

# **NOTICE OF MEETING**

---

**OF THE**  
**REGIONAL SEWERAGE PROGRAM**  
**POLICY COMMITTEE**

**OF THE**



**WILL BE HELD ON**  
**THURSDAY, NOVEMBER 2, 2017**  
**4:00 P.M.**  
**BOARDROOM**  
**AT THE OFFICE OF THE AGENCY**  
**6075 KIMBALL AVENUE, BUILDING A**  
**CHINO, CA 91710**



## **Regional Sewerage Program Policy Committee Meeting**

### **AGENDA**

**Thursday, November 2, 2017**

**4:00 p.m.**

#### **Location**

Inland Empire Utilities Agency  
Boardroom  
6075 Kimball Avenue  
Chino, CA 91708

---

**Call to Order**

**Pledge of Allegiance**

**Public Comment**

**Changes/Additions/Deletions to the Agenda**

**1. Technical Committee Report (*Oral*)**

**2. Action Item**

- A. Approval of the October 5, 2017 Meeting Minutes
- B. RP-4 Trident Filter Rehabilitation Construction Contract Award

**3. Informational Items**

- A. Regional Contract Update/Renewal (*Oral*)

**4. Receive and File**

- A. Building Activity Update
- B. Recycled Water Distribution – Operations Summary
- C. Engineering Project Updates

**5. Other Business**

- A. IEUA General Manager's Update
- B. Committee Member Requested Agenda Items for Next Meeting
- C. Committee Member Comments
- D. Next Meeting – December 7, 2017

**6. Adjournment**

### **DECLARATION OF POSTING**

---

I, Laura Mantilla, Executive Assistant of the Inland Empire Utilities Agency, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. in the foyer at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA on Monday, October 30, 2017.



Laura Mantilla

**ACTION ITEM**

**2A**



## Regional Sewerage Program Policy Committee Meeting

### MINUTES OF OCTOBER 5, 2017 MEETING

#### **CALL TO ORDER**

A meeting of the IEUA/Regional Sewerage Program – Policy Committee was held on Thursday, October 5, 2017, at the Inland Empire Utilities Agency Regional Plant No. 1 located at 2662 E. Walnut Street, Ontario, California. Chairman Jesse Armendarez, City of Fontana, called the meeting to order at 4:01 p.m.

#### **ATTENDANCE**

##### **Committee Members:**

Eunice Ulloa	City of Chino
Peter Rogers	City of Chino Hills
Luis Cetina (Alternate)	Cucamonga Valley Water District
Jesse Armendarez	City of Fontana
Jim Bowman	City of Ontario
Debbie Stone	City of Upland
Kati Parker	Inland Empire Utilities Agency

##### **Absent Committee Members:**

Trisha Martinez (Alternate)	City of Montclair
-----------------------------	-------------------

##### **Others Present:**

Chuck Hays	City of Fontana
Nicole deMoet	City of Montclair
Katie Gienger	City of Ontario
Braden Yu	Cucamonga Valley Water District
John Bosler	Cucamonga Valley Water District
Chris Berch	Inland Empire Utilities Agency
Kathy Besser	Inland Empire Utilities Agency
Joseph Grindstaff	Inland Empire Utilities Agency
Randy Lee	Inland Empire Utilities Agency
Sylvie Lee	Inland Empire Utilities Agency
Laura Mantilla	Inland Empire Utilities Agency
Craig Proctor	Inland Empire Utilities Agency
Christina Valencia	Inland Empire Utilities Agency

**PLEDGE OF ALLEGIANCE**

Committee Member Jim Bowman led those present in the pledge of allegiance to the flag. A quorum was present.

**PUBLIC COMMENTS**

There were no public comments.

**1. TECHNICAL COMMITTEE REPORT**

Chuck Hays stated that the Technical Committee met on September 28, 2017, and approved the following action items: Approved the meeting minutes of August 31, 2017 and unanimously approved the RP-1 Headworks Primary & Secondary Upgrades construction contract award to Myers & Sons Construction for \$5,690,000. Mr. Hays reported that in July and August the Technical Committee interviewed several firms for negotiations of the Regional Contract and selected Kearns & West, Michael Rudinica and Dennis Diemer. IEUA entered into a contract with Kearns & West on September 25. On October 2, Mr. Hays and Kearns & West discussed Phase 1 and the scheduling of meetings with each Agency. Kearns & West will be contacting the Technical Committee representative from each agency.

**2. ACTION ITEMS****A. APPROVAL OF THE MINUTES OF SEPTEMBER 7, 2017 REGIONAL POLICY COMMITTEE MEETING**

**Motion:** By Jim Bowman/City of Ontario and seconded by Peter Rogers/City of Chino Hills to approve the minutes of the September 7, 2017 Regional Policy Committee meeting.

