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February 13, 2014

Regional Water Quality Control Board, Santa Ana Region

Attention: Mr. Kurt Berchtold

3737 Main Street, Suite 500
Riverside, California 92501-3348

**Subject: Chino Basin Recycled Water Groundwater Recharge Program
Quarterly Monitoring Report for October through December 2013**

Dear Mr. Berchtold,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the fourth quarter of 2013 (4Q13), October 1 through December 31, 2013, for the *Chino Basin Recycled Water Groundwater Recharge Program*. This document is submitted pursuant to requirements in Order No. R8-2007-0039. All required monitoring and reporting for the quarter are presented in the attached report. During 4Q13, the Groundwater Recharge Program was in compliance with all monitoring and reporting requirements as specified in the Order, with the exception of exceedances of total nitrogen (TN) at Banana Basin and Ely Basins and an exceedance of the 4-quarter running average for odor (secondary MCL).

Chino Basin Watermaster hereby certifies that, during the period of October 1 through December 31, 2013, there was no reported pumping for drinking water purposes in the buffer zones extending 500 feet laterally and 6 months underground travel time from each of the recharge sites using recycled water, namely 8th Street, Banana, Brooks, Ely, Hickory, RP3, San Sevaine, Turner, and Victoria Basins. In point of fact, there are no domestic or municipal production wells in the buffer zones of the aforementioned recharge sites.

DECLARATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments thereto; and that, based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

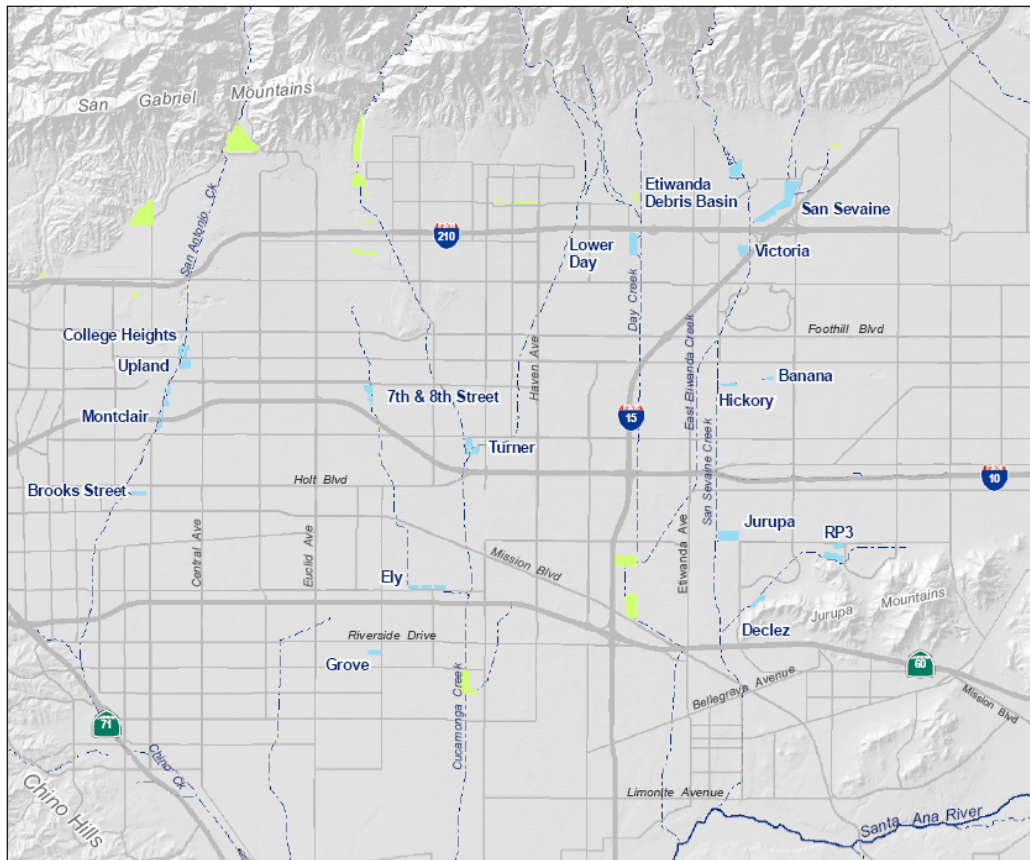
Executed on the 13th day of February 2014 in the Cities of Chino and Rancho Cucamonga.

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Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report October 1 through December 31, 2013



Prepared by:



February 13, 2014

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1. Introduction

Inland Empire Utilities Agency (IEUA), Chino Basin Watermaster (Watermaster), Chino Basin Water Conservation District, and San Bernardino County Flood Control District are partners in the implementation of the Chino Basin Recycled Water Groundwater Recharge Program. This is part of a comprehensive water supply program to enhance water supply reliability and improve the groundwater quality in local drinking water wells throughout the Chino Groundwater Basin by increasing the recharge of stormwater, imported water and recycled water. This program is an integral part of Watermaster's Optimum Basin Management Plan (OBMP).

A. Order No. R8-2007-0039

On June 29, 2007, the Santa Ana Regional Water Quality Control Board (Regional Board) adopted Order No. R8-2007-0039 (Order) which prescribes the requirements for recycled water use for groundwater recharge in 13 recharge sites within the Chino North Management Zone. Chino Basin Groundwater Recharge Program Basins are presented in Figure 1-1. As a provision of this Order, IEUA and Watermaster must also comply with Monitoring and Reporting Program No. R8-2007-0039 (MRP).

The MRP includes the water quality monitoring requirements of the Chino Basin Recycled Water Groundwater Recharge Program and the requirement for the submittal of quarterly and annual reports. This document is the quarterly report for the fourth quarter of 2013 (4Q13).

The quarterly report includes the following elements as prescribed in the MRP:

- Monitoring results for recycled water (including lysimeter monitoring), diluent water, and groundwater.
- Recycled water and diluent water volumes recharged at each basin.
- Reporting of any non-compliance events due to water quality, including records of any operational problems, plant upset and equipment breakdowns or malfunctions, and any diversion(s) of off-specification recycled water and the location(s) of final disposal. All corrective or preventive action(s) taken.
- Certification that no groundwater has been pumped for domestic water supply use from the buffer zone that extends 500 feet and 6-months underground travel time from the recharge basin(s) where recycled water is applied.

B. Order No. R8-2009-0057

On October 23, 2009, the Regional Board adopted Order No. R8-2009-0057, which amended the recharge permit (Order No. R8-2007-0039) by extending the previously 60-month averaging period to 120 months for determining a recharge site's recycled water contribution (RWC). The Order No. R8-2009-0057 also allowed a fraction of the groundwater underflow of the Chino Basin aquifers to be used as a source of diluent water when calculating the running average RWC.

C. Revised Monitoring & Reporting Program No. R8-2007-0039

On October 27, 2010, the Regional Board revised Monitoring and Reporting Program No. R8-2007-0039 (MRP) based on requests for modifications from IEUA and approved by the CDPH. The following changes were made to the MRP:

- 1) Sampling Requirements A.3, A.4, and A.5 were modified by specifying that samples shall be collected on a representative day instead of the 10th day.

- 2) Groundwater Monitoring Program Requirement V.1. was modified by adding a sentence to the paragraph that allows IEUA to analyze the groundwater samples collected on a quarterly basis from non-active municipal drinking water wells for dissolved metals, instead of total recoverable metals.
- 3) Reporting Requirement VI.B.3.b. has been modified and footnote No. 18 has been added to reflect that IEUA uses groundwater monitoring information contained in the *State of the Basin* report prepared on a biennial basis by the Chino Basin Watermaster, amongst other sources, for the annual determination of the recycled water groundwater flow path.

