

# Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES**  
**PROJECT NO. EN14047**  
**STATUS UPDATE: April 13, 2018**

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 The current PLCs are outdated and lack critical product and technical support.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		\$751,684		
<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	\$561,247
				<u>\$760,437</u>	<u>\$751,684</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:**

All major construction work is completed. IEUA staff is finalizing the “punch list” to confirm the Contractor completed all pending items before beginning close out procedures.

**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 13, 2018**

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:**

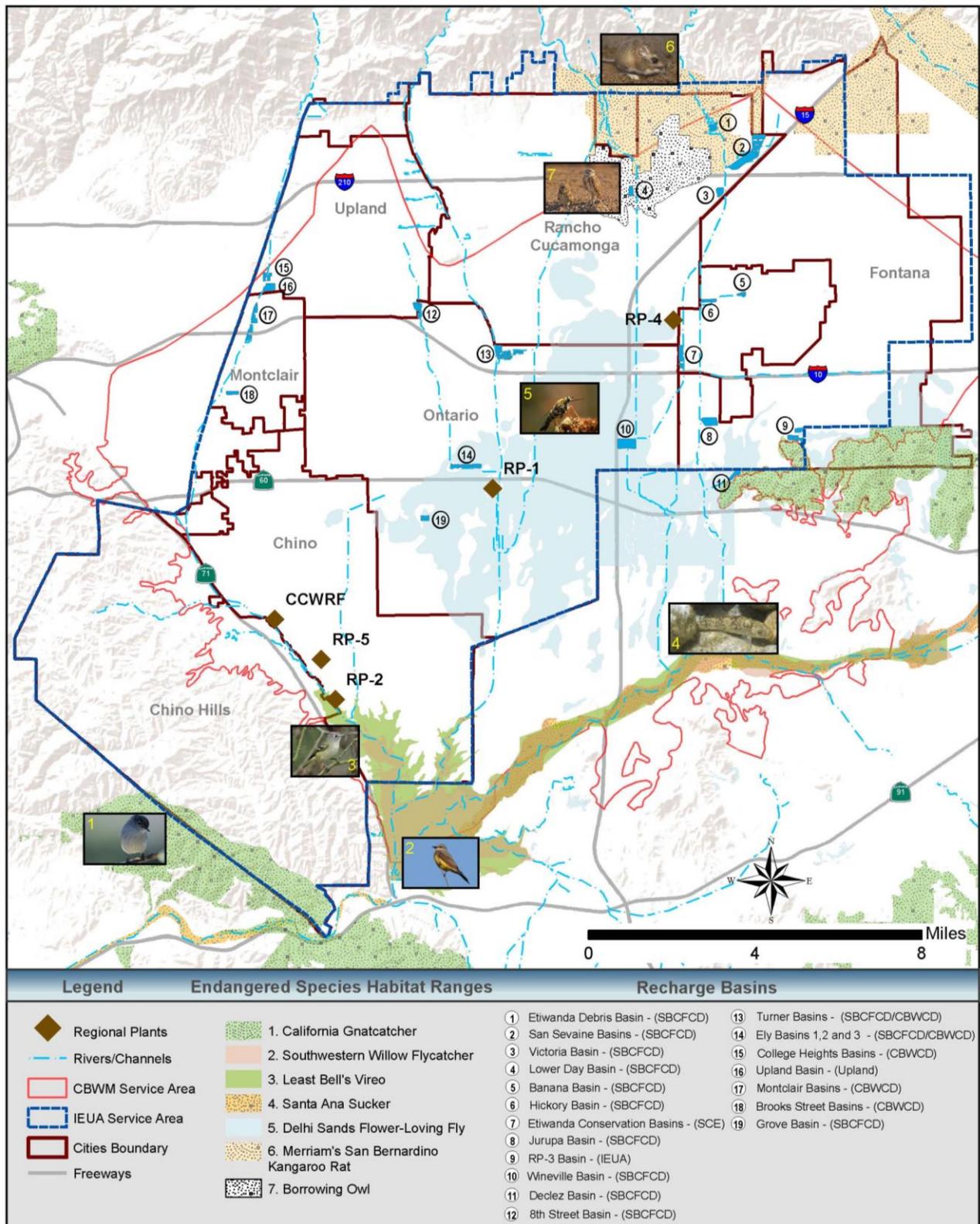
<u>Project Budget</u> \$160,000	<u>Actual Cost to Date</u> \$137,873
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<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Investigate/Plan	07/01/14	06/30/18	In Progress	\$160,000	\$137,873
				<u>\$160,000</u>	<u>\$137,873</u>

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

**Project Update:**

IEUA and Watermaster continues to work with the HCP team to complete the study by June of 2018. Further updates to follow.



