



Regional Sewerage Program Technical Committee Meeting

AGENDA **Thursday, October 3, 2013** **4:00 p.m.**

Location

Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91708

Thursday, October 3, 2013

Call to Order and Roll Call

1. Approval of Minutes

A. Minutes of August 1, 2013 Meeting

2. Action Items

A. Montclair Lift Station Upgrades Project Construction Contract Award
(Written/PowerPoint)

3. Informational Items

- A. Recycled Water Update (PowerPoint)
- B. Annual Water Use Report (Written/PowerPoint)
- C. Ten Year Growth Forecast (Written)
- D. IEUA Planning Documents Update (Written/PowerPoint)
- E. Recharge Master Plan Update (PowerPoint)

4. Receive and File

- A. Pretreatment Summary Report
- B. Building Activity Report – Final FY 12/13 and FY 13/14 YTD
- C. Recycled Water Operations Summary

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 – November 7, 2013

6. Adjournment

DECLARATION OF POSTING

I, Cheyanne Reseck-Francis, Administrative 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 Thursday, September 26, 2013.



Cheyenne Reseck-Francis

**APPROVAL OF
MINUTES**

1A



Regional Sewerage Program Technical Committee Meeting

MINUTES OF August 1, 2013 MEETING

CALL TO ORDER

A regular meeting of the IEUA/Regional Sewerage Program – Technical Committee was held on Thursday, August 1, 2013, at the Inland Empire Utilities Agency located at 6075 Kimball Avenue, Chino, California. Jim Hill, City of Chino, called the meeting to order at 4:03 p.m.

ATTENDANCE

Committee Members:

Jim Hill	City of Chino
Steve Nix	City of Chino Hills
Tony Mata	City of Fontana
Mike Hudson	City of Montclair
Dennis Mejia	City of Ontario
Rosemary Hoerning	City of Upland (<i>entered at 4:07 p.m.</i>)
John Bosler	Cucamonga Valley Water District
P. Joseph Grindstaff	Inland Empire Utilities Agency

Absent Committee Members:

Chuck Hays	City of Fontana
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Others Present:

Braden Yu	Cucamonga Valley Water District
Cheyenne Reseck-Francis	Inland Empire Utilities Agency
Chris Berch	Inland Empire Utilities Agency
Christina Valencia	Inland Empire Utilities Agency
Craig Parker	Inland Empire Utilities Agency
Ernest Yeboah	Inland Empire Utilities Agency
Kathy Tieg	Cucamonga Valley Water District
Majid Karim	Inland Empire Utilities Agency
Ryan Shaw	Inland Empire Utilities Agency
Sylvie Lee	Inland Empire Utilities Agency

1. APPROVAL OF MINUTES**A. Revised Minutes of May 2, 2013 Meeting**

Motion: By Dennis Mejia/City of Ontario and seconded by John Bosler/CVWD to approve the revised minutes of the May 2, 2013 Technical Committee meeting.

Motion carried: Unanimously.

B. Minutes of June 6, 2013 Meeting

Motion: By Dennis Mejia/City of Ontario and seconded by John Bosler/CVWD to approve the minutes of the June 6, 2013 Technical Committee meeting.

Motion carried: Unanimously.

2. ACTION ITEMS

None.

3. INFORMATIONAL ITEMS**A. Allocation of “One-Time” Redevelopment Tax Receipts**

P. Joseph Grindstaff/IEUA briefly discussed the “one-time” payment in the amount of \$9.9 million based on the redevelopment audit, stating that the Board has agreed to a 65 percent allocation to the Regional Capital fund. Mr. Grindstaff stated that the Agency currently has two bonds totaling approximately \$4.5 million at a 5.5 percent interest rate, and this one-time payment will be used to pay off these bonds, saving the Agency approximately \$1.5 million in interest costs. He further stated that the remaining funds of \$3.5 million will be used to prepay the unfunded retirement liability based on the performance of PERS.

B. Ten-Year Capital Demand Forecast

Chris Berch/IEUA gave a presentation on the ten-year capital demand forecast. He stated that the ten-year capital demand surveys sent out to the member agencies are very important to the outcome of the Agency’s strategic planning documents, such as: IRP, Recycled Water Planning Strategy, Facilities Master Plan, Asset Management Plan, Business Goals, Long-Range Plan of Finance, and Energy Plan.

C. Recycled Water Quarterly Report

Sylvie Lee/IEUA gave a presentation on the recycled water quarterly report. She stated that the ongoing Southern Area projects are on schedule, and infiltration testing for the Wineville project has been delayed to September 16 by the presence of Gold Finches. Ms. Lee stated that new connections include Upland Hills Country Club and Red Hill Park, totaling 430 acre-feet.

D. Draft 2013 Recharge Master Plan Update

Ryan Shaw/IEUA gave a presentation on the draft recharge master plan and draft IEUA recommended projects. He stated that 27 capital projects were identified in the update and seven of those include recycled water components, and can be “50-50 cost-shared” under the Peace II Agreement with CBWM. Mr. Shaw stated that participation in seven of the projects would produce approximately 5,000 acre-feet of potential recycled water recharge and about 6,000 acre-feet of stormwater capture at a cost of approximately \$40 million. He stated that the goal is to get feedback today from the Committee and then this item will go to the IEUA Committee meeting on August 14, 2013, and to the IEUA Board meeting on August 21, 2013 for comments. Mr. Shaw stated that this item will then go through the entire process again in September with a recommendation for approval, with the final version eventually going to court in October.

E. Business Goal Update

Chris Berch/IEUA provided a brief update on IEUA business goals, stating that there are plans to have a workshop with the Board prior to having a joint workshop in September with the IEUA Board and the Regional Policy Committee.

F. Master Planning Efforts

Chris Berch/IEUA provided an update on master planning efforts. He stated that having master planning documents in place assists in creating and updating future and past documents and streamlines processes.

4. RECEIVE AND FILE

A. Pretreatment Summary Report

The Pretreatment Summary Report was received and filed by the Committee.

B. Building Activity Report (YTD)

The Building Activity Report (YTD) was received and filed by the Committee.

C. TYCIP Master Project Descriptions/Data Sheets

The TYCIP Master Project Descriptions/Data Sheets were received and filed by the Committee.

D. 4th Quarter Water Newsletter

The 4th Quarter Water Newsletter was received and filed by the Committee.

E. Benchmarking Survey Results

The Benchmarking Survey Results were received and filed by the Committee.

5. OTHER BUSINESS

A. IEUA General Manager’s Update

Joe Grindstaff/IEUA reported on the following:

- Dewatering project status: Belt presses at RP-1 have been shut down and the centrifuges are in operation. This should limit the amount of solids that are sent to the Composting Facility, reducing cost, providing better reliability, and better working conditions.

- Labor Negotiations status: The Agency has four bargaining units with a fifth one forming. Agreements are currently tentative with one unit, ratified with two units, and still in negotiations with another unit. The goal is to take the new five-year agreements to the Board at the end of this month.
- Benchmarking survey: The Agency’s goal is to compare how we operate with other agencies within and outside of the region.
- Jurupa Community Services District (JCSD) has asked to join the Agency’s mutual aid group/system for collections. Staff will be working with Member Agencies to get an amendment processed.
- Ernest Yeboah is the Agency’s new Executive Manager of Operations, after serving the Agency as the Manager of Maintenance for several years.
- Rebecca Long will be starting next week as the Agency’s External Affairs Manager, after serving Orange County Water District and Golden State Water.
- Compliance Record: The Agency has had very few violations in comparison to many other local agencies. Staff has done a wonderful job and this is the most operationally competent and technically skilled Agency he has ever worked for and ever seen.

B. Committee Member Requested Agenda Items for Next Meeting

None.

C. Committee Member Comments

None.

D. Next Meeting – September 5, 2013

6. ADJOURNMENT - Meeting was adjourned at 4:50 p.m.

Transcribed
by:

Cheyenne R. Reseck-Francis
Administrative Assistant, IEUA

**ACTION
ITEM**

2A



Date: October 3, 2013
To: Regional Technical Committee
From: Inland Empire Utilities Agency
Subject: Montclair Lift Station Upgrades Project Construction Contract Award

RECOMMENDATION

It is recommended that the Regional Technical Committee approve the award of the construction contract for the Montclair Lift Station Upgrades, Project No. EN13054, for a not-to-exceed amount of \$3.3 million.

BACKGROUND

Inland Empire Utilities Agency (IEUA) owns and operates the Montclair Lift Station. The Montclair Lift Station is located just east of Mountain Avenue on Philadelphia Street. The Montclair Lift Station was constructed in 1976 and operates with original equipment and technology. It is fed by the Montclair Interceptor Sewer which collects sewer flows from the Cities of Montclair, Ontario and Upland and conveys wastewater to Regional Water Recycling Plant No. 1 and/or Carbon Canyon Water Recycling Facility for treatment.

The Montclair Lift Station, along with aging infrastructure also has a problem with non-disposable wipes and shop rags that are not degradable and builds up on the shallow sloped Interceptor invert during low flows rates. During peak diurnal flows, the buildup rags enters the lift station in the form of rag balls (condition known as ragging) and significantly reduces the output of the pumps. Currently, the existing Montclair Lift Station has no bar screens to remove rags, so maintenance personnel have to derag the pumps at the Montclair Lift Station three times per week to maintain proper efficiency. With the reduction of pump output due to ragging, the level of wastewater in the interceptor will rise and flow will back-up in the sewage system, creating a potential compliance issue.

The City of Ontario has a smart lid on the influent trunk line to the Montclair Lift Station. Should the level in the trunk line rise to a certain point, the smart lid will send a signal to the City of Ontario's personnel. At that point, the City of Ontario's personnel will contact the IEUA's collection crew. IEUA's collections crew will contact RP-1 operations for verification of the current conditions and wastewater level of the Montclair Lift Station wetwell. If deemed necessary, the flow can then be diverted away from the Montclair Lift Station at the diversion structure. The flow into the station should be reduced to approximately 0.5 MGD (million

gallons per day). The wastewater flows to Montclair Lift Station cannot be easily diverted to Carbon Canyon Wastewater Recycling Facility.

The diversion is made with a manual gate, hand lifted by maintenance personnel and tied into place by chains. The flow cannot be easily diverted and requires traffic control, maintenance personnel and coordination with the staff before any flow diversion.

In addition, there are multiple issues related to operations of the Montclair Lift Station that we believe add to the pump ragging and generate operational and maintenance challenges including, but not limited to: inefficient pumps, outdated control system to control the pumps, level measuring system that is difficult to maintain due to lack of accessibility, and outdated electrical switch gear with unavailable replacement parts. With the upgrades to the Montclair Lift Station, it is anticipated that ragging and operational challenges will be mitigated.

In summary, the proposed system upgrade in the Montclair Lift Station consists of:

- Replace the existing pumps and motors to mitigate the ragging issue
- Replace the existing electrical switch gear/ Motor Control Center (MCC)
- Replace the existing system with a Variable Frequency Drive (VFD) system along with inverter motors for higher efficiency in power usage and power monitoring equipment
- Replace the backup generator automatic transfer switch with a new unit to increase reliability
- Install a maintenance friendly redundant level monitoring system
- Upgrade the Programmable Logic Controller (PLC) control panel as needed for a new VFD system
- Provide Control Strategies for the operations of the lift station and enhance the remote control of the Montclair Lift Station
- Install a Heating, Ventilating, and Air Conditioning (HVAC) system for PLC and VFD cooling
- Upgrade the Southern California Edison (SCE) 400-amp service to 600-amp service

The Montclair Lift Station project will be advertised for construction bids on October 3, 2013, with bids due to be received on November 5, 2013. Construction of the project is expected to be completed by December 2014. The Engineer's cost estimate for this project is \$2,700,000 and with 20% contingency it is anticipated the cost construction does not exceed \$3,300,000.



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

Montclair Lift Station Upgrades Construction Contract Award

October 2013

Craig J. Parker, P.E., Manager of Engineering
Sylvie Lee, P.E., Deputy Manager of Engineering
Nasrin Maleki P.E., Senior Engineer



Project Background

- ❖ MLS was constructed in 1976
- ❖ MLS is operated with original equipment/ technology
- ❖ MLS electrical/ control system is obsolete
- ❖ MLS pumps rag rapidly
 - ❖ Reducing pumps output significantly
 - ❖ De-rag the pumps three times per week



Project Description

- ❖ Provide design to mitigate ragging
- ❖ Replace Electrical Switch Gear/MCC
- ❖ Replace with VFD system
- ❖ Replace backup generator automatic transfer switch
- ❖ Install redundant level monitoring system
- ❖ Provide remote control enhancement



Traffic Control for Diversion Structure

Project Schedule and Construction Cost

Description	Date
Award Construction Contract	December 2013
Construction Completion	December 2014

Construction Contract not to exceed \$3,300,000
with 20% Contingency

**INFORMATION
ITEM**

3A



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

RECYCLED WATER UPDATE

FY 2012/13

REGIONAL RECYCLED WATER SYSTEM

Recycled Water
Capital Projects
June 2013

Legend

▲ Treatment Plant

Pump Station and Reservoirs

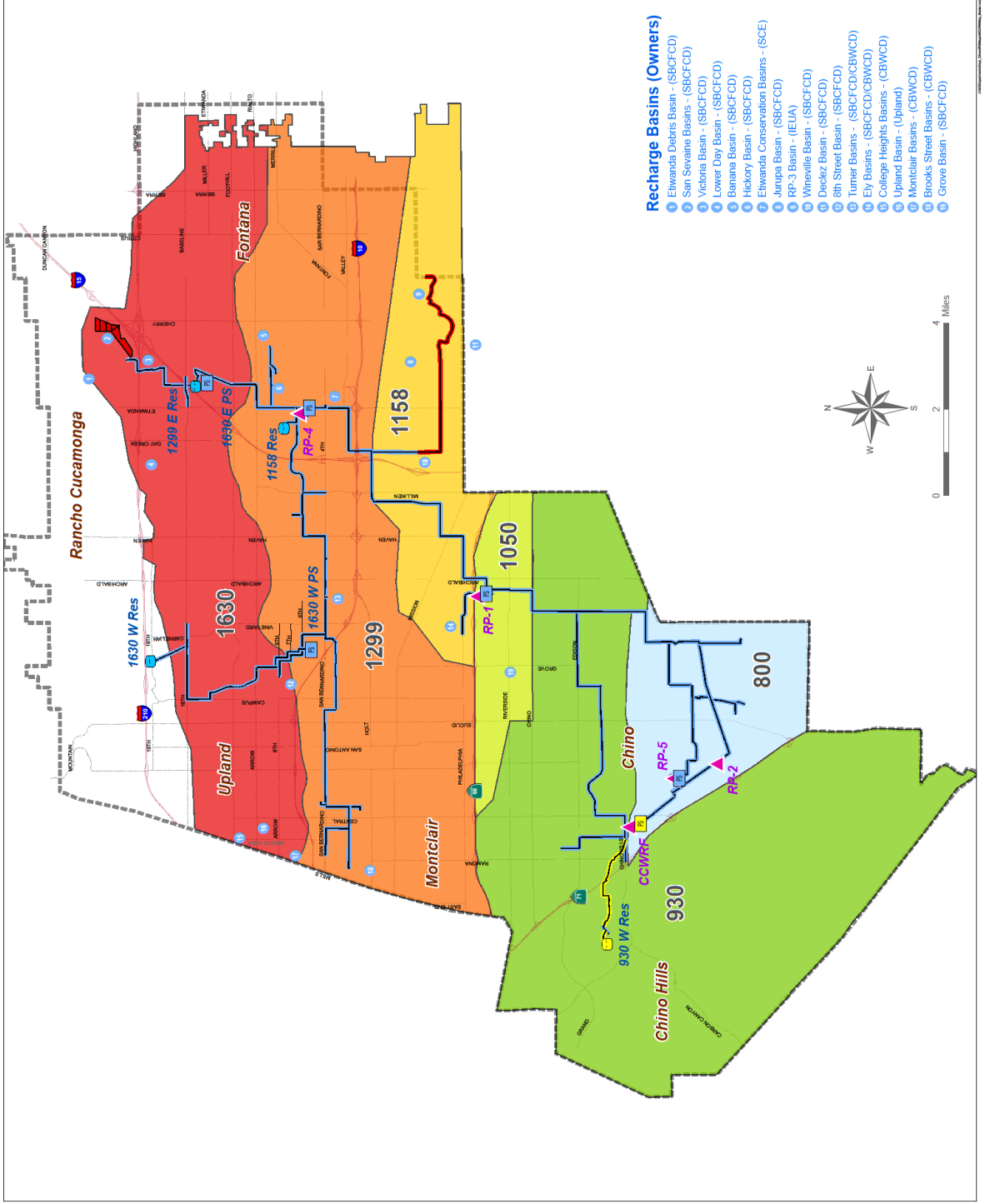
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|----------|-------|----------------|-------------|
| ■ Design | ■ Bid | ■ Construction | ■ Operating |
| ■ Design | ■ Bid | ■ Construction | ■ Operating |
| ■ Design | ■ Bid | ■ Construction | ■ Operating |

Project Status Legend Key

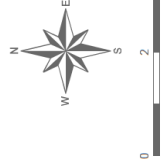
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Pressure Zones

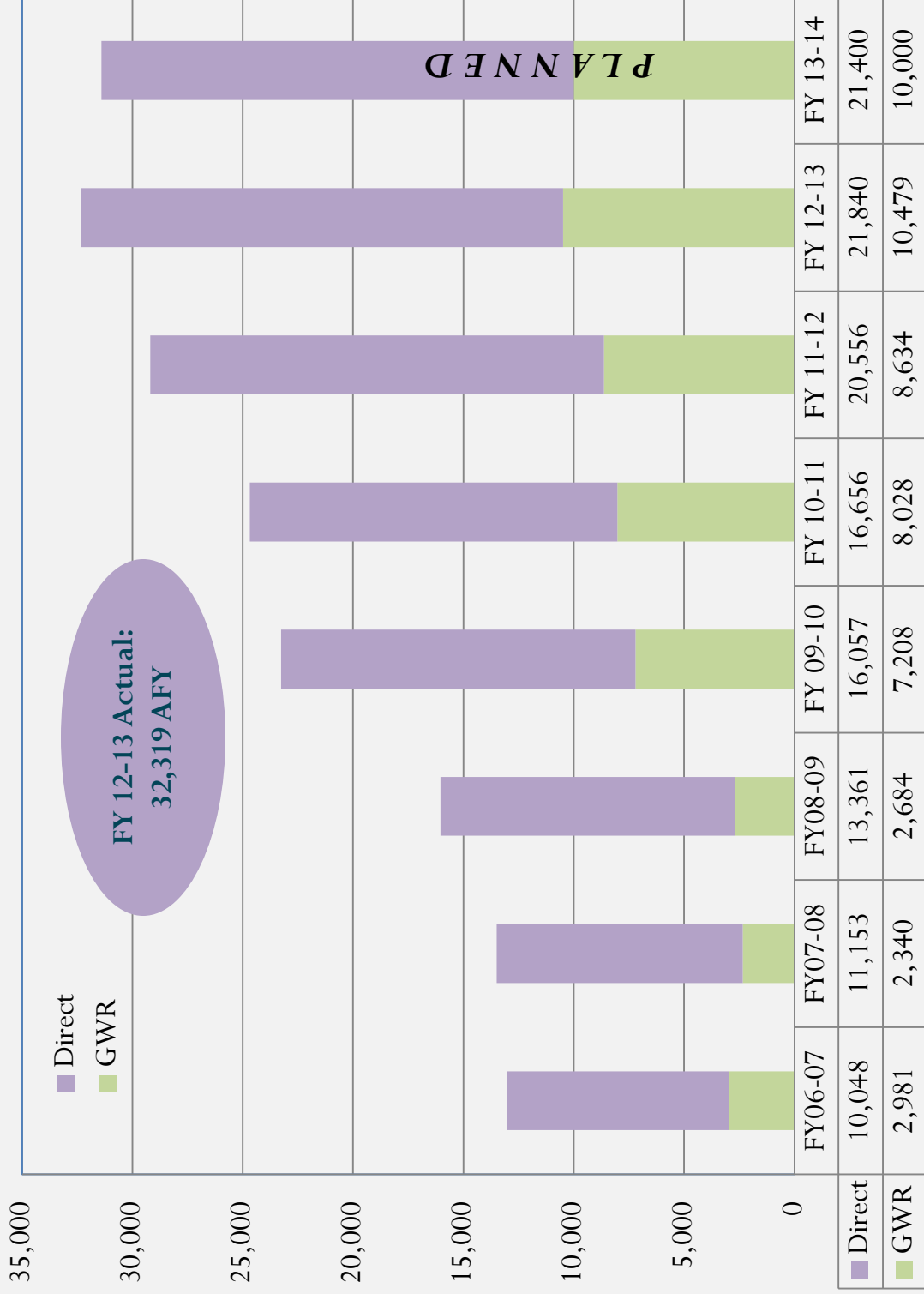
- | | | | | | |
|-------|-------|--------|--------|--------|--------|
| ■ 800 | ■ 930 | ■ 1050 | ■ 1158 | ■ 1299 | ■ 1630 |
|-------|-------|--------|--------|--------|--------|



- ### Recharge Basins (Owners)
- 1 Elwanda Debris Basin - (SBCFCD)
 - 2 San Seavine Basins - (SBCFCD)
 - 3 Victoria Basin - (SBCFCD)
 - 4 Lower Day Basin - (SBCFCD)
 - 5 Banana Basin - (SBCFCD)
 - 6 Hickory Basin - (SBCFCD)
 - 7 Elwanda Conservation Basins - (SCE)
 - 8 Junipua Basin - (SBCFCD)
 - 9 Wineville Basin - (SBCFCD)
 - 10 Decker Basin - (SBCFCD)
 - 11 8th Street Basin - (SBCFCD)
 - 12 Turner Basins - (SBCFCD/CBWCD)
 - 13 Ely Basins - (SBCFCD/CBWCD)
 - 14 College Heights Basins - (CBWCD)
 - 15 Upland Basin - (Upland)
 - 16 Montclair Basins - (CBWCD)
 - 17 Brooks Street Basins - (CBWCD)
 - 18 Grove Basin - (SBCFCD)



RECYCLED WATER DELIVERIES



GROUNDWATER RECHARGE DELIVERIES

Agency	Pro Rata Share of Regional Flow (%)	Recharge Allocation (Acre-Feet) FY 12/13
Chino	10.67	1,057
Chino Hills	9.19	910
CVWD	24.37	2,414
Fontana	19.18	1,900
Montclair	4.33	429
Ontario	22.12	2,191
Upland	10.14	1,004
Totals	100.00	9,905
JCSD's Allocation:		574
Total Amount Recharged:		10,479



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

Questions?

**INFORMATION
ITEM**

3B



Date: October 3, 2013
To: Regional Technical Committee
From: Inland Empire Utilities Agency
Subject: Annual Water Use Report for Fiscal Year 2012/2013

RECOMMENDATION

This is an information item for the Regional Technical Committee to receive and file.

BACKGROUND

This item was approved by the IEUA Board of Directors on September 18, 2013.



Date: September 18, 2013

To: The Honorable Board of Directors

Through: Public, Legislative Affairs and Water Resources Committee (09/11/13)

From: P. Joseph Grindstaff
General Manager

Submitted by: Chris Berch
Manager of Planning & Environmental Compliance

Subject: Annual Water Use Report for Fiscal Year 2012/13

RECOMMENDATION

This is an informational item for the Board of Directors to receive and file.

BACKGROUND

Inland Empire Utilities Agency (IEUA) staff monitors and compiles water use data from each of the eight member agencies in the Agency's service area to track overall water demands and sources of supply. Each year, this data is compiled into an Annual Water Use Report. Data includes monthly water use (by each member agency and by source of supply), a five-year history of water use, and retail agency water usage as a percentage of the total water used in the service area.

In FY 2012/13, Southern California experienced another hot and dry year. For a second consecutive year, the IEUA member agencies water use increased. Water use has increased by approximately 17,000 acre-feet (8%), since to FY 2010/11. In addition to the continued hot and dry weather, there were signs of growth emerging from developers, potentially resulting in higher water use.

As the region continues to bounce back from the economic recession and as the pace of growth begins to increase, future water demands are expected to increase as well. In response to growing water demand and supply challenges, IEUA and its member agencies have made aggressive efforts to ensure adequate water supplies in the future by diversifying and maximizing local resource development and expanding water use efficiency programs. These efforts have better prepared the service area to cope with potential State Water Project supply constraints.

Below is a summary and update on the region's major water supply efforts and programs.

- IEUA and its member agencies are developing an Integrated Resources Plan. The purpose of this Plan is to develop an overall strategy for meeting projected demands within the IEUA service area in a cost-effective manner. The Plan will be completed by September 2014.
 - The Plan will result in a demand model, updated demand and supply projections, an updated Water Use Efficiency Business Plan, an evaluation on water supply opportunities, a financial evaluation of IEUA's recycled water and imported water rate models and a Final Plan.
- In coordination with Chino Basin Watermaster and the Chino Basin Water Conservation District, IEUA will implement the 2013 Recharge Master Plan Update. This Update is scheduled to be completed and submitted to the Court in October 2013.
 - This Update includes capital projects that will increase stormwater capture and recharge, as well as additional recycled water recharge.
- IEUA and its member agencies are developing a Recycled Water Program Strategy, which will further implement the Recycled Water Business Plan;
 - In FY 2012/13, the IEUA Recycled Water Program continued to expand its connected demand and maximize recycled water deliveries with record sales of approximately 31,000 AF (this includes direct reuse and recharge).
- IEUA and its member agencies will continue working towards completing the Phase III expansion of the Chino Desalters, which will increase capacity from 24,600 AFY to 40,000 AFY;
 - In FY 2012/13, the Chino Desalters maximized production, as they produced approximately 24,000 acre-feet.
- IEUA and its member agencies continue to implement the water use efficiency programs outlined in the long term Regional Water Use Efficiency Business Plan completed in September 2010. This document serves as the blueprint for the Agency's existing regional programs while providing the guidance for developing new cost-effective initiatives.
 - In FY 2012/13, the regional water use efficiency programs saved an estimated 503 acre-feet, with an estimated lifetime savings of 4,046 acre-feet.