D. Outline of the Quarterly Report

Section 2 of this quarterly report discusses the water quality monitoring results for recycled water recharge (water recycling plant effluent, distribution system, basin surface water, and lysimeter data), diluent water, and groundwater. Section 3 provides an overview of recharge operations including the volume of diluent water and recycled water recharged. Section 4 describes any operational problems and preventive and/or corrective actions taken. Section 5 contains the certification of non-pumping in the 500-foot buffer zones around each basin. Section 6 is a brief overview of the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project.

2. Monitoring Results

A. Recycled Water: RP-1 and RP-4

The requirements for recycled water monitoring are presented in the MRP. Tables 2-1 through 2-4 include all of the requisite 4Q13 data.

Recycled Water Specifications A.5 through A.9 are the narrative limits established in the permit. Corresponding monitoring data are presented in Tables 2-1 and 2-2. Recycled water compliance for the total nitrogen (TN) limit of 5 mg/L is met at the lysimeters.

In October 2013, the average of two consecutive TN sample results for the Banana Basin compliance lysimeter exceeded the 5 mg/L limit. The CDPH and the Regional Board were both notified via e-mail regarding the exceedance. Recycled water deliveries were voluntarily suspended on November 14, 2013. A letter was sent to the CDPH and the Regional Board on December 11, 2013 requesting the relocation of the Banana Basin TN compliance point to the groundwater mound monitoring well, namely BH-1/2. This is the approved TN compliance point for Hickory Basin from a Regional Board letter dated July 29, 2013. At time of reporting, IEUA has not yet received correspondence in acceptance of the proposal to relocate the Banana Basin TN compliance point.

In December 2013, the average of two consecutive TN results for the Ely Basins using the alternative monitoring TN reduction factor of 52% exceeded the 5 mg/L limit. The CDPH and the Regional Board were both notified via e-mail regarding the exceedance. Subsequent sampling during the same month showed that the TN had dropped below the 5 mg/L limit, therefore suspension of recycled water deliveries was not required. The TN exceedance has been attributed to higher than normal TN concentrations from Regional Water Recycling Plant No. 1 (RP-1) recycled water. TN concentrations will continue to be evaluated for the Ely Basins during 1Q14. Please note that the proposed CDPH Groundwater Replenishment with Recycled Water regulations has a TN limit of 10 mg/L, which is two times higher than the TN limit in the existing permit. In the near future, IEUA will request that the TN limit be aligned to be consistent with the State-proposed regulations.

In the Order, compliance for constituents with maximum contaminant levels (MCLs) and secondary MCLs are based on 4-quarter running averages. These constituents are listed in Recycled Water Specifications A.1 through A.3 (Tables I, II, and III in the Order). The 4-quarter running average

concentration data for 1Q13 through 4Q13 are summarized in Table 2-3. The table includes the 4-quarter running average for each parameter and the corresponding limits for compliance. Of the Recycled Water Quality Specifications with limitations, only oil & grease does not require the 4-quarter running average for compliance determination. During 4Q13, there were no exceedances in the following categories: primary MCLs for inorganic chemicals, volatile organic compounds (VOCs), non-volatile synthetic organic chemicals (SOCs), radionuclides, and disinfection byproducts; action levels for lead and copper; secondary MCLs for required constituents, with the exception of odor; and oil and grease.

Odor has a secondary MCL of 3 Units in Recycled Water Specification A.3. During 1Q13, 3Q13, and 4Q13 the threshold odor was found to be 40 Units, 8 Units, and 17 Units, respectively. This results in a 4-quarter running average value of 17 Units, causing the threshold odor to exceed the secondary MCL. This result will continue to impact the 4-quarter running average for 1Q14. The odor has been identified by Eaton Analytical (contract laboratory) as chlorine. Recycled water used for groundwater recharge must meet disinfected tertiary recycled water standards in accordance to Title 22. Sodium hypochlorite is used as the disinfection agent at the RP-1 and RP-4 water recycling facilities; hence, the smell of chlorine is prominent in recycled water and is therefore unavoidable. Order No. R8-2007-0039 allows compliance for secondary MCLs to be determined at the mound monitoring well. Based on the mound monitoring well data (Table 2-8a), threshold odor does not exceed 3 Units at any of the monitoring wells.

Due to the volume of sample required for analyses, IEUA has selected, and CDPH has approved, a recycled water sampling point along the distribution pipeline. IEUA selected the turnout to NRG California South, LP (formerly Reliant Energy) to be representative of the system blend of recycled water used for recharge. Although this sampling location is suitable for most constituents, it is not appropriate for disinfection byproducts (DBPs), more specifically, Total Trihalomethanes (TTHMs) and Total Haloacetic Acids (HAA5). Compliance samples for these DBPs are taken from lysimeters at basins actively receiving recycled water. At these locations, the samples better represent the DBPs present in the recycled water prior to reaching the groundwater table. Once a quarter, a single representative sample is collected from a selected compliance lysimeter and analyzed for DBPs. For the 4Q13 sampling for DBPs, IEUA chose the 25-foot below ground surface lysimeter at the Brooks Basin as the compliance point. The Brooks Basin lysimeter was selected as the compliance point because the basin received consistent recycled water recharge and recycled water was present at the 25-foot depth based on electrical conductivity (EC) measurements.

For constituents with no specified limits, quarterly monitoring data are summarized in Table 2-4.

B. Recycled Water: Basin and Lysimeter Samples

Total organic carbon (TOC) and nitrogen species sampling and analysis are performed weekly during periods when recycled water is delivered to recharge sites. EC is also measured and reported to assist in identifying the presence of recycled water at various depths in the vadose zone. All basin and lysimeter water quality results from 4Q13 are summarized in Table 2-5a. The table includes lysimeter data for 8th Street, Banana, Brooks, Hickory, RP3, San Sevaïne, and Victoria Basins.

The Turner, Ely, 8th Street, San Sevaïne, and Victoria Basins have implemented alternative monitoring plans which include the sampling of recycled water at the GenOn Energy turnout and the application of TOC and TN correction factors for SAT at the basins. The following correction factors were determined from each basin's start-up period findings:

- Turner 1 & 2: TOC reduction of 70 percent and TN reduction of 87 percent
- Turner 3 & 4: TOC reduction of 85 percent and TN reduction of 87 percent

- Ely Basins: TOC reduction of 76 percent and TN reduction of 52 percent
- 8th Street Basin: TOC reduction of 59 percent and TN reduction of 75 percent
- San Sevaine 5: TOC reduction of 78 percent and TN reduction of 69 percent
- Victoria: TOC reduction of 78 percent and TN reduction of 82 percent

The TOC and TN values calculated based on the correction factors provided above are summarized in Table 2-5b.

The Brooks and RP3 Basins have also implemented alternative monitoring plans based on start-up period findings. The Brooks Basin alternative monitoring plan includes monthly sampling of the Brooks Basin surface water, 25-foot lysimeter, and monitoring well BRK-1/1 for EC, TOC, and TN to be conducted as long as recycled water has been recharged in the prior 180 days. Additionally, chloride will be analyzed for BRK-1/1 and used to verify the presence of recycled water. The 25-foot lysimeter will be the compliance point for TN and the monitoring well will be the compliance point for TOC. The RP3 alternative monitoring plan includes monthly sampling of the 35-foot deep lysimeter for EC, TOC, and TN. The monitoring schedule would be conducted during the initial year of recycled water recharge at the RP3 Basin. If sufficient SAT is demonstrated in this initial year, the alternative monitoring plan proposes compliance monitoring from samples collected from the recycled water distribution pipeline and applying a performance-based TOC correction factor determined from past lysimeter monitoring. Brooks and RP3 Basins alternative monitoring data are summarized in Table 2-5b.

