Non-RMPU Ongoing Projects

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GWR AND RW SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: JULY 2, 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 The current PLCs are outdated and lack critical product and technical support.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:

Project Budget	Actual Cost to Date
$892,000	$774,979

Phase	Start	Finish	Status	Projected Cost	Actual Cost
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
				$760,437	$774,979

*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 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. IEUA continues to finalize all project costs.

Project Photos:

San Sevaine Turnout control panel

Rubber Dam control panel

UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN
PROJECT NO. RW15002
STATUS UPDATE: JULY 2, 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:

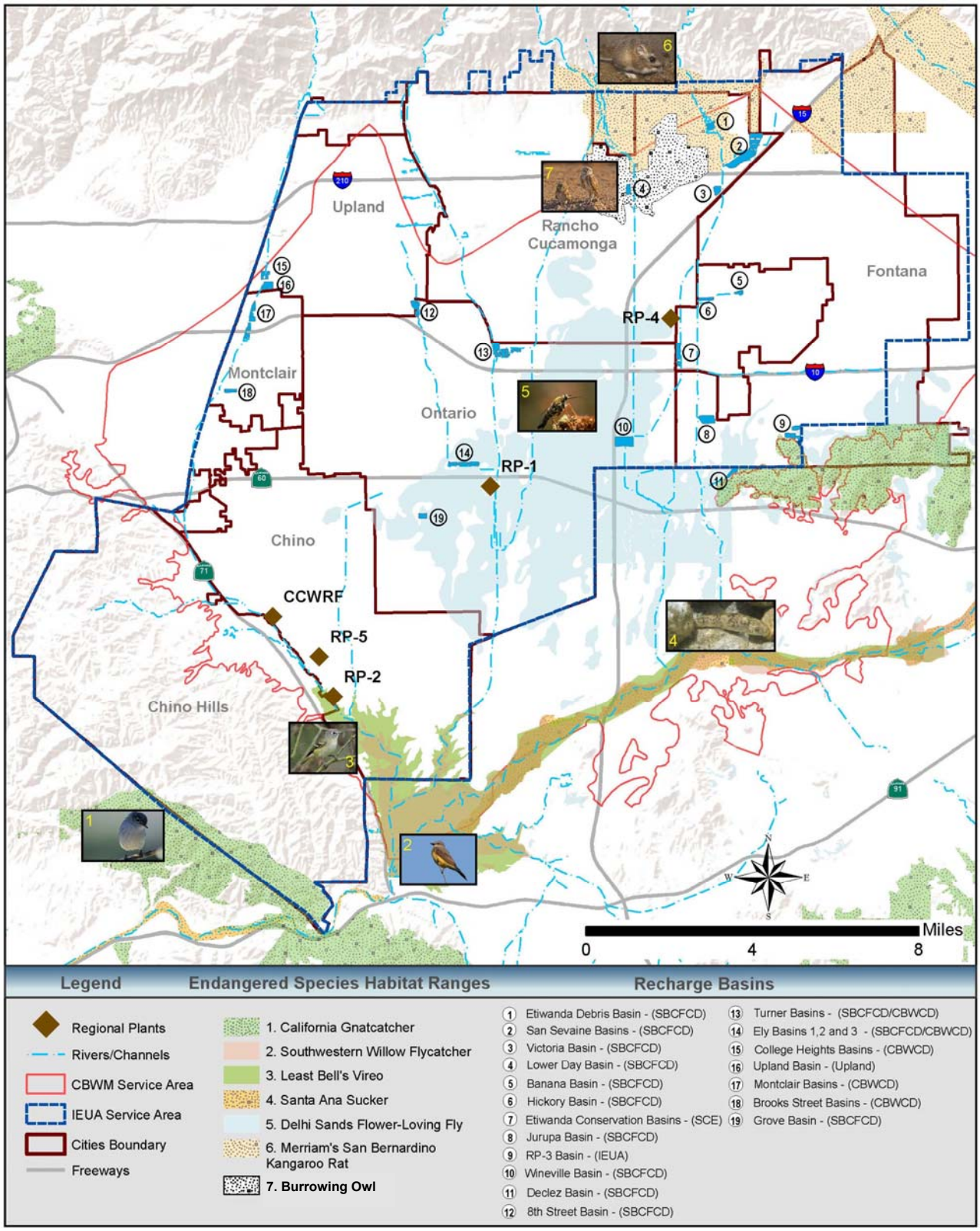
Project Budget	Actual Cost to Date
$160,000	$149,000

Phase	Start	Finish	Status	Projected Cost	Actual Cost
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:

Updates to be provided verbally.


Upland
Rancho Cucamonga
Fontana
Montclair
Ontario
Chino
Chino Hills
RP-1
RP-2
RP-4
RP-5
CCWRF
Miles
0
4
8
Legend
Regional Plants
Rivers/Channels
CBWM Service Area
IEUA Service Area
Cities Boundary
Freeways
Endangered Species Habitat Ranges
1. California Gnatcatcher
2. Southwestern Willow Flycatcher
3. Least Bell's Vireo
4. Santa Ana Sucker
5. Delhi Sands Flower-Loving Fly
6. Merriam's San Bernardino Kangaroo Rat
7. Burrowing Owl
Recharge Basins
1 Etiwanda Debris Basin - (SBCFCD)
2 San Sevaine Basins - (SBCFCD)
3 Victoria Basin - (SBCFCD)
4 Lower Day Basin - (SBCFCD)
5 Banana Basin - (SBCFCD)
6 Hickory Basin - (SBCFCD)
7 Etiwanda Conservation Basins - (SCE)
8 Jurupa Basin - (SBCFCD)
9 RP-3 Basin - (IEUA)
10 Wineville Basin - (SBCFCD)
11 Declez Basin - (SBCFCD)
12 8th Street Basin - (SBCFCD)
13 Turner Basins - (SBCFCD/CBWCD)
14 Ely Basins 1,2 and 3 - (SBCFCD/CBWCD)
15 College Heights Basins - (CBWCD)
16 Upland Basin - (Upland)
17 Montclair Basins - (CBWCD)
18 Brooks Street Basins - (CBWCD)
19 Grove Basin - (SBCFCD)