**Motion carried:** Unanimously, with Debbie Stone/City of Upland and Eunice Ulloa /City of Chino abstaining.

**B. RP-1 HEADWORKS PRIMARY & SECONDARY UPGRADES CONSTRUCTION CONTRACT AWARD**

Chris Berch/IEUA stated that engineers had completed several assessments over the years on the condition of the RP-1 headworks and based on the assessment reports, numerous deficiencies were identified. IEUA received four bids from prequalified contractors and Myers & Sons was the lowest bid for \$5.69 million; 10 percent lower than the engineers estimate. This was unanimously approved by the Technical Committee. If recommended by the Policy Committee today and approved by the IEUA Board this month, construction will start immediately and be completed by January 2019.

**Motion:** By Luis Cetina/Cucamonga Valley Water District and seconded by Jim Bowman/City of Ontario to make recommendation to the IEUA Board of Directors to award the construction contract award to Myers & Sons Construction LP, in the amount of \$5,690,000.

**Motion carried:** Unanimously.

Mr. Armendarez asked the Committee if there are any items from Information and Receive and File that they would like to be presented. Peter Rogers/City of Chino Hills requested the Grants Semi-Annual Update be presented.

**3. INFORMATIONAL ITEMS****A. REGIONAL CONTRACT UPDATE/RENEWAL**

Mr. Hays provided an update in the Technical Committee Report.

**B. GRANTS DEPARTMENT SEMI-ANNUAL UPDATE**

Kathy Besser/IEUA stated that since 2000, the Agency has received \$474 million in state and federal grants and low interest loans, which consists of \$307 million in grants and \$167 million in State Revolving Funding Loans (SRF). Ms. Besser explained that if the Agency would have borrowed the \$167 million from the bond market, IEUA would have paid \$119 million in financing cost. Because IEUA obtained SRF loans, IEUA only paid \$30 million and saved \$89 million in interest costs. Ms. Besser stated that IEUA continues to look for grant opportunities and recently applied for a \$480 million grant from the Prop-1 Water Storage.

**4. RECEIVE AND FILE****A. BUILDING ACTIVITY UPDATE**

The Building Activity Update was received and filed by the Committee.

**B. RECYCLED WATER DISTRIBUTION – OPERATIONS SUMMARY**

The Recycled Water Distribution Operations Summary was received and filed by the Committee.

**C. FOURTH QUARTER FY 2016/17 BUDGET VARIANCE**

The Fourth Quarter FY 2016/17 Budget Variance was received and filed by the Committee.

**5. OTHER BUSINESS****A. IEUA GENERAL MANAGER'S UPDATE**

- Joseph Grindstaff stated that the new General Manager is expected to start at the end of November 28. Ms. Razak has over 30 years of experience and is currently the Director of the Public Utilities Department at the city of San Diego where she oversees approximately 1,600 employees. She is an outstanding person that has excellent references. She will be an outstanding manager.

**B. COMMITTEE MEMBER REQUESTED AGENDA ITEMS FOR NEXT MEETING**

None.

**C. COMMITTEE MEMBER COMMENTS**

None.

**D. NEXT MEETING – NOVEMBER 2, 2017****6. ADJOURNMENT – Meeting was adjourned at 4:10 p.m.**

Transcribed by:

Laura Mantilla, Executive Assistant

**ACTION ITEM**

**2B**



*Inland Empire Utilities Agency*  
A MUNICIPAL WATER DISTRICT

---

Date: October 26, 2017/November 2, 2017  
To: Regional Committees  
From: Inland Empire Utilities Agency  
Subject: RP-4 Trident Filters Project Construction Contract Award

---

### **RECOMMENDATION**

It is requested that the Regional Committees recommend the IEUA Board of Directors award the construction contract for the Regional Water Recycling Plant No. 4 Trident Filters Rehabilitation and Replacement, Project No. EN17110.01, in the amount of \$3,799,000 to J.F. Shea Construction, Inc.

### **BACKGROUND**

In August 2016, the Regional Water Recycling Plant No. 4 (RP-4) Primary Clarifier and Process Rehabilitation Projects were identified as necessary IEUA projects. The development phase for the two projects kicked-off in January 2017. As project development progressed, it became apparent that repair and rehabilitation work associated with the RP-4 Trident Filters needed to be expedited in order to continue meeting plant operational and permit requirements. Three of the eight filter bays are currently out of service with a fourth filter bay approaching shutdown.

Thirteen prospective contractors submitted pre-qualification packages, of which five contractors were pre-qualified (shortlisted). The City of Fontana and the Cucamonga Valley Water District participated in the contractor pre-qualification selection.

On August 21, 2017, a request for bids was advertised to the five pre-qualified contractors through PlanetBids. Four of the five pre-qualified contractors participated in the job walk on August 30, 2017. On September 12, 2017, the following bids were received:

Bidder's Name	Total Price
J.F. Shea Construction, Inc.	\$ 3,799,000
PCL Construction, Inc.	\$ 3,809,757
SCW Contracting Corporation	\$ 4,238,467
J.R. Filanc Construction Company, Inc.	\$ 4,300,000
Engineer's Estimate	\$4,500,000

J.F. Shea Construction, Inc., was the lowest responsive and responsible bidder with a bid price of \$3,799,000. J.F. Shea Construction was pre-qualified for the project; presenting the required experience having performed similar projects with other utilities and cities and showing good workmanship and responsiveness. Additionally, J.F. Shea Construction has performed very successfully for IEUA on previous projects.