C. Diluent Water

For 4Q13, diluent water quality sampling of stormwater was conducted in December 2013 at Declez Basins 3&4, Banana Basin, Etiwanda Debris Basin, and San Sevaine 1 through 5 Basins. Table 2-6 lists the results of the local runoff sampling and analyses. Details on the methods used to measure daily diluent water flow and diluent water monitoring schedule can be found in the CDPH-approved Diluent Water Monitoring Plan. The quarterly sampling schedule for stormwater and local runoff is presented in Table 4-2 of the plan. Stormwater is sampled during the rainy season (1st and 4th quarters) and local runoff is sampled during the dry season (2nd and 3rd quarters). Samples are collected at about half the locations during each seasonal quarter, alternating between even and odd years. Table 5-2 of the plan summarizes the sample type and reporting frequency for the parameters listed in Tables I, II, III, and IV of the Diluent Water Monitoring requirement III.3 of the MRP.

D. Groundwater Monitoring Wells

During 4Q13, groundwater quality within the vicinity of Banana and Hickory Basins was monitored by sampling a network of six wells. The groundwater quality within the vicinity of Turner Basin was monitored by sampling a network of six wells. The groundwater quality within the vicinity of the RP3 Basin was monitored by sampling a network of five wells. The groundwater quality within the vicinity of the 8th Street Basin was monitored by sampling a network of five wells. The groundwater quality within the vicinity of the Brooks Basin was monitored by sampling a network of seven wells. The groundwater quality within the vicinity of the Ely Basin was monitored by sampling a network of four wells. The groundwater quality within the vicinity of the San Sevaine and Victoria Basins were monitored by sampling a network of six wells. The wells in the monitoring well networks for Hickory and Banana, Turner, 8th Street, Ely, Brooks, RP3, and San Sevaine and Victoria Basins are summarized in Table 2-7, and presented on Figures 2-1 through 2-7, respectively. The groundwater constituents analyzed from the monitoring wells during quarterly monitoring are presented in Table 2-8.

Groundwater monitoring is conducted to evaluate water quality conditions in the vicinity of the recharge basins utilizing recycled water. Groundwater monitoring results can be used to assess

background conditions, time the arrival of recharge waters, and the impact recharged water has on downgradient water supplies. Any 4Q13 analyses results which exceeded primary or secondary MCLs are shown in the tables in bold italic font. Of note are the analyses for the following wells and constituents:

Turbidity exceeding the secondary MCL of 5 NTU was observed in several monitoring wells, namely: BRK-2/1, T-2/1, T-2/2, VCT-1/1, and VCT-2/2.

TDS and EC were higher than their secondary MCLs of 500 mg/L and 900 μ mhos/cm, respectively, in Ely MW2 (Walnut). The Alcoa MW3 well slightly exceeded the TDS secondary MCL. The wells south of Ely and near RP3 are located in an area with historically high EC levels ($>1,000$ μ mhos/cm).

Color exceeded the secondary MCL of 15 units in monitoring wells BRK-2/1. Dissolved manganese was above the secondary MCL of 50 μ g/L at RP3-1/2 and T-2/1.

Some monitoring wells in the Banana & Hickory, RP3, Brooks, and Ely monitoring networks have $\text{NO}_3\text{-N}$ concentrations above the primary MCL of 10 mg/L. These higher levels are characteristic of groundwater quality in the local area where historically the $\text{NO}_3\text{-N}$ concentrations ranges from 10-30 mg/L.

3. Recharge Operations

IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water routed to all basins. The 8th Street, Banana, Brooks, Hickory, RP3, San Sevaïne, Turner, and Victoria Basins received recycled water this quarter. Table 3-1 lists the volumes of recycled water and diluent water (local runoff, stormwater, and/or imported water) captured during 4Q13 at the basins that have initiated recharge using recycled water.

4. Operational Problems & Preventive or Corrective Actions

No operational problems were encountered this quarter, therefore no corrective actions were necessary for the following: Regional Water Recycling Facilities - RP-1 & RP-4 and recharge operations.

The RP3 Basins' second closest downgradient monitoring well, Southridge JHS, pump experienced an electrical short during 2Q13. No samples were analyzed during 2Q13, 3Q13 and 4Q13. The well will be sampled once the pump is repaired. IEUA issued a request for proposal to repair the well in 1Q14.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 4Q13 for domestic or municipal use from the buffer zones that extend 500 feet and 6 months underground travel time from the 8th Street, Banana, Brooks, Ely, Hickory, RP3, San Sevaïne, Turner, and Victoria Basins. In fact, there are no domestic or municipal production wells within the buffer zones of these aforementioned recharge sites.

IEUA continues to work with the San Bernardino County Department of Environmental Health Services (SBCDEHS) to prevent the drilling and construction of new drinking water wells within the buffer zones. SBCDEHS has initiated control over production well permitting within the buffer zones of all recharge sites through the use of buffer zone maps that utilize the same land coordinate system (Township/Range/Section/40-acre Parcel) that is used in the permitting process. SBCDEHS reviews new well permit applications, in part, by checking the proposed location of a new drinking water well against recharge basin location maps and parcel lists, both provided by IEUA. The maps and lists show township/range/section parcels (40-acre parcels) that abut recharge basins and their 500-foot buffers.

If a proposed well falls within an abutting parcel, SBCDEHS will review the well location using maps of the basins and buffer zones. If the well falls too near the buffer zone boundary for SBCDEHS to

determine the relationship of the proposed well location to the buffer boundary, SBCDEHS will defer to IEUA for a prompt field review of the proposed well location. The field review may include contacting and having the well applicant identify the exact location of the proposed well casing. To conduct a detailed field review, SBCDEHS will contact and provide IEUA Groundwater Recharge Coordinator with a copy of the well permit application and a timeline for the completion of IEUA's review. Following the review, IEUA will notify SBCDEHS of its findings in writing. IEUA will also notify the California Department of Public Health and the Regional Board of well permit applications that it recommends should be declined due to well locations determined to fall within a 500-foot buffer zone.

6. MVWD ASR Project

Reporting for the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project was allowed by the RWQCB to be included under IEUA/CBWM Phase I Groundwater Recharge Order No. R8-2005-0033 and subsequent permit updates. In April 2007, MVWD, Watermaster, and IEUA entered into an agreement to report the MVWD ASR project groundwater injection/recovery volumes and TIN/TDS mass balance in the recharge program quarterly reports. Initial injection began in June 2007. In May 2008, MVWD discontinued groundwater injection at the ASR wells for an extended period of time. In June 2011, MVWD groundwater injection activities resumed at four ASR wells. MVWD continued injection of imported water through September 2011. No injection has occurred since September 2011. Table 6-1 summarizes the monthly volumes and TIN/TDS of injected and recovered water. The table also includes the mass balance of TIN/TDS from the injection-recovery cycles.

