

**Chino Basin Desalter Authority**  
**Chino I Expansion and Chino II Desalter Project**  
**SAWPA Grant Contract Number 502-15-68**  
**July 2004 Progress Report**

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**The Project**

The Project, commonly known as the Chino I Expansion/Chino II Desalter Project, primarily consists of construction of the facilities necessary to expand the Chino I Desalter by 5 MGD and construction of a new 10 MGD Chino II Desalter. The Chino I Desalter Expansion Project began in June 2002 and is estimated to continue through April 2005. The Chino II Desalter Project began in June 2002 and is estimated to continue through March 2005. The progress of each of the facilities is described below.

**CHINO I DESALTER EXPANSION FACILITIES**

**Well Drilling**

These facilities include the construction of three wells (Extraction Well Nos. I-13, I-14, and I-15) and one monitoring well (Monitoring Well No. CDA-01). These facilities are completed.

**Well Equipping**

These facilities include equipping the three extraction wells described in the Well Drilling Section. The construction contract was awarded to Pascal and Ludwig Constructors. These facilities are in the construction phase and are approximately 20 percent complete. Progress on these facilities this month included completing an additional ten percent of the construction from ten to 20 percent.

**Raw Water Pipeline**

These facilities include the raw water pipeline from the new extraction wells to the existing raw water pipeline. The construction contract was awarded to Norstar Plumbing and Engineering Company, Incorporated. These facilities are in the construction phase and are approximately 75 percent complete. Progress on these facilities this month included completing an additional ten percent of the construction from 65 to 75 percent.

**Onsite Improvements (excluding Ion Exchange)**

These facilities include onsite improvements at the Chino I Desalter site including bypass piping, sodium hypochlorite station, volatile organic compound (VOC) treatment system, and expansion of product water pump stations. The construction contract was awarded to Coons Construction. These facilities are in the construction phase and are approximately 32 percent complete. Progress on these facilities this month included completing an additional 22 percent of the construction from ten to 32 percent.

**Ion Exchange Treatment Facilities**

These facilities include ion exchange treatment facilities at both the Chino I Desalter and the

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Chino II Desalter. The construction contract was awarded to Brutoco Engineering and Construction. These facilities are in the construction phase and are approximately nine percent complete. Progress on these facilities this month included completing an additional one percent of the construction from eight to nine percent.

### **Ontario Product Water Pipeline**

These facilities include a product water pipeline to the City of Ontario service connection. The pipeline will be located in Cloverdale Road and Archibald Avenue. These facilities are in the design phase and are approximately 70 percent complete. Progress on these facilities this month included completing an additional 20 percent of the design from 50 to 70 percent.

### **Ontario Product Water Pump Station**

These facilities include a product water pump station to deliver water to the City of Ontario service connection. The pump station is located at approximately the Riverside/San Bernardino County Line and Archibald Avenue. These facilities are in the design phase and are approximately 70 percent complete. Progress on these facilities this month included completing an additional 20 percent of the design from 50 to 70 percent.

### **Chino Hills Product Water Pipeline**

These facilities include a product water pipeline in Soquel Canyon Parkway for the connection to the City of Chino Hills water system. The construction contract was awarded to Norstar Plumbing and Engineering Company, Incorporated. These facilities are in the construction phase and are approximately 15 percent complete. There was no progress on these facilities this month.

### **Chino Hills Pump Station**

These facilities include the construction of a pump station in Soquel Canyon Parkway in the City of Chino Hills. This station will lift water into the City of Chino Hills water system. The construction contract was awarded to SCW Contracting Corporation. These facilities are in the construction phase and are approximately 25 percent complete. Progress on these facilities this month included completing an additional five percent of the construction from 20 to 25 percent.

## **CHINO II DESALTER FACILITIES**

### **Well Drilling Package No. 1**

These facilities include the construction of two extraction wells (Well Nos. II-6 and II-7). The construction contract was awarded to Bakersfield Well and Pump Company. These facilities are in the construction phase and are approximately 90 percent complete. Progress on these facilities this month included completing an additional 80 percent of the construction from ten to 90 percent.

### **Well Drilling Package No. 2**

These facilities include the construction of three extraction wells (Well Nos. II-1, II-8, and II-9). The construction contract was awarded to Layne Christensen Company. These facilities are in the construction phase and are approximately 50 percent complete. Progress on these facilities this month included completing an additional 20 percent of the construction from 30 to 50 percent.

### **Well Drilling Package No. 3**

These facilities include the construction of four extraction wells (Well Nos. II-2, II-3, II-4 and II-5). The construction contract was awarded to Bakersfield Well and Pump Company. These facilities are in the construction phase and are approximately ten percent complete. Progress on these facilities this month included completing an additional nine percent of construction from one to ten percent.

