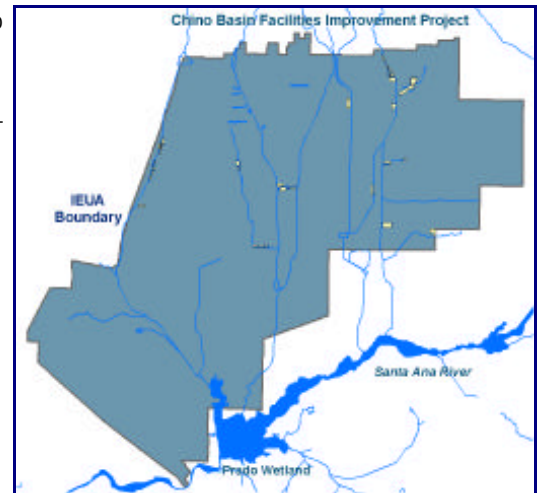


FEBRUARY 2004 CHINO BASIN FACILITIES IMPROVEMENT PROJECT SUMMARY

Program Description

The Chino Basin Facilities Improvement Program (CBFIP) is a joint effort of the Chino Basin Watermaster (CBWM), the Chino Basin Water Conservation District (CBWCD), the Inland Empire Utilities Agency (IEUA), and the San Bernardino County Flood Control Department (SBCFCD). IEUA was selected as the "Contracting Agency" to establish financing for the CBFIP and to apply for grants through the Santa Ana Water Project Authority (SAWPA) under Proposition 13 in June 1999. The CBFIP is a system comprised of activation of three Metropolitan Water District turnouts from the Rialto Pipeline; modifications to several flood control channels for conveying imported water, storm water and recycled water; and five rubber dams and three drop inlets diversion structures in the flood control channels to divert the water to the 19 groundwater recharge sites. The 19 sites have 42 recharge basins varying from 1 to 9 basins at the respective sites. The groundwater recharge sites, when fully developed will have a total annual recharge capacity of 120,000 to 170,000 ac. ft.; 20,000 to 25,000 of storm water; 80,000 to 120,000 ac. ft. of imported water; and 20,000 to 25,000 ac. ft. of recycled water.

The construction of the CBFIP will be in seven phases, with seven different contractors, totaling \$38,700,000. Construction is projected for completion at the end of 2004.



Project Purpose:

The purpose of the project is to provide storm water and imported water recharge facilities improvements required to increase groundwater recharge in the Chino Basin and to implement the Recharge Master Plan and Optimum Basin Management Program (OBMP)

Project Participant:

- Inland Empire Utilities Agency (Lead, Contracting Agency)
- Chino Basin Watermaster
- San Bernardino County Flood Control District
- Chino Basin Water Conservation District
- SAWPA

Design and Construction Management Team:

- Tettermeyer & Associates (Design Consultant)
- Black & Veatch/IEUA (Program & Construction Management)
- URS/Twining-Govil-Ryan (Geotechnical Consultant)

Bid Package No. 1 (Budget \$8,600,000)

Bid Package No. 1 includes six basins: Banana Basin, College Heights Basins, Lower Day Basin, RP-3 Basins, Turner Basin No. 1, Turner Basins No. 2, 3, & 4

Work Accomplished:

- RP-3 - Excavation under the contract with LTE at the RP-3 site is completed; quantities are being finalized. Sluice gates and the staff gauges are installed; RP-3 Trap Channel is complete.
- College Heights Basins – Excavation in the College Heights Basins is completed; quantities are being finalized. The sluice gate and the staff gauge are installed.
- Turner Basins 2, 3, & 4 – The 24", 30" and 36" RCP has been installed in the berms; structures are completed for the sluice gates. Staff gauges are installed.
- Turner Basin 1 – Excavation is completed; quantities are now being finalized. The sluice gate and the staff gauge have been installed.
- Lower Day Basin – Excavation in the Lower Day Basin is completed; now finalizing quantities. Sluice gates and the staff gauge are now installed.
- Banana Basin – LTE has completed all excavation at this basin; quantities are now being finalized. The contractor has completed placing all soil berms, dirt windrows and installing the sluice gates.
- Final completion date February 2004

