



**CHINO BASIN
DESALTER
AUTHORITY**

Technical Advisory Committee Meeting

February 11, 2020 • 1:30 p.m.

**Chino Basin Desalter Authority
2151 S. Haven Avenue, Suite 202
Ontario, CA 91761**

**TECHNICAL ADVISORY COMMITTEE
CHINO BASIN DESALTER AUTHORITY**
2151 S. Haven Avenue, Suite 202, Ontario, CA 91761

February 11, 2020 at 1:30 p.m.

NOTICE AND AGENDA

CALL TO ORDER

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 complete and submit to the Board Secretary a "Request to Speak" form which is available on the conference room table. 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.

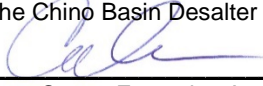
- 1. MINUTES OF JANUARY 28, 2020 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**
Report By: Ian Tillery/Inland Empire Utilities Agency
- 3. CHINO II OPERATIONS REPORT**
Report By: Aaron Anderson/Jurupa Community Services District
- 4. CHINO II CONCENTRATE REDUCTION FACILITY OPERATIONAL ISSUES**
Report By: Thomas O'Neill, CDA General Manager/CEO
- 5. WATER DELIVERIES**
Report By: Todd Minten, CDA Operations Manager
- 6. PHASE 3 EXPANSION UPDATE - PHASE 3 RECONCILIATION**
Report By: Jose Garcia, CDA Principal Accountant
- 7. SOUTH ARCHIBALD PLUME UPDATE**
Report By: Cindy Miller, South Archibald Plume 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

<p>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 2151 S. Haven Avenue, Suite 202, Ontario, CA 91761.</p>

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, 2151 S. Haven Ave., Ontario, CA by January 27, 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

January 28, 2020

A meeting of the Chino Basin Desalter Authority Technical Advisory Committee was held on the above date at the 2151 S. Haven Avenue, Suite 202, Ontario, CA. 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
Ben Armel, Jurupa Community Services District
Aaron Anderson, Jurupa Community Services District (Alternate)
Paul Ruge, Western Municipal Water District

Others Present:

Thomas O'Neill, CDA General Manager/CEO
Michael Chung, CDA CFO/Treasurer
Todd Minten, CDA Operations Manager
Casey Costa, CDA Executive Assistant
Jose Garcia, CDA Principal Accountant
Matthew Abel, Jurupa Community Services District
Albert Magallon, Western Municipal Water District
Cindy Miller, Hazen & Sawyer
Kevin Sage, Integrated Resources Management/SB County Airports

PUBLIC COMMENT - There were no comments from the public.

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

AGENDA ITEMS

1. MINUTES OF JANUARY 14, 2020 TECHNICAL ADVISORY COMMITTEE MEETING

Minutes were approved as presented.

2. CHINO I OPERATIONS REPORT

Report By: Ian Tillery/Inland Empire Utilities Agency

- Plant Production 9.79 MGD
- Security system firewall installed on 1/13
- Acid tank leak repaired 1/22
- Multiple power outages occurred on 1/22, as a result of work being done by Edison and another contractor.

- Plant was ramped up last week for about 10 hours to 12 MGD. Water quality remained within limits.

3. CHINO II OPERATIONS REPORT

Report By: Aaron Anderson/Jurupa Community Services District

- Plant Production 17.19 MGD
- CRF scheduled to start up 2/4
- NRV-7 flushed and disinfected, resin added and disinfected, will be put back into service
- Noise was detected on primary RO Train 5. General Pump was given authorization for field balancing for vibration and will contact plant to schedule.
- Baker Electric performed UPS maintenance.
- A plant failure occurred today; the cause hasn't been determined yet, but it may involve the UPS batteries. Waiting for a quote to replace batteries. Plant was down for about an hour.

4. CHINO II CONCENTRATE REDUCTION FACILITY OPERATIONAL ISSUES

Report By: Matt Abel, Jurupa Community Services District

Startup scheduled on February 4, 2020. Concentrate B bypass line was completed. Welding will be completed today. Chemical lines were flushed, and caustic was transferred from one tank to the other. Disinfection of plant has been completed. Pellet reactors will be ready by the end of the day tomorrow.

General Manager O'Neill reported that the plant will start with one pellet reactor and we will continue to use the additional leased SARI capacity for now.

5. MID YEAR BUDGET REVIEW

Report By: Jose Garcia, CDA Principal Accountant

Principal Accountant Garcia reviewed the mid-year budget variance report for Administration, Chino I and Chino II. Consolidated budgets show that 42% budget has been consumed to date, compared to 40% of water delivered, based on 35,200AF. Item will be reviewed by the Finance Committee as an information item. This will not require Board review or approval, as quarterly variance reports are reviewed by the Board at Regular Board Meetings.

6. PHASE 3 EXPANSION UPDATE

Report By: Cindy Miller, Phase 3 Expansion Program Manager

Sponsor Group Finance staff will review Phase 3 Expansion on February 10th.

