

Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: May 30, 2017**

During Inland Empire Utilities Agency’s asset review of the existing Supervisory Control & Data Acquisition (SCADA) system, a thorough and comprehensive evaluation of the recycled water (RW) and groundwater recharge (GWR) control system was conducted. A Master Plan was developed; and it recommended critical upgrades to the RW and GWR SCADA systems. The purpose of this project is to provide control system improvements to sustain and support the continued growth of the RW and GWR programs. Under this project, five recharge basins which operate a rubber dam system will be replaced with newer, reliable and fully supported programmable logic controllers (PLCs). The current PLCs are outdated and lack critical product and technical support. The upgrade will extend the site’s reliability by 10 years and provide the initial development model when transitioning other sites to newer controllers.

Schedule:

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$892,000		\$539,464		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11	02/24/14	Completed	\$450	\$422
Design	02/26/14	01/15/16	Completed	\$192,312	\$186,512
Permits	09/12/14	01/15/16	Completed	\$50	\$42
Bid and Award	01/18/16	04/20/16	Completed	\$4,000	\$3,461
Construction*	04/21/16	06/30/17	In Progress	\$413,678	\$349,027
				<u>\$610,490</u>	<u>\$539,464</u>

*Received bids reduced projected construction cost.

Grant/Loan Update:

Awarded a \$139,650 grant and a 1% interest 30-year loan at \$740,145 from the Santa Ana Project Water Authority and Clean Water State Revolving Fund loan program respectively.

Cost Sharing Document: Task Order No. 4 of the Master Agreement of 2014

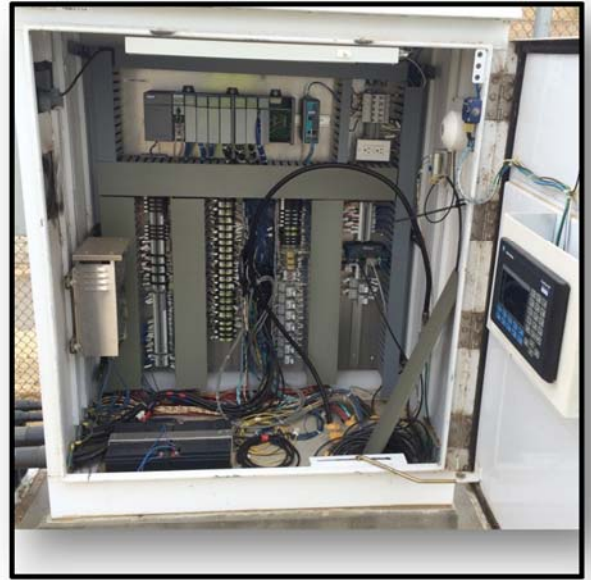
Project Update:

Since last month’s update, there has been no changes to the schedule. The schedule is to complete display testing and begin installation and testing of new controllers in late May and early June. IEUA will report if there are any further delays. This extended schedule has not resulted in any impact to current budget.

Project Photos:



San Sevaine Turnout control panel



Turner Basin control panel



UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN
PROJECT NO. RW15002
STATUS UPDATE: May 30, 2017

The purpose of the Habitat Conservation Plan (HCP) is to investigate and develop a plan to offset the biological impact of future water and recharge improvement projects in the Chino Basin area that have the potential to affect federally-listed endangered, threatened or special status species. This project will be a part of a regional plan with other proposed projects within the Upper Santa Ana River Region. The goal of the project is to identify, in advance, sites that may require biological offset/mitigation and avoid permitting delays on future RMPU projects or other identified recharge improvement projects.