IEUA would like to thank its member agencies and the Chino Basin Watermaster for their assistance in compiling the data contained in this report.

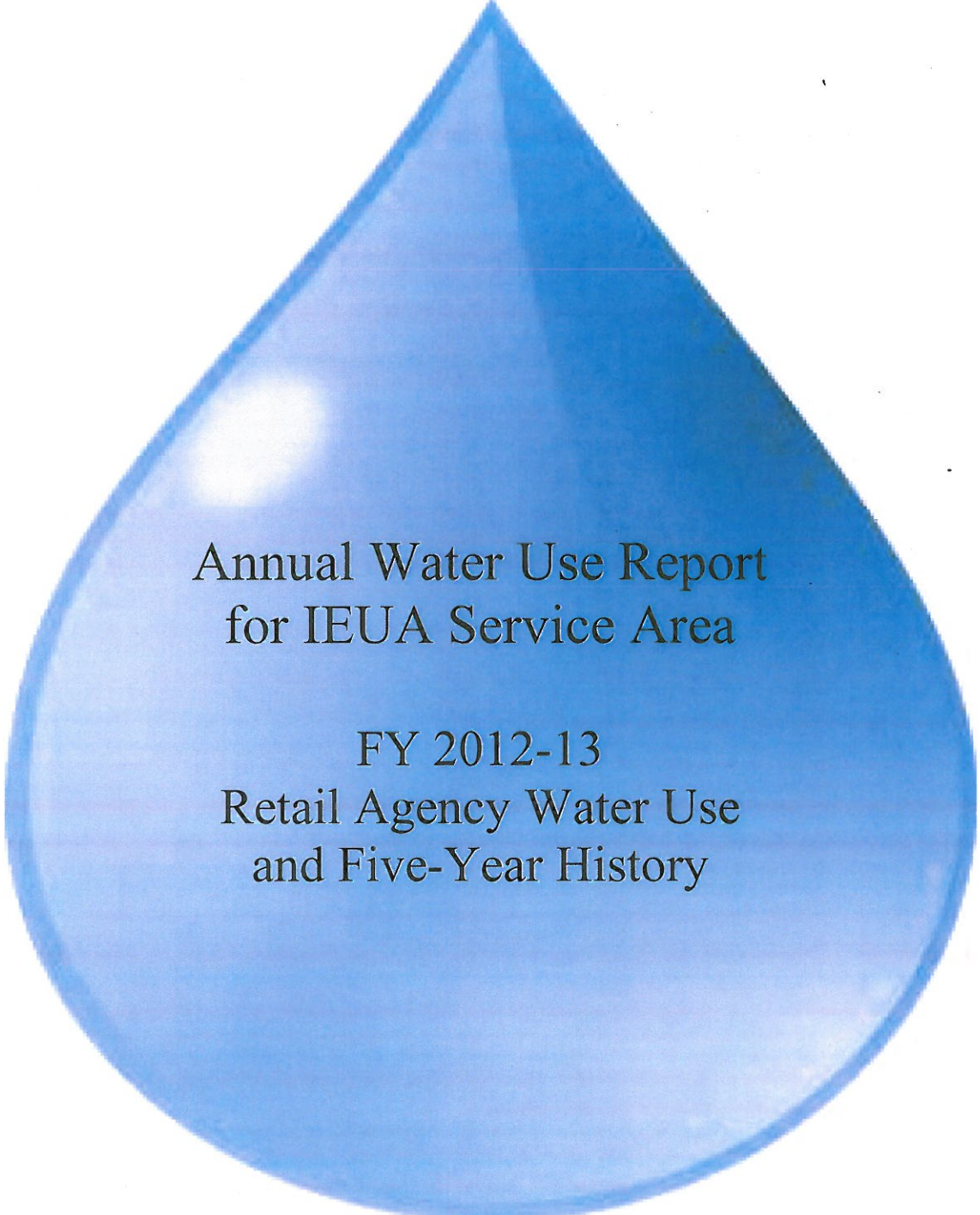
PRIOR BOARD ACTION

None.

IMPACT ON BUDGET

None.

Attachment:
FY 2012/13 Annual Water Use Report



Annual Water Use Report
for IEUA Service Area

FY 2012-13
Retail Agency Water Use
and Five-Year History



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

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- **City of Ontario.....13**
- **City of Upland.....15**
- **Cucamonga Valley Water District.....17**
- **Fontana Water Company.....19**
- **Monte Vista Water District.....21**
- **San Antonio Water Company.....23**

Section 3: Appendices

Appendix A – Summary Water Use Data by Fiscal Year

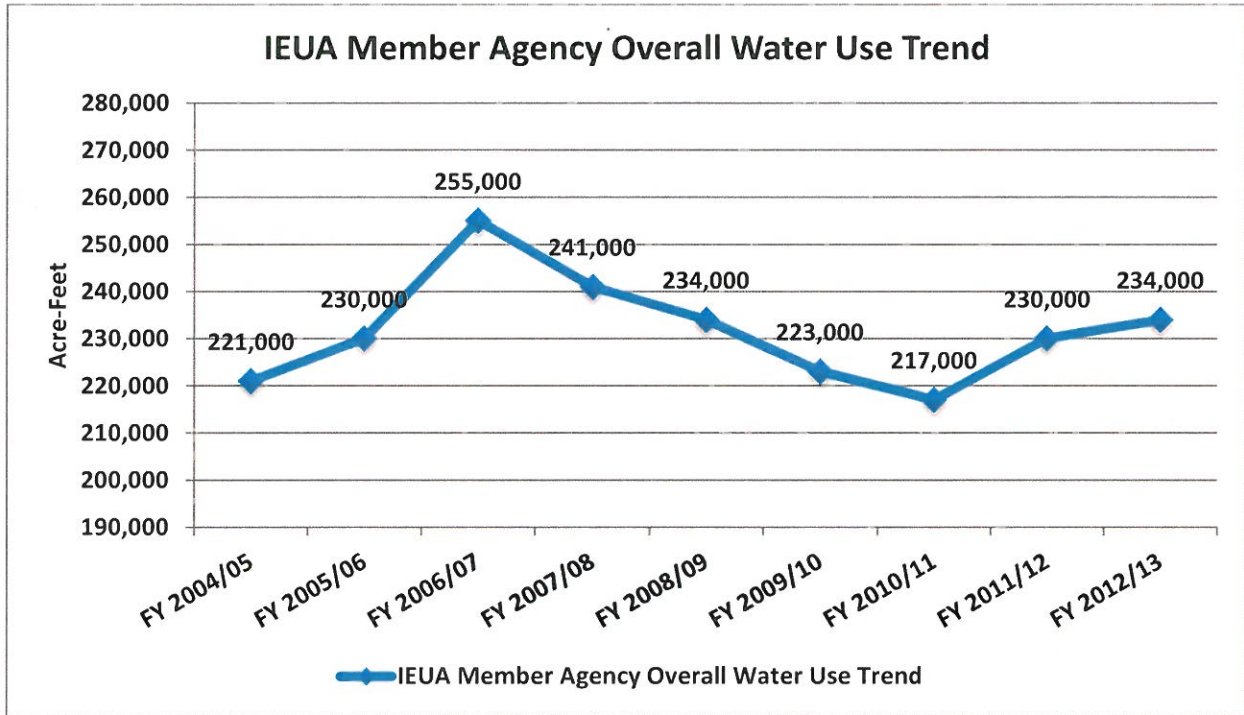
Appendix B – Summary Water Use Data by Calendar Year

Appendix C – 5-Year Historical Data

Appendix D – Definitions

Preface
FY 2012-13 Water Use Summary Report

In FY 2012-13, Southern California experienced another hot and dry year. For a second consecutive year, the IEUA member agencies water use increased. Water use has increased by approximately 17,000 acre-feet (8%), since to FY 2010/11. In addition to the continued hot and dry weather, there were signs of growth emerging from developers, potentially resulting in higher water use.



As the region continues to bounce back from the economic recession and as the pace of growth begins to increase, future water demands are expected to increase as well. In response to growing water demand and supply challenges, IEUA and its member agencies have made aggressive efforts to ensure adequate water supplies in the future by diversifying and maximizing local resource development and expanding water use efficiency programs. These efforts have better prepared the service area to cope with potential State Water Project supply constraints.

Below is a summary and update on the region's major water supply efforts and programs.

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 - The Plan will result in a demand model, updated demand and supply projections, an updated Water Use Efficiency Business Plan, an evaluation on water supply

opportunities, a financial evaluation of IEUA's recycled water and imported water rate models and a Final Plan.

- In coordination with Chino Basin Watermaster and the Chino Basin Water Conservation District, IEUA will implement the 2013 Recharge Master Plan Update. This Update is scheduled to be completed and submitted to the Court in October 2013.
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 - In FY 2012/13, the Chino Desalters maximized production, as they produced approximately 24,000 acre-feet.
- IEUA and its member agencies continue to implement the water use efficiency programs outlined in the long term Regional Water Use Efficiency Business Plan completed in September 2010. This document serves as the blueprint for the Agency's existing regional programs while providing the guidance for developing new cost-effective initiatives.
 - In FY 2012/13, the regional water use efficiency programs saved an estimated 503 acre-feet, with an estimated lifetime savings of 4,046 acre-feet.

IEUA and its member agencies continue to invest in local supplies, by expanding the recycled water program, groundwater recovery program, recharge program and water use efficiency programs to ensure a reliable water supply in the future.

IEUA would like to thank its member agencies and the Chino Basin Watermaster for their assistance in compiling the data contained in this report.

SECTION 1

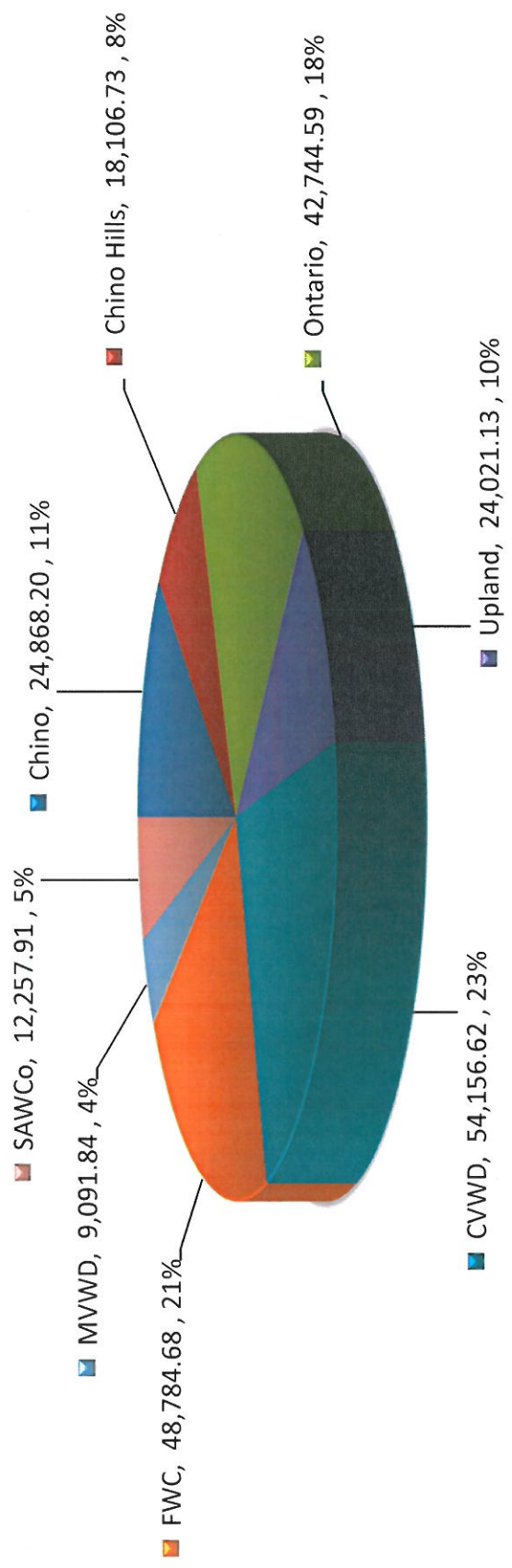
This section contains water resources data from FY 2012-13, by IEUA member agency.

Table 1. Total IEUA Service Area Water Use by Retail Agency for FY 2012-13

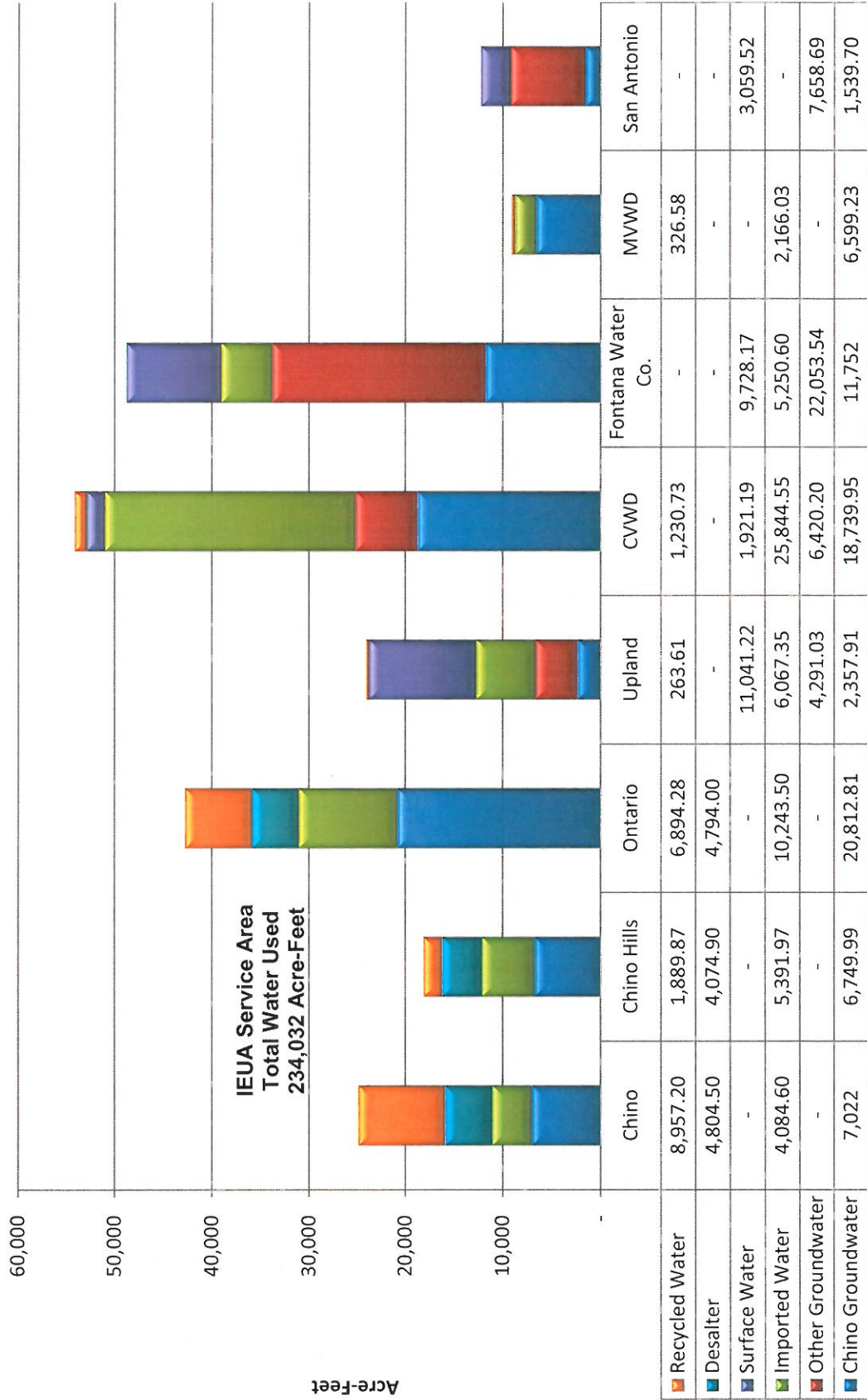
	Chino	Chino Hills	Ontario	Upland	CVWD	FWC	MVWD	SAWCO	TOTAL
Imported									
Tier I/II (MVWD)	4,085	5,392	10,244	6,067	25,845	5,251	2,166	-	59,049
DYY (MVWD)	-	-	-	-	-	-	-	-	-
SUBTOTAL	4,085	5,392	10,244	6,067	25,845	5,251	2,166	-	59,049
Chino Groundwater	7,022	6,750	20,813	2,358	18,740	11,752	6,599	1,540	75,574
Recycled Water	8,957	1,890	6,894	264	1,231	-	327	-	19,562
Other Groundwater	-	-	-	4,291	6,420	22,054	-	7,659	40,423
Surface Water	-	-	-	11,041	1,921	9,728	-	3,060	25,750
Desalter	4,805	4,075	4,794	-	-	-	-	-	13,673
SUBTOTAL	20,784	12,715	32,501	17,954	28,312	43,534	6,926	12,258	174,983
TOTAL	24,868	18,107	42,745	24,021	54,157	48,785	9,092	12,258	234,032

- **Note:** Monte Vista Water District, as a wholesaler, delivered 3,730 AF of Chino Basin groundwater to the City of Chino Hills. This is reported in Table 1 under the City of Chino Hills. This is also reported under the City of Chino Hills throughout the report.
- **Note:** Monte Vista Water District, as a wholesaler, delivered 3,570 AF of imported water to the City of Chino Hills. This is reported in Table 1 under the City of Chino Hills. This is also reported under the City of Chino Hills throughout the report.

Total IEUA Service Area Water Used For FY 2012/2013



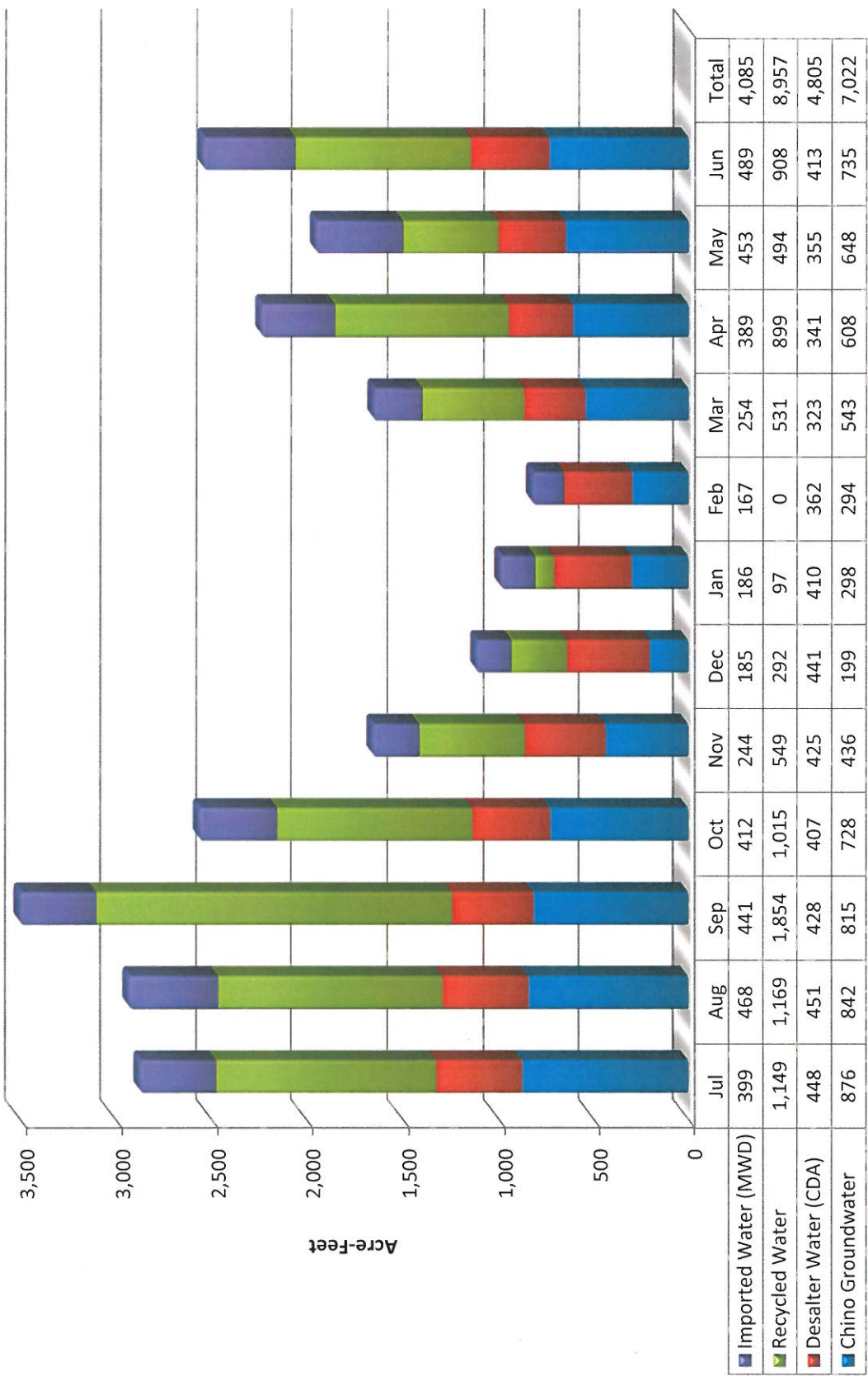
Total IEUA Service Area Water Used For FY 2012-2013



SECTION 2

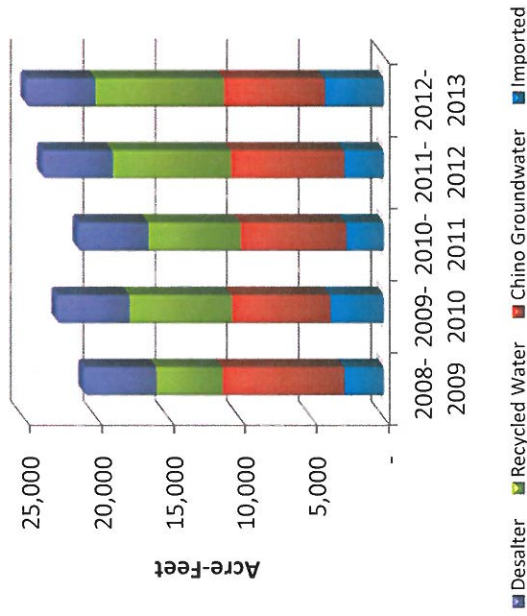
This section contains water use data from FY 2012-13 for each of the IEUA member agencies, their 5-year water use trends and their varying supply sources. Each agency will have its own sub-section that contains data about FY 2012-13 water use, including the water pumped out of the MWD Dry Year Yield groundwater storage account, as well as historical water use trends over the past 5-years.