The following table is the anticipated project cost:

Description	Estimated Cost
<b>Design Services</b>	<b>\$1,069,073</b>
Consultant Design	\$657,594
Consultant Design Amendment (this action)	\$113,975
Project Management	\$189,346
Project Management Amendment (this action)	\$53,466
IEUA Design Services	\$54,692
<b>Construction Services Estimate</b>	<b>\$2,810,524</b>
Engineering Services During Construction (ESDC)	\$1,708,671
Trident ESDC Amendment (this action)	\$69,207
Construction Management (CM)	\$298,113
CM Amendment (this action)	\$218,210
IEUA Construction Services (2.5%)	\$516,323
<b>Construction Estimate</b>	<b>\$20,652,948</b>
Construction	\$14,976,408
Trident Filter Construction Award (this action)	\$3,799,000
Contingency (10%)	\$1,877,540
<b>Total Project Cost</b>	<b>\$24,532,545</b>
<b>Project Cost for Additional Work</b>	<b>\$12,798,787</b>
<b>Total Project Budget</b>	<b>\$24,027,753</b>
<b>Remaining Budget</b>	<b>(\$504,792)</b>

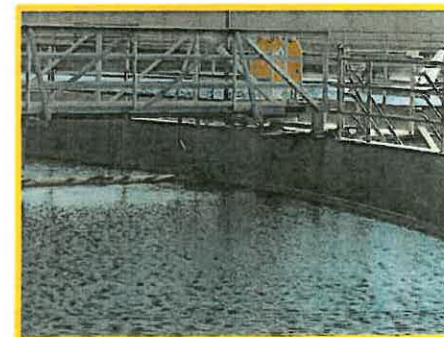
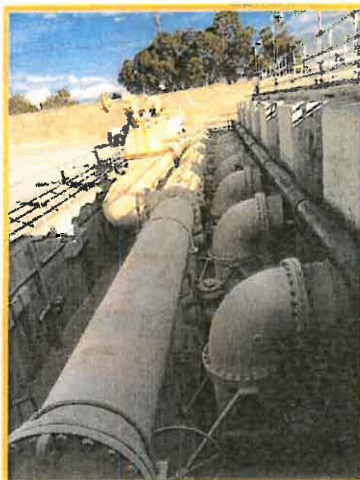
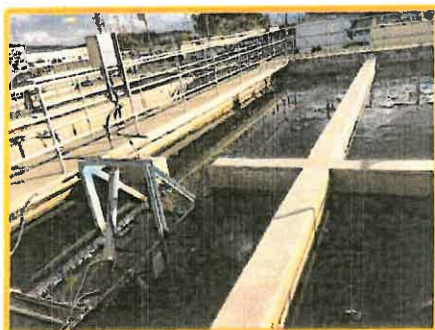
The following table is the project schedule:

Project Milestone- RP-4 Primary Clarifier Rehab (EN17043)	Date
Design Completion	October 2018
Construction Contract Award	February 2019
Construction Completion	March 2021

<b>Project Milestone-RP-4 Process Rehab (EN17110)</b>	<b>Date</b>
Trident Filters Construction Contract Award	October 2017
Design Completion	October 2018
Trident Filters Construction Completion	January 2019
Construction Contract Award	February 2019
Construction Completion	March 2021