Schedule:

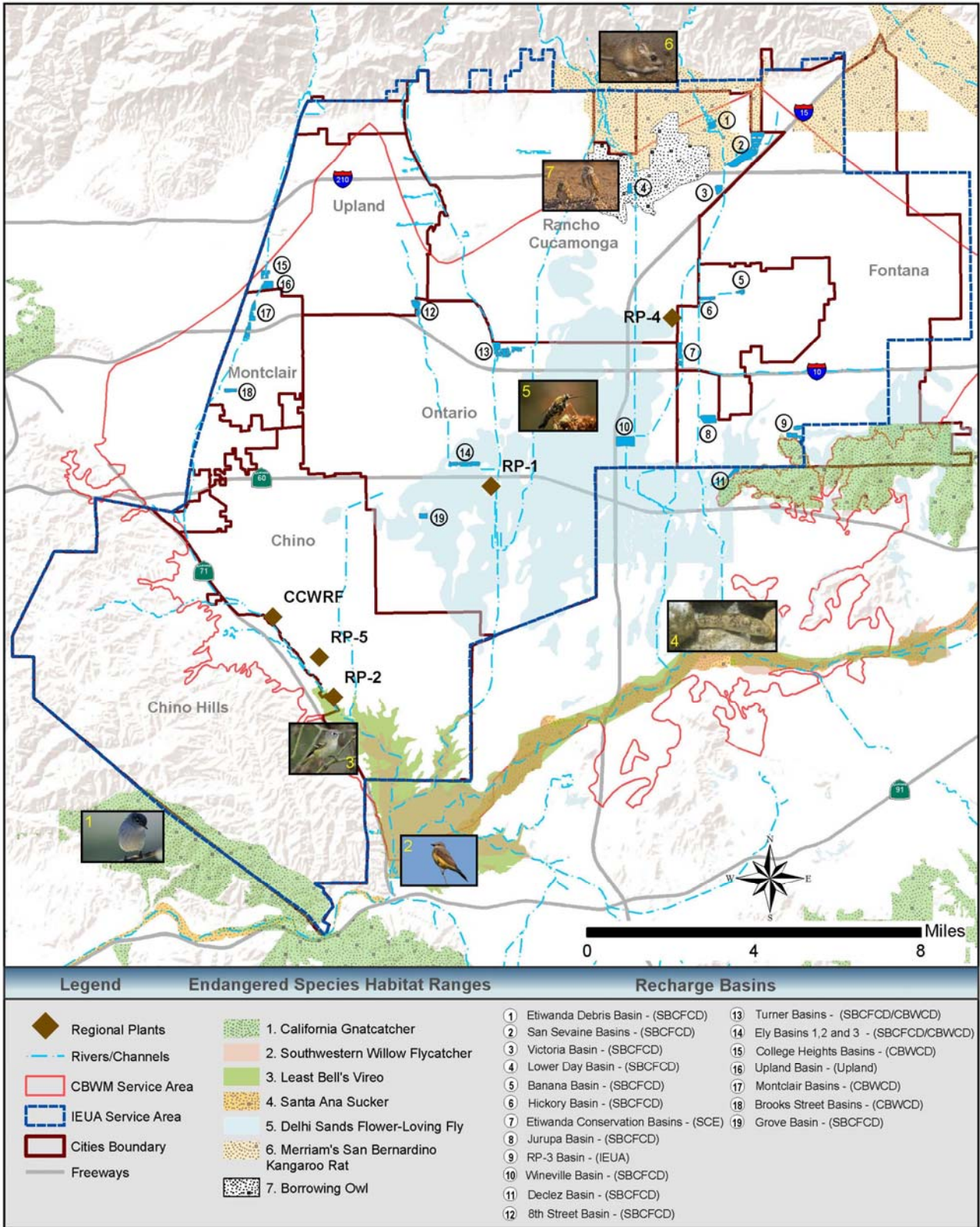
<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$160,000	\$119,874

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Investigate/Plan	07/01/14	06/30/18	In Progress	\$160,000	\$119,874
				\$160,000	\$119,874

Cost Sharing Document: Task Order No. 7 of the Master Agreement of 2014

Project Update:

Since last month's update, there has been no new progress to report except for having Wildermuth Environmental provide additional engineering support to update its WLAM (flow model) which is being referenced by the HCP study. The update to WEI's flow model use the latest diversion assumptions from the RMPU projects.