# RMPU PROJECTS



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**SAN SEVAINE IMPROVEMENTS PROJECT**  
**PROJECT NO. EN13001**  
**STATUS UPDATE: April 13, 2018**

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> \$2,303,530
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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	09/21/18	In Progress	\$5,740,000	\$1,533,450
				\$6,460,000	\$2,303,530

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

**Project Update:**

- On January 4, 2018, construction activities of the basin improvements began on site. The initial activities consist of mobilizing equipment, stock piling received piping material, and preparing the areas for pipe trenching. The contractor is Gwinco Construction.

- On January 22, 2018, major pipe work began. A Native American Monitor was onsite. Local Native Americans were consulted in the planning phase as part of the AB-52 requirements to avoid or mitigate impacts to possible significant cultural resources. The Kizh Nation (Gabrieleno Band Mission Indians) responded by requesting that monitoring be part of the construction effort.
- On March 1, 2018, construction of the monitoring well near Basin 2 began. Yellow Jacket is the drilling contractor.
- On March 12, 2018, the findings from the geophysical survey of the construction of the monitoring well required an additional well to be constructed to meet monitoring requirements. The survey found shallow clay layers that may impact the performance of the deep well. Constructing an additional well nearby will allow for monitoring of shallow water levels. Secondly, recent studies on the groundwater flows show that the new monitoring well (SSV3) proposed on Cherry Avenue is not required. SSV3 well will be removed from the driller's scope. The added well near SSV2 will require additional services from the design engineer (Dudek Consultant) to design and confirm installation.
- On March 28, 2018, the drilling contractor completed the development phase of the monitoring well. This phase prepares the well for use by removing and clearing debris and mud from the construction of the well. The installation of the well pump, level transducer, and vault cover are scheduled next.

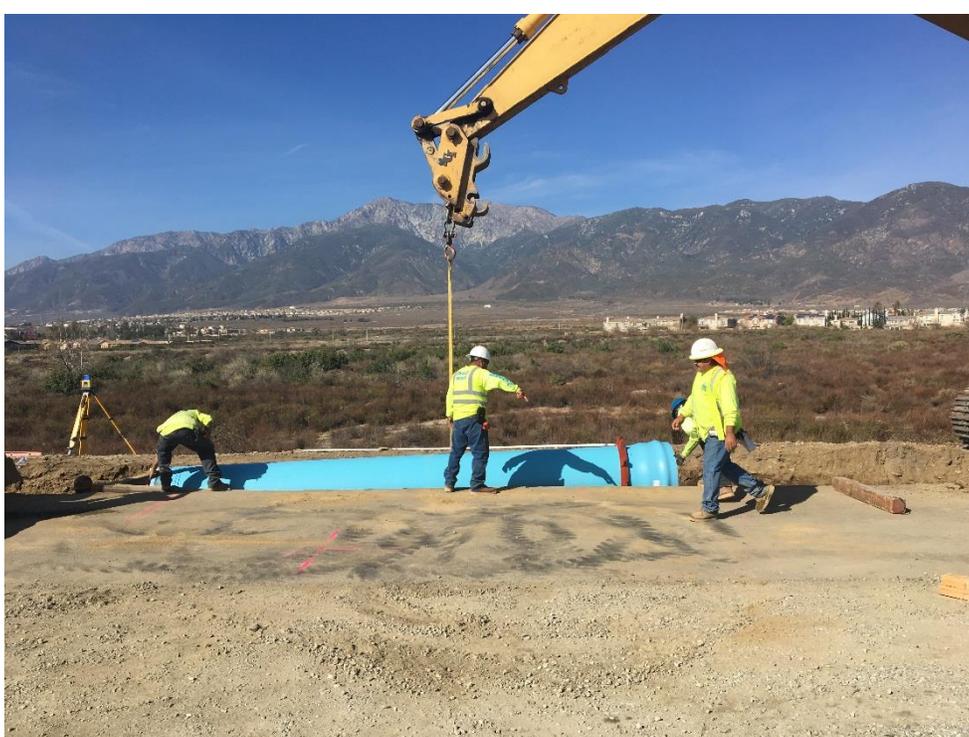
**Construction Activities Photos:**



**Open pipe trench (Contractor: Gwinco)**



**Access road area for new 30-inch PVC pipe (Contractor: Gwinco)**



**Placement of 30-inch PVC piping (Contractor: Gwinco)**



**Drilling Rig on embankment near Basin 2 (Contractor: Yellow Jacket)**



**Development phase of SSV2 well (Contractor: Yellow Jacket)**



**POST 2014 STORMWATER RECHARGE PROGRAM  
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00  
STATUS UPDATE: April 13, 2018**

The following are the projects under the “Post 2014 Stormwater Recharge Program” that are 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>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 list here for it has its own status update sheet.
- (3) 18a (CSI) removed from the list of ongoing RMPU projects. Updated yield value of 100 AFY is removed.