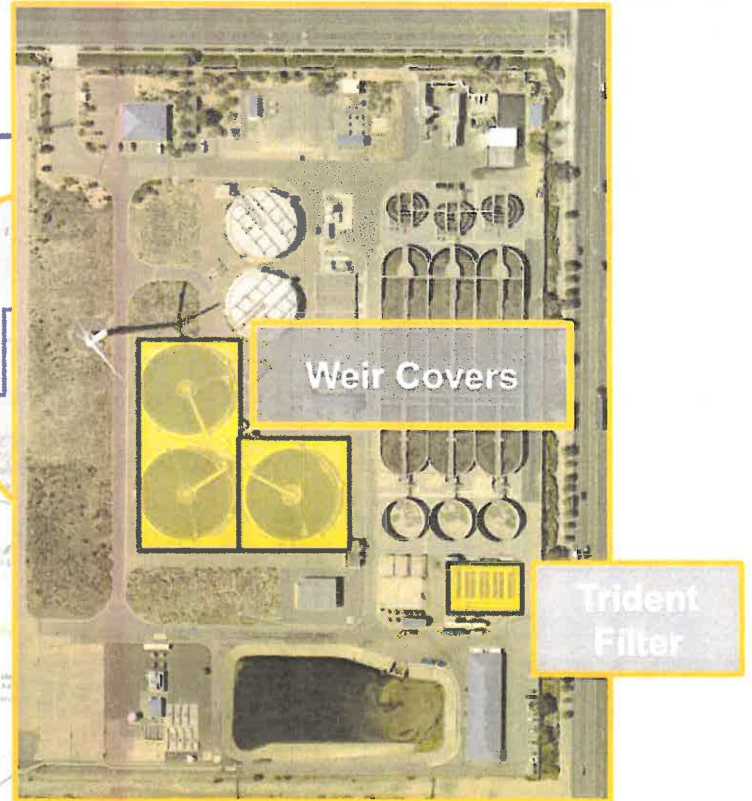
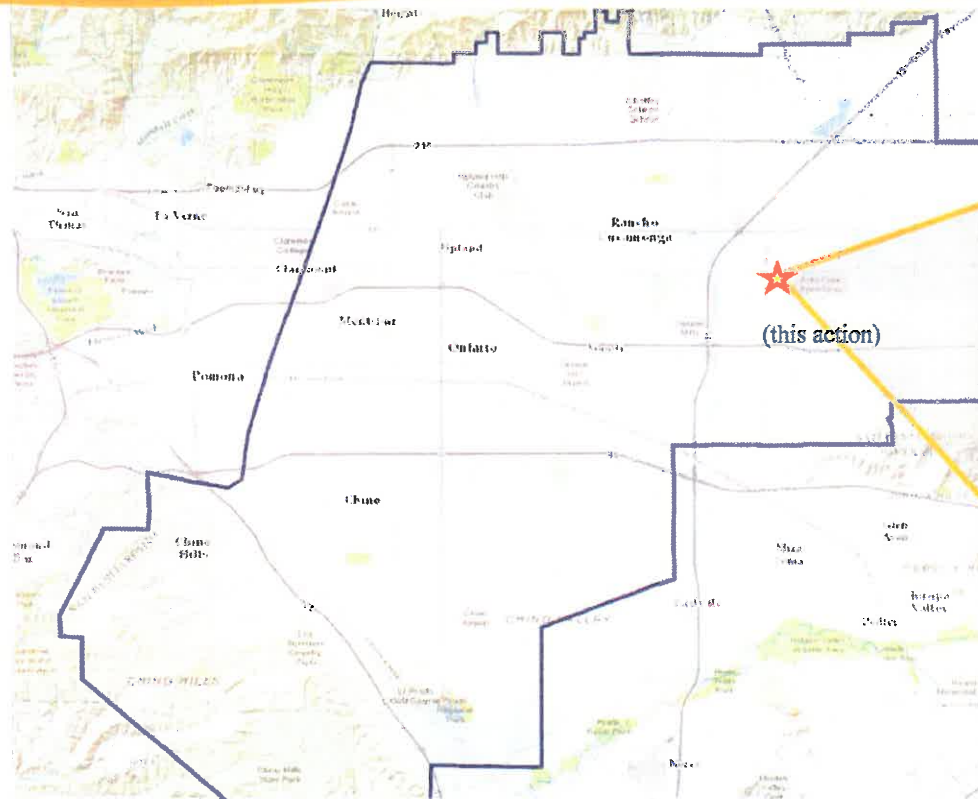
The RP-4 Trident Filters Rehabilitation and Replacement project is consistent with the *Agency's Business Goal of Wastewater Management* specifically the Asset Management objective that IEUA will ensure that the regional sewer system and treatment facilities are well maintained, upgraded to meet evolving requirements, sustainably managed and can accommodate changes in regional water use.

# RP-4 Trident Filters Replacement and Rehabilitation Construction Contract Award Project No. EN17110.01



Shaun J. Stone, P.E.  
October 2017/November 2017

# Project Location

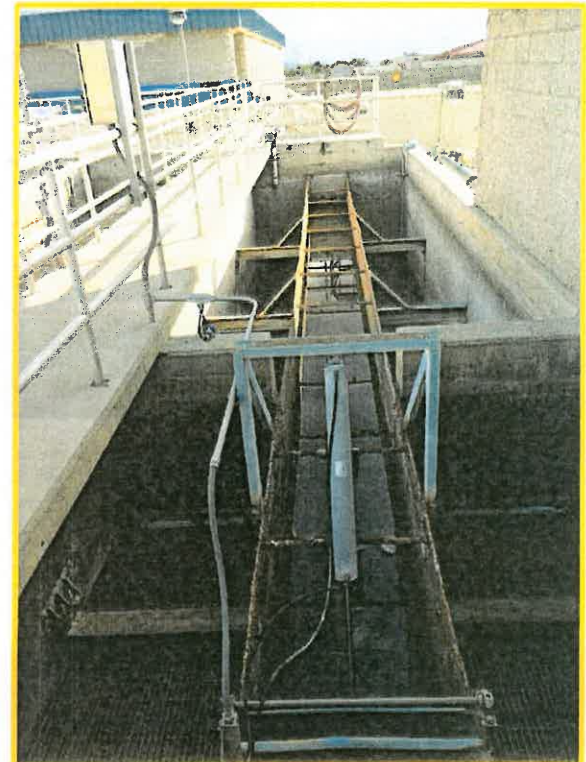


# The Project

- Urgent project
- Meet RP-4 operational and permit requirements
- Three of eight filter units currently out of service
- Fourth filter bay showing signs of failure
- Add weir covers, replace filters, and add backwash pumps



Weir Covers



Out of Service Filter Bay

# Contractor Selection

Four bids received on September 12, 2017

## Bids Received

Contractor	Construction Cost
J.F. Shea	\$3,799,00
PCL	\$3,809,757
SCW	\$4,238,467
Filanc	\$4,300,000
Engineer's Estimate	\$4,500,000