RMPU PROJECTS



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SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: May 30, 2017

As part of the 2013 Amendment to the 2010 Recharge Master Plan Update (RMPU), this Project will evaluate, design, and construct basin improvements needed to maximize infiltration and recharge capture at the San Sevaire Basins. The final recommendation from the preliminary development report proposes to implement: (1) a new stormwater / recycled water pump station in Basin 5, (2) directly tying it into an existing RW pipeline, (3) place new pipelines and headwalls into Basins 1, 2, and 3, and (4) install monitoring wells and lysimeters. The proposed improvements will add 642 acre-feet per year of stormwater and 4,100 acre-feet per year of recycled water for groundwater recharge.

Schedule:

<u>Project Budget</u> \$6,295,000	<u>Actual Cost to Date</u> \$734,846
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<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Pre-design	10/01/12	05/14/15	Completed	\$160,000	\$159,833
Environmental Impact	06/26/13	01/20/16	Completed	\$30,000	\$24,218
Design	05/15/15	12/12/16	Completed	\$500,000	\$453,911
Permits	05/15/13	05/01/17	In Progress	\$25,000	\$25,000
Bid and Award	12/13/16	09/20/17	In Progress	\$5,000	\$5,000
Construction	09/21/17	09/21/18	Not Started	\$5,740,000	\$66,884
				\$6,460,000	\$734,846

Grant/Loan Update:

Awarded a \$750,000 state grant from the Department of Water Resources through the Santa Ana Watershed Project Authority as part of Proposition 84 and a \$375,000 federal grant from the US Bureau of Reclamation.

Cost Sharing Document:

- Task Order No. 8 of the Master Agreement of 2014 (August, 2014)
- 1st Amendment Task Order No. 8 of the Master Agreement of 2014 (April, 2015)

Project Update:

As mentioned last month, Construction bidding started on March 14 with an expected closing date of May 30, 2017 and a potential award date of September 2017. Since then, the Bid period was pushed to June 29 to address the proposed construction concerns at the basin slopes. Current permit conditions with the Flood Control District restrict any damage to their native

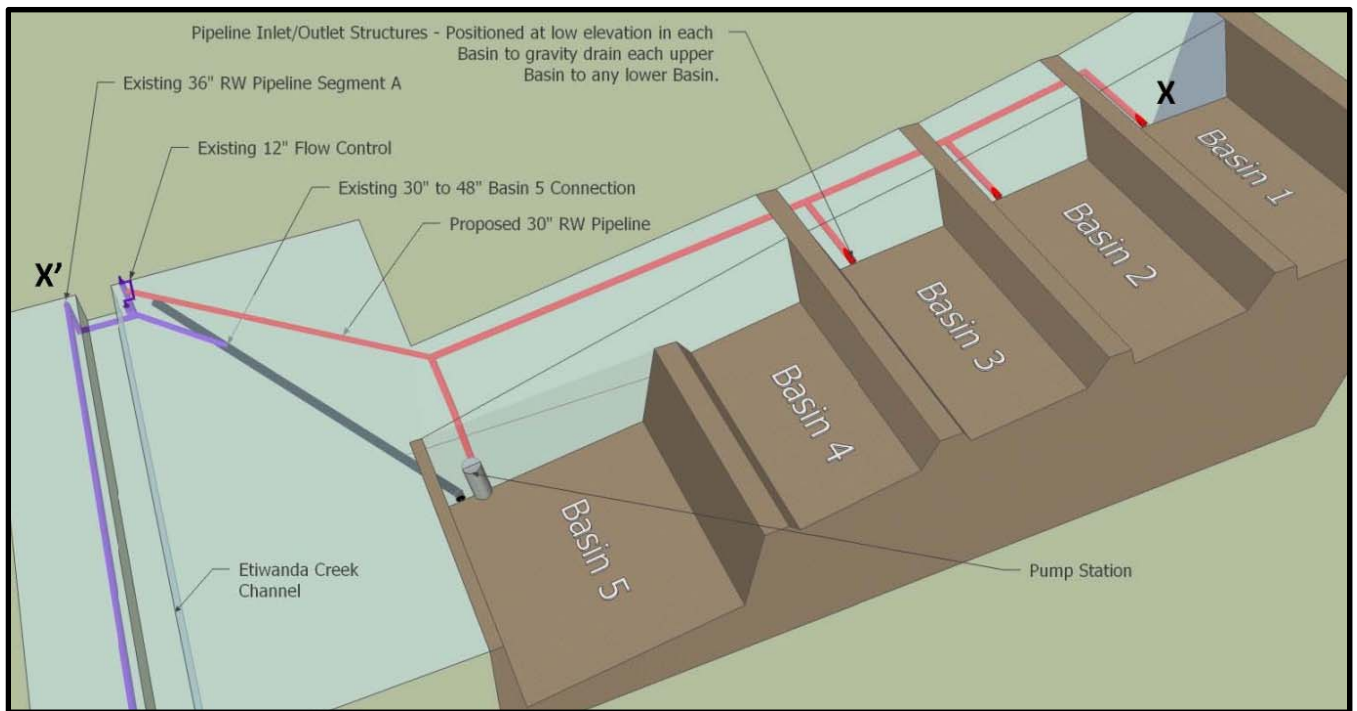
plants which are on mitigated land. Discussions are in progress to reduce the restrictions by allowing restoration effort if mitigated areas will be disturbed.