RMPU PROJECTS

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SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: JULY 2, 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 Sevaine 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:

Project Budget	Actual Cost to Date
$6,460,000	$6,072,112

Phase	Start	Finish	Status	Projected Cost	Actual Cost
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	08/31/19	In Progress	$5,740,000	$5,302,032
				$6,460,000	$6,072,112

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)

- Engineering staff continues to address the following minor tasks before fully transferring 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 August 31, 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

POST 2014 STORMWATER RECHARGE PROGRAM
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00
STATUS UPDATE: JULY 2, 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	Actual Cost to Date
$23,007,817	$5,959,052

	RMPU Projects		Total Project Cost	Actual Cost (to date)
Ongoing Projects	Lower Day Basin (PID 12)		$4,008,000	$539,742
	Victoria Basin (PID 11)		$168,800	$168,800
	Montclair Basins (PID 2)		$1,788,100	$352,955
	RP-3 Basin	(23a)	$1,486,700	$427,053
	Wineville Basin		$14,996,200	$4,271,284
	Jurupa Basin			
	Wineville/Jurupa Force Main			
Deferred Projects	East Declez (Non RMPU Project)		$114,000	$112,445
	Declez 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
	Total		**$23,007,817**	**$5,959,052**

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)	
Watermaster's Share	$84,400
IEUA's Share	$84,400
Sub-Total	**$168,800**
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)	
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)	
Watermaster's Share	$63,017
IEUA's Share	$0
Sub-Total	**$63,017**
Total	**23,007,817**

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)		$168,800		
Montclair Basins (PID 2)		$1,788,100	Pending	
RP-3 Basin	(23a)	$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		**$22,447,800**		**$10,416,450**

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 – Addressing final comments from the District. Preparing bidding documents. Preparing bidding documents by seeking pre-qualifications of bidders. The bidders list will be released prior to releasing the invitation for bids.
   c) Montclair Basin – Waiting for Army Corps review and approval. The Corps is suggesting including a Section 404 Permit to the process. IEUA accessing on how this will impact the proposed construction start date. Preparing bidding documents by seeking pre-qualifications of bidders. The bidders list will be released prior to releasing the invitation for bids.
   d) Lower Day Basin – Received Permit from the District. Preparing bidding documents by seeking pre-qualifications of bidders. The bidders list will be released prior to releasing the invitation for bids.
   e) RP-3 Basin Improvement Project:
      i) Demo work completed. Excavation in progress.
      ii) 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):

Phases	Start	Finish	Status
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	08/13/19	In Progress
Design	12/18/14	08/13/19	In Progress
Bid and Award	08/14/19	11/20/19	Not Started
Construction	11/23/19	12/22/20	Not Started

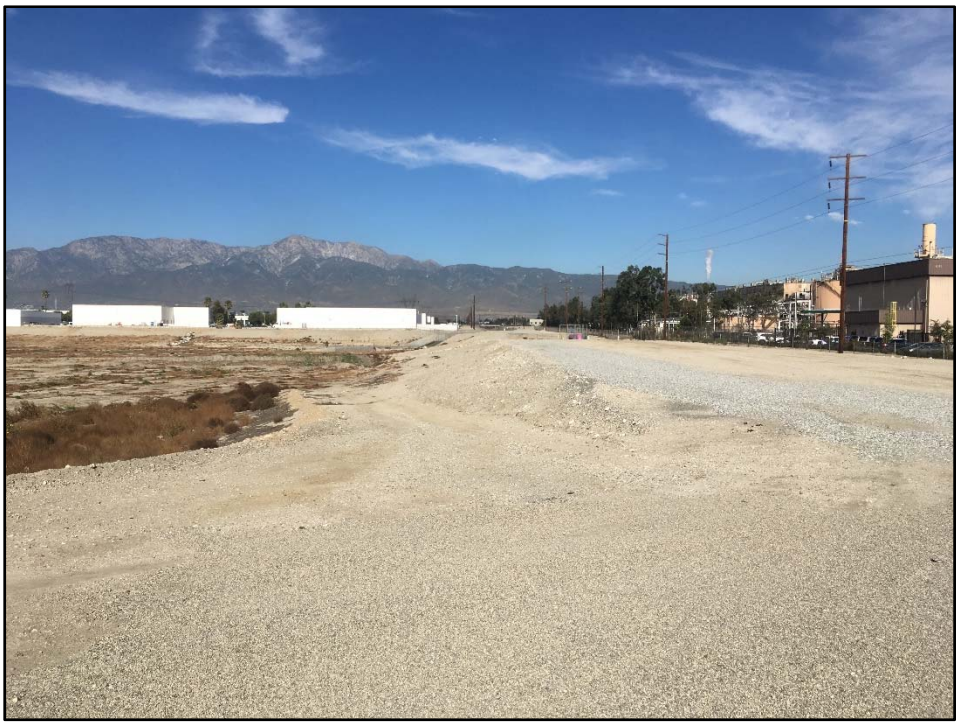
Schedule – RP-3 Basin (PID 23a):

Phases	Start	Finish	Status
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):

Phases	Start	Finish	Status
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



Wineville – Proposed Location of Pump Station

Wineville – Proposed Location of Rubber Dam

Near Winevile - 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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