Table 2-1a
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for October 2013
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity ^{1,2,7}	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC ⁷	TDS ³	Hardness	Coliform ^{1,2,4}	Turbidity ^{1,2,7}	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC	TDS ³	Hardness	Coliform ^{1,2,4}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240
10/01/14	1.1	6.1	8.2		8.2	7.1	868			<2	0.6	4.1	3.5		3.5	7.1	765			<2
10/02/14	1.2	6.5	7.5		7.5	7.0	881			<2	0.6	4.1	4.1		4.1	7.1	760			<2
10/03/14	1.2	6.5				7.1	887			<2	0.6	4.0				7.1	750			<2
10/04/14	0.8	5.7				7.1	882			<2	0.6	3.7				7.1	735			<2
10/05/14	0.5	5.5				7.1	888			<2	0.6	4.0				7.2	735			<2
10/06/14	0.5	5.2	7.6	7.6	7.6	7.1	890	470	149	<2	0.6	3.9	4.8	5.6	4.8	7.1	735	448	147	<2
10/07/14	0.7	5.3	8.3		8.3	7.1	876			<2	0.6	3.8	3.2		3.2	7.1	735			<2
10/08/14	0.6	5.4	6.9		6.9	7.1	881			2	0.5	3.7	3.0		3.0	7.1	740			<2
10/09/14	0.6	5.6	7.4		7.4	7.2	882			<2	0.6	3.9	4.9		4.9	7.1	760			<2
10/10/14	0.6	6.2	8.3		8.3	7.1	874			<2	0.6	4.0	6.5		6.5	7.1	750			<2
10/11/14	0.6	6.4				7.1	874			<2	0.6	3.9				7.0	740			<2
10/12/14	0.6	6.4				7.1	873			<2	0.5	3.9				7.0	730			<2
10/13/14	0.6	6.0	7.0	7.0	7.0	7.1	881	484		<2	0.5	3.9	4.3	5.5	4.3	7.1	720	442		<2
10/14/14	0.6	5.8	7.8		7.8	7.1	843			<2	0.5	3.8	3.3		3.3	7.1	710			<2
10/15/14	0.5	5.6	9.0		9.0	7.0	867			<2	0.4	3.8	4.2		4.3	7.1	725			<2
10/16/14	0.4	5.4	8.4		8.4	7.0	868			<2	0.4	3.9	5.1		5.1	7.1	725			<2
10/17/14	0.4	5.3	7.7		7.7	7.0	874			<2	0.4	3.7	5.1		5.1	7.1	720			<2
10/18/14	0.5	5.3				7.0	852			<2	0.4	3.6				7.1	735			<2
10/19/14	0.5	5.0				7.0	849			<2	0.4	3.7				7.1	735			<2
10/20/14	0.5	5.3	9.7	9.7	9.7	7.0	852	484		<2	0.4	4.0	4.6	4.6	4.6	7.1	760	464		<2
10/21/14	0.5	5.7	8.1		8.1	7.0	863			<2	0.4	3.9	4.0		4.0	7.1	765			<2
10/22/14	0.6	5.6	7.8		7.8	7.0	852			2	0.4	4.0	4.5		4.5	7.1	770			<2
10/23/14	0.6	5.7	9.1		9.1	7.0	843			<2	1.0	4.2	4.2		4.2	7.1	780			<2
10/24/14	0.6	5.6	9.1		9.1	7.0	846			<2	0.5	4.0	5.2		5.2	7.0	770			<2
10/25/14	0.7	5.4				7.0	843			<2	0.4	3.8				7.0	785			<2
10/26/14	0.6	5.4				7.0	858			<2	0.4	3.7				7.0	790			<2
10/27/14	0.7	5.8	8.4	8.4	8.4	7.0	863	466		<2	0.4	3.8	3.4	3.4	3.4	7.0	780	480		<2
10/28/14	0.7	5.9	9.3		9.3	7.0	865			2	0.4	3.8	3.3		3.3	7.1	790			<2
10/29/14	0.7	6.0	9.0		9.0	7.0	852			2	0.4	3.7	5.4		5.4	7.0	805			<2
10/30/14	0.6	6.0	8.0		8.0	7.0	845			<2	0.4	3.8	4.7		4.7	7.0	795			<2
10/31/14	0.6	5.6	8.5		8.5	7.0	856			<2	0.5	3.7	5.0		5.0	7.0	791			<2
Avg	0.6	5.7	8.2	8.2	8.2	7.1	865	476	149	<2	0.5	3.9	4.4	4.8	4.4	7.1	754	459	147	<2
Min	0.4	5.0	6.9	7.0	6.9	7.0	843	466	149	<2	0.4	3.6	3.0	3.4	3.0	7.0	710	442	147	<2
Max	1.2	6.5	9.7	9.7	9.7	7.2	890	484	149	2	1.0	4.2	6.5	5.6	6.5	7.2	805	480	147	<2

Note:

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA8000409, Order No. R8-2009-0021.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results.

⁶ TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

⁷ These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-1b
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for November 2013
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity ^{1,2,7}	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC ⁷	TDS ³	Hardness	Coliform ^{1,2,4}	Turbidity ^{1,2,7}	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC	TDS ³	Hardness	Coliform ^{1,2,4}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240
11/01/14	0.6	5.0				6.9	858			<2	0.4	3.2				7.0	790			<2
11/02/14	0.6	5.1				6.9	854			<2	0.4	3.3				7.0	790			<2
11/03/14	0.7	5.1	7.7	7.7	7.7	7.0	840	494	157	<2	0.5	3.4	3.0	3.0	3.0	7.1	795	482	157	<2
11/04/14	0.8	5.6	8.3		8.3	7.0	832			2	0.5	3.5	2.6		2.6	7.1	790			<2
11/05/14	0.8	5.4	8.7		8.7	7.0	867			2	0.6	3.6	3.0		3.0	7.1	805			<2
11/06/14	0.8	5.9	7.9		7.9	7.0	885			<2	0.6	3.8	5.1		5.1	7.1	810			<2
11/07/14	0.7	5.4	9.3		9.3	7.0	885			<2	0.6	3.6	6.9		6.9	7.0	800			<2
11/08/14	0.6	5.4				7.0	893			<2	0.6	3.6				7.0	790			<2
11/09/14	0.7	5.2				6.9	887			<2	0.6	3.7				7.0	790			<2
11/10/14	0.6	5.5	9.6	9.6	9.6	7.0	870	482		<2	0.6	3.8	4.2	5.1	4.2	7.0	790	464		<2
11/11/14	0.7	5.8	8.8		8.8	6.9	868			2	0.6	3.9	4.4		4.4	7.0	800			<2
11/12/14	0.6	6.2	9.3		9.3	7.0	882			<2	0.5	4.0	3.7		3.7	7.0	795			<2
11/13/14	0.6	5.9	9.4		9.4	7.0	881			<2	0.5	4.0	4.0		4.0	7.0	810			<2
11/14/14	0.6	5.2	9.2		9.2	7.0	885			<2	0.5	3.7	3.6		3.6	7.0	805			<2
11/15/14	0.6	5.0				7.0	885			<2	0.6	3.5				7.1	805			<2
11/16/14	0.6	5.1				7.0	883			2	0.6	3.6				7.1	795			<2
11/17/14	0.6	5.3	8.8	8.8	8.8	7.1	884	488		2	0.6	3.7	3.9	3.9	3.9	7.0	805	486		<2
11/18/14	0.6	5.3	7.5		7.5	7.1	876			<2	0.6	3.7	3.3		3.3	7.0	805			<2
11/19/14	0.8	5.5	7.3		7.3	7.0	888			<2	0.6	3.8	3.2		3.2	7.0	820			<2
11/20/14	0.6	5.5	8.0		8.0	7.1	892			<2	0.6	4.0	3.6		3.6	7.0	815			<2
11/21/14	0.6	5.5				7.1	891			2	0.6	3.8				7.0	805			<2
11/22/14	0.5	5.3				7.1	891			<2	0.6	4.0				7.0	800			<2
11/23/14	0.5	5.4				7.1	889			<2	0.5	3.9				7.0	800			<2
11/24/14	0.5	5.7	7.3	7.3	7.3	7.1	898	494		<2	0.5	4.1	3.0	3.0	3.0	7.0	795	472		<2
11/25/14	0.6	5.5	7.2		7.2	7.1	890			2	0.5	4.0	2.7		2.7	7.0	795			<2
11/26/14	0.5	5.4	6.5		6.5	7.1	890			2	0.6	4.1	2.1		2.1	7.0	800			<2
11/27/14	0.5	5.3				7.1	887			2	0.6	3.8				7.0	790			<2
11/28/14	0.5	5.2				7.2	891			<2	0.6	3.8				7.0	805			<2
11/29/14	0.5	5.2				7.2	884			<2	0.6	3.9				7.0	800			<2
11/30/14	0.5	5.2				7.1	880			<2	0.7	4.2				7.0	825			<2
						0.0					0.0	0.0				0.0				
Avg	0.6	5.4	8.3	8.4	8.3	6.8	880	490	157	<2	0.5	3.6	3.7	3.8	3.7	6.8	801	476	157	<2
Min	0.5	5.0	6.5	7.3	6.5	0.0	832	482	157	<2	0.0	0.0	2.1	3.0	2.1	0.0	790	464	157	<2
Max	0.8	6.2	9.6	9.6	9.6	7.2	898	494	157	2	0.7	4.2	6.9	5.1	6.9	7.1	825	486	157	<2

Note:

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA8000409, Order No. R8-2009-0021.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results. TOC compliance can be met at a point prior to the regional groundwater, including lysimeters.

