

# Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES  
PROJECT NO. EN14047  
STATUS UPDATE: APRIL 1, 2019**

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 The current PLCs are outdated and lack critical product and technical support.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		\$774,936		
<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	\$422	\$422
Design	02/26/14	01/15/16	Completed	\$186,512	\$186,512
Permits	09/12/14	01/15/16	Completed	\$42	\$42
Bid and Award	01/18/16	04/20/16	Completed	\$3,461	\$3,461
Construction**	04/21/16	04/30/18	In Progress	\$570,000	\$584,499
				<u>\$760,437</u>	<u>\$774,936</u>

\*Projected cost was increased but remains below the project budget of \$892,000.

**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:**

Project completed. Finalizing cost share.

**Project Photos:**



San Sevaine Turnout control panel



Rubber Dam control panel



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**UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN**  
**PROJECT NO. RW15002**  
**STATUS UPDATE: April 1, 2019**

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.

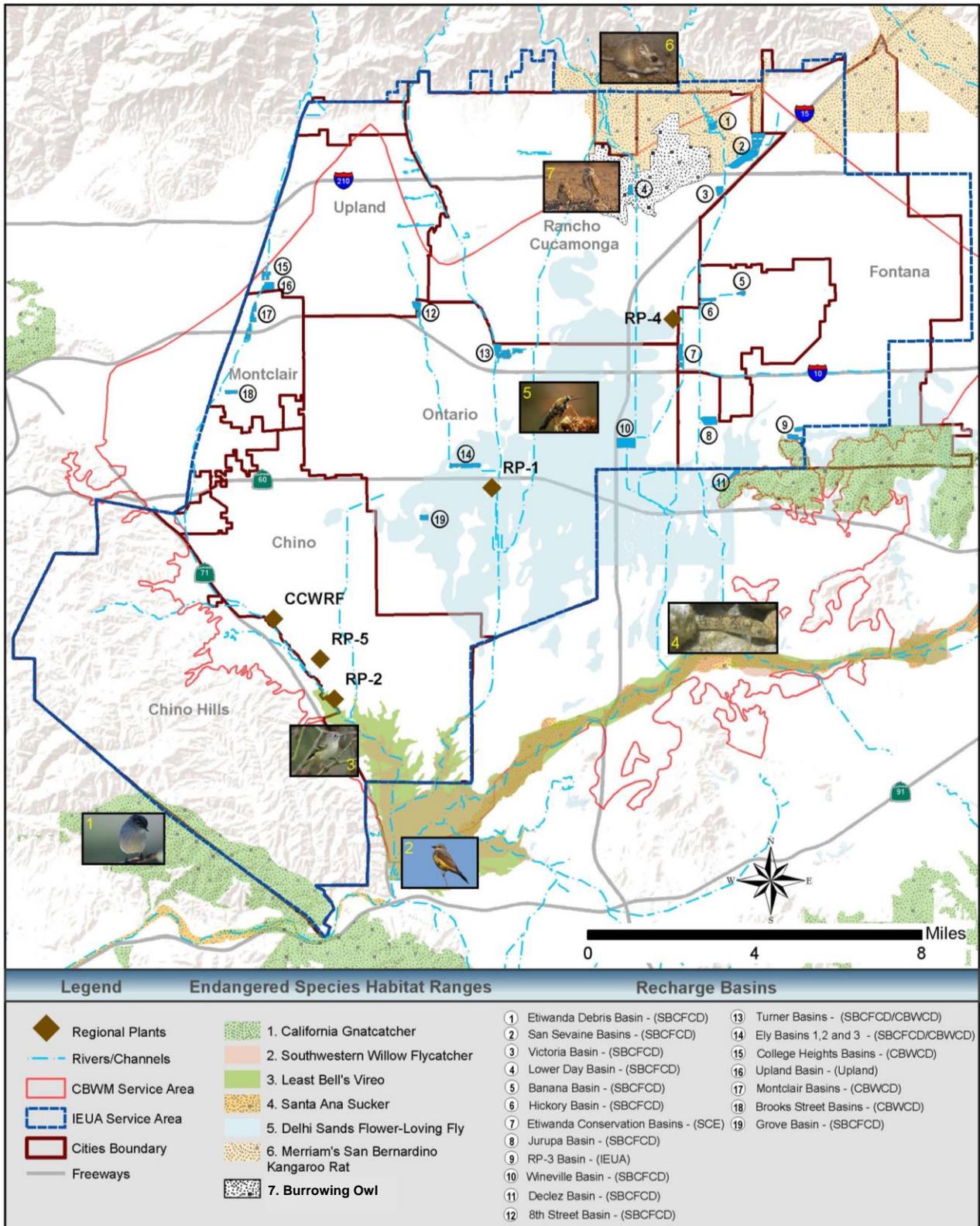
**Schedule:**

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$160,000		\$149,000		
<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	12/31/19	In Progress	\$160,000	\$149,000
				\$160,000	\$149,000

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

**Project Update:**

Integrated modeling work is still underway. WEI has submitted comments on TMs 1,2,4. Ron Craig is joining the IEUA team to assist with technical program discussions with upper watershed agencies. Valley District released the Notice of preparation of PEIR and held a public meeting on January 8<sup>th</sup>.