# Project Budget and Schedule

Description	Estimated Cost
<b>Design Services</b>	<b>\$167,441</b>
Consultant Design	\$657,594
Consultant Design Amendment (this action)	\$113,975
Project Management	\$189,346
Project Management Amendment (this action)	\$53,466
IEUA Design Services	\$54,692
<b>Construction Services Estimate</b>	<b>\$2,810,524</b>
Engineering Services During Construction (ESDC)	\$1,708,671
Trident ESDC Amendment (this action)	\$69,207
Construction Management (CM)	\$298,113
CM Amendment (this action)	\$218,210
IEUA Construction Services (2.5%)	\$516,323
<b>Construction Estimate</b>	<b>\$20,652,948</b>
Construction	\$14,976,408
Trident Filter Construction Award (this action)	\$3,799,000
Contingency (10%)	\$1,877,540
<b>Total Project Cost</b>	<b>\$24,532,545</b>
<b>Project Cost for Additional Work</b>	<b>\$12,798,787</b>
<b>Total Project Budget</b>	<b>\$24,027,753</b>
<b>Remaining Budget</b>	<b>(\$504,792)</b>

Project Milestone (EN17043)	Date
Design Completion	October 2018
Construction Contract Award	February 2019
Construction Completion	March 2021

Project Milestone (EN17110)	Date
Trident Filters Construction Contract Award	October 2017
Design Completion	October 2018
Trident Filters Construction Completion	January 2019
Construction Contract Award	February 2019
Construction Completion	March 2021

## Recommendation

It is requested that the Regional Committees recommend the IEUA Board of Directors award the construction contract for the Regional Water Recycling Plant No. 4 Trident Filters Rehabilitation and Replacement, Project No. EN17110.01, in the amount of \$3,799,000 to J.F. Shea Construction, Inc.

The RP-4 Trident Filters Rehabilitation and Replacement project is consistent with the **Agency's Business Goal of Wastewater Management** specifically the Asset Management objective that IEUA will ensure that the regional sewer system and treatment facilities are well maintained, upgraded to meet evolving requirements, sustainably managed and can accommodate changes in regional water use.

**RECEIVE AND  
FILE**

**4A**

# Building Activity Report - YTD Fiscal Year 2017/18



## Legend

- Service Area
- Unincorporated

## EDU (YTD)

### Residential

- ≤1.0
- 1.0 - 10.0
- >10.0

### Commercial

- ≤1.0
- 1.0 - 10.0
- >10.0

### Industrial

- ≤1.0
- 1.0 - 10.0
- >10.0

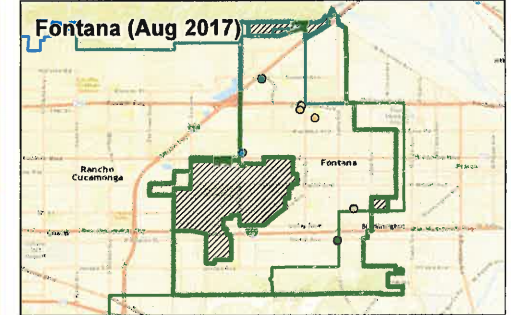
## HALF MILE GRID: TOTAL EDU's (YTD)



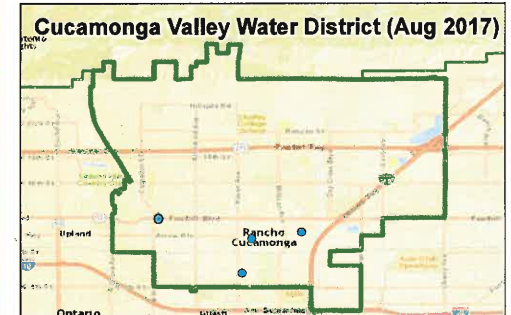
## TOTAL EDU BY WASTEWATER CONNECTION TYPE (YTD)

Contracting Agency	YTD Actual			Total (EDUs)	Projected
	Residential (EDUs)	Commercial (EDUs)	Industrial (EDUs)		
Chino	101	6	1	108	725
Chino Hills	24	2	0	26	702
CVWD	1	13	0	14	364
Fontana	16	3	0	19	960
Montclair	13	0	0	13	115
Ontario	79	12	1	92	2350
Upland	10	4	0	14	226
Total	244	40	2	286	5442

## Fontana (Aug 2017)



## Cucamonga Valley Water District (Aug 2017)



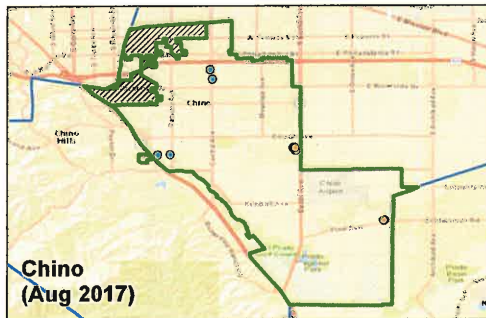
## Upland (Aug 2017)