Bid Package No. 2 (Budget \$7,700,000)

Bid Package No. 2 includes three basins: Declerz Basin, Ely Basins 1, 2, & 3, and 8th Street Basins; four rubber dams: College Heights (San Antonio Channel), Lower day Basin (Day Creek Channel), RP-3 Basins (Declerz Channel), Turner Basin No. 1 (Cucamonga Channel); and three drop inlets: Brooks Basin (San Antonio Channel), Turner Basins 2, 3, & 4 (Deer Creek Channel), and Victoria Basin (Etiwanda Channel); a fourth drop inlet has been added at Victoria Basin (San Sevaine Channel).

Basins status:

(Continued from page 1)

- Decléz Basin – earthwork at Decléz Basin completed. Work on the soil-cement berms and sluice gates experienced rain delay but are nearing completion.
- Ely Basins 1, 2, & 3 – earthwork at Ely Basins 1, 2, & 3 is complete. Work on the soil-cement berms and sluice gates experienced rain delay but are nearing completion.
- 8th Street Basins – earthwork at 8th Street Basins is underway (50% complete). Work on the soil-cement berms and sluice gates will get underway after excavation is completed in the areas for construction and installation.

Rubber dams status:

- The four inflatable rubber dams are installed in the channels and control structures are being constructed at the sites, namely, College Height Basins (San Antonio Channel), Turner Basins No. 1 (Cucamonga Channel); and Lower Day Basin (Day Creek Channel) and RP-3 Basins (Decléz Channel). The rubber dams have been test inflated; control panels are being installed.

Drop Inlets:

- The three drop inlets: Brooks Basin (San Antonio Channel), Victoria Basin (Etiwanda Channel), and Turner Basins No. 1, 2, 3, & 4 (Deer Creek Channel) are all nearing the 98% completion; sluice gates and controls experienced rain delay but are being installed.

Bid Package No. 3 (Budget \$3,200,000)

Bid Package No. 3 includes the construction of 11,000 linear feet of 36' diameter pipeline in Jurupa Avenue from the Jurupa Basin at Mulberry Avenue to Beech Avenue at the RP-3 Basins.

The contractor has completed the potholing along Jurupa Avenue and has located the existing utilities in the Jurupa Avenue. Construction began January 5, 2004. Rasic received approval of the Traffic Control Plans from the City of Fontana and San Bernardino County; and received the respective permits.

Pipe installation has began and 1,100 feet has been installed from RP-3 site northward on Jurupa Avenue.

Bid Package No. 4 (Budget \$2,300,000)

Bid package No.4 consists of constructing (1) a canal and 100 linear feet of 48" pipe to convey water to (2) the Jurupa Pump Station and (3) 400 lineal feet of 36" diameter cement mortar lined & coated (CML & C) steel pipe force main.

The Jurupa Basin Pump Station was bid November 20, 2003 and was awarded December 3, 2003. The "letter to proceed" has not been issued due to delays in permit review by the SBCFCD, the permit was received February 3, 2004. A pre-construction meeting was held February 19, 2004 which established the official start date.

SBCFCD has committed to constructing a section of concrete channel with a drop inlet and pipeline to deliver water to the Jurupa Basin for delivering stormwater, imported water, and recycled water to the Basin for pumping to the RP-3 Basins and the Decléz Basin. The remainder of the San Sevaine Channel between Valley Boulevard and the Jurupa Basin drop inlet will be completed as part of SBCFCD's San Sevaine Project.

Construction of the pump station and improvements to the Jurupa Basin is projected to take 200 calendar days. Contract start date was February 19, 2004. Notice to proceed will be given after all submittals are received.



8th Street Basin



Brooks Basin San Antonio Channel Water Diversion Pipeline



Turner 2,3,& 4- Deer Creek Drop Inlet Structure



Banana Basin-Sluice Gate Structure

Bid Package No. 5 (Budget \$3,900,000)

- The SCADA Control and Monitoring System original bid date was January 9, 2004. Only one responsive bid was received thus, all bids were rejected and re-bid on February 28, 2004.
- Radio controls will monitor and govern water levels in all the basins, control the drop inlets and rubber dams; four monitoring sites will be established at the CBWM, CBWCD and SBCFCD offices with the master controls located at RWRP-1. The SBCFCD offices will have a satellite control station.