⁶ TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

⁷ These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-1c
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for December 2013
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity ^{1,2,7}	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC ⁷	TDS ³	Hardness	Coliform ^{1,2,4}	Turbidity ^{1,2,7}	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC	TDS ³	Hardness	Coliform ^{1,2,4}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240
12/01/14	0.5	5.6	6.8	7.3	6.8	7.1	875	482		<2	0.7	4.4	2.5	2.7	2.5	6.9	815	488		<2
12/02/14	0.5	5.7	4.3		4.3	7.1	853			<2	0.8	4.4	2.1		2.1	7.0	815			<2
12/03/14	0.6	5.5	7.4		7.4	7.1	869			<2	0.8	4.3	1.9		1.9	7.0	810			<2
12/04/14	0.6	5.8	10.2		10.2	7.1	863			<2	0.7	4.1	2.5		2.5	7.1	800			<2
12/05/14	0.5	5.8	12.9		12.9	7.0	867			2	0.6	4.0	3.7		3.7	7.0	805			<2
12/06/14	0.5	5.9				7.1	861			<2	0.6	4.0				7.0	790			<2
12/07/14	0.5	6.0				7.1	865			<2	0.6	4.1				7.0	795			<2
12/08/14	0.5	6.2	12.2	12.7	12.2	7.1	865	508	155	<2	0.6	4.3	3.2	4.1	3.2	7.0	800	492	145	<2
12/09/14	0.6	6.4	10.9		10.9	7.1	859			2	0.7	4.3	2.8		2.8	7.0	805			<2
12/10/14	0.6	6.4	11.5		11.5	7.1	855			<2	0.6	4.1	2.9		2.9	7.0	805			<2
12/11/14	0.6	6.4	11.4		11.4	7.1	881			<2	0.6	4.0	3.4		3.4	7.0	790			<2
12/12/14	0.6	5.8				7.1	900			<2	0.6	3.6				7.0	740			<2
12/13/14	0.6	5.8				7.1	892			<2	0.6	3.6				7.0	715			<2
12/14/14	0.6	5.3				7.1	878			<2	0.5	3.5				7.1	705			<2
12/15/14	0.6	6.8	12.3	12.8	12.3	7.1	859	508		<2	0.5	4.1	2.8	3.4	2.8	7.0	730	452		<2
12/16/14	0.6	6.0	10.6		10.6	7.1	851			<2	0.4	3.7	2.3		2.3	7.0	765			<2
12/17/14	0.6	5.4	10.1		10.1	7.1	864			<2	0.5	3.9	2.6		2.6	7.0	775			<2
12/18/14	0.6	6.2	11.4		11.4	7.1	823			2	0.5	3.8	3.5		3.5	7.0	770			<2
12/19/14	0.5	5.7	10.3		10.3	7.2	804			<2	0.5	3.8	3.2		3.2	7.1	755			<2
12/20/14	0.5	5.5				7.2	779			<2	0.4	4.0				7.0	755			<2
12/21/14	0.5	5.6				7.2	789			<2	0.4	4.0				7.0	770			<2
12/22/14	0.6	5.8	7.4	7.9	7.4	7.2	797	480		<2	0.5	4.2	3.3	4.0	3.3	7.0	775	532		<2
12/23/14	0.8	5.8	6.3		6.3	7.1	790			<2	0.5	4.1	2.9		2.9	7.0	790			<2
12/24/14	0.5	5.7				7.1	793			<2	0.5	4.2				7.0	765			<2
12/25/14	0.5	5.1				7.0	ND			4	0.6	4.1				7.1	790			<2
12/26/14	0.6	5.5	8.5		8.5	7.0	ND			<2	0.6	4.3	3.2		3.2	7.1	815			<2
12/27/14	0.6	5.7				7.0	ND			<2	0.6	4.3				7.0	815			<2
12/28/14	0.6	5.8				7.1	ND			<2	0.6	4.3				7.0	820			<2
12/29/14	0.6	5.9	6.7	7.2	6.7	7.1	ND	516		<2	0.6	4.6	3.1	3.6	3.1	7.1	820	496		<2
12/30/14	0.6	5.9	8.1		8.1	7.0	ND			<2	0.5	4.2	3.2		3.2	7.0	820			<2
12/31/14	0.5	5.8				7.0	808			<2	0.6	4.2				7.0	820			<2
Avg	0.6	5.8	9.4	9.6	9.4	7.1	846	499	155	<2	0.6	4.1	2.9	3.6	2.9	7.0	785	492	145	<2
Min	0.5	5.1	4.3	7.2	4.3	7.0	779	480	155	<2	0.4	3.5	1.9	2.7	1.9	6.9	705	452	145	<2
Max	0.8	6.8	12.9	12.8	12.9	7.2	900	516	155	4	0.8	4.6	3.7	4.1	3.7	7.1	820	532	145	<2

Note:

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA8000409, Order No. R8-2009-0021.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

⁴ Monthly average for coliform is based on "non-detected" values equal to 2. Determination of "less than" is dependent on the number of "non-detected" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results. TOC compliance can be met at a point prior to the regional groundwater, including lysimeters.

⁶ TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

⁷ These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-2
Recycled Water Monitoring: Agency-Wide Flow-Weighted TIN & TDS (mg/L)
(Recycled Water Quality Specifications A.6)

	TIN		TDS	
Date	Monthly	12-Mo. Run Avg.	Monthly	12-Mo. Run Avg.
Jan-13	6.1	5.9	495	484
Feb-13	6.8	5.9	490	486
Mar-13	6.1	5.9	493	485
Apr-13	6.4	5.8	501	486
May-13	6.4	5.8	503	487
Jun-13	5.8	5.8	502	488
Jul-13	5.6	5.8	496	490
Aug-13	6.9	6.0	496	493
Sep-13	7.3	6.2	499	495
Oct-13	7.4	6.4	496	496
Nov-13	6.7	6.4	507	497
Dec-13	7.6	6.6	511	499
Avg	6.6	6.0	499	490
Min	5.6	5.8	490	484
Max	7.6	6.6	511	499
Limit		8.0		550

Date source: IEUA NPDES monthly self-monitoring report (MRP No. R8-2009-0021)

The data reported above will supersede any information submitted for previous quarters. Agency-wide TIN & TDS were in compliance with permit limits at all times.