**Project Budget:**

Project Budget  
\$23,005,318

Actual Cost to Date  
\$2,579,957

RMPU Project	Total Projected Expenses	Actual Cost (to date)
Lower Day Basin (PID 12)	\$4,008,000	\$325,168
Victoria Basin <sup>(4)</sup> (PID 11)	\$168,800	\$24,872
Montclair Basins (PID 2)	\$1,788,100	\$175,061
RP-3 Basin <sup>(4)</sup>	\$1,486,700	\$169,197
Wineville Basin	\$14,996,200	\$1,215,837
Jurupa Basin		
Wineville/Jurupa Force Main		
<b>Total</b>	<b>\$22,447,800</b>	<b>\$1,910,136</b>

(4) Cost shared between IEUA and Watermaster

The following are the planned expenses and cost to date for deferred RMPU projects:

Project/Phase	Planned Expenses	Actual Cost (to date)
<b>East Declez</b>		
Project Development	\$114,000	\$112,829
<b>Sub-Total</b>	<b>\$114,000</b>	<b>\$112,829</b>
<b>Declez Basin (PID 27)</b>		
Project Development	\$2,600	\$2,600
Preliminary Design	\$71,000	\$3,913
Environmental	\$31,400	
<b>Sub-Total</b>	<b>\$105,000</b>	<b>\$6,513</b>
<b>Turner Basin (PID 14)</b>		
Project Development	\$1,000	\$1,000
Preliminary Design	\$28,400	\$1,605
Environmental	\$12,600	
<b>Sub-Total</b>	<b>\$42,000</b>	<b>\$2,605</b>
<b>Ely Basin (PID 15a)</b>		
Project Development	\$5,900	\$5,900
Preliminary Design	\$159,600	\$8,738
Environmental	\$70,500	
<b>Sub-Total</b>	<b>\$236,000</b>	<b>\$14,638</b>
<b>CSI Basin (PID 18a)</b>		
Project Development	\$1,000	\$1,000
Preliminary Design	\$29,000	\$29,000
Environmental	\$13,600	\$13,600
Design	\$16,918	\$16,918
<b>Sub-Total</b>	<b>\$60,518</b>	<b>\$60,518</b>
<b>Total</b>	<b>\$557,518</b>	<b>\$197,103</b>

**Grant/Loan Update:**

RMPU Project	Funding Programs	Received Grant
<b>Lower Day Basin (PID 12)</b>	Grant Prop. 84 DWR/SAWPA	\$750,000
	USBR - Grant	\$375,000
<b>RP-3 Basin (PID23a)</b>	USBR - Grant	\$300,000
	SWRCB - Stormwater Grant	\$743,350
<b>Wineville/Jurupa/Force Main (PID 23a)</b>	SWRCB - Stormwater Grant	\$7,498,100
<b>Montclair Basin (PID 2))</b>	-	-
<b>Victoria Basin (PID 11)</b>	-	-
<b>Received Total</b>		<b>\$9,666,450</b>

Seeking additional grants for Wineville/Jurupa/Force Main under 2018 USBR WaterSMART Program, \$750,000. See below for application status for the Clean Water State Revolving Fund (CWSRF).

**Cost Sharing Document:**

- Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 1<sup>st</sup> Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2<sup>nd</sup> Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2<sup>nd</sup> 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)
- 1<sup>st</sup> 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	\$60,518
IEUA	\$0
Total	\$60,518

CSI Basin Task Order  
 Task Order amendment required to remove CSI and show remaining cost (updated further)

**Project Update:**

- 1) The 85% submittals were received and reviewed in mid-February. The following are updates to each of the on-going RMPU projects:
  - a) Victoria Basin – The consulting team Carollo and Ninyo-Moore conducted a slope stability analyses and found that the existing slopes have adequate factors of safety for static,

pseudo-static, and rapid drawdown conditions based on raising water elevation within the basin. The analysis confirms that adequate slope stability and safe levee condition will be maintained for the proposed construction to increase groundwater recharge capture. The design will proceed separately from the other RMPU projects.