### **Well Equipping Package No. 1**

These facilities include equipping four extraction wells (Well Nos. II-6, II-7, II-8, and II-9). The construction contract was awarded to Pascal and Ludwig Constructors. These facilities are in the construction phase and are approximately five percent complete. Progress on these facilities this month included completing an additional four percent of construction from one to five percent.

### **Well Equipping Package No. 2**

These facilities include equipping five extraction wells (Well Nos. II-1, II-2, II-3, II-4, and II-5). These facilities are in the bid phase and the bids are due in July 2004. There was no progress on these facilities this month.

### **Raw Water Pipeline Package No. 1**

These facilities include the raw water pipeline east of the Interstate 15 Freeway from the new extraction wells to the Chino II Desalter site. The construction contract was awarded to Norstar Plumbing and Engineering Company, Incorporated. These facilities are in the construction phase and are approximately five percent complete. Progress on these facilities this month included completing an additional four percent of construction from one to five percent.

### **Raw Water Pipeline Package No. 2**

These facilities include the raw water pipeline crossing the Interstate 15 Freeway. These facilities are in the design phase and are approximately 99 percent complete. Progress on these facilities this month included completing an additional 24 percent of the design from 75 to 99 percent.

### **Raw Water Pipeline Package No. 3**

These facilities include the raw water pipeline west of the Interstate 15 Freeway from the new

extraction wells to the Interstate 15 Freeway. These facilities are in the design phase and are approximately 70 percent complete. Progress on these facilities this month included completing an additional 20 percent of the design from 50 to 70 percent.

### **Onsite Improvements (excluding Ion Exchange)**

These facilities include onsite improvements at the Chino II Desalter site including all new facilities excluding the ion exchange treatment facility. The construction contract was awarded to Brutoco Engineering and Construction. These facilities are in the construction phase and are approximately 35 percent complete. Progress on these facilities this month included completing an additional five percent of the construction from 30 to 35 percent.

### **Ion Exchange Treatment Facilities**

The same information applies to this facility as in the section under the “Chino I Desalter Expansion Facilities.”

### **SARWC Product Water Pipeline**

These facilities include the product water pipeline in Belgrave Avenue for the connection to the Santa Ana River Water Company water system. These facilities are in the construction phase and are approximately 95 percent complete. There was no progress on these facilities this month

### **Ontario Product Water Pipeline**

These facilities include the product water pipeline in Milliken Avenue for the connection to the City of Ontario water system. These facilities are in the design phase and are 100 percent complete. Progress on these facilities this month included completing an additional five percent of the design from 95 to 100 percent.

### **Ontario Pump Station**

These facilities include the construction of a pump station on Jurupa Street in the City of Ontario. This station will lift water into the City of Ontario water system. These facilities are in the design phase and are 100 percent complete. Progress on these facilities this month included completing an additional five percent of the design from 95 to 100 percent.

### **Attachments**

- Project Schedule
- Cash Flow Projection
- Construction Progress Pictures
- Pascal & Ludwig Constructors Contract, Chino II Well Equipping Package No. 1
- Bakersfield Well & Pump Company Contract, Chino II Well Drilling Package No. 3

**Chino I Expansion and Chino II Desalters Project**  
**Schedule Projection**  
**July 2004**

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	<u>Design Completed</u>	<u>Bid Opening</u>	<u>Start Construction</u>	<u>Construction Complete</u>
<u>Chino I Desalter Expansion Facilities</u>				
Well Drilling	Completed	Completed	Completed	Completed
Well Equipping	Completed	Completed	Completed	Oct. 2004
Raw Water Pipeline	Completed	Completed	Completed	Sep. 2004
Onsite Improvements (excluding Ion Exchange)	Completed	Completed	Completed	Jan. 2005
Ion Exchange Treatment Facilities	Completed	Completed	Completed	Jan. 2005
Ontario Product Water Pipeline	Aug. 2004	Sep. 2004	Oct. 2004	Apr. 2005
Ontario Product Water Pump Station	Aug. 2004	Sep. 2004	Oct. 2004	Apr. 2005
Chino Hills Product Water Pipeline	Completed	Completed	Completed	Sep. 2004
Chino Hills Pump Station	Completed	Completed	Completed	Oct. 2004
<u>Chino II Desalter Facilities</u>				
Well Drilling Package No. 1 (Well II-6 & 7)	Completed	Completed	Completed	Aug. 2004
Well Drilling Package No. 2 (Well II-1, 8, & 9)	Completed	Completed	Completed	Sep. 2004
Well Drilling Package No. 3 (Well II-2, 3, 4 & 5)	Completed	Completed	Completed	Nov. 2004
Well Equipping Package No. 1 (Well II-6, 7, 8 & 9)	Completed	Completed	Completed	Dec. 2004
Well Equipping Package No. 2 (Well II-1, 2, 3, 4 & 5)	Completed	Completed	Aug. 2004	Feb. 2005
Raw Water Pipeline Package No. 1	Completed	Completed	Aug. 2004	Nov. 2004
Raw Water Pipeline Package No. 2	Aug. 2004	Sep. 2004	Oct. 2004	Feb. 2005
Raw Water Pipeline Package No. 3	Aug. 2004	Sep. 2004	Oct. 2004	Feb. 2005
Onsite Improvements (excluding Ion Exchange)	Completed	Completed	Completed	Nov. 2004
Ion Exchange Treatment Facilities	Completed	Completed	Completed	Nov. 2004
SARWC Product Water Pipeline	Completed	Completed	Completed	Aug. 2004
Ontario Product Water Pipeline	Completed	Aug. 2004	Sep. 2004	Mar. 2005
Ontario Pump Station	Completed	Aug. 2004	Sep. 2004	Mar. 2005
<b>Overall Project Completion</b>				<b>Apr. 2005</b>

