

Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: DECEMBER 23, 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 The current PLCs are outdated and lack critical product and technical support.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		\$774,979		
<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	\$584,542
				<u>\$760,437</u>	<u>\$774,979</u>

*Projected cost was adjusted to align to the total with the approved budget. However final expense may close below \$892,000.

Grant/Loan Update:

Awarded grant funds and a low interest from the Santa Ana Project Water Authority and Clean Water State Revolving Fund through Prop. 1.

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

Project Update:

Currently amending the existing Task Order No. 4 to document the completion of the project and close the task order.

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RMPU PROJECTS



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SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: DECEMBER 23, 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> \$6,169,363
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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	01/31/19	Completed	\$5,740,000	\$5,399,283
Minor Task/Warranty	02/02/19	01/31/20	In-Progress		
				\$6,460,000	\$6,169,363

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)
- 1st Amendment Task Order No. 8 of the Master Agreement of 2014 (April 2015)
- 2nd 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)
- Since major completion, Engineering staff also conducted the following additional tasks which were required to address the alluvial debris found in the basin after last season's storms:
 - Clear out debris and sand from the wet well of the new pump station – past heavy rains deposited a 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.
- Engineering staff is also conducting another remaining minor task before fully transferring the new facility to the Groundwater Recharge operations team:
 - Consolidate control system within the facility. The older system separately monitors the upper basins with an older controller system while the new system is operated with a newer control system. The old monitoring system will be merged with the new controller to maintain and operate with one controller. This was not accomplished under the main construction contracts because it required permanent power which was not available before the contracts were completed. IEUA staff will coordinate with an outside contractor to perform this work which will include removing the previous control system and solar panels and doing minor wiring work.
 - This effort is near completion.
- On December 16, 2019, the system was put to use during the early rains. Unfortunately, a pump failure resulted due to an overload condition. IEUA is addressing this matter directly with the Contractor as part of a warranty request. Further updates to follow.

Construction Activities Photos:



Completed Stormwater Inlet (Pump Station) – Adjacent to Existing Outlet Pipe (right)



Discovered Alluvial Deposits near the New Stormwater Inlet Structure



Recent Access into Pump Station Wet Well for Cleaning



Removed Alluvial Deposits within the Pump Station Wet Well (less than 1 cubic yard)



**POST 2014 STORMWATER RECHARGE PROGRAM
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00
STATUS UPDATE: DECEMBER 23, 2019**

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

PID	Basin Projects	Post 2014 Stormwater Recharge Program ⁽²⁾	Initial Yield		Updated Yield ⁽¹⁾	
			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 ⁽³⁾	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
Total			4,327	3,025	4,085	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 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
\$23,016,080

Actual Cost to Date
\$4,521,306

	RMPU Projects	Total Project Cost	Actual Cost (to date)	
Ongoing Projects	Lower Day Basin (PID 12)	\$4,008,000	\$570,716	
	Victoria Basin (PID 11)	\$176,072	\$176,072	
	Montclair Basins (PID 2)	\$1,788,100	\$243,853	
	RP-3 Basin	(23a)	\$1,486,700	\$924,543
	Wineville Basin		\$14,996,200	\$2,045,114
	Jurupa Basin			
	Wineville/Jurupa Force Main			
Deferred Projects	East Declaz (Non RMPU Project)	\$114,000	\$114,000	
	Declaz Basin (PID 27)	\$105,000	\$105,000	
	Turner Basin (PID 14)	\$42,000	\$42,000	
	Ely Basin (PID 15a)	\$236,000	\$236,000	
	CSI Basin (PID 18a)	\$64,008	\$64,008	
Total		\$23,016,080	\$4,521,306	

Cost Sharing Documents:

Lower Day Basin – PID 12 (Task Order No. 2)	
Watermaster’s Share	\$2,883,000
IEUA’s Share	\$0
Grant Funding	\$1,125,000
Sub-Total	\$4,008,000
Victoria Basin – PID 11 (Task Order No. 10)⁽⁴⁾	
Watermaster’s Share	\$88,036
IEUA’s Share	\$88,036
Sub-Total	\$176,072
Montclair Basin – PID 2 (Task Order No. 11)	
Watermaster’s Share	\$1,788,100
IEUA’s Share	\$0
Sub-Total	\$1,788,100
Wineville/Jurupa/RP3/Force Main – PID 23a (Task Order No. 9)⁽⁵⁾	
Watermaster’s Share	\$7,554,135
IEUA’s Share	\$387,315
SWRCB Grant	\$8,241,450
USBR Grant	\$300,000
Sub-Total	\$16,482,900
East Declez/Declez – PID 27 /Turner – PID 27/Ely PID – 15a (Task Order No.1)	
Watermaster’s Share	\$497,000
IEUA’s Share	\$0
Sub-Total	\$497,000
CSI Basin (Task Order PENDING)⁽⁶⁾	
Watermaster’s Share	\$64,008
IEUA’s Share	\$0
Sub-Total	\$64,008
Total	23,016,080

(4) Amending TO 10 to reflect the total project cost from the projected cost of \$168,800 to the final cost of \$176,072.