Table 2-3
Recycled Water Monitoring: Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, & A.15)

Constituent	1Q13	2Q13	3Q13	4Q13	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	29	30	36	30	31	1000	µg/L	EPA 200.8
Antimony	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<0.7	<0.7	<0.8	<1.9	<1.9	7	MFL	EPA 100.2
Barium	8	10	7	10	8	1000	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium	0.7	0.8	3.1	1.4	1.5	50	µg/L	EPA 200.8
Cyanide	6	6	<5	<5	<5	150	µg/L	SM 4500-CN E
Fluoride	0.2	0.2	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 245.2
Nickel	2	3	2	3	2	100	µg/L	EPA 200.8
Perchlorate	<2	<4	<4	<4	<4	6	µg/L	EPA 314/331.0
Selenium	<2	<2	2	3	2	50	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	<0.5	1.0	<0.5	<1	<1	1	µg/L	EPA 524.2/624
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<1	<1	600	µg/L	EPA 524.2/624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<1	<1	5	µg/L	EPA 524.2/624
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<1	<1	6	µg/L	EPA 524.2/624
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2/624
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2/624
Dichloromethane	<0.5	<0.5	<0.5	<1	<1	5	µg/L	EPA 524.2/624
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,3-Dichloropropene	<0.5	<0.5	<0.5	<1	<1	0.5	µg/L	EPA 524.2/624
Ethylbenzene	<0.5	<0.5	<0.5	<1	<1	300	µg/L	EPA 524.2/624
Monochlorobenzene	<0.5	<0.5	<0.5	<1	<1	70	µg/L	EPA 524.2/624
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2/624
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2/624
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2/624
Tetrachloroethylene	<0.5	<0.5	<0.5	<1	<1	5	µg/L	EPA 524.2/624
Toluene	<0.5	<0.5	<0.5	<1	<1	150	µg/L	EPA 524.2/624
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<1	<1	200	µg/L	EPA 524.2/624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<1	<1	5	µg/L	EPA 524.2/624
Trichloroethylene	<0.5	<0.5	<0.5	<1	<1	5	µg/L	EPA 524.2/624
Trichlorofluoromethane	<0.5	<0.5	<0.5	<2	<2	150	µg/L	EPA 524.2/624
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2/624
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 ²	µg/L	EPA 524.2/624
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5		µg/L	EPA 524.2/624
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	<0.1	2	µg/L	EPA 505
Atrazine	<0.05	<0.05	NA	<0.5	<0.5	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	NA	<0.2	<0.2	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	3	<1	4	4	3	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	NA	<0.5	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	NA	<0.5	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505

Table 2-3
Recycled Water Monitoring: Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, & A.15)

Constituent	1Q13	2Q13	3Q13	4Q13	4Q Run. Avg. ¹	Limit	Unit	Method
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	NA	<0.5	<0.5	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	NA	<0.5	<0.5	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	NA	<0.5	<0.5	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	NA	<0.5	<0.5	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	NA	<0.5	<0.5	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Action Level Chemicals								
Copper	2.6	2.6	2.9	1.9	2.5	1300	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 and Radium 228	<0.23	<0.31	<0.25	<0.12	<0.31	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<2	5	<1	<3	15	pCi/L	EPA 900.0/SM7110C
Tritium	<264	<251	<215	<203	<264	20,000	pCi/L	EPA 906
Strontium-90	<0.55	<0.80	<0.65	<0.33	<0.80	8	pCi/L	EPA 905
Gross Beta Particle Activity	10	12	11	10	11	50	pCi/L	EPA 900.0
Uranium	<0.7	<0.7	<0.7	<0.7	<0.7	20	pCi/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals								
Aluminum	29	30	36	30	31	200	µg/L	EPA 200.8
Copper	2.6	2.6	2.9	1.9	2.5	1000	µg/L	EPA 200.8
Corrosivity ³	NR	NR	-0.3 (Non-Cor.)	NR	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ³	0.11	0.08	0.06	0.08	0.08	0.5	mg/L	S5540C/EPA 425.1
Iron ³	NR	NR	41	NR	109	300	µg/L	EPA 200.7
Manganese	16	33	10	16	19	50	µg/L	EPA 200.8
Methyl-tert-butyl ether (MTBE) ³	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Odor--Threshold ³	40	3	8	17	17	3	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	<0.25	<0.25	100	µg/L	EPA 200.8
Thiobencarb	<0.2	<0.2	NA	<0.2	<0.2	1	µg/L	EPA 525.2
Zinc	27	26	25	19	24	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁴	<1	<1	<1	<1	<1	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<5	<5	<5	<5	<5	10	µg/L	EPA 300.1
Chlorite	<0.01	<0.01	<0.01	<0.01	<0.01	1	mg/L	EPA 300.0
BNA-LYS-25 BRK-LYS-25 BRK-LYS-25 BRK-LYS-25								
Lysimeter Compliance Point Data	1Q13	2Q13	3Q13	4Q13				
Total Trihalomethanes (TTHMs)	<4	<4	<2	2	<4	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<2	<2	<2	<2	<2	60	µg/L	S6251B

NR: Not required this quarter

NA: Not Analyzed. Two samples were collected during 4Q13 and the average reported

¹ 4-quarter running average is calculated based on ND values equal to half the detection limit. The reported 4-quarter running average value, if less than DL, will be based on highest DL found in the data set.

² The sum of m,p-Xylene and o-Xylene is used to calculate compliance for the Total Xylenes limit

³ 4-quarter running average is calculated based on the four most recent results. Monitoring is required annually. However, if monitoring takes place more frequently than required, those results will be reported.

⁴ Oil & Grease compliance determination not based on 4-quarter running average

Bold signifies an exceedance of a limit in the Order. Explained in further detail in the report text.

Table 2-4
Recycled Water Monitoring: Remaining Priority Pollutants, EDCs & Pharmaceuticals, and Unregulated Chemicals
(Monitoring & Reporting Program)

