

Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: JUNE 1, 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 The current PLCs are outdated and lack critical product and technical support.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		\$762,932		
<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	\$572,495
				<u>\$760,437</u>	<u>\$762,932</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 still finalizing the “punch list” to confirm the Contractor completed all pending items. Upon completion, the project will finalize all costs and close the project.

Project Photos:



San Sevaine Turnout control panel



Rubber Dam control panel



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

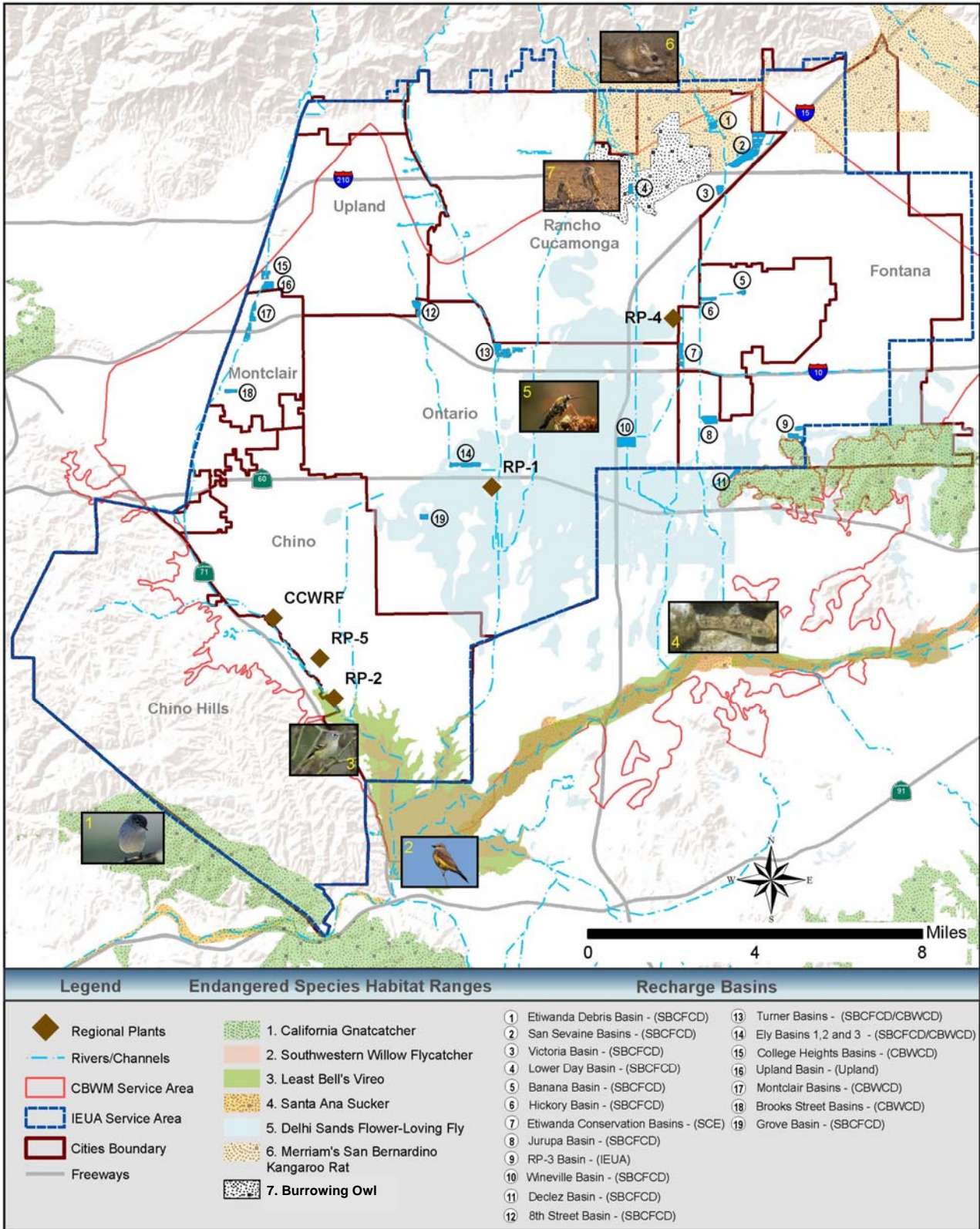
<u>Project Budget</u> \$160,000	<u>Actual Cost to Date</u> \$137,873
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<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Investigate/Plan	07/01/14	12/31/19	In Progress	\$160,000	\$137,873
				\$160,000	\$137,873

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. Per the Project Manager, the finish date is pushed to Dec. 2019 to address delays from other project partners. This delay is not expected to increase the project budget.