## Chino Hills (Aug 2017)



## Chino (Aug 2017)



## Ontario (Aug 2017)



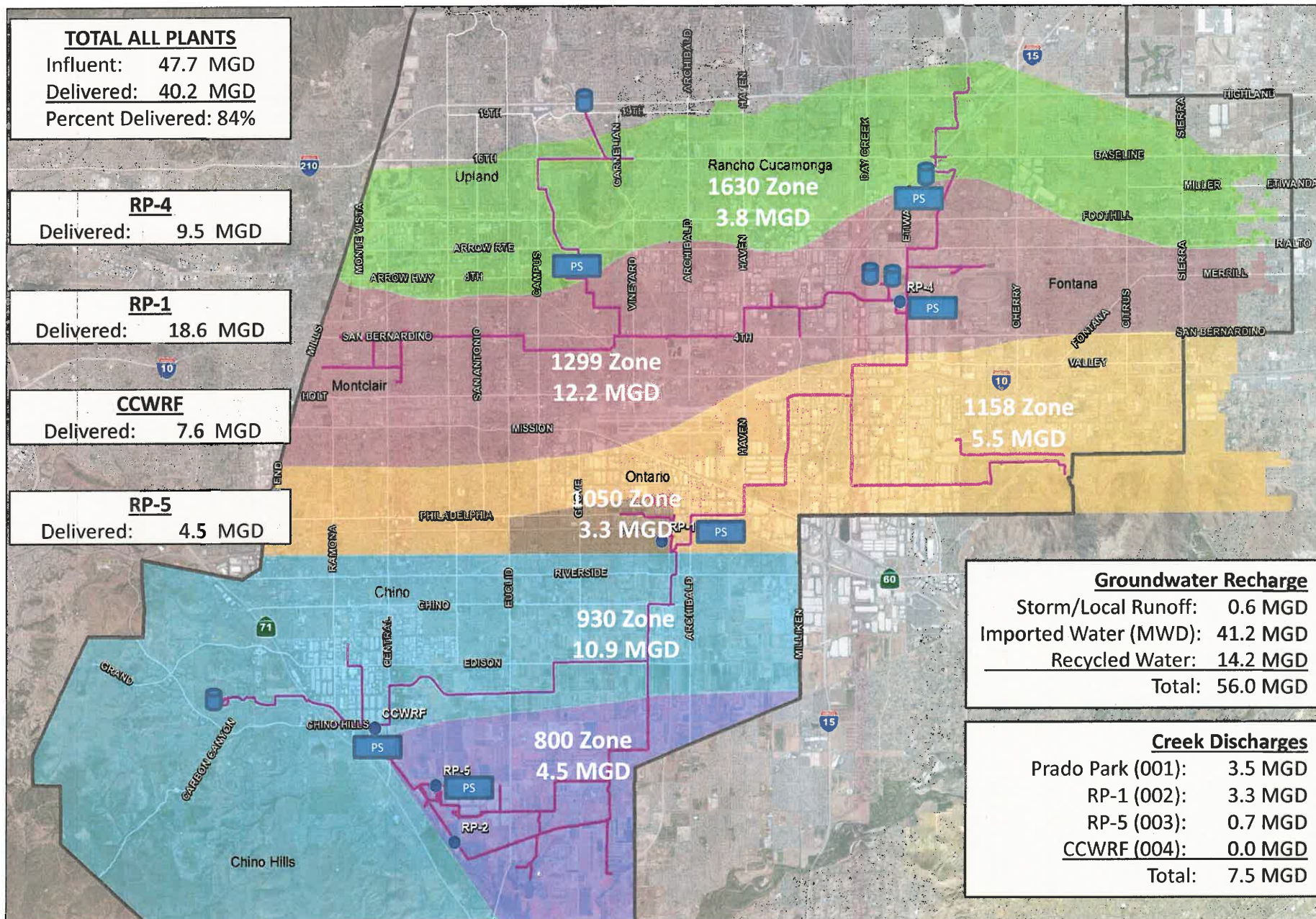
## Montclair (Aug 2017)