Bid Package No. 6 (Budget \$1,820,000)

Bid Package No. 6 includes the MWD CB Turnouts No. 11T, 15T and a new connection on the Etiwanda Intertie @ Station 211 + 47. Tom Dodson & Associates (TDA) completed the necessary CEQA documentation for permitting the projects in August and a public hearing was held September 17, 2003. No public comments were received.

- The Redevelopment of the two existing MWD turnouts and development of a new turnout from the Etiwanda Intertie @ location 200+47 was announced for bid December 2, 2003.
- Bid was opened on January 29, 2004 and awarded to Griffith Construction Co. on February 4, 2004
- The construction period is for 150 calendar days.

It has been determined that connections at CB Turnouts No. 11T and 15T can be made without shutdown of the Foothill Feeder Pipeline. However, the Etiwanda Intertie @ Station 211 + 47 will need to be coordinated with shutdown of the Intertie in April 2003, allowing for tapping the line and tie-in.

Bid Package No. 7 (Budget \$3,140,000)

This bid package is a "catch-all" bid package. Depending upon the bids received on the above bid packages, the CBFIP Committee will prioritize the remaining projects, keeping the ultimate CBFIP within budget.

- Announcement of Bid Package No. 7, will be in March 2004, a courtesy tour of the prioritized construction sites will be conducted. The scheduled bid opening is May 2004, and award of contract is anticipated June 2004.
- The projects and the percentage of the design that is completed are listed by priority as follows:

Project	Design	Estimated Cost
1. RP-3 Mitigation Project, Cell #2	50% complete	\$ 500,000
2. Victoria Basin (excavation will be deleted)	100% complete	\$ 500,000
3. Upland Basin	90% complete	\$ 900,000
4. Hickory Basin improvements	20% complete	\$1,000,000
5. Banana Basin discharge	100% complete	\$ 70,000
6. Portable pump	100% complete	\$ 100,000
7. San Sevaine channel bridge** @ Hickory Basin	100% complete	\$ 75,000
<u>Deferred Projects</u>		
8. Etiwanda Conservation Basins (Ponds)	5% complete	\$1,500,000

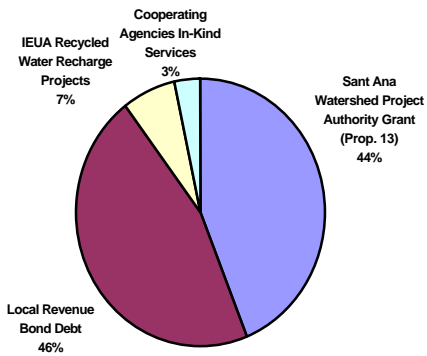
** The San Sevaine channel bridge structure at Hickory Basin was designed at the request of the SBCFCD for easier access to their basin.

- Victoria Basin - Windrow Earth Transport Contract (WET)
- Dispatch Trucking, a subsidiary of WET, will remove the 200,000 cubic yards of soil from RP-3 which will save an estimated \$1,200,000 and also remove 100,000 cubic yards from Victoria Basin which will save \$600,000. Permits for earth work in Victoria Basin have been issued by the SBCFCD and earth removal is underway. Through February 26, 2004, 120,000 cubic yards or 40 percent has been removed.

CBFIP Active Projects Construction Schedule

ID	Project Name	2003												2004											
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			
1	Bid Package No. 1	[Active]												[Active]											
2	Bid Package No. 2	[Active]												[Active]											
3	Bid Package No. 3	[Active]												[Active]											
4	Bid Package No. 4	[Active]												[Active]											
5	Bid Package No. 5	[Active]												[Active]											
6	Bid Package No. 6	[Active]												[Active]											
7	Bid Package No. 7	[Active]												[Active]											

Project Financing



- Santa Ana Watershed Authority Grant (Prop. 13) \$19 Million
- Local revenue bond debt \$20 Million
- Cooperating Agencies in-kind Services \$1.5 Million

Projected vs. Actual Costs