City of Chino FY 2012-13 Monthly Water Use

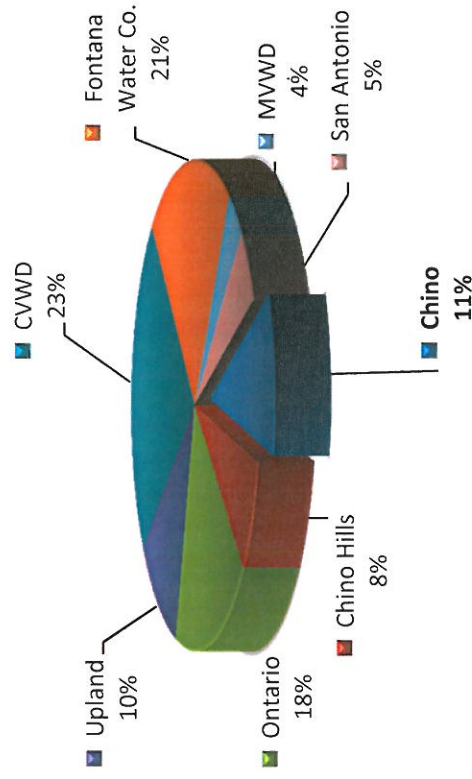


City of Chino FY 2012/13 Water Use Report

5 Year Water Use Trends

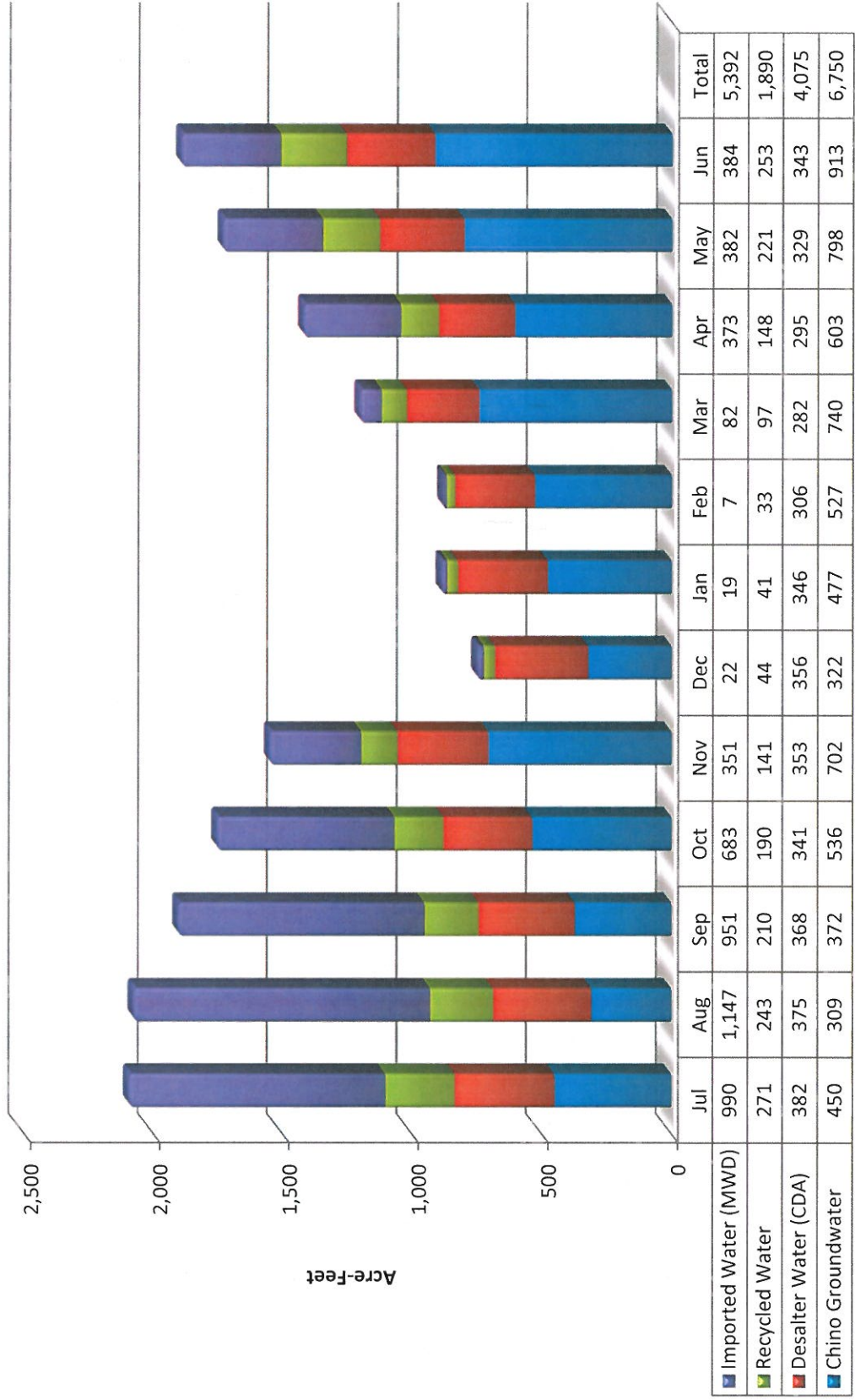


FY 2012/13 Total Water Used



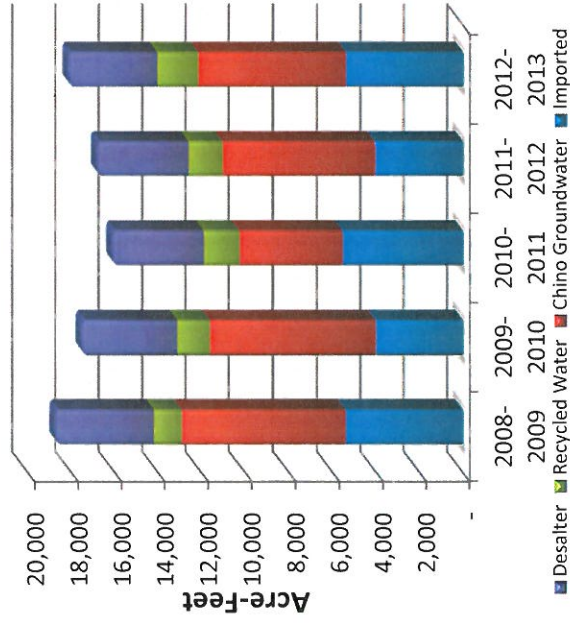
The City of Chino used 11% (24,868 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

City of Chino Hills FY 2012-13 Monthly Water Use

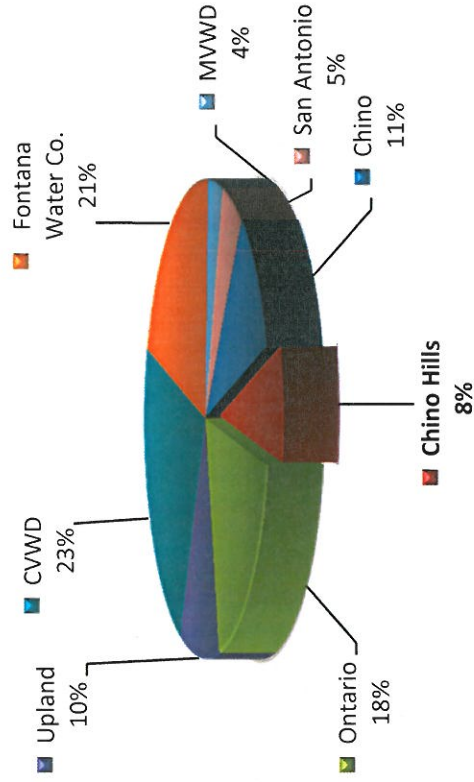


City of Chino Hills FY 2012-13 Water Use Report

5 Year Water Use Trends

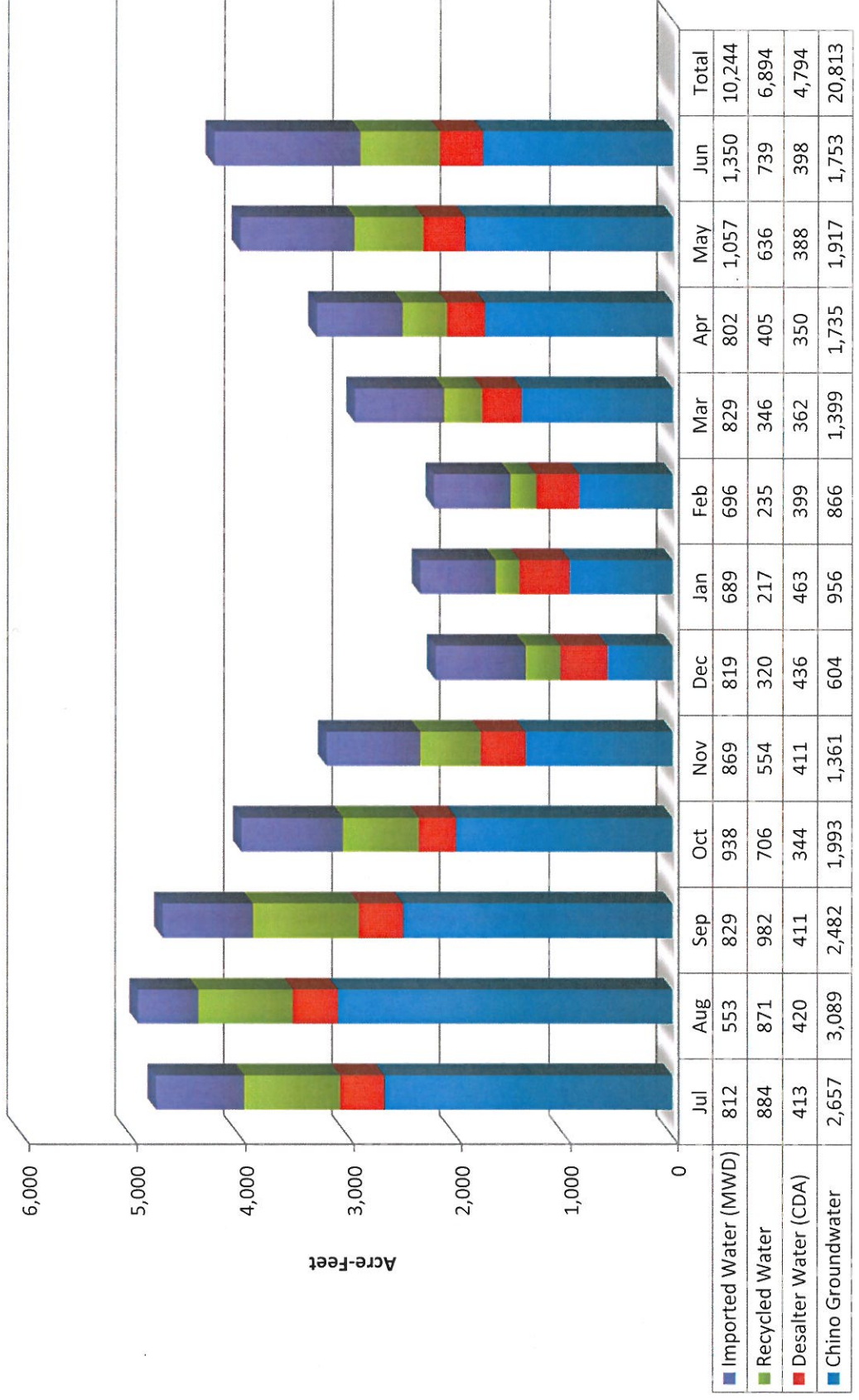


FY 2012/13 Total Water Used



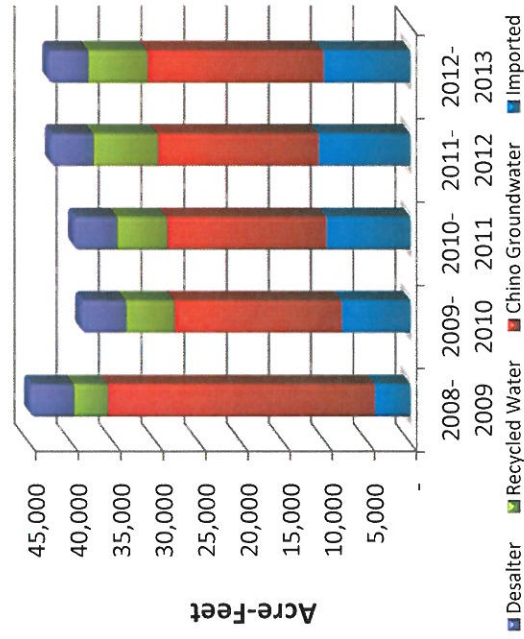
The City of Chino Hills used 8% (18,107 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

City of Ontario FY 2012-13 Monthly Water Use

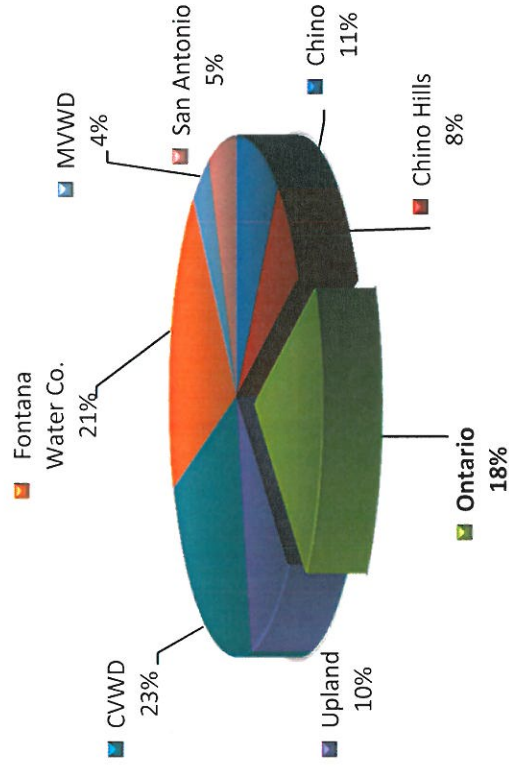


City of Ontario FY 2012-13 Water Used Report

5 Year Water Use Trends

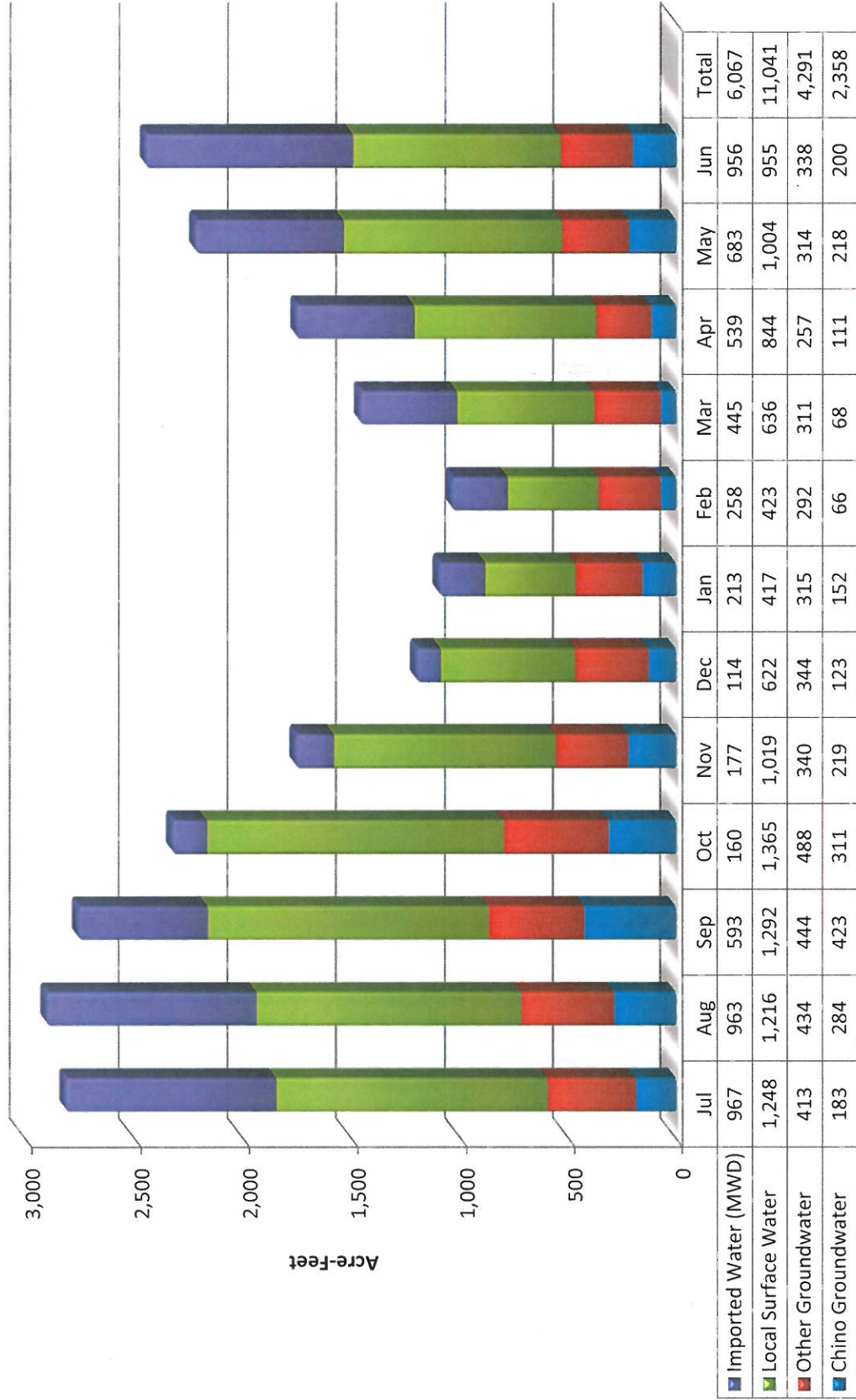


FY 2012/13 Total Water Used



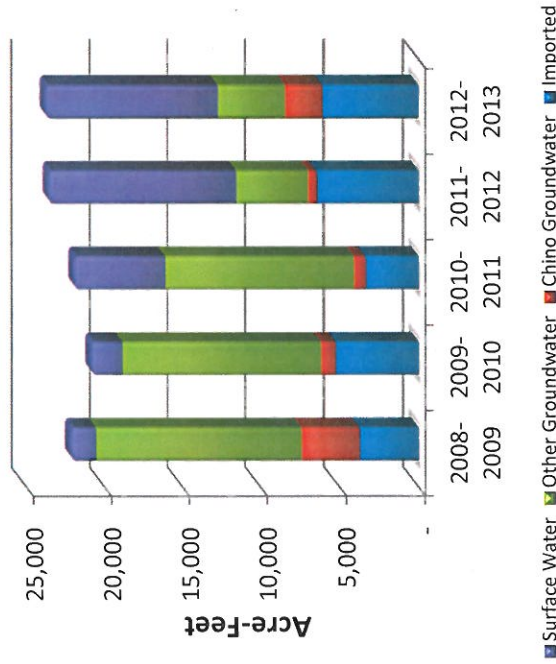
The City of Ontario used 18% (42,745 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

City of Upland FY 2012/13 Monthly Water Use

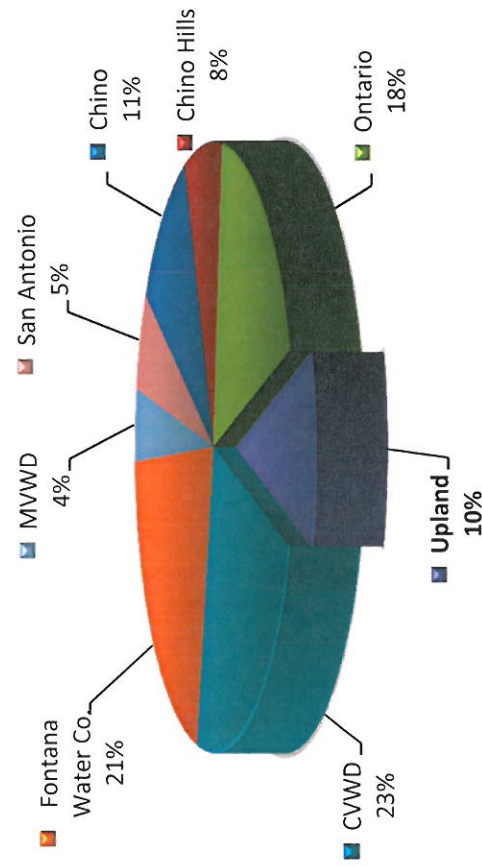


City of Upland FY 2012-13 Water Used Report

5 Year Water Use Trends

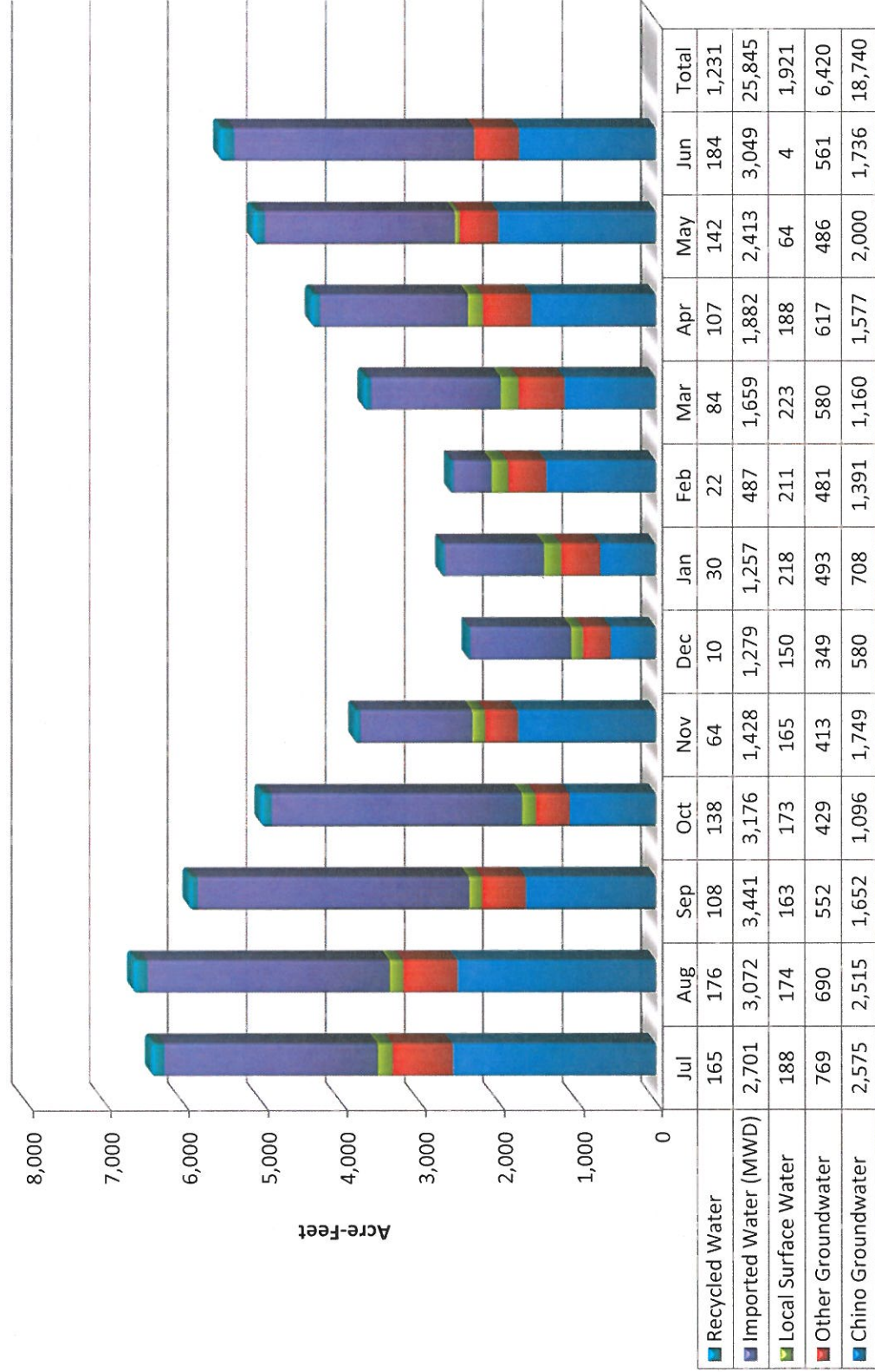


FY 2012/13 Total Water Used



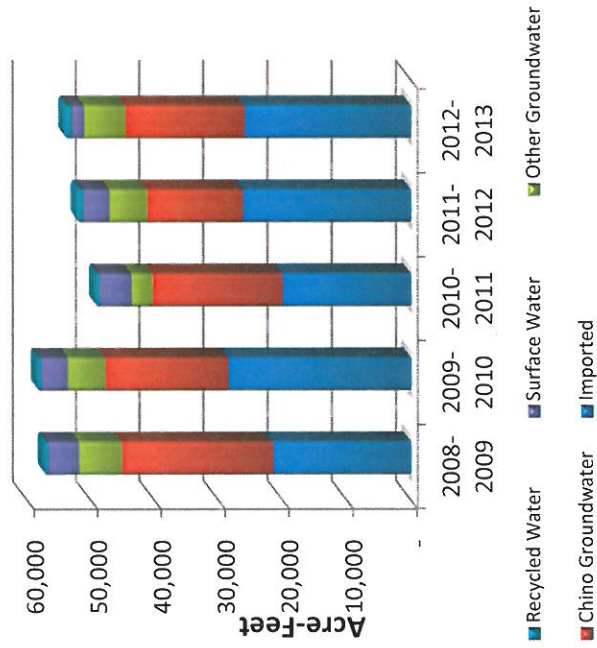
The City of Upland used 10% (24,021 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