RECEIVE AND  
FILE

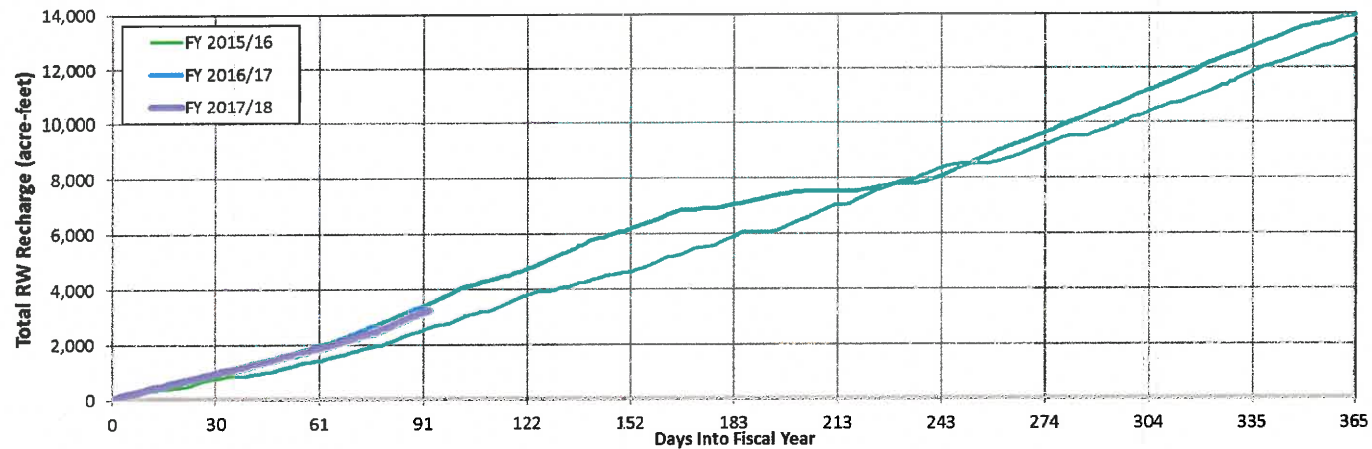
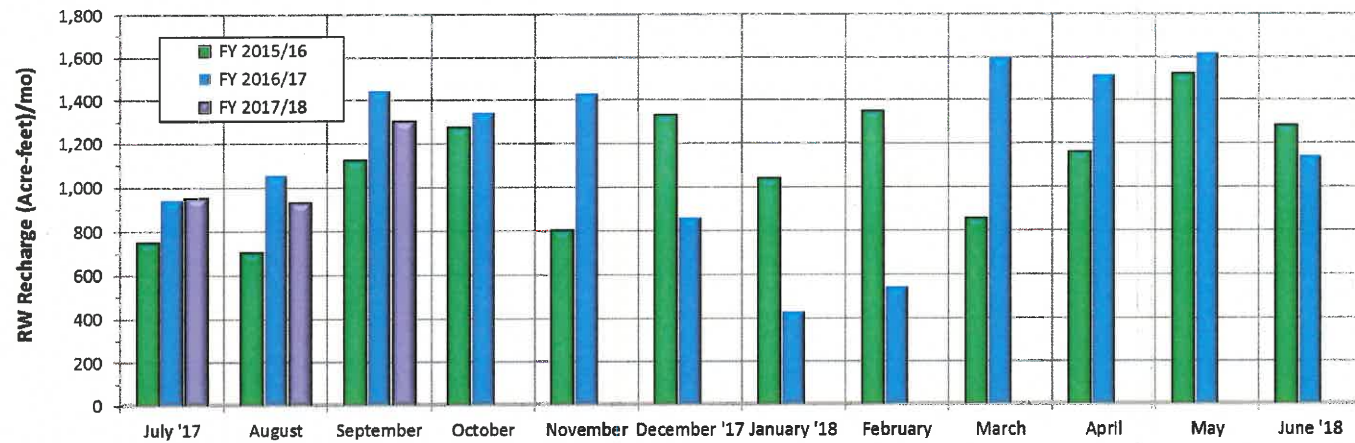
**4B**

# IEUA RECYCLED WATER DISTRIBUTION – SEPTEMBER 2017



# Recycled Water Recharge Actuals / Plan - September 2017 (Acre-Feet)

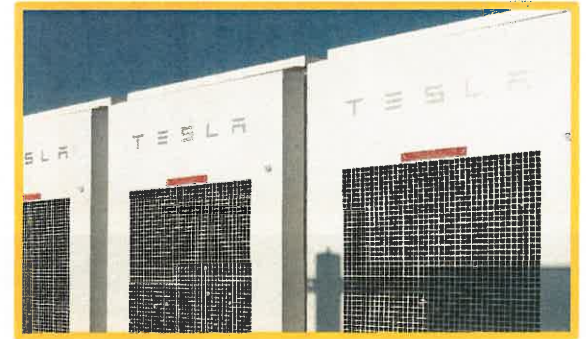
Basin	9/1-9/9	9/10-9/16	9/17-9/23	9/24-9/30	Month Actual	FY To Date Actual	Deliveries are draft until reported as final.
Ely	57.7	43.7	52.1	62.3	215.8	277	
Banana	45.7	38.2	59.7	17.2	160.9	292	
Hickory	11.1	27.5	26.9	53.6	119.0	307	
Turner 1 & 2	32.4	6.9	12.8	18.2	70.3	334	
Turner 3 & 4	2.0	4.1	23.9	21.5	51.5		
8th Street	19.5	8.6	37.6	64.8	130.5	328	
Brooks	38.2	40.7	53.5	36.6	169.0	452	
RP3	65.2	17.9	85.4	54.5	223.0	656	
Declez	0.0	0.0	0.0	0.0	0.0	0	
Victoria	74.3	62.3	20.5	9.6	166.7	546	
San Sevaire	0.0	0.0	0.0	0.0	0.0	0	
Total	346.1	249.9	372.4	338.3	1,306.7	3,191	3,448 AF, Previous FY To Date Actual