Constituent	4Q13	Unit	Method	Constituent	4Q13	Unit	Method
Metals				Pesticides			
Chromium (III) ¹	1.4	µg/L	EPA 200.8	Aldrin	NR	µg/L	EPA 608
Volatile Organic Chemicals (VOCs)				BHC, alpha isomer	NR	µg/L	EPA 608
Acrolein	NR	µg/L	EPA 624	BHC, beta isomer	NR	µg/L	EPA 608
Acrylonitrile	NR	µg/L	EPA 624	BHC, delta isomer	NR	µg/L	EPA 608
Bromoform	<1	µg/L	EPA 524.2/624	4,4'-DDT	NR	µg/L	EPA 608
Chlorodibromomethane	6	µg/L	EPA 524.2/624	4,4'-DDE	NR	µg/L	EPA 608
Chloroethane	<1	µg/L	EPA 524.2/624	4,4'-DDD	NR	µg/L	EPA 608
2-Chloroethylvinylether	<1	µg/L	EPA 524.2/624	Dieldrin	NR	µg/L	EPA 608
Chloroform	62	µg/L	EPA 524.2/624	Endosulfan I	NR	µg/L	EPA 608
Dichlorobromomethane	24	µg/L	EPA 524.2/624	Endosulfan II	NR	µg/L	EPA 608
Methyl Bromide	<1	µg/L	EPA 524.2/624	Endosulfan Sulfate	NR	µg/L	EPA 608
Methyl Chloride	1	µg/L	EPA 524.2/624	Unregulated Chemicals			
Acid Extractables				Endrin Aldehyde	NR	µg/L	EPA 608
2-Chlorophenol	NR	µg/L	EPA 625	Chromium VI	0.19	µg/L	EPA 218.6
2,4-Dichlorophenol	NR	µg/L	EPA 625	Ethyl tertiary butyl ether	NR	µg/L	EPA 524.2
2,4-Dimethylphenol	NR	µg/L	EPA 625	Tertiary amyl methyl ether	NR	µg/L	EPA 524.2
2-Methyl-4,6-dinitrophenol	NR	µg/L	EPA 625	Chemicals w/ State Notification Levels ²			
2,4-Dinitrophenol	NR	µg/L	EPA 625	Boron	0.2	mg/L	EPA 200.7
2-Nitrophenol	NR	µg/L	EPA 625	n-butylbenzene	NR	µg/L	EPA 524.2
4-Nitrophenol	NR	µg/L	EPA 625	sec-butylbenzene	NR	µg/L	EPA 524.2
4-Chloro-3-methylphenol	NR	µg/L	EPA 625	tert-butylbenzene	NR	µg/L	EPA 524.2
Phenol	NR	µg/L	EPA 625	Carbon disulfide	NR	µg/L	EPA 524.2
2,4,6-Trichlorophenol	NR	µg/L	EPA 625	Chlorate	140	µg/L	EPA 300.0
Base/Neutral Extractables				2-Chlorotoluene	NR	µg/L	EPA 524.2
Acenaphthene	NR	µg/L	EPA 625	4-Chlorotoluene	NR	µg/L	EPA 524.2
Acenaphthylene	NR	µg/L	EPA 625	Diazinon	<0.1	µg/L	EPA 525.2
Anthracene	NR	µg/L	EPA 625	Dichlorodifluoromethane (Freon 12)	NR	µg/L	EPA 524.2
Benzidine	NR	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522
Benzo(a)anthracene	NR	µg/L	EPA 625	Ethylene glycol	<4	mg/L	EPA 8015B
Benzo(b)fluoranthene	NR	µg/L	EPA 625	Formaldehyde	21	µg/L	EPA 556
Benzo(g,h,i)perylene	NR	µg/L	EPA 625	HMX	<0.4	µg/L	EPA 8330B
Benzo(k)fluoranthene	NR	µg/L	EPA 625	Isopropylbenzene	NR	µg/L	EPA 524.2
Bis(2-chloroethoxy)methane	NR	µg/L	EPA 625	Methyl isobutyl ketone (MIBK)	NR	µg/L	EPA 524.2
Bis(2-chloroethyl)ether	NR	µg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521
Bis(2-chloroisopropyl)ether	NR	µg/L	EPA 625	N-nitrosodimethylamine (NDMA)	4.3	ng/L	EPA 521
4-Bromophenyl phenyl ether	NR	µg/L	EPA 625	Propachlor	<0.05	µg/L	EPA 525.2
Butyl benzyl phthalate	NR	µg/L	EPA 625	N-propylbenzene	NR	µg/L	EPA 524.2
2-Chloronaphthalene	NR	µg/L	EPA 625	RDX	0.7	µg/L	EPA 8330B
4-Chlorophenyl phenyl ether	NR	µg/L	EPA 625	Tertiary butyl alcohol	<2	µg/L	EPA 524.2
Chrysene	NR	µg/L	EPA 625	1,2,3-Trichloropropane (1,2,3-TCP)	NR	µg/L	EPA 524.2
Dibenzo(a,h)anthracene	NR	µg/L	EPA 625	1,2,4-trimethylbenzene	<0.5	µg/L	EPA 524.2
1,3-Dichlorobenzene	NR	µg/L	EPA 625	1,3,5-trimethylbenzene	NR	µg/L	EPA 524.2
3,3-Dichlorobenzidine	NR	µg/L	EPA 625	2,4,6-Trinitrotoluene	<0.4	µg/L	EPA 8330B
Diethyl phthalate	NR	µg/L	EPA 625	Vanadium	3	µg/L	EPA 200.8
Dimethyl phthalate	NR	µg/L	EPA 625	Endocrine Disrupting Chemicals, Pharmaceuticals and Other Chemicals ²			
Di-n-butyl phthalate	NR	µg/L	EPA 625	Acetaminophen	<5	ng/L	LC-MS-MS
2,4-Dinitrotoluene	NR	µg/L	EPA 625	Bis Phenol A (BPA)	<10	ng/L	LC-MS-MS
2,6-Dinitrotoluene	NR	µg/L	EPA 625	Caffeine	<5	ng/L	LC-MS-MS
Di-n-octyl phthalate	NR	µg/L	EPA 625	Carbamazepine	74	ng/L	LC-MS-MS
Azobenzene	NR	µg/L	EPA 625	DEET	88	ng/L	LC-MS-MS
Fluoranthene	NR	µg/L	EPA 625	Estradiol	<5	ng/L	LC-MS-MS
Fluorene	NR	µg/L	EPA 625	Estrone	<5	ng/L	LC-MS-MS
Hexachlorobutadiene	NR	µg/L	EPA 625	Ethinyl Estradiol - 17 alpha	<5	ng/L	LC-MS-MS
Hexachlorocyclopentadiene	NR	µg/L	EPA 625	Fluoxetine	58	ng/L	LC-MS-MS
Hexachloroethane	NR	µg/L	EPA 625	Gemfibrozil	<5	ng/L	LC-MS-MS
Indeno(1,2,3-cd)pyrene	NR	µg/L	EPA 625	Ibuprofen	<10	ng/L	LC-MS-MS
Isophorone	NR	µg/L	EPA 625	Iopromide	50	ng/L	LC-MS-MS
Naphthalene	NR	µg/L	EPA 625	Progesterone	<5	ng/L	LC-MS-MS
Nitrobenzene	NR	µg/L	EPA 625	Sucralose	44000	ng/L	LC-MS-MS
N-Nitroso-di-n-propylamine	NR	µg/L	EPA 625	Sulfamethoxazole	<5	ng/L	LC-MS-MS
N-Nitrosodiphenylamine	NR	µg/L	EPA 625	Testosterone	<5	ng/L	LC-MS-MS
Phenanthrene	NR	µg/L	EPA 625	Triclosan	<10	ng/L	LC-MS-MS
Pyrene	NR	µg/L	EPA 625	Trimethoprim	<5	ng/L	LC-MS-MS

¹ Trivalent chromium is measured as total chromium

² Chemicals with State Notification Levels, Nitrosamines, and EDC, Pharmaceuticals & Other Chemicals

NR: Not Required (Annual Requirement)

* These annual requirement parameters will be sampled during 4Q13

Table 2-5a
Lysimeter and Surface Water Monitoring: TOC, Nitrogen Species, and EC

8th Street Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
8TH-LYS-00	0	10/02/13	7.62	4.5	2.6	2.5	2.0	<0.01	755
8TH-LYS-00	0	11/13/13	5.60	6.3	5.1	5.1	1.2	<0.01	785
8TH-LYS-00	0	12/04/13	6.91	4.1	2.6	2.4	1.7	0.03	685
8TH-LYS-35	35	10/02/13	2.87	<0.6	<0.2	<0.1	0.5	<0.01	775
8TH-LYS-35	35	11/13/13	3.15	<0.6	<0.2	0.1	<0.5	<0.01	755
8TH-LYS-35	35	12/04/13	3.25	<0.6	<0.2	0.1	<0.5	<0.01	750

Banana Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
BNA-LYS-00	0	10/02/13	4.87	8.5	7.4	7.3	1.2	<0.01	820
BNA-LYS-00	0	10/09/13	5.29	8.6	7.6	7.4	1.2	<0.01	780
BNA-LYS-00	0	10/16/13	4.49	7.6	7.6	7.6	<0.5	<0.01	765
BNA-LYS-00	0	10/23/13	4.38	6.1	6.1	6.1	<0.5	<0.01	780
BNA-LYS-00	0	10/30/13	4.08	7.5	6.8	6.8	0.7	<0.01	804
BNA-LYS-00	0	11/06/13	4.65	8.1	7.4	7.4	0.7	<0.01	810
BNA-LYS-00	0	11/13/13	4.32	7.0	7.0	7.0	<0.5	<0.01	805
BNA-LYS-00	0	11/26/13	10.8	2.2	1.3	1.0	1.2	0.07	110
BNA-LYS-00	0	12/11/13	21.3	4.2	1.1	1.0	3.2	0.08	125
BNA-LYS-00	0	12/24/13	19.4	2.2	0.4	0.3	1.9	<0.01	120
BNA-LYS-25	25	10/02/13	0.78	1.3	1.3	1.3	<0.5	<0.01	710
BNA-LYS-25	25	10/09/13	0.94	3.8	3.8	3.8	<0.5	<0.01	755
BNA-LYS-25	25	10/16/13	1.38	5.8	5.8	5.8	<0.5	<0.01	780
BNA-LYS-25	25	10/23/13	1.22	5.9	6.4	5.9	<0.5	<0.01	775
BNA-LYS-25	25	10/30/13	1.11	6.3	6.3	6.3	<0.5	<0.01	750
BNA-LYS-25	25	11/06/13	0.91	6.0	6.0	6.0	<0.5	<0.01	740
BNA-LYS-25	25	11/13/13	0.73	6.3	6.3	6.3	<0.5	<0.01	735
BNA-LYS-25	25	11/20/13	0.97	6.4	7.6	6.4	<0.5	<0.01	770
BNA-LYS-25	25	11/26/13	0.91	6.6	6.6	6.6	<0.5	<0.01	760
BNA-LYS-25	25	12/04/13	0.89	6.3	6.4	6.3	<0.5	<0.01	765
BNA-LYS-25	25	12/11/13	1.50	6.7	6.7	6.7	<0.5	<0.01	785
BNA-LYS-25	25	12/18/13	0.98	7.1	6.5	6.5	0.6	<0.01	785
BNA-LYS-25	25	12/24/13	0.96	7.2	6.8	6.7	0.5	<0.01	795