- b) Wineville/Jurupa Storm Water Distribution Pipeline – Concerns with Union Pacific property is no longer an issue. Review of property documents finds the existing rail road tracks (spurs) are under the responsibility of the property owners not Union Pacific. The plans are currently with the Flood Control District for review and comment. Finalizing the design plans are on hold until review comments are received.
- c) Montclair Basin – Army Corps is currently reviewing the proposed improvements, and they will provide comments by April 30, 2018. Finalizing the design plans are on hold until review comments are received.
- d) Lower Day Basin – Geotechnical review of the southern slope is in progress. This will determine if further design improvements to the slope are necessary as part the project improvement. In the meantime, the latest plans set was sent to Flood Control District for review and comment. Finalizing the design plans are on hold until review comments are received.

2) The following is an update to RMPU’s RP-3 Basin Improvement Project:

- a) From October through December, IEUA was finalizing the RP-3 bidding documents by combining the two improvement plans into one. One set focused on the demolition and excavation and the other is the improvements to the basin. The initial plan was to implement the work within the basin separately. However, it was later decided to combine the efforts into one package to make managing the contract more efficiently. Stantec prepared the demolition plans which detailed the removal of all above and below grade structures that were abandon on site. They also prepared the detail grading plans to construct a new recharge basin. Carollo prepared the final design plans to connect stormwater piping, gate, and controls (with electrical) into the newly constructed recharge basin. The plans were combine into one set for public bidding.
- b) On December 21, 2017, IEUA’s environmental consultant finalized and submitted the final finds to the RP-3. They found that no second-tier environmental document will be required over the Program IEUA which covered the CEQA requirements for RP-3 Improvements. Additional site-specific surveys (studies) submitted in December concluded no new effect could occur, or no new mitigation measures would be required. This required no new environmental documentation.
- c) On January 10, 2018, IEUA released an “invitation for bid” (IFB) on the combined RP-3 Basin Improvement Package. In order to meet the required solicitation time for the “Disadvantage Business Enterprise”, the end of bid date was set for March 22.
- d) On March 1, 2018, after speaking with a few interested bidders, they mentioned that the expected cost saving on the haul of the excavated material from the construction of the new basin is very unlikely. A majority of the bidders will have to include the cost of hauling and disposing of the excavated material. This will raise the budgeted cost above the projected budget.
- e) On March 15, 2018, IEUA released an Addendum to the IFB to extend the bid ending to April 12, 2018 which was further extended to April 17, 2018. The additional extension was to modify the bids to create three separate bid items, Demolition and Disposal of abandon

structures, Construction of the Basin Improvements, and the Excavation and Hauling of the new recharge basin. By separating the bids into three, this will allow staff to proceed on items that are within budget and hold items that may require more time to re-plan. Staff is concerned the price for the excavation and hauling will be above the project's expected limits.

- 3) CEQA Documentation Update – Last December, all CEQA required documents were completed for each of the on-going RMPU projects.
- 4) Update on seeking for Clean Water State Revolving Fund (CWSRF), loan assistance for water quality improvement project – IEUA staff submitted all required application forms to the State Water Board. IEUA met with the Board Staff in February to discuss the State's concerns on the submitted environmental documents. The following RMPU projects are still under further review with regards to the environmental documents, 23a Project (Wineville, Jurupa, and Distribution System) and Montclair Basin Improvements. These projects may be delayed for funding until Fiscal Year 19/20. In the meantime, the Lower Day Basin is moving forward and may likely received CWSRF funding for this coming fiscal year.
- 5) Regulatory Permits Update – The following three regulatory agencies: California Department of Fish & Wildlife, Santa Ana Regional Water Quality Control Board and US Army Corps of Engineers will be notified to seek their permission or approval for the proposed basin/channel improvements. These projects are within the jurisdiction of the waters of the US and have the potential impact to water quality. IEUA and Tom Dodson and Associates are preparing the required documents. IEUA staff is concerned this process may be longer than typical because of the recent findings of a delineated wet land within Wineville Basin. IEUA estimating 9 to 10 months wait. IEUA will work diligently to mitigate any delays to the project by having the review process separated to individual projects, which will hopefully allow other RMPU projects to move forward while others require more time.

**Schedule - Lower Day (PID 12) & Wineville/Jurupa/Force main (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	08/01/18	In Progress
Design	12/18/14	07/31/18	In Progress
Bid and Award	08/01/18	11/21/18	Not Started
Construction	11/22/18	12/31/19	Not Started

**Schedule – Victoria Basin (PID 11) & 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	06/12/18	In Progress
Design	12/18/14	06/11/18	In Progress
Bid and Award	06/12/18	10/17/18	Not Started
Construction	10/18/18	12/31/19	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	In-Progress
Construction	06/21/18	02/28/19	Not Started