RECEIVE AND  
FILE

**4C**

# Engineering and Construction Management Project Updates



# EN14042 – RP-1 1158 RWPS Upgrades

- Design Engineer: Stantec
- Current Contract (Design): \$445 K
- Total Project Budget: \$4.0 M
- Project Completion: November 2019
- Percentage Complete: 37%
- Scope of Work:
  - Replace existing four 400 HP pumps with four 700 HP pumps
  - Conduct a condition assessment of the wet well
  - Upgrade existing power center
  - Upgrade SCADA/Programming
  - Construct a 7,500 gallon water/air surge tank
- Current Activities:
  - Review draft Pre Design Report
  - Review wet well condition assessment report
  - Grant and loan approval process
- Focus Points:
  - Proceed with 50% design



Recycled Water Pump Station Motors



Front of Switchgear

# EN16024 – RP-1 Mixed Liquor Return Pumps

- Construction Contractor: J. F. Shea Construction, Inc
- Current Contract (Construction): \$4.9 M
- Total Project Budget: \$6.6 M
- Project Completion: March 2018
- Percentage Complete: 72%
- Scope of Work:
  - Add mixed liquor pumps to all six trains
  - Upgrade SCADA/Programming
  - Upgrade power centers
- Current Activities:
  - Finished construction of train nos. 1 and 2
  - Continue construction of train no. 4
- Focus Points:
  - Delivery of new pumps and install



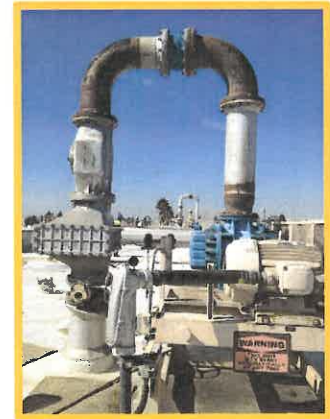
Boiling mixed liquor suspended solids prior to work



Smooth, soft air after work

# EN17042 – Digester 6 and 7 Roof Repairs

- Design Engineer: GHD, Inc.
- Current Contract (Predesign): \$130 K
- Contractor: Synagro-WWT, Inc.
- Current Contract (Cleaning/Upgrade): \$1.7 M
- Total Project Budget: \$3.8 M
- Project Completion: July 2019
- Percentage Complete: 10%
- Scope of Work:
  - Clean digesters 1, 6, and 7
  - Replace valves and redundant flame arrestors on digesters 1, 6, and 7
  - Evaluate roof cracks and gas mixing system on digesters 6 and 7
- Current Activities:
  - Completed digester 1 cleaning and valve replacements
- Focus Points:
  - Start digester 1
  - Shut down, clean, and inspect digester 6
  - Finalize Pre Design Report for digester 6



Gas Mixing System



Digester No. 6 Flame Arrestor

# EN17044 – RP-1 Power Reliability Generator Control Upgrades

- Design Engineer: Black & Veatch
- Current Contract (Design): \$75 K
- Total Project Budget: \$1.5 M
- Project Completion: October 2018
- Percentage Complete: 10%
- Scope of Work:
  - Replace five control cabinets that operate the emergency generators
  - Incorporate Microgrid control features
- Current Activities:
  - Review Request for Proposals from prequalified contractors
- Focus Points:
  - Keep the functionality of the current system
  - Upgrade to modern equipment and current programming standards
  - Transition to new system without disruption to the plant



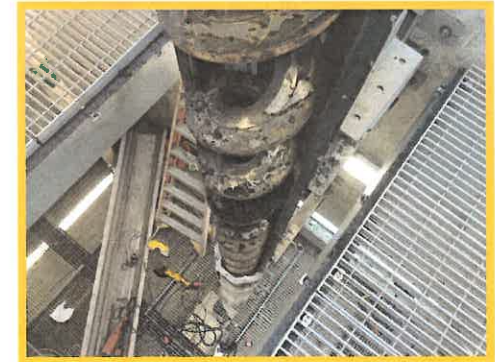
Back up Generators at RP-1



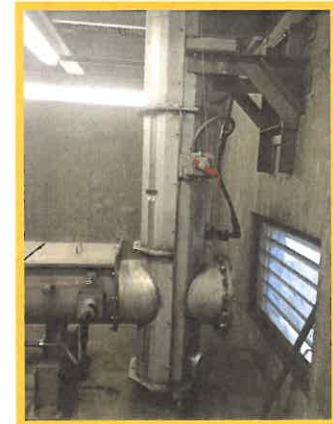
Current Control System

# EN17047/EN17048 – RP-1 Safety Improvements/Dewatering Vertical Conveyors

- Construction Contractor: Baghouse & Industrial
- Current Contract (Design-Build): \$392 K
- Total Project Budget: \$606 K
- Project Completion: August 2017
- Percentage Complete: 100%
- Scope of Work:
  - Design and install hand railing and foot entanglement protection
  - Install overhead and elevation change warning signs
  - Design and install two vertical conveyor housings in kind
  - Line housings with additional wear protection
- Current Activities:
  - Project complete
- Focus Points:
  - As-builts in progress



Housing Removed During Construction



New Conveyor Housing