-12 – Cora Constructors is making progress on building, currently working on the roofing system and continuing site improvements.</p> <p>Decarbonator Modifications – Contractor set the second air stripper onto the site. Awaiting third air stripper, scheduled to arrive at the end of next week.</p> <p>Monitoring Wells – Driller has substantially finished MW II-5. Completing construction of the second nested pole. Working through final License Agreement with Lewis for MW II-4. A virtual site visit was conducted for Regional Board and State Board.</p>
8.	<p>CHINO I GAC UPDATE Report By: Cindy Miller, Hazen & Sawyer Program Manager</p> <p>Received comments for 90% design submittal; moving forward to prepare 100% submittal. Draft source water assessment will be submitted to DDW by end of the week.</p>
Added Item:	<p>SOUTH ARCHIBALD PLUME CLEANUP PROJECT: TEMPORARY LICENSE AGREEMENT WITH LEWIS MANAGEMENT CORP FOR CONSTRUCTION OF MONITORING WELL II-MW4 Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve a temporary license agreement with Lewis Management. A 25-foot-wide access area adjacent to the southerly border of the work area is needed to provide adequate work, staging, and access area to the Contractor for construction activities. There is no cost for this</p>

	license, but the item will require Board approval due to insurance requirements. There were no objections to move item forward to the Finance Committee.
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 2:25 p.m.

Submitted by Casey Costa, CDA Executive Assistant



Technical Advisory Committee Meeting

Agenda Item

No. 2



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	93%	1,200	1,147	14%	Yes	1,147	Run	1,147
I-6	93%	350	338	4%	Yes	338	Run	338
*I-7	0%	1,200	0	0%	Yes	0	Run	0
I-8	88%	900	690	8%	Yes	690	Run	690
I-9	43%	1,200	430	5%	Yes	430	Run	430
I-10	0%	1,200	0	0%	No	0	Idle	0
I-11	93%	1,200	1,074	13%	Yes	1,074	Run	1,074
**I-13	70%	2,000	685	8%	Yes	685	Run	685
I-14	74%	2,200	1,549	19%	Yes	1,549	Run	1,549
****I-15	82%	2,000	1,682	20%	Yes	1,682	Run	1,682
I-16	100%	250	151	2%	Yes	151	Run	151
I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	346	4%	Yes	346	Run	346
I-21	100%	400	207	2%	Yes	207	Run	207
gpm	Total	16,500	8,299	100%	100%	8,299	100%	8,299
MGD		23.76	11.95			11.95		11.95

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,036	1.49
2	79.0%	1,036	1.49
3	79.0%	1,036	1.49
4	79.0%	1,036	1.49
5	79.0%	1,036	1.49
		5,180	7.46

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	416	0.60
2	416	0.60
3	416	0.60
4	416	0.60
	1,664	2.40

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,306	1.88

Summary of Activities

2/18/21- New Inhibitor flow meter powered on and tested.

2/20/21- Leak on CL2 generator fixed (cracked holding nut and o-ring)

2/25/21 - SARI flow transferred to Chino I from Chino II. Plant back in full production.

3/2/21 - Well I-10 pump shaft too short to install motor and bump test. New shaft being fab.

3/1 to 3/2/21- Plant shutdown. Maintenance accomplished was:

RO Redundant PLC programming completed and tested. IX Brine inlet piping replaced. Flash Mix injector and piping cleaned. Decarb Tower #2 found to be bad fan bearing. New grease lines on Decarb Tower#1 fan installed. Clearwell Level transducer calibrated. Chlorine discharge line leaks repaired. RO Header spacers installed

Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	8,299	11.95
Brine	-1306	-1.88
	6,993	10.07

Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	5,180	7.46
Ion Exchange	1,664	2.40
Raw Bypass	0	0.00
	6,844	9.86

* 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 18, 2021 to March 3, 2021

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	8%	Yes	1,396	Run	1,734
II-2	Fixed	2,000	1,435	8%	Yes	1,435	Run	1,777
II-3	Fixed	2,000	1,500	9%	Yes	1,500	Run	1,777
II-4	100%	2,000	1,576	9%	Yes	1,576	Run	1,743
II-6	100%	2,000	1,460	9%	No	0	Idle	0
II-7	100%	1,200	829	5%	Yes	829	Run	1,005
II-8	Fixed	1,500	1,045	6%	Yes	1,045	Run	1,129
II-9	Fixed	2,000	1,575	9%	Yes	1,575	Run	2,189
II-10	100%	3,700	3,260	19%	No	0	Idle	0
II-11	100%	3,300	3,001	18%	Yes	3,001	Run	2,508
II-12								
gpm	Total	21,700	17,077	100%	72%	12,357	81%	13,862
MGD		31.25	24.59			17.79		19.96