Cucamonga Valley Water District FY 2012/13 Monthly Water Use

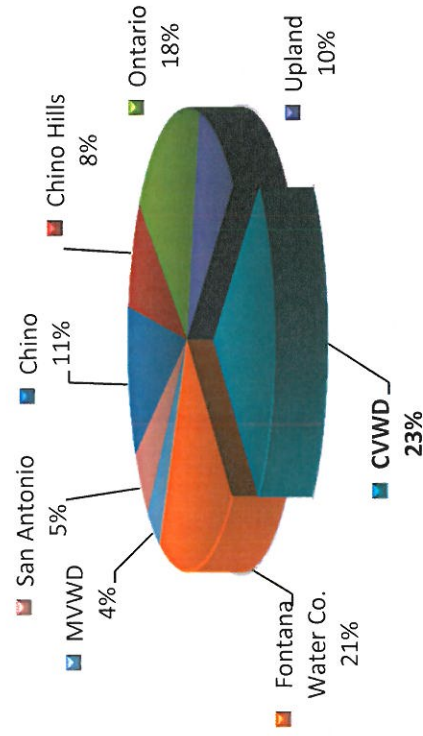


Cucamonga Valley Water District FY 2012-13 Water Used Report

5 Year Water Use Trends

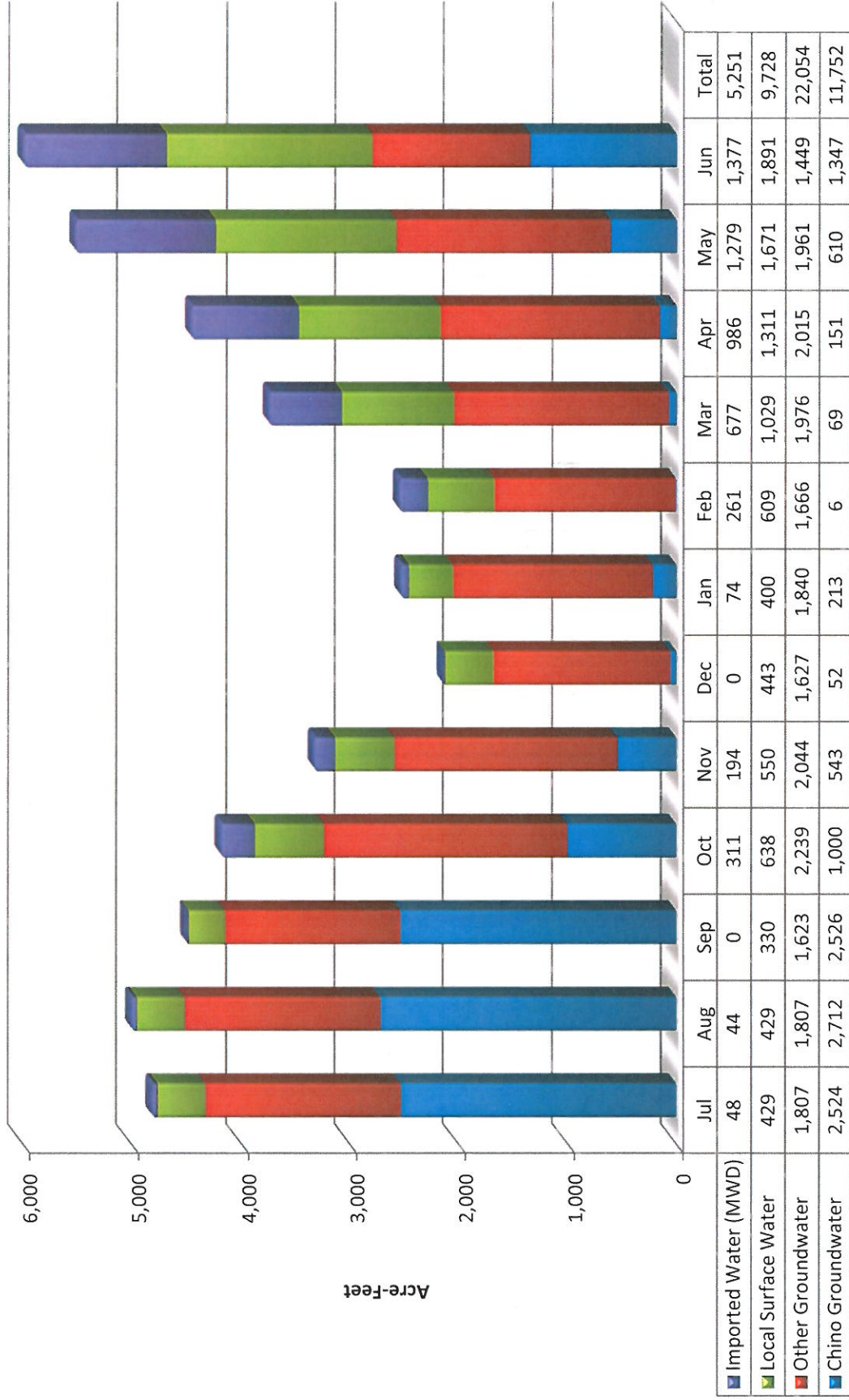


FY 2012/13 Total Water Used



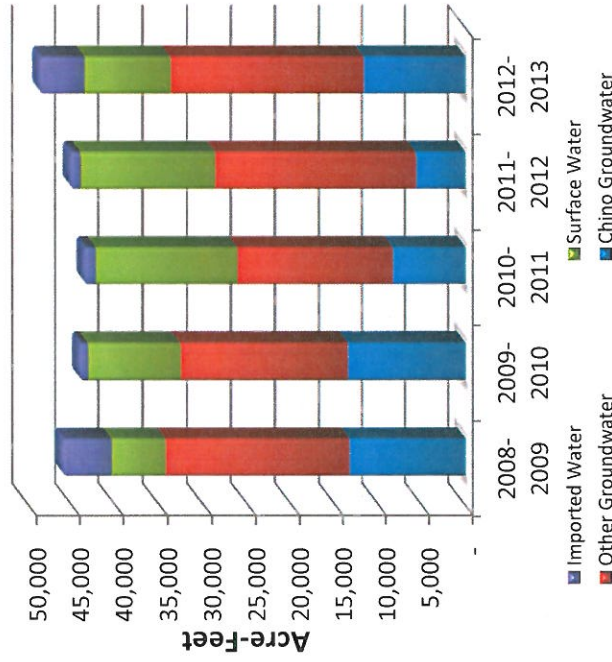
The CVWD used 23% (54,157 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

Fontana Water Co. FY 2012/13 Monthly Water Use

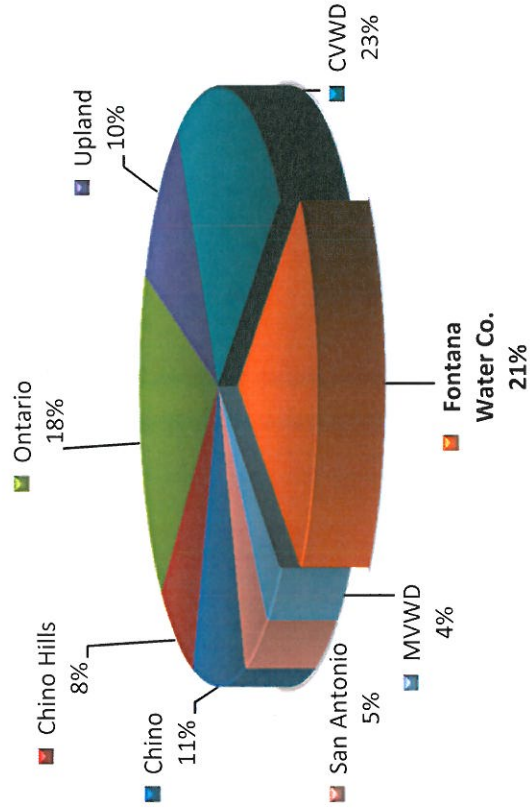


Fontana Water Company FY 2012-13 Water Used Report

5 Year Water Use Trends

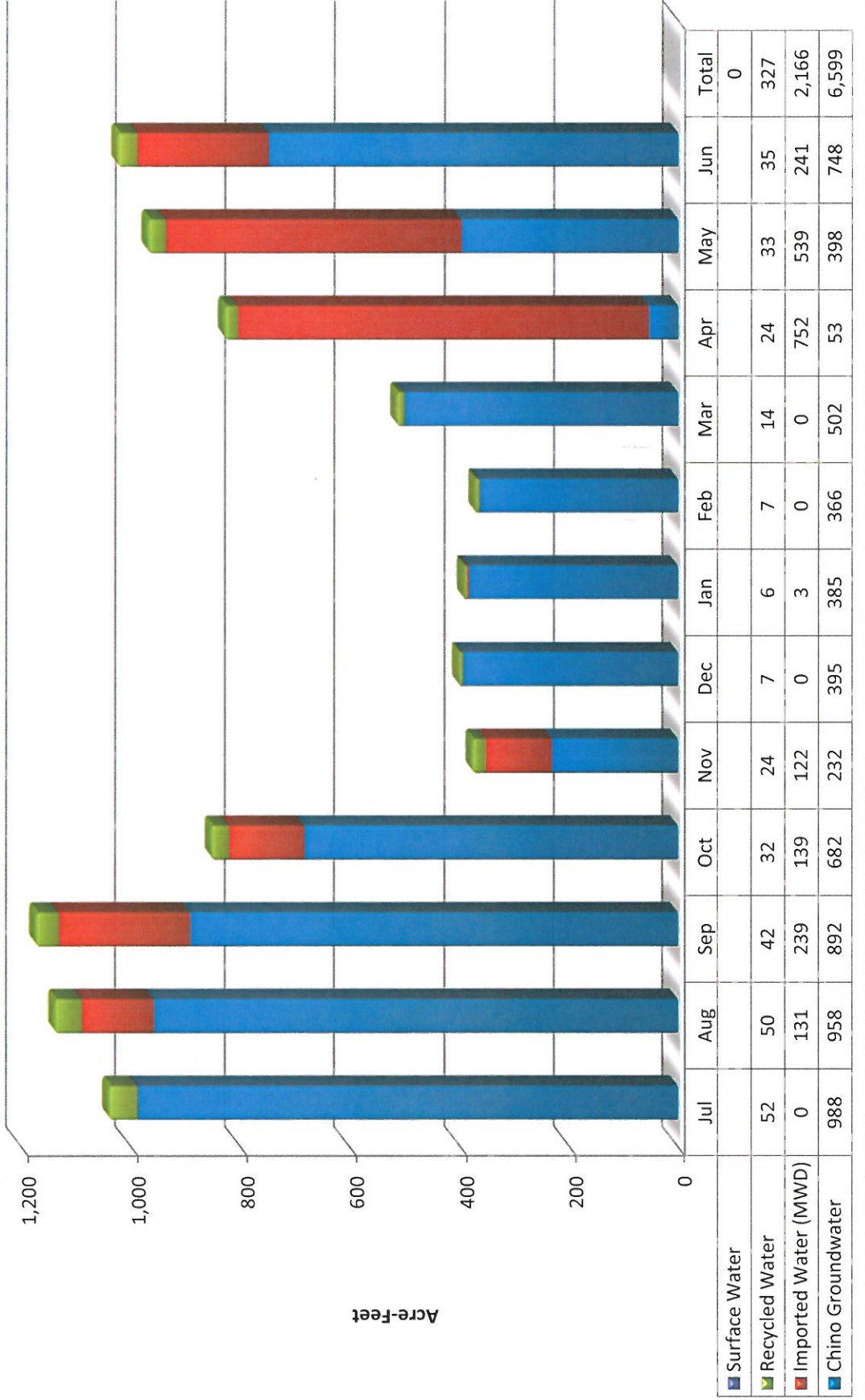


FY 2012/13 Total Water Used



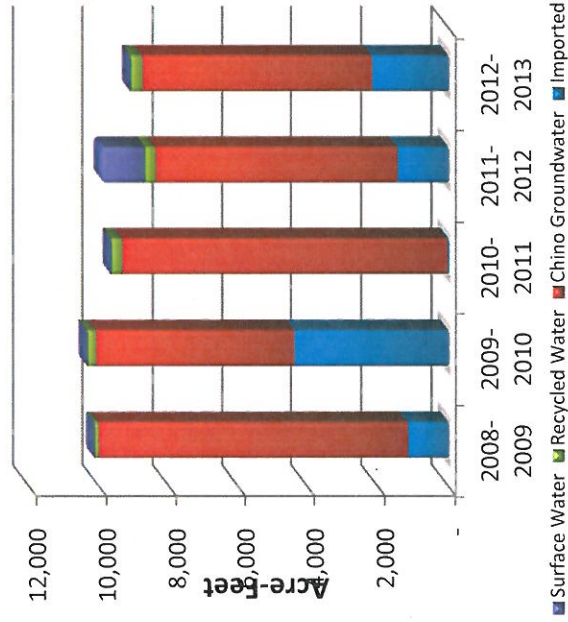
The Fontana Water Company used 21% (48,785 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

Monte Vista Water District FY 2012/13 Monthly Water Use

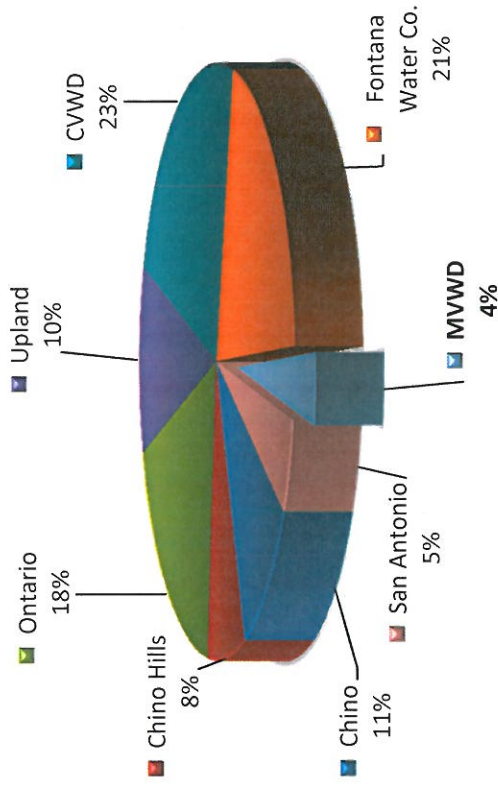


Monte Vista Water District FY 2012-13 Water Used Report

5 Year Water Use Trends

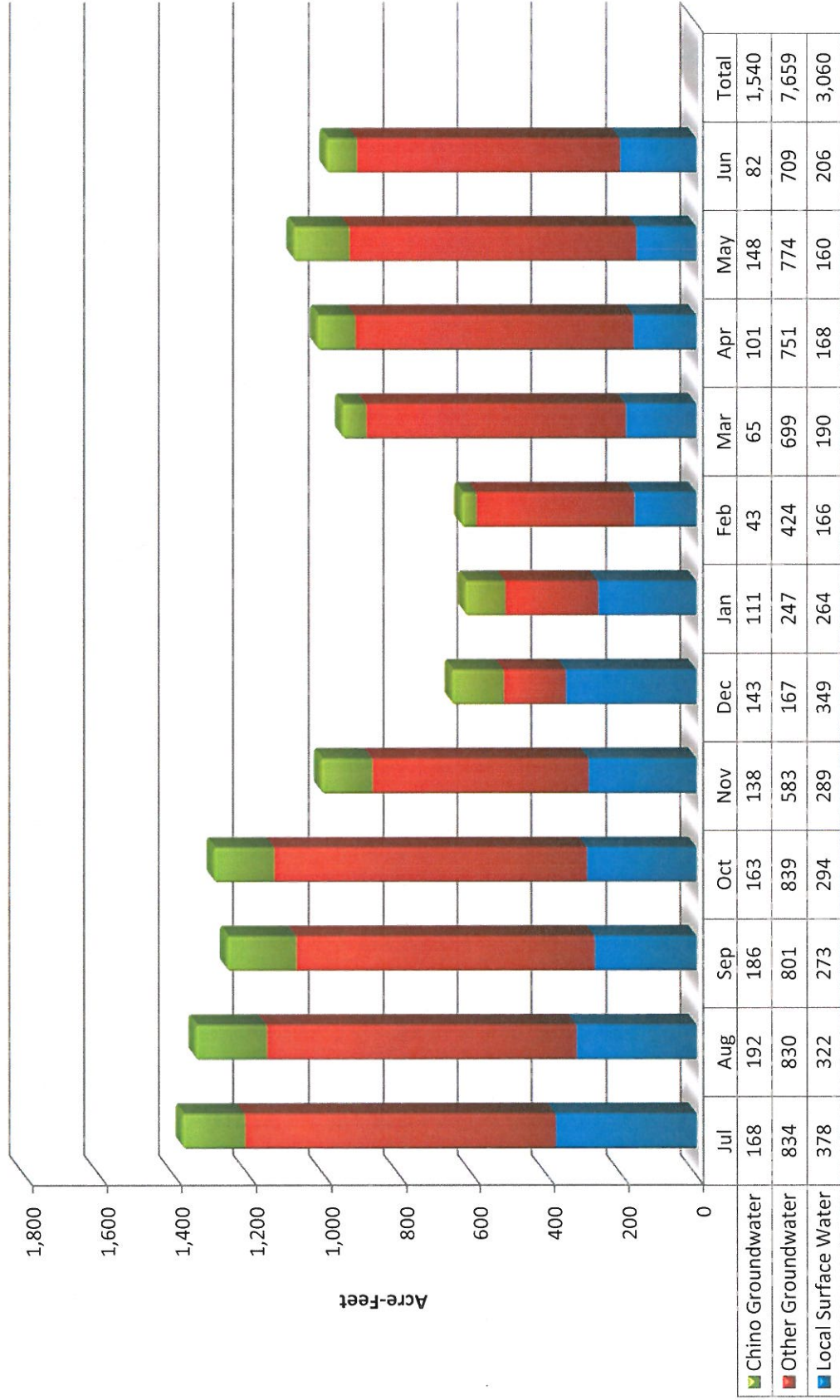


FY 2012/13 Total Water Used



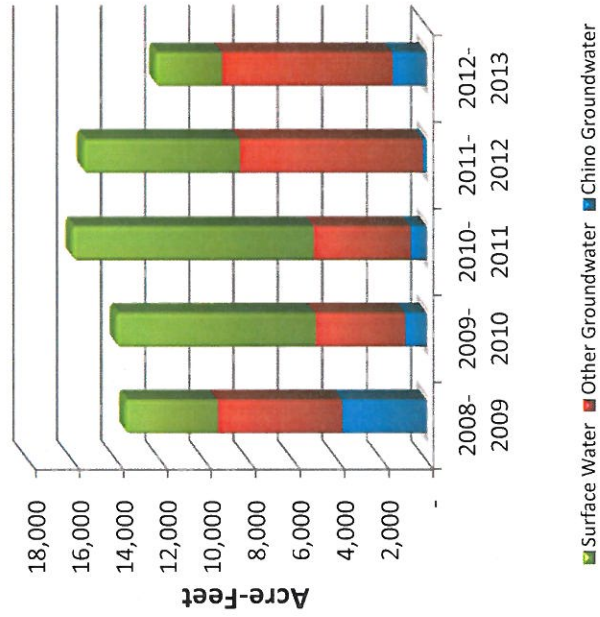
The Monte Vista Water District used 4% (9,092 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

San Antonio Water Co. FY 2012/13 Monthly Water Use

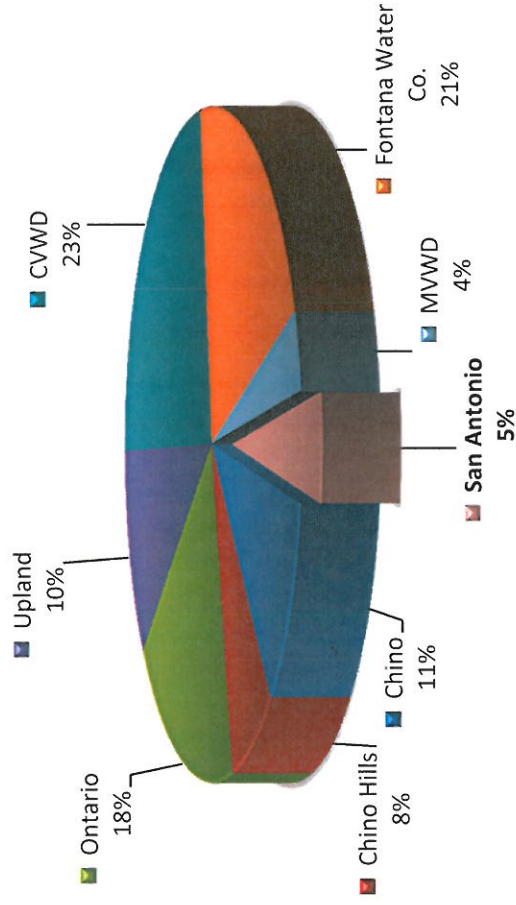


San Antonio Water District FY 2012-13 Water Used Report

5 Year Water Use Trends



FY 2012/13 Total Water Used



The San Antonio Water District used 5% (12,258 acre-feet) out of 234,032 acre-feet used in the IEUA service area.

Appendix A

FY 2012-13 Water Use Data

City of Chino	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	876	842	815	728	436	199	298	294	543	608	648	735	7,022
Imported Water (MWD)	399	468	441	412	244	185	186	167	254	389	453	489	4,085
DYY (MWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycled Water	1,149	1,169	1,854	1,015	549	292	97	0	531	899	494	908	8,957
Desaliner Water (CDA)	448	451	428	407	425	441	410	362	323	341	355	413	4,805
Total	2,872	2,929	3,538	2,563	1,655	1,116	991	823	1,650	2,237	1,951	2,545	24,868

City of Chino Hills	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	450	309	372	536	702	322	477	527	740	603	798	913	6,750
Imported Water (MWD)	990	1,147	951	683	351	22	19	7	82	373	382	384	5,392
Direct Purchase from WFA	260	287	287	198	114	5	5	2	20	271	222	151	1,822
DYY (MWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycled Water	271	243	210	190	141	44	41	33	97	148	221	253	1,890
Desaliner Water (CDA)	362	375	368	341	353	356	346	306	282	295	329	343	4,075
Total	2,092	2,074	1,902	1,750	1,547	744	882	873	1,201	1,419	1,730	1,893	18,107

City of Ontario	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	2,657	3,089	2,482	1,993	1,361	604	956	866	1,399	1,735	1,917	1,753	20,813
Imported Water (MWD)	812	553	829	938	869	819	689	696	829	802	1,057	1,350	10,244
DYY (MWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycled Water	884	871	982	706	554	320	217	235	346	405	636	739	6,894
Desaliner Water (CDA)	413	420	411	344	411	436	463	399	362	350	388	398	4,794
Total	4,765	4,932	4,704	3,981	3,195	2,180	2,324	2,195	2,932	3,293	3,998	4,239	42,745

City of Upland	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	183	284	423	311	219	123	152	66	68	111	218	200	2,358
Imported Water (MWD)	967	963	593	160	177	114	213	258	445	539	683	956	6,067
DYY (MWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Groundwater	413	434	444	488	340	344	315	292	311	257	314	338	4,291
Local Surface Water	1,248	1,216	1,292	1,365	1,019	622	417	423	636	844	1,004	955	11,041
Recycled Water	0	0	0	0	0	12	3	3	45	56	70	74	264
Total	2,812	2,898	2,753	2,323	1,755	1,215	1,100	1,043	1,504	1,808	2,288	2,523	24,021

CVWD	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	2,575	2,515	1,652	1,096	1,749	580	708	1,391	1,160	1,577	2,000	1,736	18,740
Imported Water (MWD)	2,701	3,072	3,441	3,176	1,428	1,279	1,257	487	1,659	1,882	2,413	3,049	25,845
DYY (MWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycled Water	165	176	108	138	64	10	30	22	84	107	142	184	1,231
Other Groundwater	769	690	552	429	413	349	493	481	580	617	486	561	6,420
Local Surface Water	188	174	163	173	165	150	218	211	223	188	64	4	1,921
Total	6,397	6,627	5,916	5,012	3,819	2,368	2,707	2,593	3,707	4,371	5,105	5,535	54,157

Fontana Water Co	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	2,524	2,712	2,526	1,000	543	52	213	6	69	151	610	1,347	11,752
Imported Water (MWD)	48	44	0	311	194	0	74	261	677	986	1,279	1,377	5,251
Other Groundwater	1,807	1,807	1,623	2,239	2,044	1,627	1,840	1,666	1,976	2,015	1,961	1,449	22,054
Local Surface Water	429	429	330	638	550	443	400	609	1,029	1,311	1,671	1,891	9,728
Total	4,808	4,993	4,480	4,187	3,331	2,122	2,526	2,542	3,750	4,463	5,521	6,064	48,785

MVWD	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	1,102	962	1,013	1,063	935	558	498	581	928	386	925	1,380	10,330
Imported Water (MWD)	730	991	903	624	359	17	17	5	62	854	699	474	5,737
DYY (MWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
Recycled Water	52	50	42	32	24	7	6	7	14	24	33	35	327
Surface Water (SAWCo)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,040	1,139	1,173	853	379	402	393	373	516	829	970	1,025	9,092

San Antonio Water Co	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	168	192	186	163	138	143	111	43	65	101	148	82	1,540
Other Groundwater	834	830	801	839	583	167	247	424	699	751	774	709	7,659
Local Surface Water	378	322	273	294	289	349	264	166	190	168	160	206	3,060
Total	1,380	1,345	1,260	1,295	1,011	659	623	633	954	1,021	1,082	996	12,258

TOTAL	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Chino Groundwater	10,421	10,901	9,349	6,508	5,380	2,419	3,298	3,559	4,546	4,940	6,737	7,514	75,574
Recycled Water	2,520	2,509	3,197	2,081	1,332	685	394	300	1,117	1,640	1,596	2,192	19,562
Other Groundwater	3,823	3,762	3,421	3,994	3,380	2,487	2,895	2,863	3,567	3,640	3,535	3,058	40,423
Surface Water	2,242	2,142	2,059	2,470	2,023	1,563	1,300	1,409	2,078	2,510	2,899	3,055	25,750
Desaliner	1,242	1,246	1,207	1,092	1,190	1,232	1,219	1,067	967	985	1,073	1,154	13,673
Imported Water (MWD)	5,916	6,377	6,494	5,820	3,385	2,420	2,441	1,876	3,945	5,724	6,805	7,846	59,049
DYY (MWD)	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	26,165	26,936	25,726	21,965	16,690	10,806	11,546	11,074	16,219	19,440	22,645	24,819	234,032

Note: DYY data is shown for each agency. It is not included in the total columns. It is accounted for in the Chino Basin Groundwater resource.