RMPU PROJECTS



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SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: JUNE 1, 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> \$4,048,382
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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	\$3,278,302
				\$6,460,000	\$4,048,382

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)
- 2nd Amendment Task Order No. 8 of the Master Agreement of 2014 (May 2017)

Project Update:

- Construction activities for both the basin improvement and installation of the monitoring well are in progress.

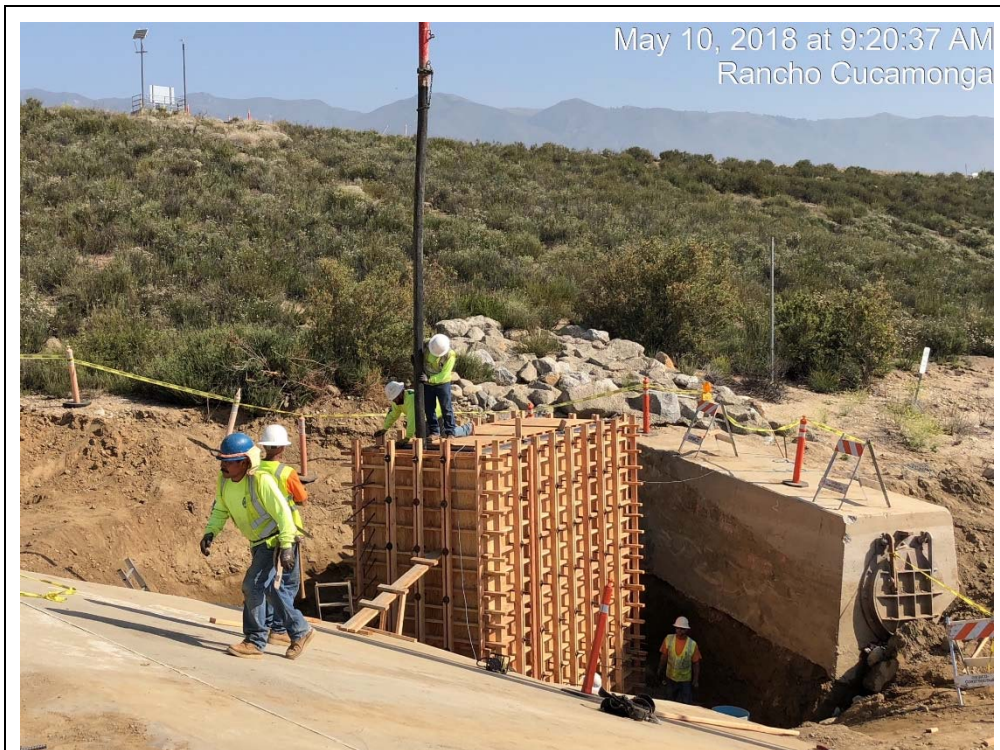
- Recently completed construction tasks: leak testing of installed pipes, placement of all buried utilities, and restoration of the asphalt cover on the access road.
- Ongoing construction to completed: the concrete stormwater inlet structure in Basin 5, the modifications to the Recycled Water Turnout, the installation of the electrical control panels, and the placement of the pump and cover for the monitoring well.
- Construction issues:
 - Extended time in receiving the final electrical plans from Southern California Edison to provide electrical power to the new improvements within the Basin, the plans are still with Edison for development and pending to be finalized. The plans are requiring a different location to connect to power. This is extending the development time and will result in an added cost due to the different location. As soon as the plans are finalized, staff will have a detailed estimate for the added cost.
 - Extended time in finalizing the required motor control center and motor starter, the electrical supplier is resubmitting equipment details to confirm the proposed products meet specifications. Earlier submittals failed to meet the Engineer's approval. This resulted in an extended time to discuss and investigate other options. This effort found the other alternatives to be costly and potentially pushing the schedule by 12 to 16 weeks. Staff immediately requested the supplier to revisit their initial submittal and provide the products that can meet the required specifications. Since the material has not been ordered, the extended submittal may push the electrical schedule out by 6 weeks. The contractor is reviewing the overall schedule to evaluate the impact to the completion date.
 - Unforeseen field conditions resulted in the following added scope to the contractor:
 - An unmarked storm drain pipe impacted the pipe placement and needed to be rejected.
 - Another storm drain pipe was discovered in a different location and needed to be adjusted.
 - Abandon a SCE metering system for an existing recharge controller and combine the existing system to the new metering and electrical panel under the new basin improvements. Edison is requiring a single meter instead of two for the area. Additional wiring and electrical equipment are required to connect the existing system to the new.