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	608	0.88	5	0	0.00
2	657	0.95	6	644	0.93
3	630	0.91	7	0	0.00
4	0	0.00	8	626	0.90
				3,300	4.75

Raw Bypass

Production	
(gpm)	(MGD)
1,176	1.69

Brine Flow

Production	
(gpm)	(MGD)
725	1.04

Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	490	0.71
2	70.0%	490	0.71
3	70.0%	0	0.00
		980	1.41

Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	13,862	19.96
Brine	-725	-1.04
	13,137	18.92
	94.8%	

Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	8,670	12.48
Ion Exchange	3,300	4.75
Raw Bypass	1,176	1.69
Secondary RO	980	1.41
	14,126	20.3

Summary of Activities

- * Daily Plant Rounds/Weekly Samples
- * Weekly Calibrations
- * P&L/Gwinco onsite for Air Stripper Project
- * Chino 2 Well # 6 & Well # 10 out for rehabilitation.
- * Chino 2 Well # 9 - Cla-Val on site to help troubleshoot the automatic control valve
- * Chino 2 Finished Disinfecting NRV-6 and placed it back online
- * Chino 2 CIP on RO Train #1 (Silica and Calcuim cleaning)
- * Chino 2 Restarted RO Train # 1 and increased all train flows for CRF start up
- * CRF Finished circulating acid throughout plant
- * CRF Final Inspections/Cleaning of plant before start-up
- * CRF Chlorinated plant for disinfection prior to start-up
- * CRF Set up and re-seeded Pellet Reactors 1, 2 and 4 for start-up
- * CRF Started Facility on 2/24/21
- * CRF Repaired ruptured seal water flush line at Clarifier Blow Down Station.



Technical Advisory Committee Meeting

Agenda Item

No. 4

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	419.417	350.156	1,121.142	85.116	700.120	105.401	310.405	3,091.757
Oct-20	449.064	394.388	1,120.235	94.402	767.780	111.306	327.796	3,264.971
Nov-20	423.007	352.074	959.791	81.761	674.850	98.135	289.007	2,878.625
Dec-20	390.407	363.313	950.703	93.626	799.230	102.302	301.280	3,000.861
Jan-21	420.162	353.327	926.381	86.178	745.940	99.730	293.706	2,925.424
Feb-21	326.217	273.779	732.542	60.667	566.138	77.175	227.280	2,263.798
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	3,289.057	2,807.265	7,775.972	678.575	5,732.020	798.891	2,352.375	23,434.155
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 2021 (AF)	3,289.1	2,807.3	7,776.0	678.6	5,732.0	798.9	2,352.4	23,434.2
	98.7%	100.3%	99.4%	101.8%	100.8%	99.9%	99.8%	99.9%

Notes:

1. Actual deliveries to date are shaded.

Water Deliveries Through

Feb-21



Technical Advisory Committee Meeting

Agenda Item

No. 7

Chino Basin Desalter Authority
Board Meeting Agenda Items

April 1, 2021 Board Meeting (Regular)		TAC	Finance
Quarterly Financial Reports	Garcia/CDA	-	3/25/2021
Contract for Disposal of Biosolids at Chino II	O'Neill/CDA	3/23/2021	3/25/2021
SAP: Pascal & Ludwig Change Order - Decarbonators	Miller/H&S	3/23/2021	3/25/2021
SAP: Design of Well I-11 Booster Pump Station Professional Services Agr	Miller/H&S	3/23/2021	3/25/2021
General Manager Employment Agreement	A. Burns	-	-
Quarterly Operations Report/Presentation	O'Neill/CDA	-	3/25/2021
Quarterly South Archibald Plume Report/Presentation	Miller/H&S	-	3/25/2021
General Manager Performance Evaluation (Closed Session Item)	A. Burns	-	3/25/2021

May 6, 2021 Board Meeting (Special)		TAC	Finance



Technical Advisory Committee Meeting

Agenda Item

No. 8

Chino Basin Desalter Authority

TAC Meeting Agenda Items

March 23, 2021
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
2021/22 Draft O&M Budget
SAP: Pascal & Ludwig Change Order - Decarbonators
SAP: Design of Well I-11 Booster Pump Station Professional Services Agr
Contract for Disposal of Biosolids at CII
South Archibald Plume Update
Chino I GAC Update

April 13, 2021
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Water Deliveries
South Archibald Plume Update
Chino I GAC Update