(5) Includes RP-3, Wineville, Jurupa, and Wineville-Jurupa Force Main’s total projected costs

(6) Drafting a Task Order to end the scope and finalize the final cost as \$64,008

Grant/Loan Update:

RMPU Projects	Total Project Cost	Funding Program	Grant Amount
Lower Day Basin (PID 12)	\$4,008,000	Grant Prop. 84 DWR/SAWPA	\$750,000
		USBR	\$375,000
Victoria Basin (PID 11)	\$176,072	-none-	
Montclair Basins (PID 2)	\$1,788,100	SRF Loan	
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
Total	\$22,455,072		\$10,416,450

Project Update:

- 1) The following are updates to each of the on-going RMPU projects:
 - a) **Victoria Basin** – Completed construction. Amending associated Task Order to memorialize final cost and completion.
 - b) **Wineville/Jurupa Storm Water Distribution Pipeline** – Continuing to address the delays in receiving final permits with US Army Corps of Engineers and Santa Ana Regional Water Quality Control Board. California Department of Fish and Wildlife is on hand pending final signed documents. Design is substantially complete. Waiting on mentioned permits. This will further delay the project construction bidding date to March 2020.
 - c) **Montclair Basin** – Continuing to address the extended wait for a permit with US Army Corps. The Corps recently requested and received an additional permit application for the project to cover the Section 404 requirements. This additional permitting document will further delay the project construction bidding date to March 2020.
 - d) **Lower Day Basin** –
 - i) On November 18, 2019, IEUA's Board approved and authorized the contract award to the apparent lowest bidder, Ferreira Coastal Construction Company for the amount of \$2,988,000.
 - ii) On December 11, 2019, a pre-construction meeting was conducted with Ferreira. In attendance was IEUA, Chino Basin Watermaster and San Bernardino County Flood Control District.
 - e) **RP-3 Basin Improvement** –
 - i) Demo work completed.
 - ii) Excavation is nearly completed.
 - iii) Addressing changed conditions in the field to relocate and repair an unknown electrical/control lines.
 - iv) The remaining Basin Improvement at RP-3 will be combined with other RMPU projects to seek more competitive pricing.

Schedules:

Victoria Basin (PID 11): No Schedule (Project Completed)

Wineville/Jurupa/Force main (PID 23a) & Montclair Basin (PID 2):

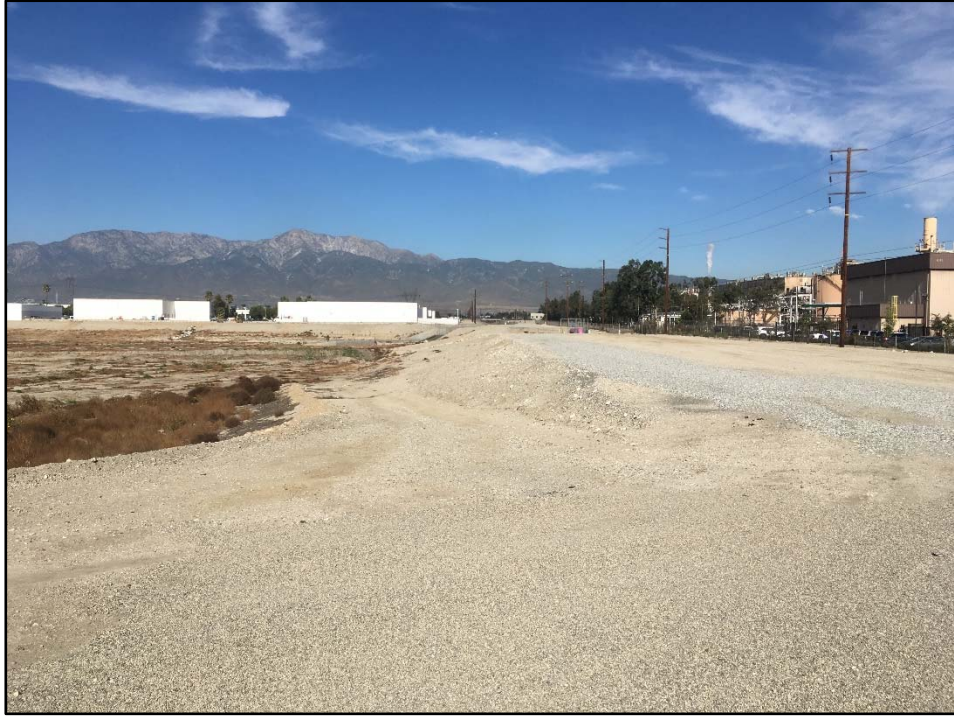
<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	02/28/20	In Progress
Design	12/18/14	06/30/19	Completed
Bid and Award	03/02/20	06/17/20	Not Started
Construction	07/31/20	12/31/21	Not Started

Lower Day (PID 12):

<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	07/19/19	Completed
Design	12/18/14	07/19/19	Completed
Bid and Award	07/19/19	12/11/19	Completed
Construction	12/11/19	12/22/20	In Progress

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	01/31/20	In Progress



Wineville – Proposed Location of Pump Station



Wineville – Proposed Location of Rubber Dam



Near Wineville - Path of New 30-Inch Pipeline



Wineville – Existing Basin Outlet



Near Jurupa Path of New 30-Inch Pipeline



Channel – Proposed Location of Diversion for Jurupa

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