7. SOUTH ARCHIBALD PLUME UPDATE

Report By: Cindy Miller, South Archibald Plume Program Manager

- In Construction: Phase 1 Raw Water Pipeline
- Out to Bid: Phase 2 and 3 Raw Water Pipelines and Drilling of Well II-12
- Upcoming RFP: Decarbonator Design

8. ADMINISTRATIVE OFFICE SPACE UPDATE

Report By: Casey Costa, CDA Executive Assistant

There is an available office unit on Philadelphia/Haven in Ontario, which fits our requirements for square footage and location. Costs are much lower than our current location, with a savings of approximately \$95,000 over a 5-year period. Building type is a flex space, which is a mix of office and warehouse units, no interior common area, and a market rate that is typically lower than conventional office space.

With the consent of Finance Committee Members, the item will be agendized for the February 6, 2020 Board Meeting.

9. BOARD MEETING AGENDA ITEMS REVIEW

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

General Manager O’Neill reviewed upcoming Board agenda 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 2:05 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
January 24th to February 6th, 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%	No	0	Idle	0
I-5	99%	1,200	1,148	13%	Yes	1,148	Run	1,148
*I-6	80%	1,200	272	3%	Yes	272	Run	272
*I-7	80%	1,200	318	4%	Yes	318	Run	318
I-8	96%	900	542	6%	Yes	542	Run	542
I-9	95%	1,200	965	11%	Yes	965	Run	965
I-10	97%	1,200	1,218	13%	Yes	1,218	Run	1,218
I-11	99%	1,200	1,214	13%	Yes	1,214	Run	1,214
**I-13	76%	2,000	736	8%	Yes	736	Run	736
I-14	85%	2,200	1,576	17%	Yes	1,576	Run	1,576
I-15	0%	2,000	0	0%	No	0	Idle	0
I-16	100%	250	212	2%	Yes	212	Idle	0
I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	411	5%	Yes	411	Run	411
I-21	100%	400	435	5%	Yes	435	Run	435
gpm	Total	17,350	9,047	100%	100%	9,047	98%	8,835
MGD		24.98	13.03			13.03		12.72

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,270	1.83
2	79.0%	1,270	1.83
3	79.0%	1,270	1.83
4	0.0%	0	0.00
5	79.0%	1,270	1.83
		5,080	7.32

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	580	0.84
2	580	0.84
3	580	0.84
4	0	0.00
	1,740	2.51

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,326	1.91

Summary of Activities

- 1/23 8200 gpm @ 550 cond
- 1/28 CVFD inspection of wells
- 1/28 pilot testing for pH control
- 1/29 caustic tank job walk
- 1/30 Well I-20 gate repaired
- 1/31 8500 gpm @ 555 cond
- 2/3 power outages at 1321 & 1506
- 2/3 NRV 4 inspection
- 2/4 Well I-14 AC stopped working
- 2/4 SCE inspection of meter
- 2/5 End User #6 vibration

Plant Efficiency

	Flow in Vs. Flow Out (gpm)	(MGD)
Wells	8,835	12.72
Brine	-1326	-1.91
	7,509	10.81

Plant Production

	All Treatment Trains (gpm)	(MGD)
Primary RO	5,080	7.32
Ion Exchange	1,740	2.51
Raw Bypass	0	0.00
	6,820	9.82

- * Air Problem
- ** Sand Problem
- ***Cooling Problem



Technical Advisory Committee Meeting

Agenda Item

No. 3



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	1,580	12%	Yes	1,580	Run	1,580
II-2	Fixed	2,000	1,652	12%	Yes	1,652	Run	1,600
II-3	Fixed	2,000	1,705	13%	Yes	1,705	Run	1,600
II-4	100%	2,000	1,680	12%	Yes	1,680	Run	1,680
II-6	100%	2,000	1,595	12%	Yes	1,595	Run	1,595
II-7	100%	1,200	920	7%	Yes	920	Idle	0
II-8	Fixed	1,500	1,200	9%	Yes	1,200	Run	1,200
II-9	Fixed	2,000	0	0%	Yes	0	Idle	0
II-10	100%	3,700	1,650	12%	Yes	1,650	Run	2,350
II-11	100%	3,300	1,600	12%	Yes	1,600	Run	1,500
II-12								
gpm	Total	21,700	13,582	100%	100%	13,582	96%	13,105
MGD		31.25	19.56			19.56		18.87

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	82.5%	0	0.00
2	82.5%	1,200	1.73
3	82.5%	1,300	1.87
4	82.5%	1,900	2.74
5	82.5%	2,250	3.24
		6,650	9.58

Ion Exchange Treatment

NRV (gpm) (MGD)			NRV (gpm) (MGD)		
1	547	0.79	5	550	0.79
2	564	0.81	6	556	0.80
3	0	0.00	7	605	0.87
4	555	0.80	8	0	0.00
			3,400	4.89	

Raw Bypass

Production (gpm)	(MGD)
1,860	2.68

Brine Flow

Production (gpm)	(MGD)
1,360	1.91

Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	66.0%	0	0.00
2	66.0%	0	0.00
3	66.0%	0	0.00
		0	0.00