Appendix B

Calendar Year 2012 Water Use Data

City of Chino	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	609.6	488.2	515.1	503.6	723.9	865.8	876.0	841.6	814.8	728.2	436.2	198.6	7,601.5
Imported Water (MWD)	137.1	131.2	152.0	134.3	256.3	336.2	398.5	467.5	440.9	412.4	243.8	185.0	3,295.2
DYY (MWD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycled Water	276.5	302.5	500.1	591.6	672.2	695.3	1,149.1	1,168.9	1,854.0	1,015.2	549.5	292.0	9,066.8
Desalter Water	399.7	327.5	371.1	414.0	454.7	471.2	448.0	451.1	428.1	406.8	425.4	440.5	5,038.1
TOTAL	1,423	1,249	1,538	1,643	2,107	2,369	2,872	2,929	3,538	2,563	1,655	1,116	25,002

City of Chino Hills	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	662.3	349.5	245.4	358.7	598.3	356.8	450.1	309.0	372.5	535.7	702.5	322.1	5,263.0
Imported Water (MWD)	0.7	214.0	250.1	245.4	438.2	927.2	989.9	1,146.6	951.2	683.2	351.0	22.4	6,219.9
DYY (MWD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycled Water	35.6	48.9	54.9	64.1	133.9	222.9	270.5	243.4	210.0	189.9	140.6	43.7	1,658.3
Desalter Water	338.7	317.3	348.4	351.8	383.2	345.7	381.6	375.1	368.2	341.2	353.3	355.6	4,260.1
TOTAL	1,037	930	899	1,020	1,554	1,853	2,092	2,074	1,902	1,750	1,547	744	17,401

City of Ontario	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	1,087.1	879.9	928.5	1,075.0	1,820.0	2,245.0	2,656.6	3,088.8	2,482.2	1,993.5	1,360.8	604.4	20,221.6
Imported Water (MWD)	906.7	911.8	958.9	879.0	981.6	955.9	812.1	552.9	829.0	938.3	869.4	819.4	10,415.0
DYY (MWD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycled Water	364.4	384.6	320.6	314.1	520.3	887.1	884.2	870.6	982.4	705.6	553.6	320.4	7,107.7
Desalter Water	433.2	398.0	427.0	414.6	409.3	395.3	412.6	419.7	410.9	343.8	410.8	436.1	4,911.3
TOTAL	2,791	2,574	2,635	2,683	3,731	4,483	4,765	4,932	4,704	3,981	3,195	2,180	42,656

City of Upland	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	151.8	27.1	52.1	22.2	3.2	8.5	183.5	284.2	423.5	310.6	218.9	123.0	1,808.6
Imported Water (MWD)	335.5	210.8	181.9	351.8	827.5	1,013.6	967.3	962.8	592.8	159.8	176.9	113.9	5,894.6
DYY (MWD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Groundwater	416.3	314.4	388.4	365.0	341.2	268.8	412.9	434.4	444.5	488.2	339.8	344.1	4,558.1
Surface Water	541.2	714.1	843.8	820.1	1,354.6	1,310.8	1,248.3	1,216.3	1,292.4	1,364.9	1,019.0	621.5	12,347.0
Recycled Water	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0
TOTAL	1,445	1,266	1,466	1,559	2,526	2,602	2,812	2,898	2,753	2,323	1,755	1,215	24,620

CVWD	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	609.0	510.9	546.0	593.3	1,022.2	1,593.4	2,574.5	2,515.0	1,651.7	1,096.1	1,748.9	580.2	15,041.4
Imported Water (MWD)	1,873.4	1,489.1	1,717.4	1,972.9	2,991.4	3,132.4	2,700.6	3,071.7	3,441.1	3,176.3	1,427.9	1,279.3	28,273.5
DYY (MWD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycled Water	37.0	40.0	48.2	59.7	143.5	146.7	165.0	175.8	108.2	137.6	64.4	10.2	1,136.2
Other Groundwater	513.9	556.1	428.9	352.7	481.5	644.3	769.0	689.9	551.5	428.9	412.9	348.9	6,178.6
Surface Flows	315.7	256.1	312.1	314.1	270.0	206.7	187.6	174.3	163.2	173.2	164.7	149.6	2,687.3
TOTAL	3,349	2,852	3,053	3,293	4,909	5,724	6,397	6,627	5,916	5,012	3,819	2,368	53,317

Fontana Water Co	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	6.2	4.4	7.2	242.4	1,517.3	2,171.2	2,524.2	2,711.9	2,526.1	999.8	542.9	52.0	13,305.4
Imported Water (MWD)	0.1	40.0	146.9	178.8	123.0	0.0	48.1	44.4	0.0	310.5	194.0	0.0	1,085.8
Other Groundwater	2,156.2	2,001.1	2,006.1	1,756.9	1,931.9	1,785.7	1,806.8	1,807.4	1,623.3	2,238.6	2,043.5	1,626.8	22,784.3
Surface Water	866.2	787.9	955.7	1,037.0	621.9	457.8	428.5	429.0	330.5	637.9	550.2	442.8	7,545.2
TOTAL	3,029	2,833	3,116	3,215	4,194	4,415	4,808	4,993	4,480	4,187	3,331	2,122	44,721

MVWD	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	531.0	159.4	148.6	548.1	759.9	954.8	988.3	958.2	892.0	681.9	232.2	395.2	7,249.5
Imported Water (MWD)	0.0	321.4	542.9	145.6	181.5	682.3	0.0	130.7	238.9	139.2	122.0	0.0	2,504.5
DYY (MWD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycled Water	13.7	11.0	9.2	15.3	33.4	41.1	51.6	50.0	42.3	32.3	24.4	6.7	331.0
Surface Water	126.21	78.89	55.3	96.92	102.73	34.8	0.0	0.0	0.0	0.0	0.0	0.0	494.9
TOTAL	545	492	701	709	975	1,678	1,040	1,139	1,173	853	379	402	10,580

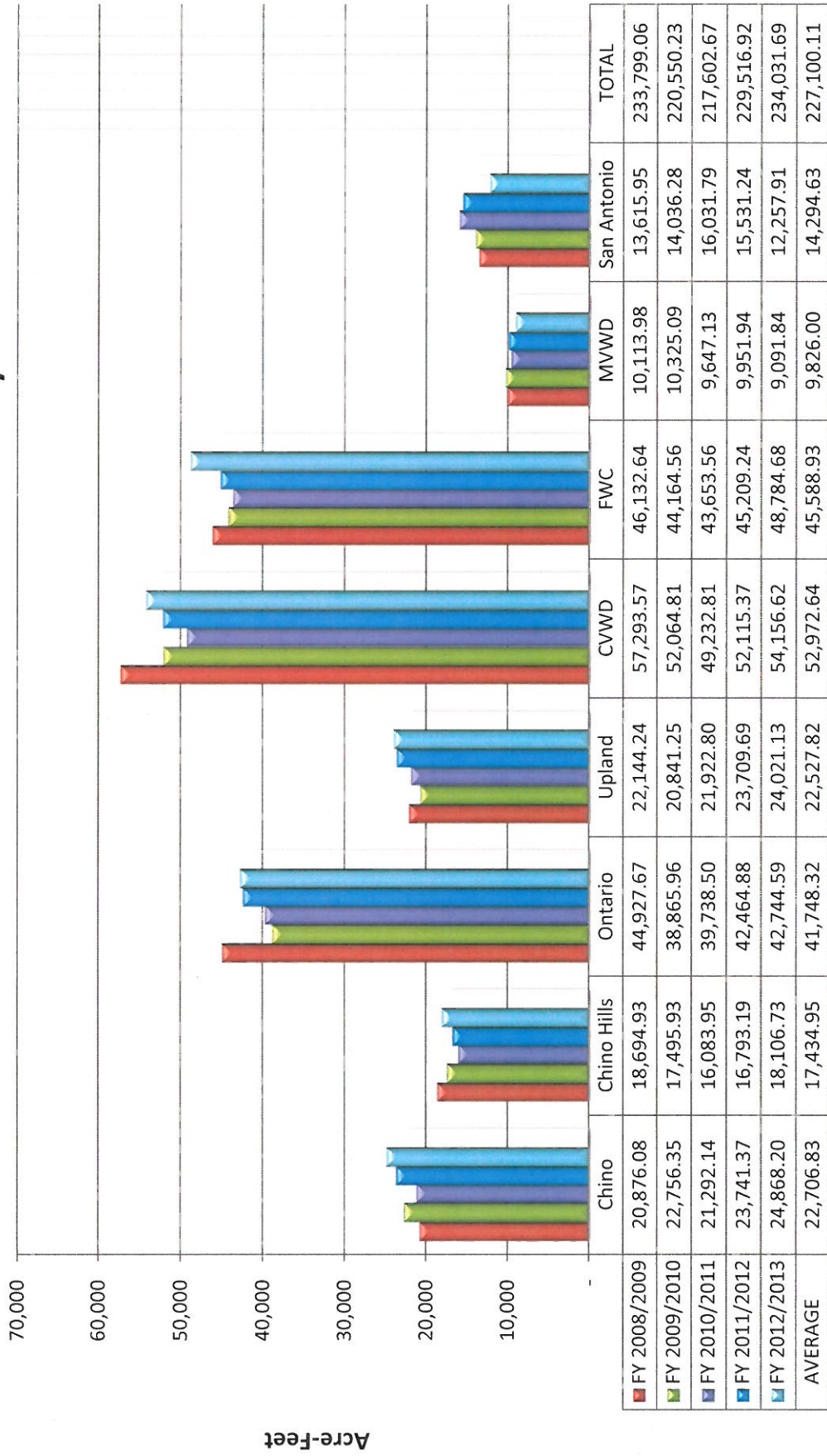
San Antonio Water Co	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Groundwater	0.4	0.4	0.0	1.4	0.7	99.0	167.8	192.3	185.9	162.6	138.1	143.1	1,091.6
Other Groundwater	485.05	575.8	425.44	280.57	590.91	807	833.9	830.2	801.2	838.7	583.3	166.7	7,218.7
Surface Water	511.99	456.35	556.87	588.77	599.36	442.57	377.9	322.2	273.0	294.2	289.3	349.4	5,061.9
TOTAL	997	1,033	982	871	1,191	1,349	1,380	1,345	1,260	1,295	1,011	659	13,372

All Agencies	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Chino Groundwater	3,657.4	2,419.7	2,442.8	3,344.6	6,445.5	8,294.5	10,421.0	10,900.9	9,348.7	6,508.4	5,380.5	2,418.7	71,582.5
Recycled Water	727.1	787.0	933.0	1,044.7	1,503.3	1,993.1	2,520.4	2,508.6	3,196.8	2,080.6	1,332.4	685.0	19,312.0
Other Groundwater	3,571.5	3,447.5	3,248.9	2,755.1	3,345.5	3,505.7	3,822.7	3,761.8	3,420.5	3,994.4	3,379.5	2,486.5	40,739.7
Surface Water	2,361.3	2,293.4	2,723.8	2,856.9	2,948.6	2,452.6	2,242.4	2,141.8	2,059.1	2,470.1	2,023.2	1,563.3	28,136.2
Desalter	1,171.6	1,042.8	1,146.5	1,180.4	1,247.2	1,212.2	1,242.2	1,245.9	1,207.2	1,091.8	1,189.5	1,232.2	14,209.5
Imported Water (MWD)	3,253.5	3,318.3	3,950.1	3,907.8	5,799.5	7,047.6	5,916.5	6,376.6	6,493.9	5,819.7	3,385.0	2,420.0	56,602.7
DYY (MWD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	14,742	13,309	14,445	15,089	21,290	24,506	26,165	26,936	25,726	21,965	16,690	10,806	230,583

Note: DYY data is shown for each agency. It is not included in the total columns. It is accounted for in the Chino Basin Groundwater resource.

Appendix C

Retail Agency 5-Year Historical Water Use Summary



Appendix D

Definitions

Desalter Water – Product water from Chino Desalter I owned and operated by the Chino Desalter Authority (CDA). Groundwater, with high levels of TDS, is treated and distributed to several retail water agencies within the Inland Empire Water Agency (IEUA) service area for potable uses.

Chino Groundwater – Water pumped from the Chino Basin aquifer and treated by retail water agencies for all potable uses within the IEUA service area.

MWD Imported Water – Water from Northern California and supplied by the Metropolitan Water District of Southern California (MWD), and water transferred from other groundwater basins to retail water agencies operating within the IEUA service area. All Tier I and Tier II deliveries are included in this category.

Recycled Water – Title 22 recycled water produced by IEUA at its water recycling plants for distribution through separate pipelines to retail water agency customers for all non-potable uses.

Surface Water – Water collected by retail water agencies from mountain runoff and storm flows, which is collected and treated for potable use.

Water From Other Groundwater Basins – Water produced from other local groundwater basins to retail water agencies operating within the IEUA service area. In this report, “water from other basins” is shown within the category of “other groundwater.”



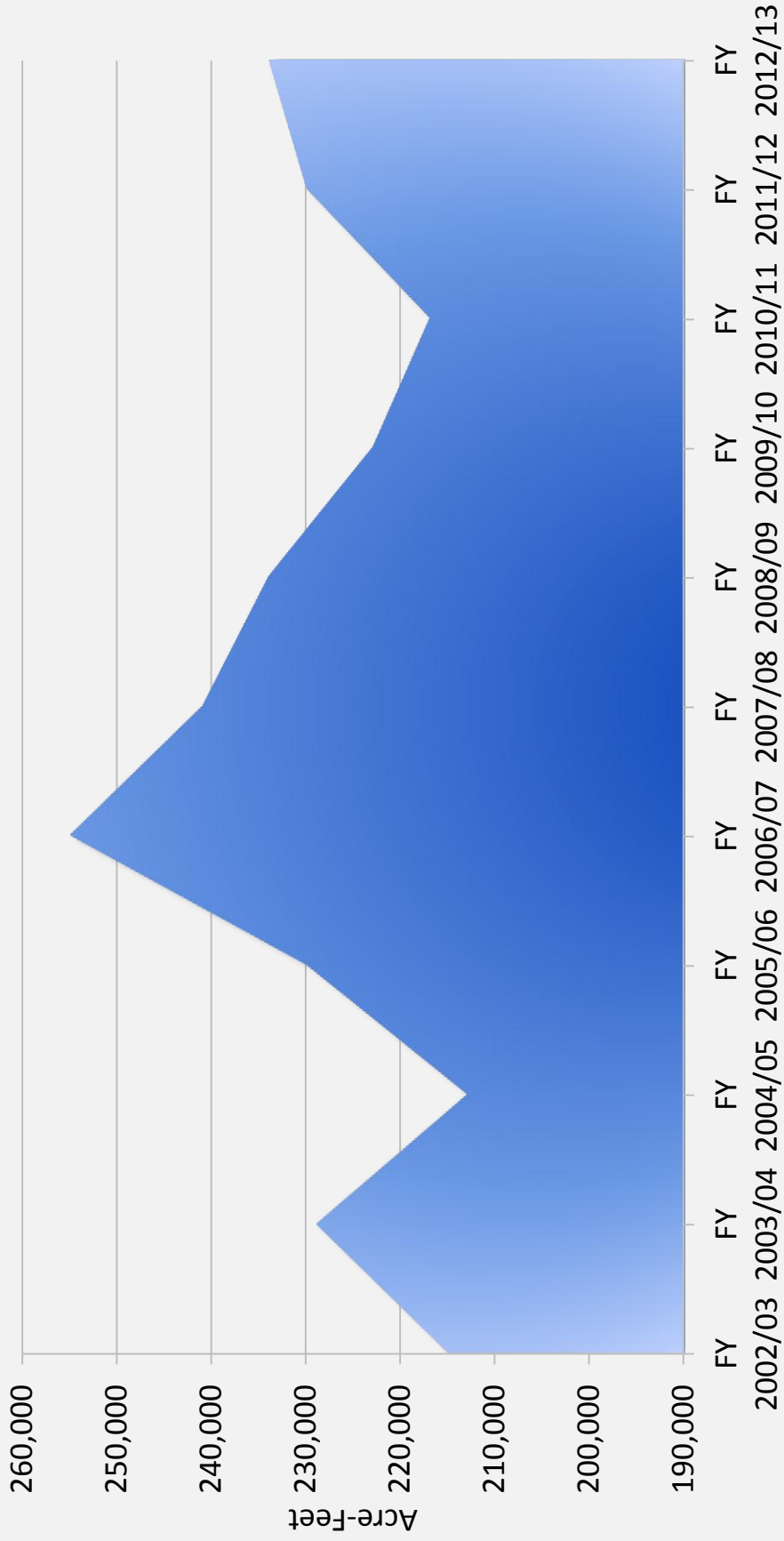
Inland Empire Utilities Agency

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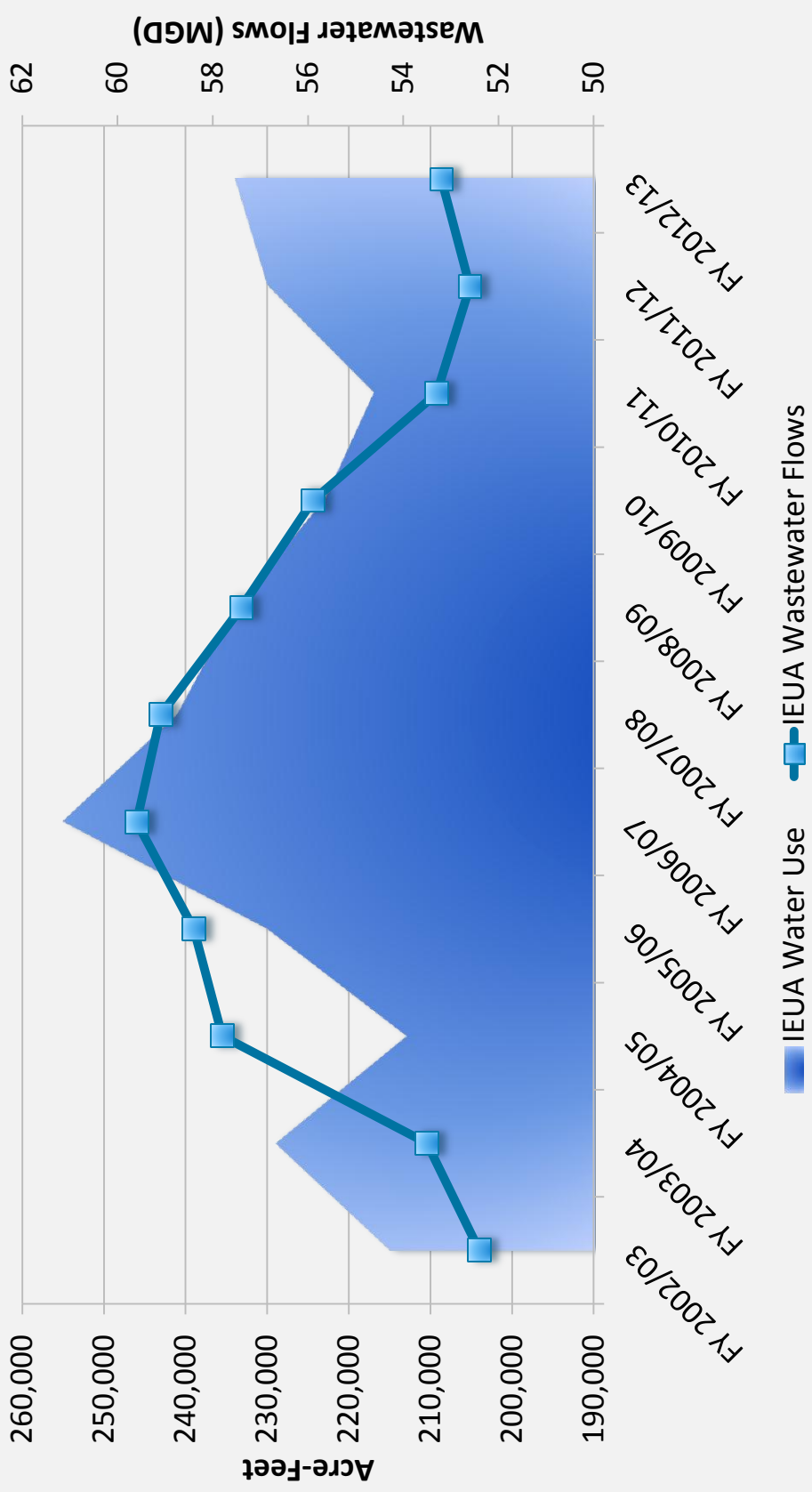
FY 12/13 Annual Water Use

September 2013

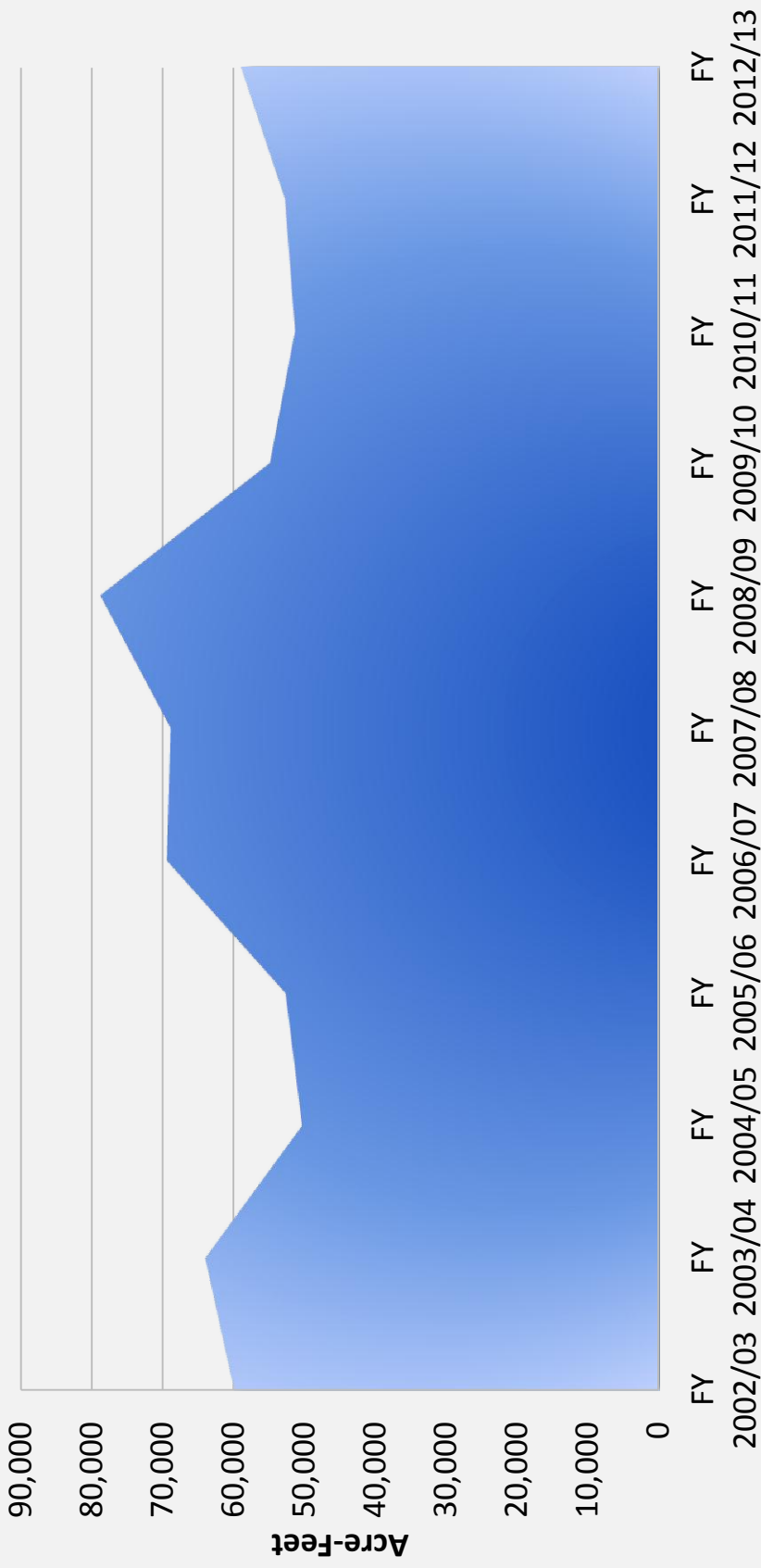
IEUA Member Agency Overall Water Use Trend