Construction Activities Photos:



May 9, 2018 at 11:24:15 AM
Rancho Cucamonga

Concrete forms for storm water inlet structure



May 10, 2018 at 9:20:37 AM
Rancho Cucamonga

Concrete forms for storm water inlet structure additional view



Storm water inlet structure



Storm water inlet structure additional view



**POST 2014 STORMWATER RECHARGE PROGRAM
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00
STATUS UPDATE: JUNE 1, 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 ⁽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
			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 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
\$23,007,817

Actual Cost to Date
\$2,790,356

RMPU Project		Total Projected Expenses	Actual Cost (to date)
Lower Day Basin (PID 12)		\$4,008,000	\$443,541
Victoria Basin ⁽⁴⁾ (PID 11)		\$168,800	\$21,483
Montclair Basins (PID 2)		\$1,788,100	\$227,570
RP-3 Basin ⁽⁴⁾	(23a)	\$1,486,700	\$189,211
Wineville Basin		\$14,996,200	\$1,908,551
Jurupa Basin			
Wineville/Jurupa Force Main			
Total		\$22,447,800	\$2,790,356

(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)
East Declez		
Project Development	\$114,000	\$112,829
Sub-Total	\$114,000	\$112,829
Declez Basin (PID 27)		
Project Development	\$2,600	\$2,600
Preliminary Design	\$71,000	\$3,913
Environmental	\$31,400	
Sub-Total	\$105,000	\$6,513
Turner Basin (PID 14)		
Project Development	\$1,000	\$1,000
Preliminary Design	\$28,400	\$1,605
Environmental	\$12,600	
Sub-Total	\$42,000	\$2,605
Ely Basin (PID 15a)		
Project Development	\$5,900	\$5,900
Preliminary Design	\$159,600	\$8,738
Environmental	\$70,500	
Sub-Total	\$236,000	\$14,638
CSI Basin (PID 18a)		
Project Development	\$2,000	\$2,000
Preliminary Design	\$47,000	\$47,000
Environmental	\$14,017	\$14,017
Sub-Total	\$63,017	\$63,017
Total	\$560,017	\$199,602

Grant/Loan Update:

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

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)
- 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	\$63,017
IEUA	\$0
Total	\$63,017

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 – Permit review is completed with the Flood Control. The plans will be finalized before the end of June. When finalized the project will proceed into construction separately from the other RMPU projects.
 - b) Wineville/Jurupa Storm Water Distribution Pipeline – The plans are currently with the Flood Control District for review and comment. The District is requesting three additional weeks to complete their review due to the size of the design plans. The Finalizing the design plans are on hold until review comments are received.
 - c) Montclair Basin – Army Corps is currently reviewing the proposed improvements. They have been delayed in providing their comments. Finalizing the design plans are on hold until review comments are received.
 - d) Lower Day Basin – Flood Control comments were received. The engineer is finalizing the design plans.
- 2) The following is an update to RMPU’s RP-3 Basin Improvement Project:
- a) Award the Demolition and Excavation contract to James McMinn, Inc.
 - b) The remaining Basin Improvement at RP-3 will be combined with other RMPU projects to seek more competitive pricing.
- 3) Update on Clean Water State Revolving Fund (CWSRF) Application (loan assistance for water quality improvement project) – IEUA staff submitted all required application forms to the State Water Board. As discussed, IEUA is expecting SRF funding to be available under the following fiscal year (Fiscal Year 19/20). Notification of funding is expected on April 2019.
- 4) 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 are being notified of the project. Awaiting a response to project notification.

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	11/30/18	In Progress
Design	12/18/14	11/30/18	In Progress
Bid and Award	12/03/18	04/17/19	Not Started
Construction	04/18/18	09/30/20	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	08/07/18	In Progress
Design	12/18/14	08/07/18	In Progress
Bid and Award	08/08/18	12/19/18	Not Started
Construction	12/20/18	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	12/31/19	Not Started