# RMPU PROJECTS



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**SAN SEVAINE IMPROVEMENTS PROJECT**  
**PROJECT NO. EN13001**  
**STATUS UPDATE: APRIL 1, 2019**

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> \$6,460,000	<u>Actual Cost to Date</u> \$5,956,208
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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	\$159,898
Environmental Impact	06/26/13	01/20/16	Completed	\$30,000	\$24,283
Design	05/15/15	12/12/16	Completed	\$500,000	\$555,899
Permits	05/15/13	01/31/18	Completed	\$25,000	\$25,000
Bid and Award	12/13/16	09/20/17	Completed	\$5,000	\$5,000
Construction	09/21/17	06/30/19	In Progress	\$5,740,000	\$5,186,128
				\$6,460,000	\$5,956,208

**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. Awarded Clean Water State Revolving Fund (SRF) for the construction of the project. This awarded financing includes a \$2.5 million forgiveness grant against the principal.

**Cost Sharing Document:**

- Task Order No. 8 of the Master Agreement of 2014 (August 2014)
- 1<sup>st</sup> Amendment Task Order No. 8 of the Master Agreement of 2014 (April 2015)
- 2<sup>nd</sup> Amendment Task Order No. 8 of the Master Agreement of 2014 (May 2017)

**Project Update:**

- On January 31, 2019, all major construction activities were completed. The following construction contracts are closed:

- Gwinco Construction (Basin Improvement Construction)
- Yellow Jacket Drilling (Monitoring Well Construction)
- WA Rasic (Edison Conduit Construction)
- On March 19, 2019, Southern California Edison finalized power connection which allowed for permanent power to energize the new improvements. Prior to this testing of the system was done with portable generators.
- On March 28, 2019, Santa Ana Watershed Project Authority (SAWPA) and Department of Water Resources visited the facility to tour and inspect the completed project.
- During and after testing of the pump station system, the new facility was able to convey stored stormwater from Basin 5 to the upper basins, Basin 1 and Basin 2. The estimated volume of additional stormwater for groundwater recharged was 30 to 35 acre-feet. The conveyance activities were limited during the heavy rain events because of no availability to permanent power with Edison until after March 19<sup>th</sup>.
- Engineering staff is addressing the following minor tasks before finalizing the transfers of the new facility to the Groundwater Recharge operation team:
  - Clear out debris and sand from the wet well of the new pump station – past heavy rains deposited large volume of sand and rock into the well. This will also provide an initial condition assessment of the system after full use.
  - Secure the low-level float switch within the wet well – the design and installation did not account for securing the float. The unsecured float provided false low water indication when the wet well experienced high flows in running both pumps.
  - Conduct minor earthwork activities by adjusting the surfaces of the existing access road to better redirect runoff from the new improvements. The existing surfaces are allowing runoff to pool around the monitoring well head. This will also include restoring slopes that were eroded during the heavy rains.
  - Consolidate into the new improvement the previous control system which monitored basin water levels. This was not done under the construction contracts because it required permanent power which was not available before the contracts were completed. IEUA staff will likely perform this work which will include removing the previous PLC system and solar panels and doing minor wiring work.
- The final construction date was moved to June 30, 2019 to address the above minor activities and to close out all cost for the project.

**Construction Activities Photos:**



**Completed Stormwater Outlet Structure in Basin 3**



**Full operation of pump system - Outlet Structure in Basin 2**



**Completed Lysimeter System at Basin 2**



**Completed RW Turnout**



**Completed Pump Control Panels**



**Installed Edison Transformer**

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**POST 2014 STORMWATER RECHARGE PROGRAM  
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00  
STATUS UPDATE: APRIL 1, 2019**

“Post 2014 Stormwater Recharge Program” recommended for final design, bid and construction:

PID	Basin Projects	Post 2014 Stormwater Recharge Program <sup>(2)</sup>	Initial Yield		Updated Yield <sup>(1)</sup>	
			SW	RW	SW	RW
			acre-feet per year			
12	Lower Day Basin	Increase stormwater diversion and basin storage	789	-	993	-
11	Victoria Basin	Improve the infiltration rate and increase storage by removing settled deposits	43	120	75	120
2	Montclair Basins	Increase storage and recharge capacity by directing more channel flow	248	-	96	-
18a	CSI Basin <sup>(3)</sup>	New storage and recharge facility by deepening basin	81	-	-	-
23a	Wineville, Jurupa, RP3 & Force Main	Improve storage and recharge capacity with pumps/conveyance systems between basins and provide new diversion structures	3,166	2,905	2,921	2,905
<b>Total</b>			<b>4,327</b>	<b>3,025</b>	<b>4,085</b>	<b>3,025</b>

- (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 listed here for it has its own status update sheet.
- (3) 18a (CSI) removed from the list of ongoing RMPU projects. Yield value of 100 AFY is removed.