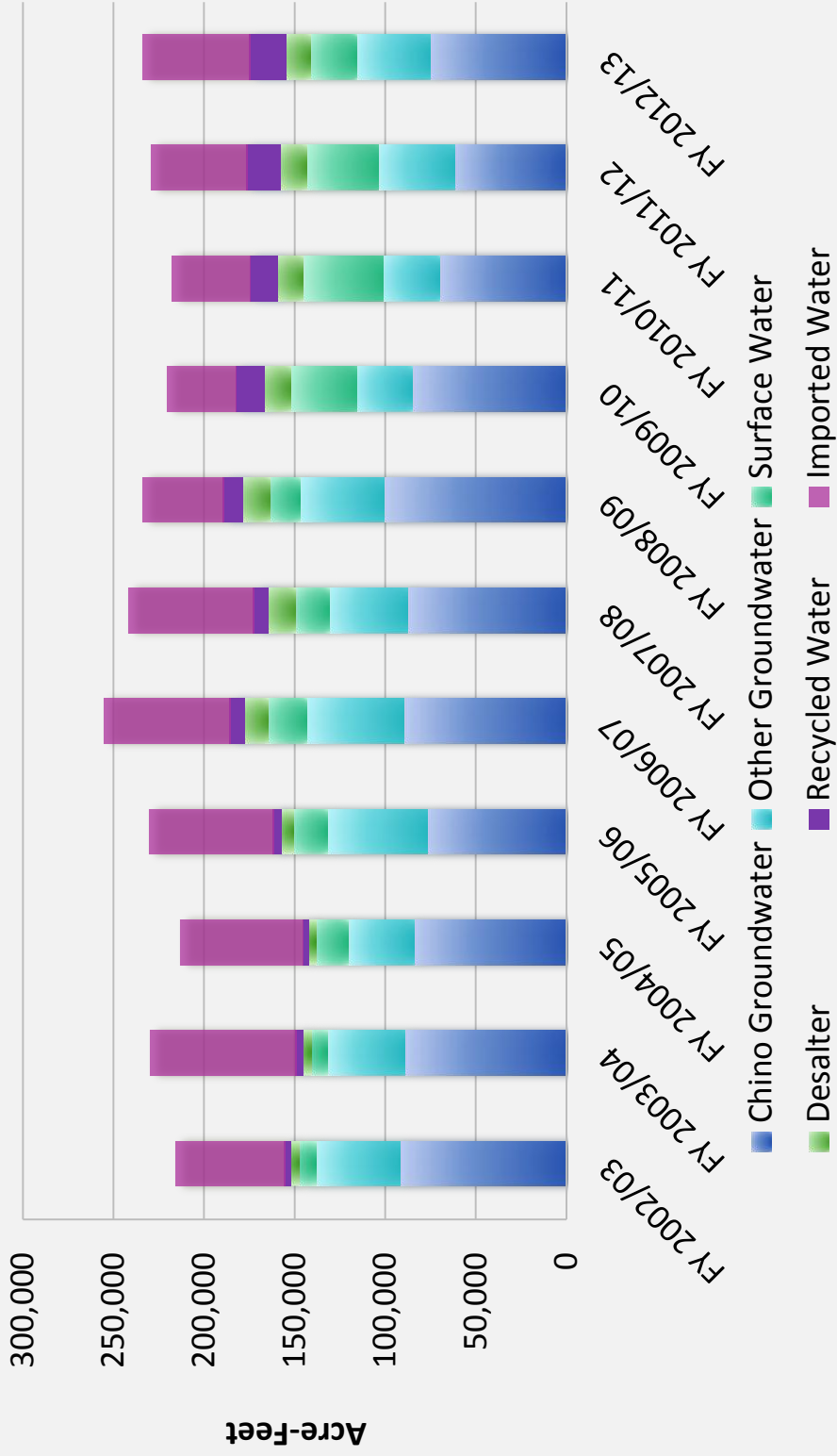
IEUA Member Agency Water/Wastewater Comparison



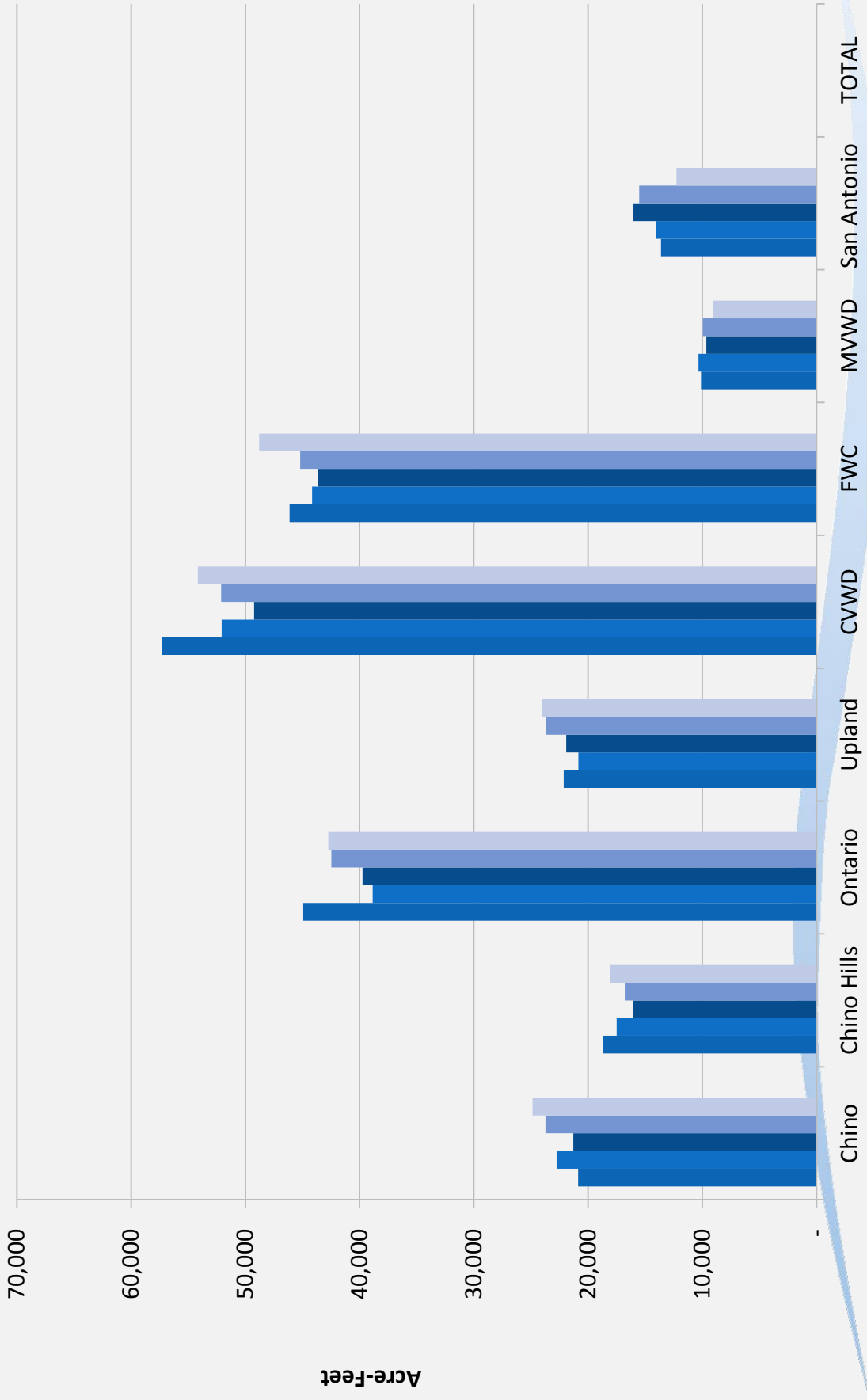
IEUA Member Agency Imported Water Use Trend



IEUA Member Agency Water Use Trend By Source



Member Agency 5-Year Historical Water Use



How Will We Meet SB X 7-7 Compliance?

IEUA SB X 7-7 Compliance	Population*	Target** (GPCD)	RW Only (GPCD)	RW & WUE (GPCD)
2010 Baseline	846,469	251	-	-
2015 (10% Reduction)	919,771	226	213	208
2020 (20% Reduction)	981,651	201	206	193

IEUA has established a regional baseline and set targets that are achievable through implementation of recycled water and water use efficiency programs.

*The population projection was derived from IEUA member agencies RMPU/UWMP projections.

**The targets were developed using a 1999-2008 baseline period.

SB X 7-7 Compliance Update

IEUA SB X 7-7 Compliance	Population*	Target** (GPCD)	Actual (GPCD)	RW Only (GPCD)	RW & WUE (GPCD)
2010 Baseline	846,469	251	-	-	-
2011 Actuals	849,209	246	230	221	220
2015 (10% Reduction)	919,771	226		213	208
2020 (20% Reduction)	981,651	201		206	193

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2011 Actuals	849,209	246	230	221	220
2012 Actuals	852,442	241	241	228	227
2015 (10% Reduction)	919,771	226	-	213	208
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**INFORMATION
ITEM**

3C



Date: October 3, 2013
 To: Regional Technical Committee
 From: Inland Empire Utilities Agency
 Subject: Ten-Year Growth Survey

RECOMMENDATION

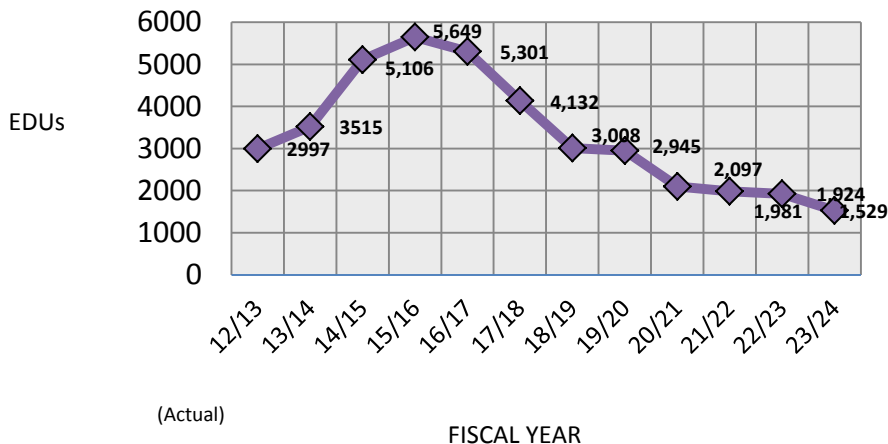
This is an informational item for the Regional Technical Committee to receive and file.

BACKGROUND

On July 1, 2013, the annual Ten-Year Capacity Demand (TYCD) Survey was sent to each Member Agency. Responses from all seven (7) agencies were received in August. The TYCD Survey asks each respondent to provide projections of the number of new Equivalent Dwelling Units (EDUs) each year, separated into the tributary areas of the regional water recycling plants (RWRPs). The data from the TYCD Survey have several complementary uses. The primary use is to predict the increases in flows expected at the RWRPs for the next ten years in order to determine whether there will be a need for additional treatment capacity. It is also used to establish the projected EDU growth rate for the current fiscal year and to compare to the actual building activity reported each month by the Member Agencies. This growth is closely tracked throughout the year to determine whether current growth and budgetary estimates are on target.

Based on the August 2013 survey results, the member agencies expect the number of EDUs per year to increase from the FY 2012/13 actual number of 2,997 to a peak of 5,649 EDUs per year in FY 2014/15, and then to gradually decrease to 1,529 EDUs per year in FY 2023/24 (See Figure 1).

FIGURE 1



Assuming 270 gallons per day per EDU (gpd/EDU), the rate which is specified in the Regional Sewerage Service Contract, the capacity utilization at the RWRPs would be expected to reach 76 percent by FY 2023/24, with over 95% capacity utilization being reached at RP-5. This would trigger the need to design and construct additional treatment capacity (See Table 1).

TABLE 1

	FY 12/13 Actual			FY 23/24 Projection		
	Treated Influent Flow-MGD	Plant Related Capacity-MGD	Percent Capacity Utilized	Treated Influent Flow-MGD	Plant Related Capacity-MGD	Percent Capacity Utilized
RP-1	27.6	44	63%	29.8	44	68%
RP-4	10.0	14	71%	11.6	14	83%
CCWRF	7.1	11.4	62%	7.9	11.4	69%
RP-5	9.9	16.3	61%	15.7	16.3	97%
TOTAL	54.6	85.7	64%	65.0	85.7	76%

It is recognized that new growth will not likely generate 270 gpd/EDU due to water efficiency improvements within the region. However, this value will continue to be used for the purpose of long-term capital expansion planning.

As part of the current Wastewater Facilities Master Plan update, the Agency will be conducting flow monitoring at selected locations in the regional system where the tributary areas and numbers of occupied EDUs in those areas are well-defined. The data will be used to determine the flow generation factors for various residential and commercial/industrial categories. With updated flow factors, the Agency will generate new long-term flow forecasts. The Agency is also contacting Member Agencies for additional flow data and updated tributary area maps. It is expected that the updated flow forecasts will be incorporated into the next Ten-Year Capital Improvement Plan.



Inland Empire Utilities Agency

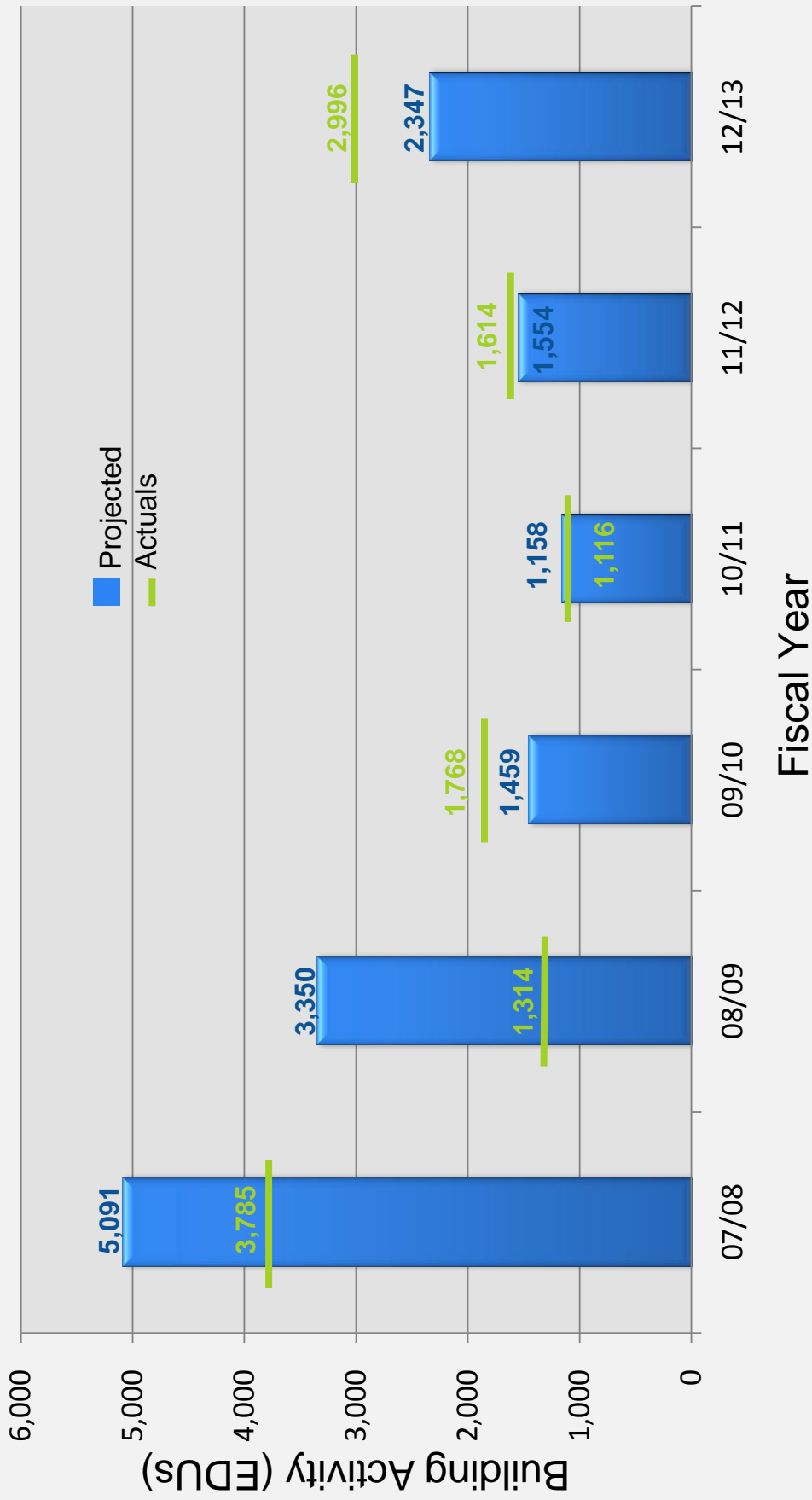
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Ten-Year Growth Survey Results

**Regional Technical Committee
October 3, 2013**

Previous Survey Results

One-year Projections vs. Actuals



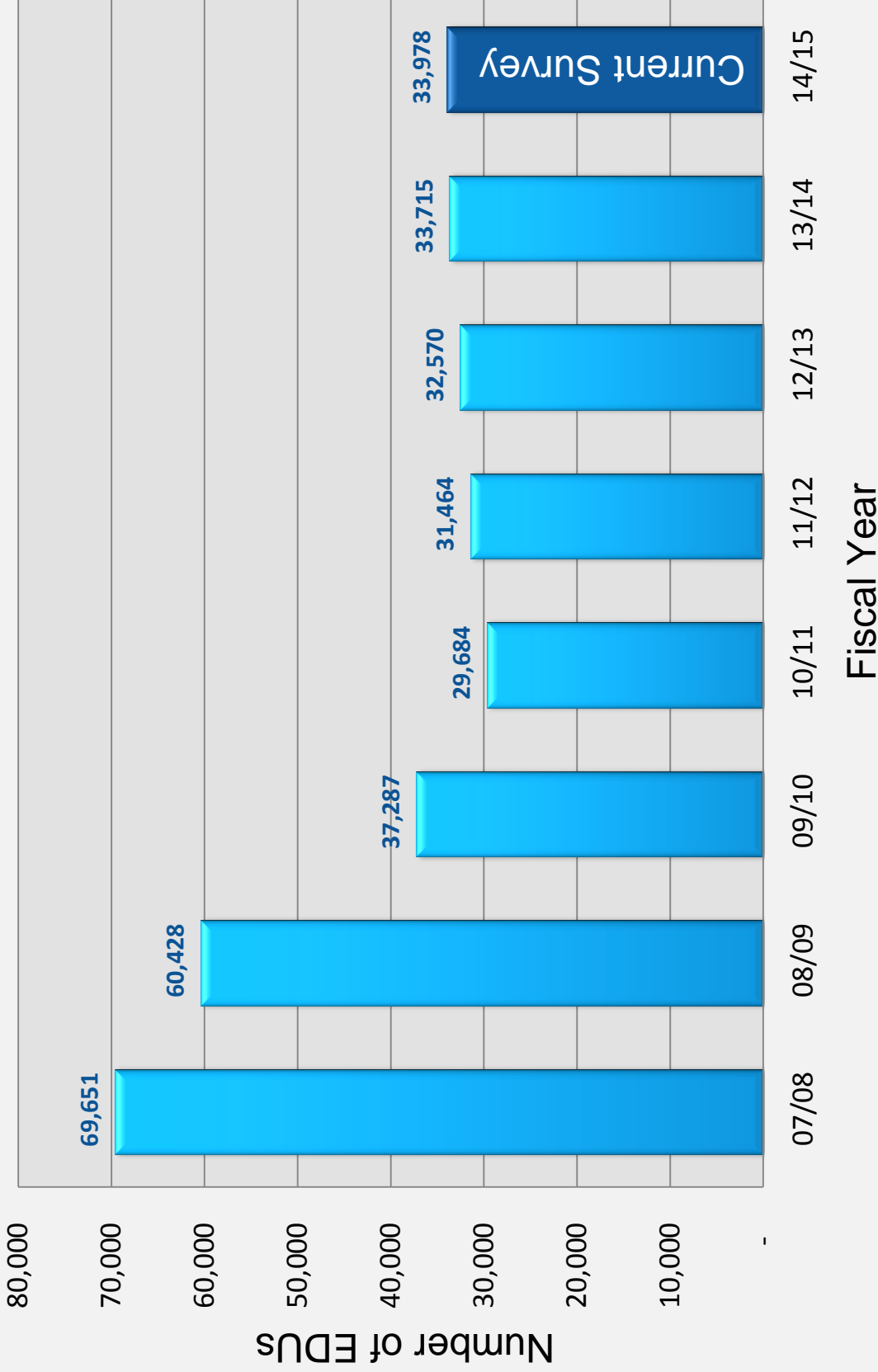
Current Survey Results

One-year Projection

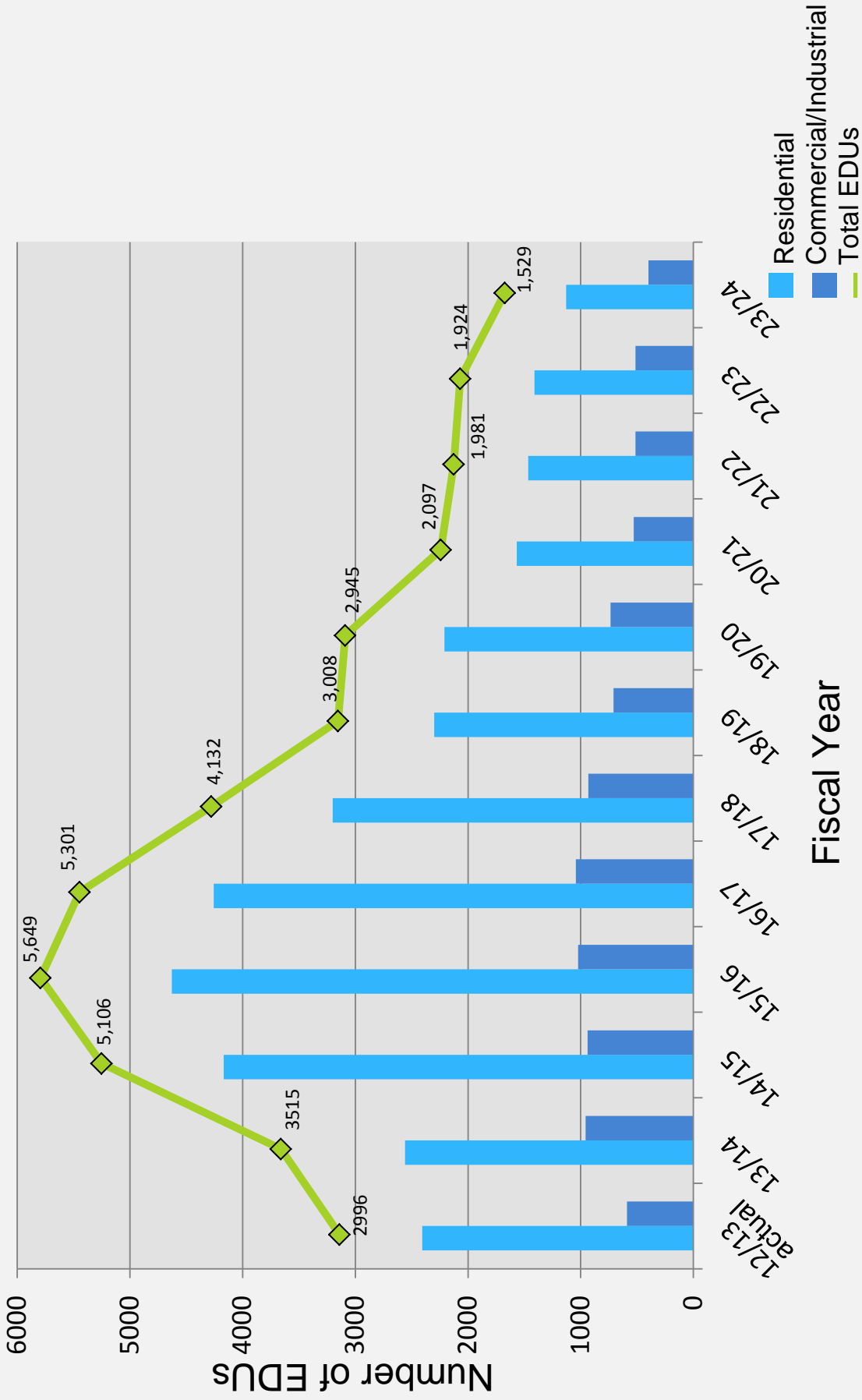
Contracting Agency FY 13/14 Member Agency Projected Activity (EDUs)			
	Residential	Commercial/Industrial	Total
Chino	625	40	665
Chino Hills	498	55	553
CVWD	250	114	364
Fontana	325	185	510
Montclair	190	10	200
Ontario	750	550	1300
Upland	221	2	223
TOTAL	2859	956	3815