The extended award date is due to coordinate the construction award date with the expected SRF loan which is expected to be finalized in August 2017.

In the meantime, an amendment to the current Task Order is under way for review and board approval. This amendment will incorporate the latest grant award for the US Bureau of Reclamation, however, it does not include the anticipated grant pending in August.

This project also includes the construction of the monitoring well which is being designed, bid, and constructed in parallel to the basin improvement. Currently, the project is out for public bid. Bids are scheduled to be closed on June 1.

Conceptual Design:



Isometric View of the Recommended Basin Improvement
Pump Station in Basin 5 and Extension of the Recycled Water Pipeline to Basins 1, 2, and 3



**POST 2014 STORMWATER RECHARGE PROGRAM
PROJECT NOS. RW15003.00/RW15004.00/EN18007.00
STATUS UPDATE: May 30, 2017**

On November 17, 2016, the Watermaster Board approved the “Post 2014 Stormwater Recharge Program” as part of the results and findings presented from the completed preliminary design report on the yield enhancement projects under the 2013 Amendment to the 2010 Recharge Master Plan Update. The following are the projects under the “Post 2014 Stormwater Recharge Program” that are recommended for final design, bid and construction:

ID	Basin Projects	Post 2014 Stormwater Recharge Program ⁽²⁾	Initial Yield		Updated Yield ⁽¹⁾	
			SW	RW	SW	RW
			acre-feet per year			
18a	CSI Storm ⁽³⁾ Water Basin	New storage and recharge facility by deepening basin	81	-	100	-
23a	Wineville, Jurupa, and RP3	Improve storage and recharge capacity with pumps/conveyance systems between basins and provide new diversion structures	3,166	2,905	2,921	2,905
11	Victoria Basin	Improve the infiltration rate and increase storage by removing settled deposits	43	120	75	120
12	Lower Day Basin	Increase stormwater diversion and basin storage	789	-	993	-
2	Montclair Basins	Increase storage and recharge capacity by directing more channel flow	248	-	96	-
			4,327	3,025	4,185	3,025

- (1) Updated to reflect new values as calculated after the completion of the PDR
- (2) San Sevaine Basin Improvement project is a part of the “Post 2014 Stormwater Recharge Program” but it is not list here for it has its own status update sheet.
- (3) 18a pending agreement with CSI

Schedule:

<u>Soft Cost Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>
Project Development	07/01/14	12/17/14	Completed	\$42,000
Preliminary Design	12/18/14	11/16/16	Completed	\$635,100
Environmental	12/18/14	04/20/16	In Progress	\$253,900
Permits	12/18/14	01/08/18	Not Started	\$1,862,600
Design	06/22/17	03/12/18	Not Started	\$342,200
Bid and Award	03/13/18	06/20/18	Not Started	\$36,200
Construction	06/22/18	12/31/20	Not Started	\$20,015,800
				\$23,187,800

Grant/Loan Update:

Received a \$300K grant award from the US Bureau of Reclamation for the RP-3 Basin Improvement and received an award notice for nearly \$8.3 million from SWRCB for the 23a project. IEUA is waiting for a response on the following applied grants:

- USBR Water Use Efficiency's \$750,000 grant (Wineville/Distribution System)
- USBR Drought Resiliency's \$726,500 grant (Jurupa Basin Project)

Deferred Projects:

As of November 17, 2016, Watermaster stakeholders updated the list of deferred RMPU project. The past or pending expenses associated to each project during the project development, preliminary design, and environmental phases are show below:

Declez Basin (PID 27)	
Phases	Expenses (past/pending)
Project Development	\$2,600
Preliminary Design	\$71,000
Environmental	\$31,400
Total	\$105,000

Turner Basin (PID 14)	
Phases	Expenses (past/pending)
Project Development	\$1,000
Preliminary Design	\$28,400
Environmental	\$12,600
Total	\$42,000

Ely Basin (PID 15a)	
Phases	Expenses (past/pending)
Project Development	\$5,900
Preliminary Design	\$159,600
Environmental	\$70,500
Total	\$236,000

East Declez (Feasibility Study Only)	
Phases	Expenses (past/pending)
Project Development	\$114,000
Total	\$114,000

Cost Sharing Document:

- Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 1st Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2nd Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2nd Amendment Task Order No. 1 of the Master Agreement of 2014 (Deferred Projects)
- Task Order No. 2 of the Master Agreement of 2014 (PID 12)
- 1st Amendment Task Order No. 2 of the Master Agreement of 2014 (PID 12)
- Task Order No. 9 of the Master Agreement of 2014 (PID 23a)
- Task Order No. 10 of the Master Agreement of 2014 (PID 11)
- Task Order No. 11 of the Master Agreement of 2014 (PID 2)

Overview of Task Orders' cost sharing amount with grants:

Deferred Projects (Task Order No.1)	Total
Watermaster	\$497,000
IEUA	\$0
Total	\$497,000

Lower Day Basin (Task Oder No. 2)	Total
Watermaster	\$2,883,000
IEUA	\$0
Grant Funding	\$1,125,000
Total	\$4,008,000

PID 23a (Task Order No. 9)	Total
Watermaster	\$7,554,135
IEUA	\$387,315
SWRCB Grant	\$8,241,450
USBR Grant	\$300,000
Total	\$16,482,900

Victoria Basin (Task Order No. 10)	Total
Watermaster	\$84,400
IEUA	\$84,400
Total	\$168,800

Montclair Basin (Task Order No. 11)	Total
Watermaster	\$1,788,100
IEUA	\$0
Total	\$1,788,100

CSI Basin (Task Order No. 12)	Total
Watermaster	\$740,000
IEUA	\$0
<i>CSI's proposed share</i>	<i>\$226,000</i>
Total	\$966,000

CSI Basin Task Order
 Task Order pending approval. Design efforts will not proceed without an executed task order.

Project Update:

- 1) For the projects that were authorized for final design, bid, and construction, separate task orders for each project was requested to be created. This action will amend the current task to account for the cost incurred on the deferred projects. Lower Day status update will be consolidated into this sheet.
- 2) In process of awarding the design services.
- 3) Future updates will include full project expenses. IEUA is still in the process of breakout cost after the projects were requested to be separate into individual task orders.