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## Chino I Expansion and Chino II Desalters Project

### Cash Flow Projection

June 2004

Chino I	Chino II	Total
29%	71%	
\$22,996,192.00	\$56,420,456.00	\$79,416,648.00

Date	Projected Cost		
\$16,275,628.10 Costs To Date	\$4,712,833.87	\$11,562,794.23	\$16,275,628.10
Jul. 2004	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
Aug. 2004	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
Sep. 2004	\$2,791,214.38	\$7,180,432.84	\$9,971,647.22
Oct. 2004	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
Nov. 2004	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
Dec. 2004	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
Jan. 2005	\$2,791,214.38	\$7,180,432.85	\$9,971,647.23
Feb. 2005	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
Mar. 2005	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
Apr. 2005	\$1,411,214.38	\$3,812,099.51	\$5,223,313.89
May. 2005	\$1,411,214.38		\$1,411,214.38
	\$22,996,192.00	\$56,420,456.00	\$79,416,648.00

### Work Performed for Invoiced Costs

Description	Cost
Inland Empire Utilities Agency for project management of the design and construction, construction management, and grant administration for the Chino I Desaler Onsite Improvements	\$23,762.19
Inland Empire Utilities Agency for project management of the design and construction, construction management, and grant administration for the Chino II Desaler Onsite Improvements	\$30,566.76
Inland Empire Utilities Agency for project management of the design and construction, construction management, and grant administration for the Ion Exchange Project at Chino I Desaler	\$7,748.32
Inland Empire Utilities Agency for project management of the design and construction, construction management, and grant administration for the Ion Exchange Project at Chino II Desaler	\$3,732.57
IEUA administrative expenses for reproduction, Fed Ex, and mileage for the Chino I Expansion	\$476.20
IEUA administrative expenses for reproduction, Fed Ex, and mileage for the Chino II Desalter	\$1,673.04
HNS Direcway for the satellite set up at the IEUA trailer at Chino II Desalter	\$189.98
Jurupa Community Services District for the management of the design, construction and grant administration of the Chino I Desalter Onsite Improvements	\$52,545.21
Jurupa Community Services District for the management of the design, construction and grant administration of the Chino II Desalter Onsite Improvements	\$18,818.55
RBF Consulting for engineering consulting services for the Chino I Desalter Expansion	\$10,780.00
RBF Consulting for engineering consulting services for the Chino II Desalter	\$250,064.86
Brutoco Engineering & Construction for the construction of the Chino II Desalter	\$311,697.00
Brutoco Engineering & Construction for the construction of the Chino I Desalter Ion Exchange	\$307,875.00
Brutoco Engineering & Construction for the construction of the Chino II Desalter Ion Exchange	\$307,875.00
AQMD Permit Application for the VOC system at Chino I Desalter	\$2,232.96
Hardware and Software Purchase for the Chino I Desalter Onsite Improvements	\$101,842.35

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**Chino I Expansion and Chino II Desalters Project****Cash Flow Projection****June 2004**

Hardware and Software Purchase for the Chino II Desalter Onsite Improvements	\$59,351.34
Southern California Edison Permit Application Fee for Well No. 14 for Chino I Desalter	\$6,381.82
Southern California Edison Permit Application Fee for for Chino II Desalter	\$204,213.36
Stradling Yoca Carlson and Rauth for leagal services for the Chino I Desalter	\$10,446.31
Stradling Yoca Carlson and Rauth for leagal services for the Chino I Desalter	\$17,798.69
City of Chino Hills for the construction of the Chino Hills Pump Station	\$113,152.50
<b>Total Invoices paid for the month of May 2004 =</b>	<b>\$1,843,224.01</b>

## Chino Hills Booster Pump Station



## Chino I Onsite Improvement - VOC Structure



Chino I Onsite Improvement - VOC Structure / Bypass Line



Chino I Raw Water Pipeline



## Chino II Desalter Onsite Improvement



## Chino II Desalter Onsite Improvement, RO Building



Chino II Desalter: Well II-8 Drilling Pilot Hole



Chino II, Santa Ana River Water Company Pipeline