Previous Survey Results

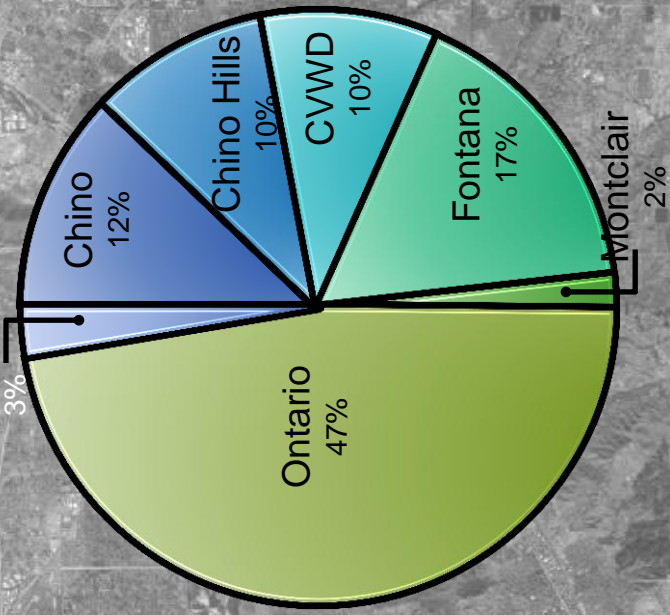
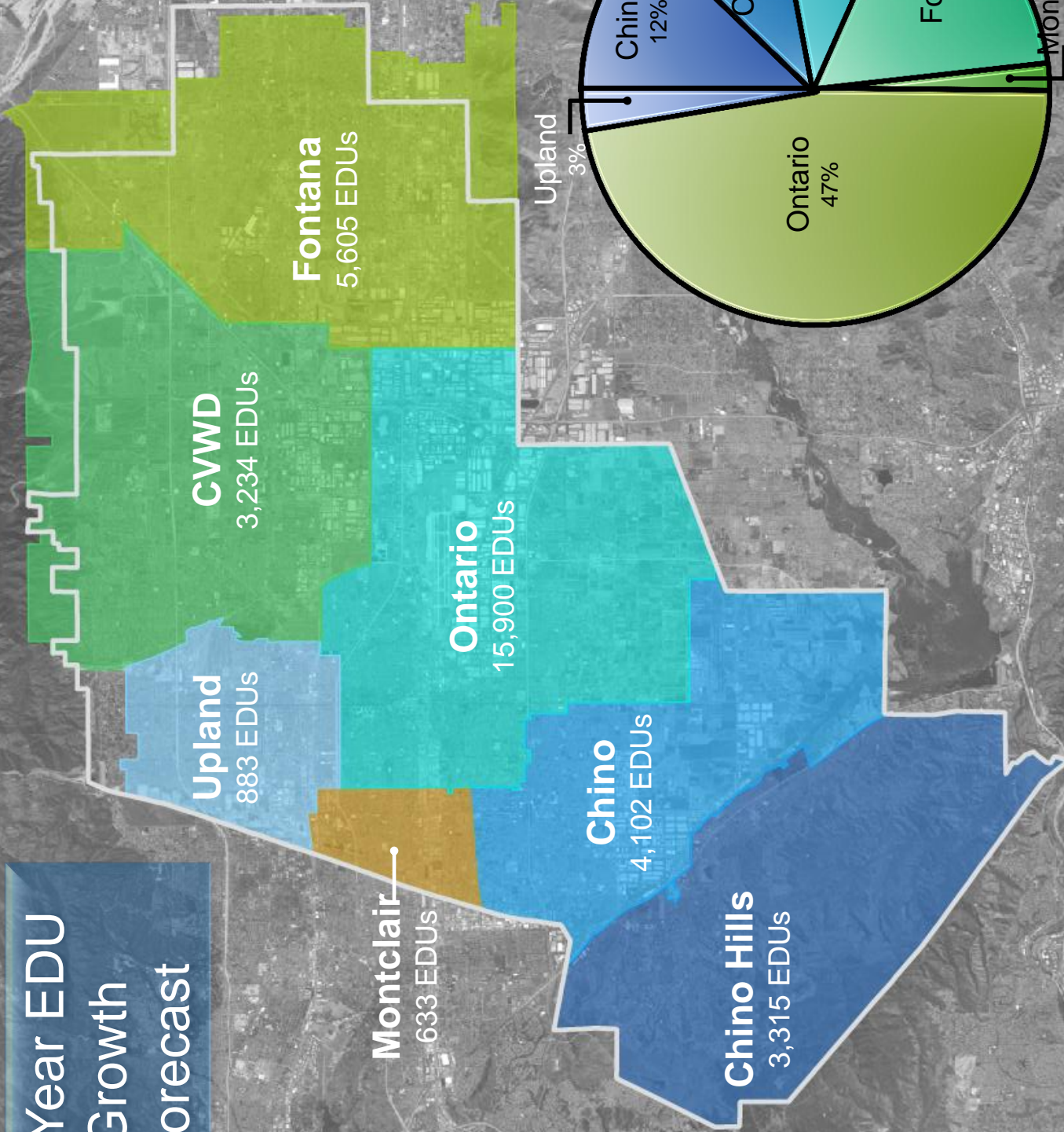
10-Year Total EDU Growth Forecasts

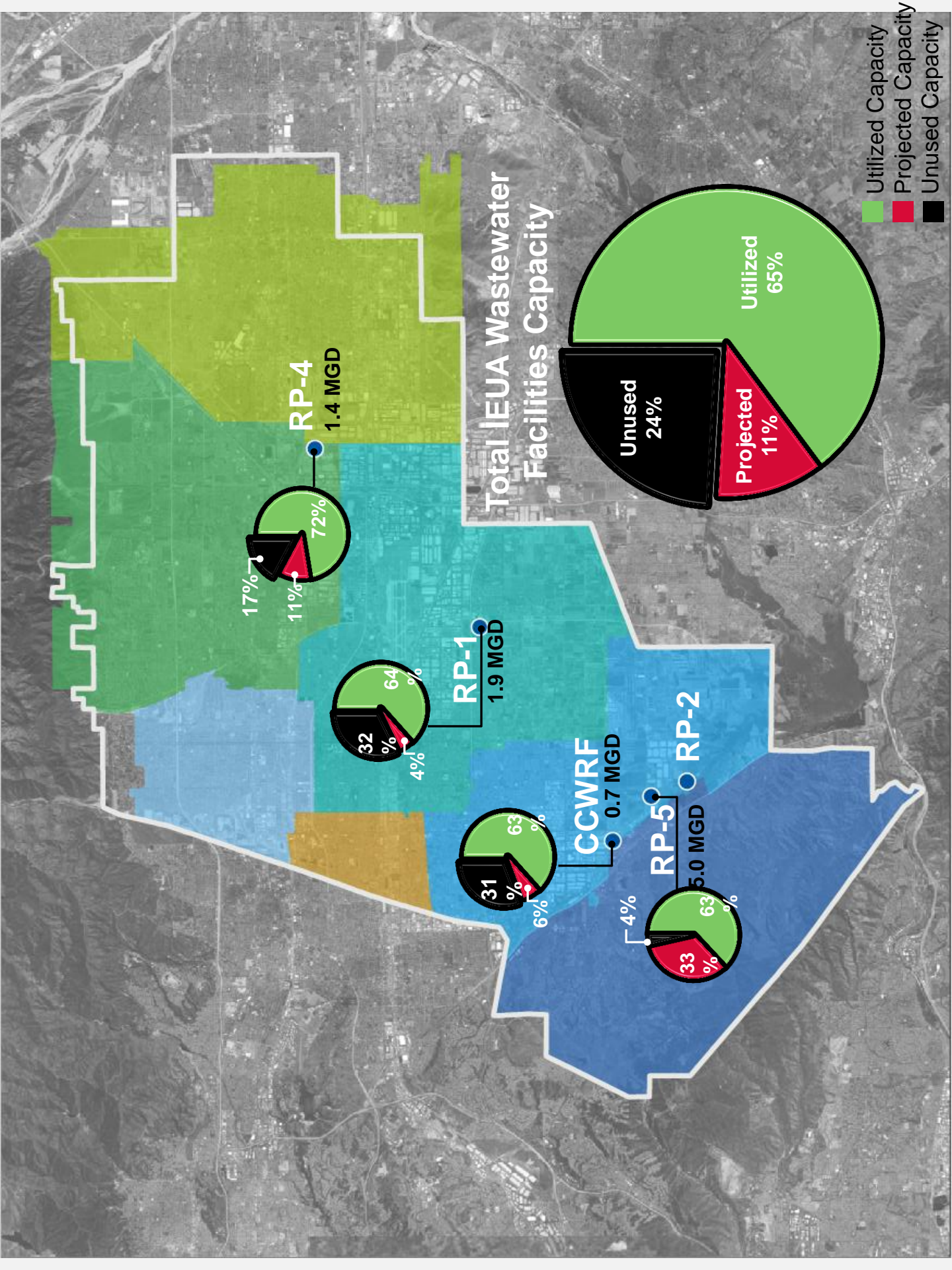


10-Year EDU Growth Forecast



10-Year EDU Growth Forecast





Utilized Capacity
 Projected Capacity
 Unused Capacity



Inland Empire Utilities Agency

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Questions?

**INFORMATION
ITEM**

3D



Date: October 3, 2013
To: Regional Technical Committee
From: Inland Empire Utilities Agency
Subject: IEUA Planning Documents Update

RECOMMENDATION

This is an informational item for the Regional Committee to receive and file.

BACKGROUND

This has been developed as an update on the development of various IEUA planning documents that will ultimately serve as the foundation to the Agency's upcoming Strategic Planning. Short summaries of each plan are outlined below including its purpose, status and schedule.

Integrated Resources Plan

The Integrated Resources Plan (IRP) will be used to develop an overall strategy for meeting projected water demands within the IEUA service area in a cost-effective manner. Many previous planning efforts have provided an understanding of supply and demand management strategies, however, they were completed separately and prior to several changes in both the local and statewide water resource settings. The same should be considered in completing the IRP. The IRP kicked-off in September 2013 and will be developing a comprehensive demand model as the first task. The IRP is expected to be completed in September 2014 and will involve ongoing input and coordination with IEUA member agencies.

Recharge Master Plan

The 2013 Recharge Master Plan Update (RMPU) is an update to the 2010 Recharge Master Plan. This RMPU contains capital projects that are intended to increase stormwater recharge within Chino Basin. There are a few capital projects that also have recycled water components that IEUA is being asked to cost-share, per the Peace II Agreement. There are 11 capital projects (3 with recycled water components) being recommended for implementation over the next 6 years. There is an estimated \$57M (\$4.5M cost to IEUA) cost to implement these projects, with an estimated stormwater yield of 6,700 AFY and recycled water yield of 5,000 AFY. The RMPU will be going to the Chino Basin Watermaster Board in September 2013 and to the IEUA Board in October 2013 for consideration of approval. The approved RMPU will subsequently be submitted to the Court in October 2013.

Facilities Master Plan

The Facilities Master Plan (FMP) will provide a master plan for all of the Agency's regional wastewater facilities' major projects and expansions for the next 50 years. It will focus on the southern service area where the most rapid growth is occurring. It will also update plans for the northern service area as well, since all of the facilities are interconnected by the regional sewer system and recycled water distribution system. A contract for the FMP was awarded by the IEUA Board on September 18, 2013 to CH2M Hill in partnership with Carollo Engineers. The FMP will integrate plans for the wastewater system with plans for the recycled water system, the Asset Management Plan, and the other agency-wide planning efforts as described in this letter. The FMP is expected to be completed in September 2014 and will provide the basis for a programmatic CEQA document. The first task will be to update the flow and solids loading projections for the regional system. Several workshops are planned to be conducted to ensure that facility planning needs are well coordinated and communicated with IEUA member agencies.

Asset Management Plan

The Asset Management Plan (AMP) will provide an accurate representation of the physical assets of IEUA, and the future funding requirements to manage these assets in a manner appropriate for delivering the services expected by our customers. The AMP development began in April 2013, and will include results from a new comprehensive financial model. The AMP is expected to be completed in January 2014.

Recycled Water Program Strategy

The Recycled Water Program Strategy (RWPS) will be used to develop a long term strategy for the program over the next twenty years, with a focus on projects to be developed for the next TYCIP (Ten Year Capital Improvement Plan). The primary intent of the document is to help map the changes in the region's need to maximize groundwater recharge. The goal of the document is to have a cohesive source of information on additional sources of water to augment IEUA's recycled water system. This will enable maximum beneficial reuse of recycled water at all times and allow an increased focus on groundwater recharge. The results of the IRP model will be used as a data source into the RWPS to confirm the needs of the Recycled Water program. At the conclusion of the RWPS document, a control strategy for the overall system would also have to be developed in theory that can be utilized in the capital projects that will be developed from the RWPS document. Demand information will be provided to the IRP model by October 2013. The RWPS is expected to be completed by April 2014.

Financial Plan

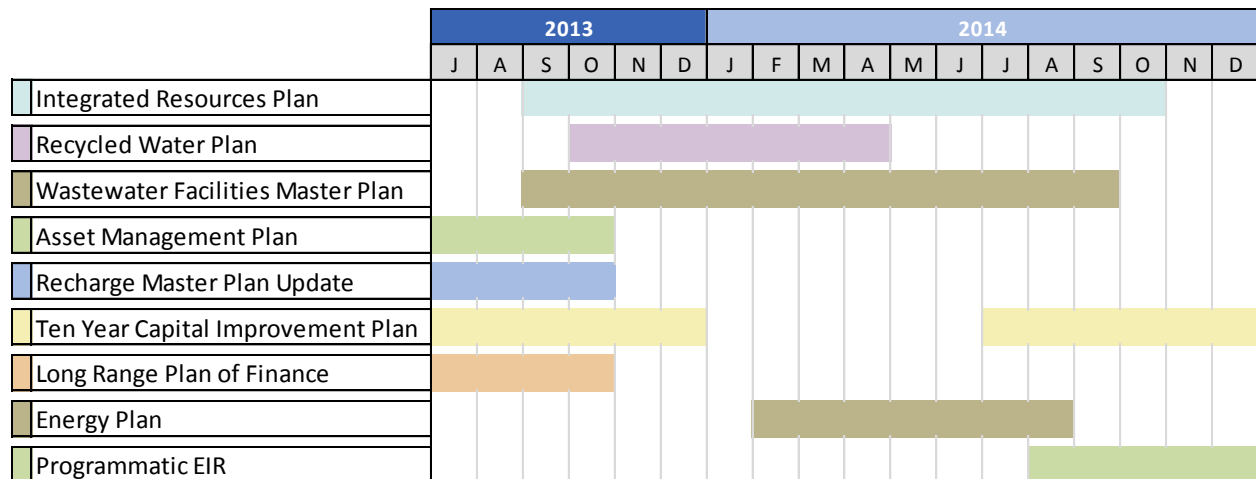
Staff is working on finalizing the long range financial model. Delivery of the model is targeted for September 2013, followed by testing and data refinement through October 2013. Funding

IEUA Planning Documents Update

October 3, 2013

Page 3 of 3

plans to support the Agency’s various planning documents will be incorporated to drive different budget “what if” scenarios. These scenarios are anticipated to be presented to the IEUA Board in December as part of the Long Range Plan of Finance Plan update.



**INFORMATION
ITEM**

3E



Date: October 3, 2013
To: Regional Technical Committee
From: Inland Empire Utilities Agency
Subject: Recharge Master Plan Update Presentation

RECOMMENDATION

This is an information item for the Regional Technical Committee to receive and file.

BACKGROUND

This item was presented at the IEUA Board of Directors meeting on September 18, 2013.



Inland Empire Utilities Agency

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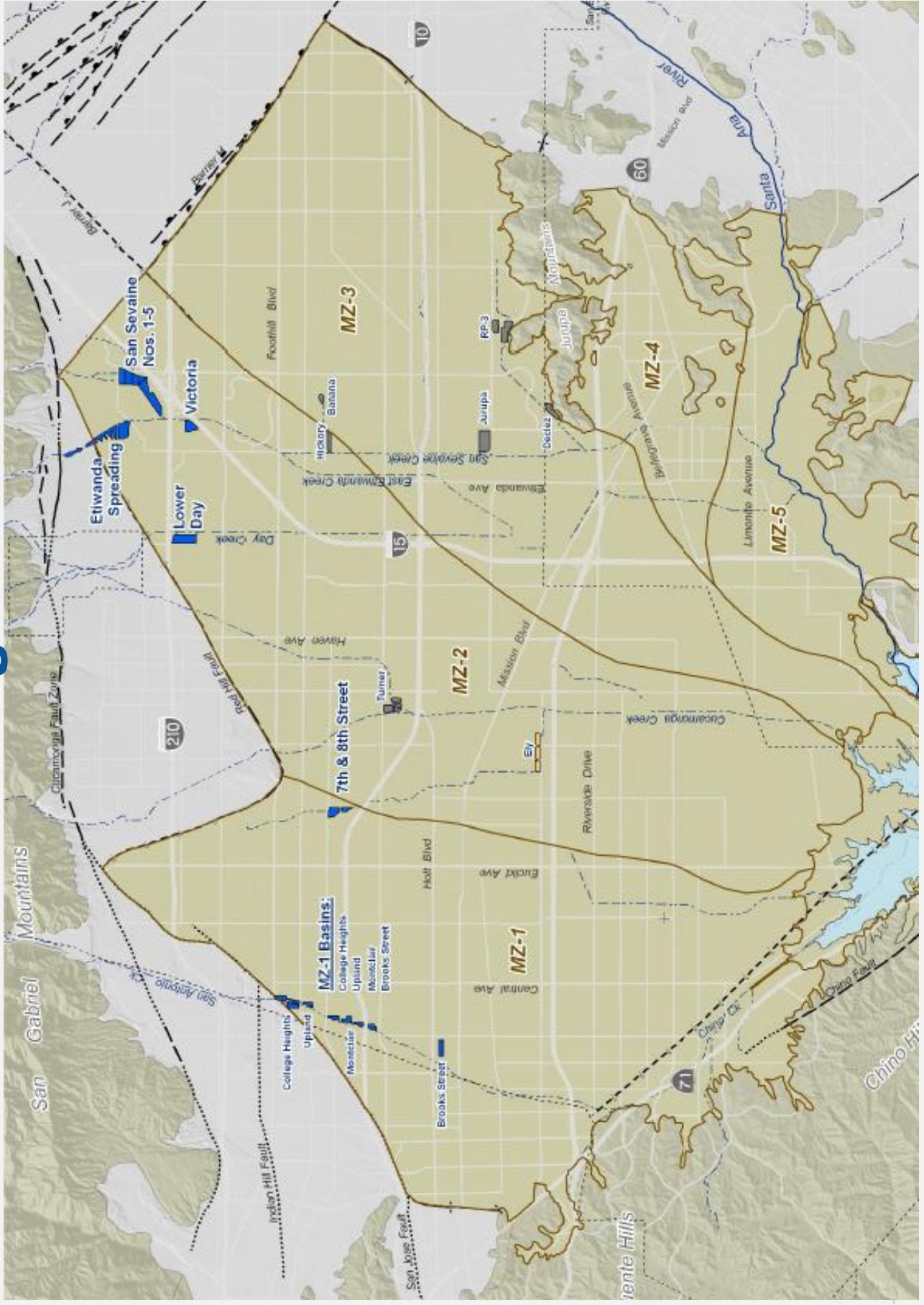
Recharge Master Plan Update Draft IEUA Recommended Projects

September 2013

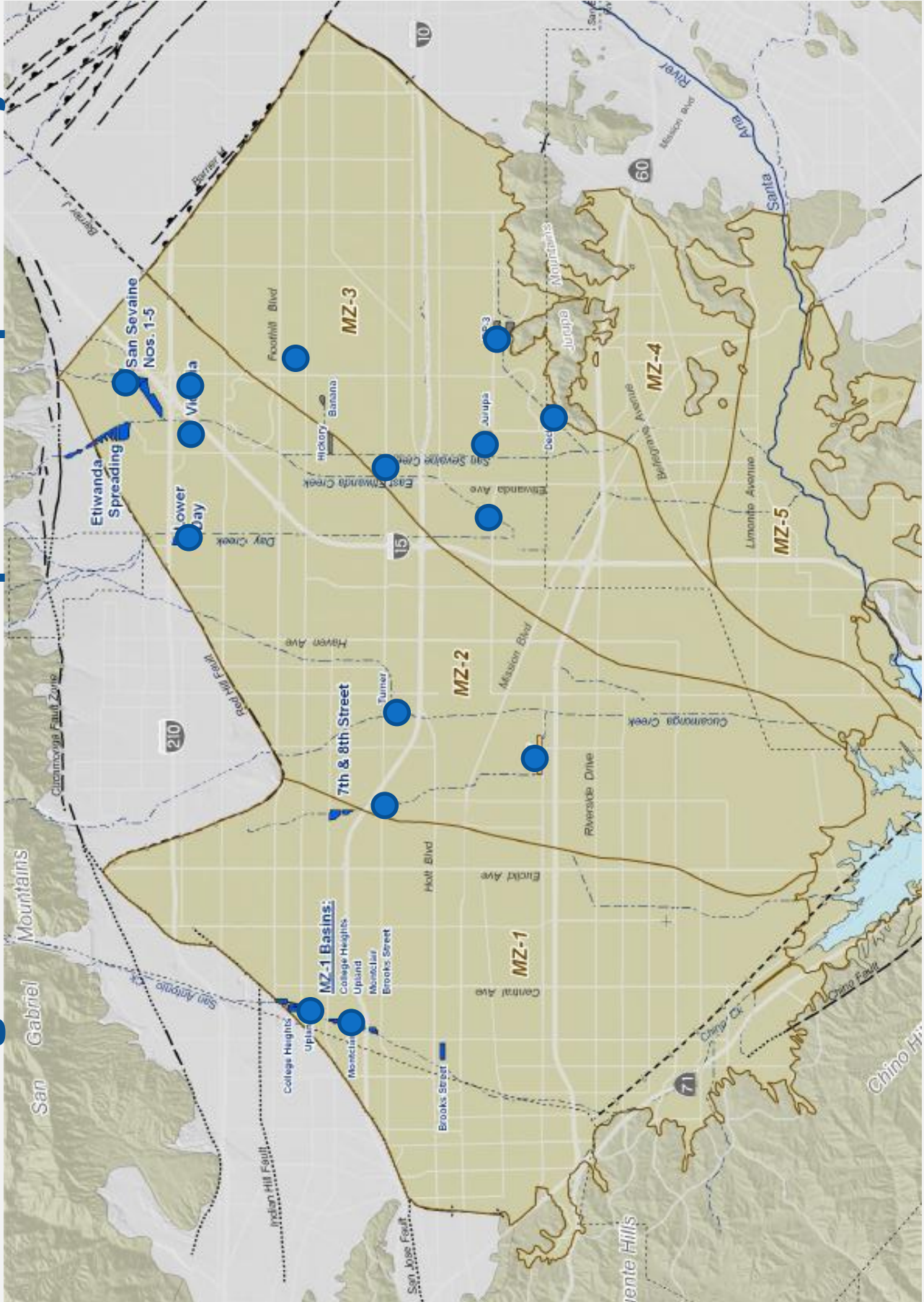
Schedule

- **Draft RMPU & IEUA Recommendations**
 - August 2013
 - Tech Committee
 - IEUA Committee/Board
 - September 2013
 - IEUA Committee/Board
 - **Final RMPU & IEUA Recommendations**
 - Oct 3, 2013 – Tech & Policy Committee
 - Oct 9, 2013 – IEUA Committee
 - Oct 16, 2013 – IEUA Board
 - **Submittal to Court in October**
- 

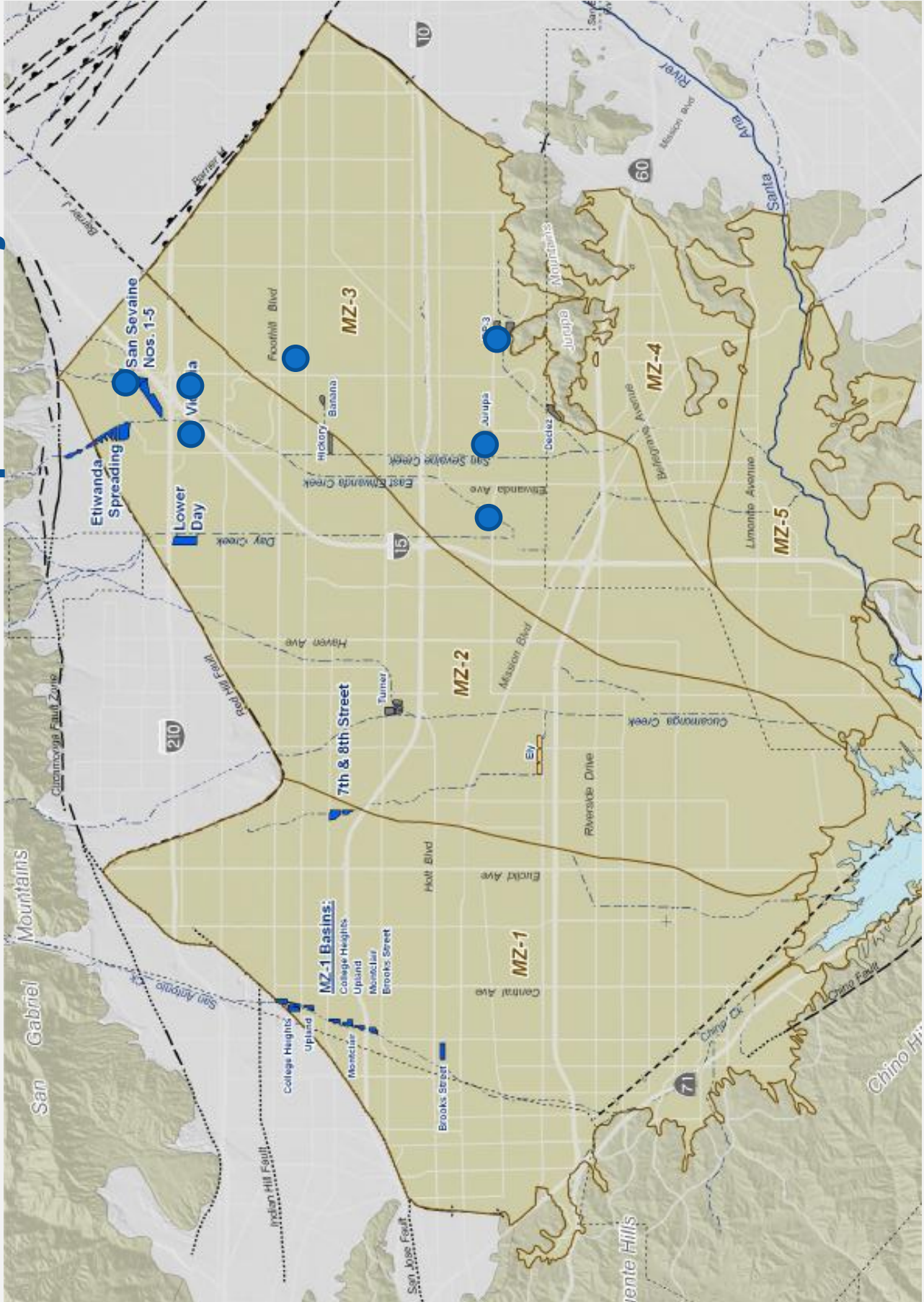
Chino Basin Recharge Facilities Overview