**Project Budget:**

Project Budget  
\$23,007,817

Actual Cost to Date  
\$3,746,826

	RMPU Projects	Total Project Cost	Actual Cost (to date)	
Ongoing Projects	Lower Day Basin (PID 12)	\$4,008,000	\$517,512	
	Victoria Basin (PID 11)	\$168,800	\$168,800	
	Montclair Basins (PID 2)	\$1,788,100	\$336,730	
	RP-3 Basin	(23a)	\$1,486,700	\$470,017
	Wineville Basin		\$14,996,200	\$2,054,549
	Jurupa Basin			
	Wineville/Jurupa Force Main			
Deferred Projects	East Declaz (Non RMPU Project)	\$114,000	\$112,445	
	Declaz Basin (PID 27)	\$105,000	\$6,513	
	Turner Basin (PID 14)	\$42,000	\$2,605	
	Ely Basin (PID 15a)	\$236,000	\$14,638	
	CSI Basin (PID 18a)	\$63,017	\$63,017	
<b>Total</b>		<b>\$23,007,817</b>	<b>\$3,746,826</b>	

**Cost Sharing Documents:**

<b>Lower Day Basin – PID 12 (Task Order No. 2)</b>	
Watermaster's Share	\$2,883,000
IEUA's Share	\$0
Grant Funding	\$1,125,000
<b>Sub-Total</b>	<b>\$4,008,000</b>
<b>Victoria Basin – PID 11 (Task Order No. 10)</b>	
Watermaster's Share	\$84,400
IEUA's Share	\$84,400
<b>Sub-Total</b>	<b>\$168,800</b>
<b>Montclair Basin – PID 2 (Task Order No. 11)</b>	
Watermaster's Share	\$1,788,100
IEUA's Share	\$0
<b>Sub-Total</b>	<b>\$1,788,100</b>
<b>Wineville/Jurupa/RP3/Force Main – PID 23a (Task Order No. 9)</b>	
Watermaster's Share	\$7,554,135
IEUA's Share	\$387,315
SWRCB Grant	\$8,241,450
USBR Grant	\$300,000
<b>Sub-Total</b>	<b>\$16,482,900</b>
<b>East Declez/Declez – PID 27 /Turner – PID 27/Ely PID – 15a (Task Order No.1)</b>	
Watermaster's Share	\$497,000
IEUA's Share	\$0
<b>Sub-Total</b>	<b>\$497,000</b>
<b>CSI Basin (Task Order PENDING)</b>	
Watermaster's Share	\$63,017
IEUA's Share	\$0
<b>Sub-Total</b>	<b>\$63,017</b>
<b>Total</b>	<b>23,007,817</b>

**Grant/Loan Update:**

<b>RMPU Projects</b>	<b>Total Project Cost</b>	<b>Funding Program</b>	<b>Grant Amount</b>
Lower Day Basin (PID 12)	\$4,008,000	Grant Prop. 84 DWR/SAWPA	\$750,000
		USBR	\$375,000
Victoria Basin (PID 11)	\$168,800		
Montclair Basins (PID 2)	\$1,788,100	Pending	
RP-3 Basin	\$1,486,700	SWRCB – Stormwater	\$743,350
		USBR	\$300,000
Wineville/Jurupa /Force Main	\$14,996,200	SWRCB – Stormwater	\$7,498,100
		2018 Water Smart Drought	\$750,000
<b>Total</b>	<b>\$22,447,800</b>		<b>\$10,416,450</b>

## Project Update:

- 1) The following are updates to each of the on-going RMPU projects:
  - a) Victoria Basin – Completed construction.
  - b) Wineville/Jurupa Storm Water Distribution Pipeline – Responding to final comments from the District. Preparing bidding documents.
  - c) Montclair Basin – Waiting for Army Corps review and approval. Preparing bidding documents.
  - d) Lower Day Basin – Responding to final comments from the District. Preparing bidding documents.
  
- 2) The following is an update to RMPU's RP-3 Basin Improvement Project:
  - a) Demo work completed. Excavation in progress.
  - b) The remaining Basin Improvement at RP-3 will be combined with other RMPU projects to seek more competitive pricing.

## Schedule

### Lower Day (PID 12), Wineville/Jurupa/Force main (PID 23a) & Montclair Basin (PID 2):

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	05/15/19	In Progress
Design	12/18/14	05/15/19	In Progress
Bid and Award	05/16/19	08/21/19	Not Started
Construction	08/22/19	12/22/20	Not Started

### Schedule – RP-3 Basin (PID 23a):

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	01/09/18	Completed
Design	12/18/14	12/14/17	Completed
Bid and Award	01/10/18	06/20/18	Completed
Construction	06/21/18	12/31/19	In Progress

**Schedule – Victoria Basin (PID 11):**

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	08/07/18	Completed
Design	12/18/14	08/07/18	Completed
Bid and Award	08/08/18	12/19/18	Completed
Construction	12/20/18	12/31/19	Completed