Plant Efficiency

Flow in Vs. Flow Out (gpm) (MGD)		
Wells	13,105	18.87
Brine	-1360	-1.91
	11,745	16.96
	89.6%	

Plant Production

All Treatment Trains (gpm) (MGD)		
Primary RO	6,600	9.58
Ion Exchange	3,400	4.89
Raw Bypass	1,860	2.68
Secondary RO	0	0.00
	11,860	17.14

Summary of Activities

- Aquasystec providing SCADA support
- Daily Plant Rounds/Weekly Samples
- JCSD staff calibrated instruments
- NRV 7 back in service
- Field balance Train 5 motor (General Pump)
- Plant shutdown for P&L pipe install
- Change bag filters for IX
- Seed feed Pellet Reactors for start up



Technical Advisory Committee Meeting

Agenda Item

No. 5

FY 2019/20 CDA (Chino I and Chino II) Water Deliveries (Draft)

Month	Chino	Chino Hills	JCSD	Norco	Ontario	SARWC	Western MWD	Total
Jul-19	480.000	463.500	742.610	83.000	439.000	100.000	0.000	2,308.110
Aug-19	335.989	278.585	912.589	67.211	414.011	100.000	235.000	2,343.385
Sep-19	322.206	276.394	616.150	65.094	673.864	85.000	44.190	2,082.898
Oct-19	360.082	302.785	835.272	72.742	613.500	87.264	256.993	2,528.638
Nov-19	291.205	237.800	837.025	63.643	665.231	84.000	238.652	2,417.556
Dec-19	287.439	227.224	966.031	70.704	602.681	84.845	249.869	2,488.793
Jan-20	349.444	284.309	853.643	83.360	608.097	85.821	252.743	2,517.417
Feb-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total FY 19/20 Deliveries	2,426.365	2,070.597	5,763.320	505.754	4,016.384	626.930	1,277.447	16,686.797
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 January 2020 (AF)	2,426.4	2,070.6	5,763.3	505.8	4,016.4	626.9	1,277.4	16,686.8
	83.2%	84.5%	84.2%	86.7%	80.7%	89.6%	62.0%	81.3%

Notes:

1. Actual deliveries to date are shaded.

Water Deliveries Through

Jan-20

Submitted By:

Tom O'Neill, General Manager/CEO

Date

Approved By:

CDA Technical Advisory Committee

Approved On:



Technical Advisory Committee Meeting

Agenda Item

No. 8

Chino Basin Desalter Authority
Board Meeting Agenda Items

March 5, 2020 Board Meeting (Special)		TAC	Finance
Well II-1 Site Purchase and Sale	O'Neill/CDA	2/25/2020	2/27/2020
SAP - Phase 2 Pipeline	Miller/HS	2/25/2020	2/27/2020
SAP - Phase 3 Pipeline	Miller/HS	2/25/2020	2/27/2020
SAP - II-12 Drilling	Miller/HS	2/25/2020	2/27/2020
SAP - TRC Change Order #1	Miller/HS	2/25/2020	2/27/2020
Phase 3 Expansion Reconciliation of Costs	Garcia/CDA	2/11/2020	2/27/2020
Employee Manual	O'Neill/CDA	2/25/2020	2/27/2020
General Manager Contract (Closed Session)	Burns/SYCR	-	-

April 2, 2020 Board Meeting (Regular)		TAC	Finance
Quarterly Financial Reports	Garcia/CDA		3/26/2020
CDA Reconciliation of Costs	Garcia/CDA	3/10/2020	3/26/2020
SAP: Chino II Desalter Decarbonater Modifications	Miller/H&S	3/10/2020	3/26/2020
SAP: Survey Services	Miller/H&S	3/10/2020	3/26/2020
Distribution of Excess Reserves	Garcia/CDA	3/10/2020	3/26/2020
Reserve Policy Review	Chung/CDA	3/10/2020	3/26/2020
GM Contract (Closed Session)		-	3/26/2020
GM Contract (Action Item)	Burns/SYCR	-	-
Quarterly Operations Report/Presentation	Minten/CDA	-	
Quarterly South Archibald Plume Report	Miller/H&S	-	

FUTURE	TAC	Finance	Board
O&M Agreement Update			



Technical Advisory Committee Meeting

Agenda Item

No. 9

Chino Basin Desalter Authority

TAC Meeting Agenda Items

February 25, 2020
Meeting Minutes
Chino I Operations Report
Chino II Operations Report
Chino II - CRF Issues
Well II-1 Site Purchase and Sale
SAP - Phase 2 Pipeline
SAP - Phase 3 Pipeline
SAP - II-12 Drilling
SAP - TRC Change Order #1
Phase 3 Expansion Reconciliation of Costs (if req'd)
Employee Manual

March 10, 2020
Meeting Minutes
Chino I Operations Report
Chino II Operations Report
Chino II - CRF Issues
Water Deliveries
CDA Reconciliation of Costs
SAP: Chino II Desalter Decarbonater Modifications
SAP: Survey Services
Distribution of Excess Reserves
Reserve Policy Review

FUTURE
O&M Agreement Update
CRF Support Services (Carollo)
Pipeline Exchange WMWD/Norco