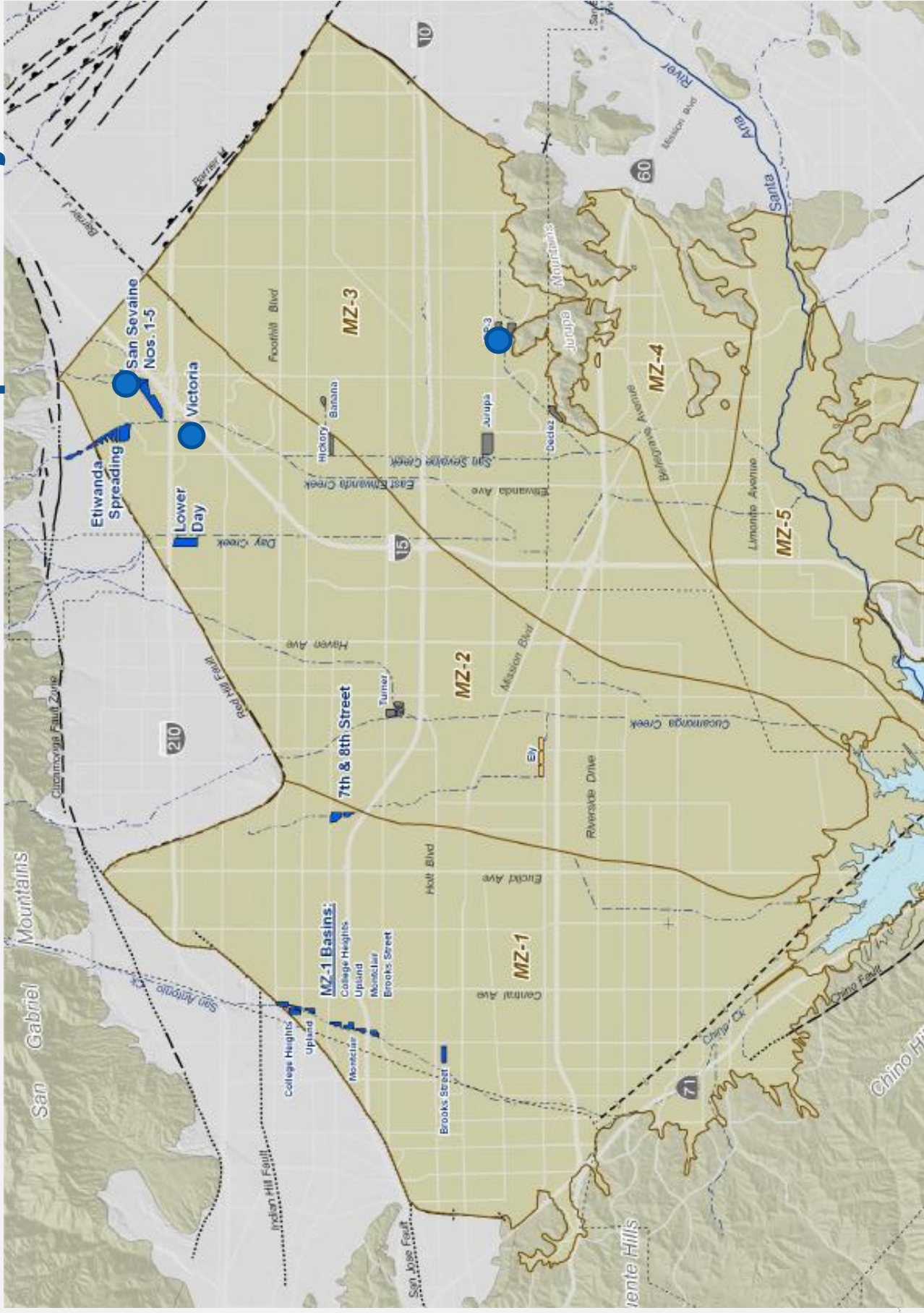
27 Recharge Master Plan Update Capital Projects



7 Potential Cost-Share Capital Projects



3 Recommended Cost-Share Capital Projects



Draft Recommended Cost Sharing Projects

Project ID	Project Name	Included in IEUA FY 13/14 TYCIP	Management Zone	Estimated Stormwater Yield (AF)	Estimated Recycled Water Yield (AF)	Estimated IEUA Cost
7	San Sevaine Basin	Yes	2	642	1,911	\$1,775,000
11	Victoria Basin	No	2	48	120	\$75,000
22	RP3 Basin Improvements	No	3	137	2,905	\$2,645,000
TOTAL				827	4,936	\$4,495,000

NOTE: Draft IEUA recommendation memo emphasizes the need for expanded recharge and the importance of investigation/proof-of-concept work prior to completing the other proposed projects.

Recharge Master Plan Financing

- **Chino Basin Facilities Improvement Plan**
 - IEUA Financed Capital Costs (~\$25M)
 - Watermaster Reimburses IEUA
- **2013 Draft Recharge Master Plan Update**
 - Recommending 11 Projects (~\$57M Capital)
 - Recycled Water – \$4.5M
 - Stormwater – \$52.5M
 - Financing Options Still To Be Determined
 - Appropriator Funded
 - IEUA Financed (Pass Through Funded)



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Questions?

**RECEIVE AND
FILE**

4A



Date: October 3, 2013
To: Regional Technical Committee
From: Inland Empire Utilities Agency
Subject: Pretreatment Summary Report

RECOMMENDATION

This is an informational item for the Regional Technical Committee to receive and file.

The regularly scheduled Pretreatment Committee Meeting for the month of September was held at the IEUA on September 17, 2013.

BACKGROUND

Pretreatment continues its focus on the following key areas.

- Treatment Plants Update
- Pretreatment Reports
- Discussion Items

Treatment Plants Update:

August 2013 Update:

RP-1/RP-4:

- RP-1/RP-4 met all the NPDES requirements during this reporting period.

RP-5:

- RP-5 met all the NPDES requirements during this reporting period.

CCWRF:

- CCWRF met all the NPDES requirements during this reporting period.

Pretreatment Summary Report

October 3, 2013

Page 2 of 3

Agency-wide:

- The Agency-wide 12-month running average incremental increase between final effluent and water supply TDS for the month of July 2013 was 237 mg/L, which did not exceed the 250 mg/L 12-month running average limit. The secondary effluent TDS 12-month running average was 208 mg/L for the month of July 2013.
- The Agency-Wide 12-month running average TDS for the month of August 2013 was 493 mg/L, which is below the 550 mg/L Agency-wide 12-month running average limit.

Collections System:

- A Category 3 SSO occurred from an NRWS sewer line manhole on Philadelphia Street on August 31, 2013. The SSO did not exceed 1,000 gallons and did not reach surface water. The Category 3 SSO report will be submitted on the State Board's CIWQS website before September 30, 2013.

Recycled Water:

- No unauthorized discharges of more than 50,000 gallons of disinfected tertiary recycled water into the waters of the state occurred during the month of August 2013.
- No agricultural runoff events were reported to IEUA by member agencies during the month of August 2013.

Pretreatment Programs:

IEUA informed the committee that during Fiscal Year 2012/13 there were four industries listed as Significant Non Compliance (SNC). The IEUA found Amphastar Pharmaceuticals, Aquamar, K-Pure Water Works all in Rancho Cucamonga, and Jewland-Freya Health Science in Montclair to be in SNC based on discharge violations.

Discussion Items:

Linko Presentation: Mike Connolly from Linko informed the pretreatment committee members that LINKO is in the process of developing a software program for electronic reporting. This new product would enable IEUA and member agencies to receive self-monitoring reports and laboratory data electronically through a web based application.

IEUA Regional Wastewater Ordinance No.87 Revision: IEUA updated the committee on its intention on revising the Ordinance by the end of the calendar year. IEUA has retained RvL Associates, Inc. to assist in revising the ordinance to ensure it conforms to the current EPA Model Ordinance. According to the Pretreatment Compliance Audit (PCA)

requirements, IEUA informed the committee members that once IEUA has made the necessary changes to its Ordinance, the member agencies' ordinances will need to be revised to be consistent with the IEUA Ordinance.

IEUA Local Limits Revision: IEUA provided the committee with an update on its plans to revise the regional local limits applicable to the industries. IEUA is currently finalizing the scope of work to hire a consultant for this project. This project is expected to be completed by June 2015.

Regional Significant Industrial User (SIU) sampling for EDU calculation: IEUA reported that it will continue to conduct sampling of the SIUs quarterly for BOD and TSS as part of its control authority sampling procedure. This data will be provided to the member agencies.

Mutual Aid Agreement: IEUA reported that the amendment to the Mutual Aid Agreement (MAA) has been completed to include the Jurupa Community Services District (JCSD). IEUA asked the member agencies to approve the MAA amendment by the end of October 2013.

Self-Regenerating Water Softener Ordinance Update: IEUA asked committee members for updates on the cities adoption of their local ordinances. The cities of Fontana, Montclair, and Upland have all passed their water softener ordinances. The cities of Chino, Chino Hills, Ontario and CVWD did not have a date for ordinance adoption.

Other:

The next scheduled meeting will be held on November 18, 2013 at the Inland Empire Utilities Agency.

RECEIVE AND
FILE

4B

Building Activity Report - YTD Fiscal Year 2012/13



Legend

Service Area

EDU (YTD)

Residential

● ≤1.0
● 1.0 - 10.0
● >10.0

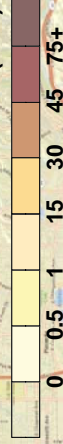
Commercial

● ≤1.0
● 1.0 - 10.0
● >10.0

Industrial

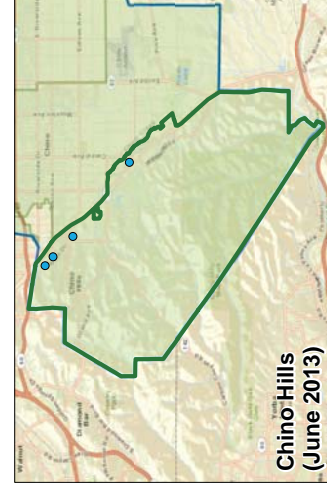
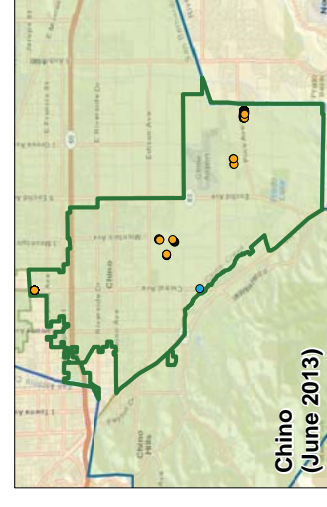
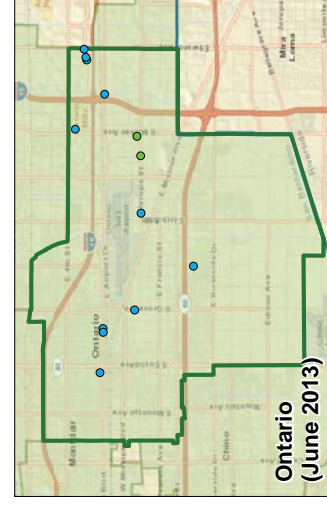
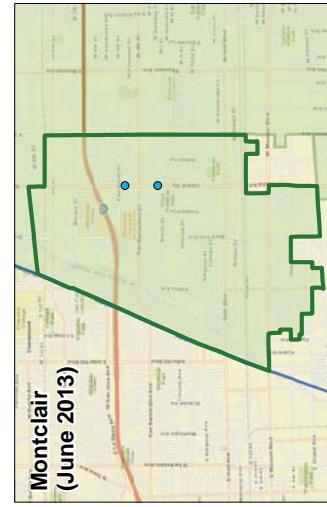
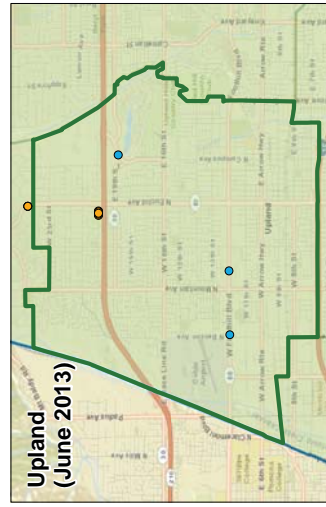
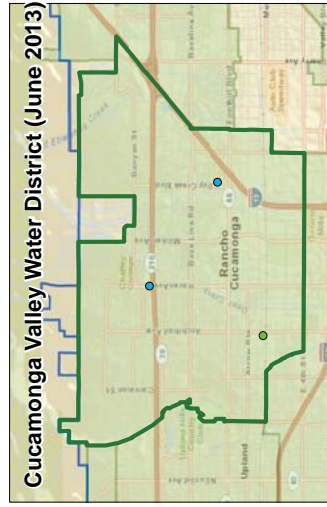
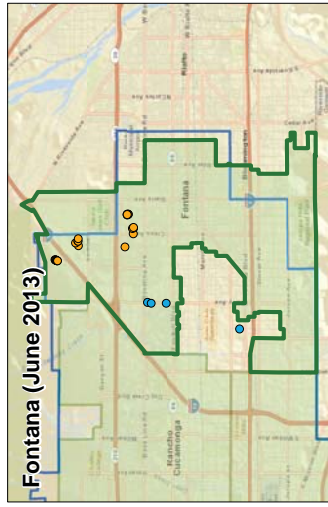
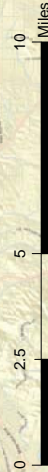
● ≤1.0
● 1.0 - 10.0
● >10.0

HALF MILE GRID: TOTAL EDU's (YTD)



TOTAL EDU BY CONNECTION TYPE (YTD)

Contracting Agency	YTD Actual		Projected Total (EDUs)
	Residential (EDUs)	Commercial/Industrial (EDUs)	
Chino Hills	974	79	112
Chino Hills	19	23	67
CVWD	598	228	930
Fontana	254	87	333
Montclair	403	30	75
Ontario	59	100	800
Upland	100	44	30
Total	2407	592	2999



Building Activity Report - YTD Fiscal Year 2013/14



Legend

Service Area

EDU (YTD)

Residential

● ≤1.0

● 1.0 - 10.0

● >10.0

Commercial

● ≤1.0

● 1.0 - 10.0

● >10.0

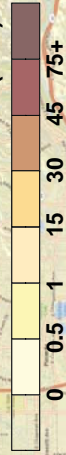
Industrial

● ≤1.0

● 1.0 - 10.0

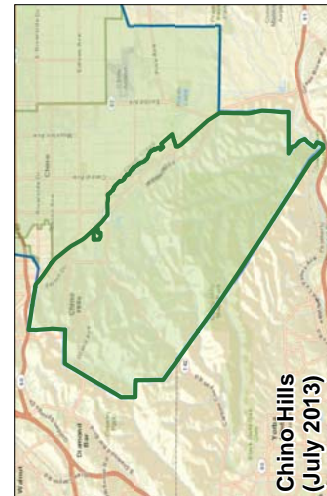
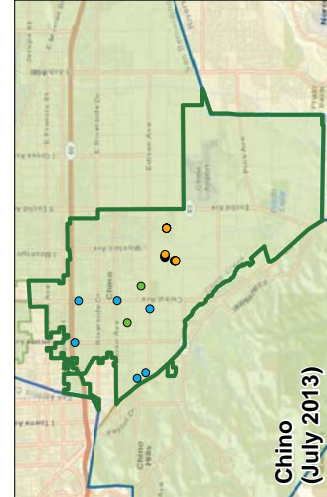
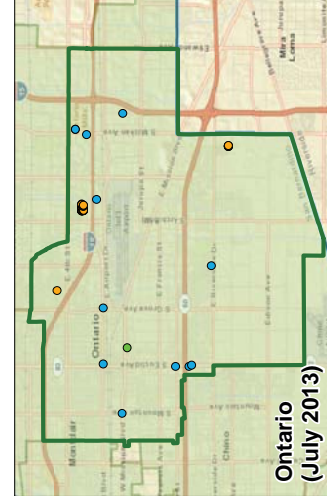
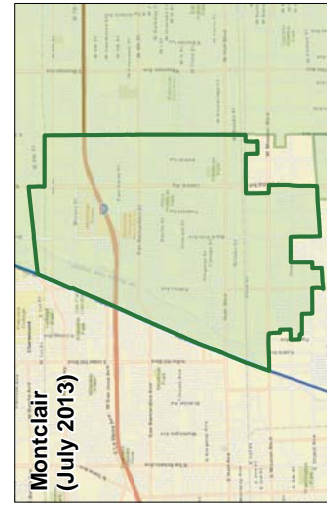
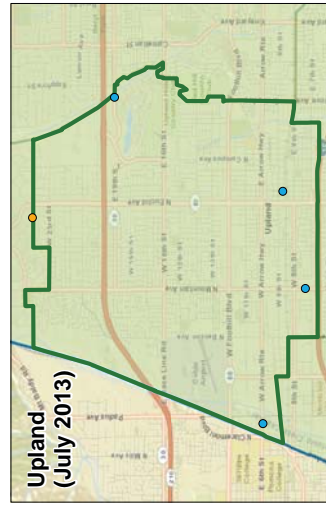
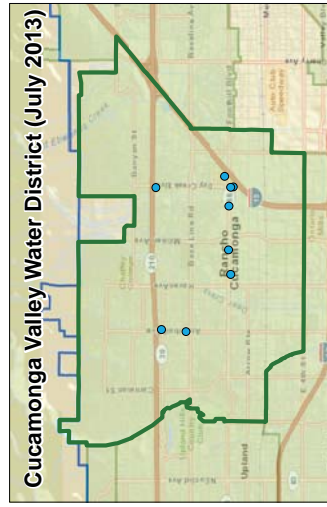
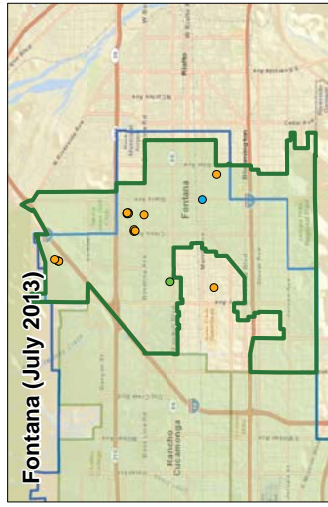
● >10.0

HALF MILE GRID: TOTAL EDU's (YTD)



TOTAL EDU BY CONNECTION TYPE (YTD)

Contracting Agency	YTD Actual (EDUs)			Projected Total (EDUs)	
	Residential (EDUs)	Commercial/Industrial (EDUs)	Total (EDUs)	Total (EDUs)	Total (EDUs)
Chino	27	5	32	365	365
Chino Hills	0	0	0	553	553
CVWD	19	11	30	364	364
Fontana	37	2	39	510	510
Montclair	0	0	0	200	200
Ontario	48	20	68	1300	1300
Upland	1	1	2	223	223
Total	132	39	171	3515	3515



RECEIVE AND
FILE

4C

IEUA RECYCLED WATER DISTRIBUTION - AUGUST 2013

TOTAL ALL PLANTS

Influent: 52.3 MGD
 Delivered: 43.3 MGD
 Percent Delivered: 83%

RP-4

Influent: 10.3 MGD
 Delivered: 9.6 MGD
 Percent Delivered: 93%

RP-1

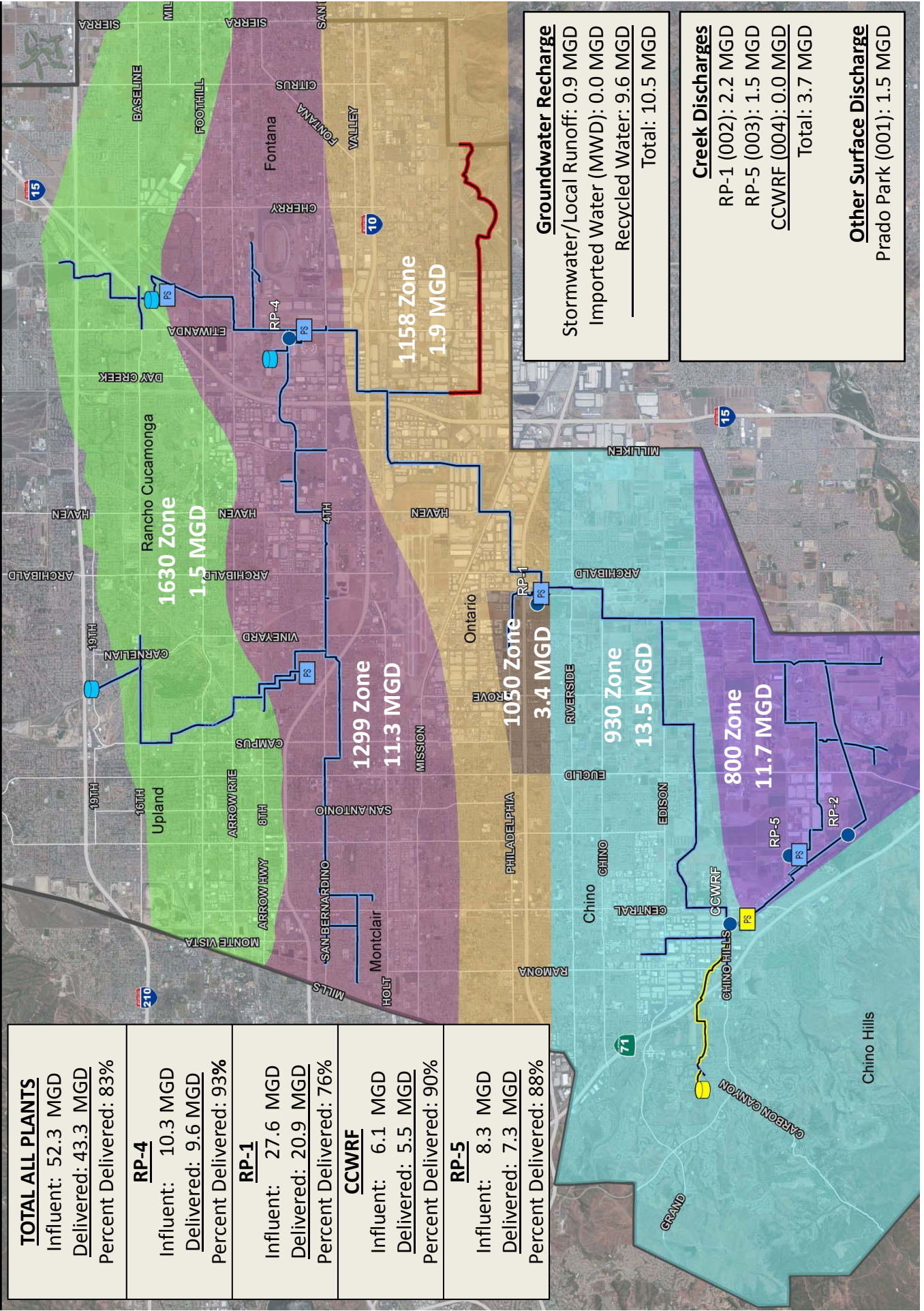
Influent: 27.6 MGD
 Delivered: 20.9 MGD
 Percent Delivered: 76%

CCWRF

Influent: 6.1 MGD
 Delivered: 5.5 MGD
 Percent Delivered: 90%

RP-5

Influent: 8.3 MGD
 Delivered: 7.3 MGD
 Percent Delivered: 88%



Groundwater Recharge
 Stormwater/Local Runoff: 0.9 MGD
 Imported Water (MWD): 0.0 MGD
 Recycled Water: 9.6 MGD
 Total: 10.5 MGD

Creek Discharges
 RP-1 (002): 2.2 MGD
 RP-5 (003): 1.5 MGD
 CCWRF (004): 0.0 MGD
 Total: 3.7 MGD

Other Surface Discharge
 Prado Park (001): 1.5 MGD

Recycled Water Recharge Actuals / Plan - September 2013 (Acre-Feet)

Deliveries are draft until reported as final.

Status as of 9/26/13

Year To Date Actual

Month Actual

9/26-9/30

9/19-9/25

9/12-9/18

9/5-9/11

9/1-9/4

Basin	9/1-9/4	9/5-9/11	9/12-9/18	9/19-9/25	9/26-9/30	Month Actual	Month Plan	Year To Date Actual	Year To Date Actual	Status as of 9/26/13
Ely	54.0	82.8	116.9	100.9	0.0	354.6	200	846	846	On 6 to 8 CFS, as peak demands allow
Banana	0.0	0.0	0.0	0.0	0.0	0.0	0	27	27	Off for cleaning in September
Hickory	0.0	0.0	0.0	0.0	0.0	0.0	0	212	212	Off for cleaning in September
Turner 1 & 2	0.0	0.0	0.0	0.0	0.0	0.0	100	83	83	Off for cleaning in September
Turner 3 & 4	0.0	0.0	37.9	45.1	0.0	83.0	0	0	0	2-3 cfs to Turner 4-3
8th Street	0.0	21.0	54.8	0.0	0.0	75.7	150	380	380	3-4 cfs as peak demands allow
Brooks	37.4	51.9	21.4	32.5	0.0	143.2	100	509	509	Basin full, intermittent 2-3 cfs as WL allows
RP3	57.7	112.2	81.6	62.8	0.0	314.3	250	616	616	5-6 CFS through Jurupa, as peak demands allow
Declez	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	No RW delivery mechanism
Victoria	1.6	1.0	0.0	0.0	0.0	2.6	0	87	87	Off for cleaning in September
San Sevaine	0.0	17.7	49.4	44.8	0.0	111.9	0	112	112	3-6 cfs as peak demands allow
Total	150.7	286.6	362.0	286.1	0.0	1,085.3	800	2,872	2,872	1,350 AF, past FY End of Month Actual