Brooks Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
BRK-LYS-00	0	10/02/13	4.32	3.5	2.5	2.5	1.0	<0.01	760
BRK-LYS-00	0	11/06/13	5.07	5.4	4.5	4.1	1.3	0.10	755
BRK-LYS-00	0	12/04/13	5.02	4.6	3.6	3.3	1.3	0.11	760
BRK-LYS-25	25	10/02/13	3.05	0.9	<0.2	0.1	0.8	<0.01	815
BRK-LYS-25	25	11/06/13	3.46	<0.6	<0.2	0.1	<0.5	<0.01	825
BRK-LYS-25	25	12/04/13	3.26	0.9	<0.2	0.1	0.8	<0.01	830

Hickory East Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
HKYE-LYS-00	0	11/20/13	4.38	7.1	6.4	6.3	0.8	<0.01	835
HKYE-LYS-00	0	11/26/13	4.70	6.7	5.2	5.2	1.5	<0.01	800
HKYE-LYS-00	0	12/04/13	4.75	4.7	3.7	3.7	1.0	<0.01	835
HKYE-LYS-00	0	12/11/13	4.79	9.4	8.5	8.5	0.9	<0.01	825
HKYE-LYS-00	0	12/18/13	7.95	9.2	7.9	7.9	1.3	<0.01	815
HKYE-LYS-00	0	12/24/13	7.81	8.8	8.0	7.8	1.0	<0.01	810
HKYE-LYS-25	25	10/02/13	1.31		3.4	2.9		<0.01	790
HKYE-LYS-25	25	10/09/13	1.28	3.5	3.0	3.0	0.5	<0.01	810
HKYE-LYS-25	25	10/16/13	1.05	3.2	3.2	3.2	<0.5	<0.01	830
HKYE-LYS-25	25	10/23/13	1.01	3.5	3.5	3.5	<0.5	<0.01	825
HKYE-LYS-25	25	10/30/13	1.27						820
HKYE-LYS-25	25	11/06/13	1.29	3.7	3.7	3.7	<0.5	<0.01	815
HKYE-LYS-25	25	11/13/13	1.00	4.2	4.3	4.2	<0.5	<0.01	825
HKYE-LYS-25	25	11/20/13	1.58	6.9	6.4	6.4	0.5	<0.01	845
HKYE-LYS-25	25	11/26/13	2.08	8.7	7.8	7.8	0.9	<0.01	885
HKYE-LYS-25	25	12/04/13	2.03	5.2	4.4	4.4	0.8	<0.01	805
HKYE-LYS-25	25	12/11/13	2.15	4.1	4.3	4.1	<0.5	<0.01	790
HKYE-LYS-25	25	12/18/13	1.79	5.5	4.9	4.9	0.6	<0.01	760
HKYE-LYS-25	25	12/24/13	1.87	7.7	8.8	6.9	0.8	<0.01	775

Table 2-5a
Lysimeter and Surface Water Monitoring: TOC, Nitrogen Species, and EC

RP3 Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
RP31-LYS-00	0	10/02/13	6.26	4.6	3.2	2.4	2.2	0.72	780
RP31-LYS-00	0	11/13/13	21.4	2.7	<0.2	0.1	2.6	<0.01	750
RP31-LYS-00	0	12/04/13	9.25	3.8	2.3	1.7	2.1	0.03	625
RP31-LYS-35	35	10/02/13	1.23	2.2	2.2	2.2	<0.5	<0.01	715
RP31-LYS-35	35	11/13/13	1.63	1.8	1.8	1.8	<0.5	<0.01	720
RP31-LYS-35	35	12/04/13	1.28	2.2	1.5	1.5	0.7	<0.01	740

San Sevaïne Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
SS5-LYS-00	0	10/02/13	7.33	3.8	1.6	1.6	2.2	<0.01	795
SS5-LYS-00	0	11/13/13	5.77	3.2	3.4	3.1	<0.5	0.12	825
SS5-LYS-00	0	12/04/13	7.65	1.7	<0.2	<0.1	1.7	<0.01	715
SS5-LYS-15	15	10/02/13	2.33	<0.6	<0.2	0.1	<0.5	<0.01	895
SS5-LYS-15	15	11/13/13	2.21	<0.6	0.3	0.3	<0.5	<0.01	970
SS5-LYS-15	15	12/04/13	2.53	<0.6	<0.2	<0.1	0.6	<0.01	980
SS5-LYS-20	20	10/02/13	1.60	<0.6	0.5	0.5	<0.5	<0.01	790
SS5-LYS-20	20	11/13/13	1.70	0.6	0.6	0.6	<0.5	<0.01	820
SS5-LYS-20	20	12/04/13	1.93	0.8	0.6	0.2	0.6	<0.01	820

Victoria Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
VCT-LYS-00	0	10/02/13	23.0	4.4	0.7	<0.1	4.4	<0.01	1140
VCT-LYS-00	0	12/11/13	4.80	6.2	5.3	5.3	0.9	<0.01	820
VCT-LYS-35	35	10/02/13	0.61	3.2	3.2	3.2	<0.5	<0.01	860
VCT-LYS-35	35	11/13/13	1.61	1.3	1.4	1.3	<0.5	<0.01	925
VCT-LYS-35	35	12/11/13	1.65	1.4	1.4	1.4	<0.5	<0.01	940

Blank cells indicate that analysis was not run for a constituent on that particular date and/or depth due to insufficient volume or data was invalidated after analysis.

* If TN limit of 5 mg/L is not met prior to the RW distribution system, TN compliance can be met at a point prior to reaching the regional groundwater, including lysimeters.

Table 2-5b
Alternative Monitoring Plans

Turner Basin					
Date	RW Blend*	RW Blend*	Turner 1 & 2	Turner 3 & 4	Turner 1 & 2 Turner 3 & 4
mg/L==>	TOC	TN	TOC (70% reduction)	TOC (85% reduction)	TN (87% reduction)
10/02/13	4.56	8.6	1.37	0.68	1.1
10/09/13	4.49	7.7	1.35	0.67	1.0
10/16/13	4.10	6.3	1.23	0.62	0.8
10/23/13	4.13	7.8	1.24	0.62	1.0
10/31/13	4.00	6.5	1.20	0.60	0.8
11/06/13	5.11	8.9	1.53	0.77	1.2
11/13/13	3.89	6.6	1.17	0.58	0.9
11/20/13	4.23	6.0	1.27	0.63	0.8
11/26/13	4.34	5.9	1.30	0.65	0.8
12/04/13	4.37	6.6	1.31	0.66	0.9
12/11/13	4.32	7.6	1.30	0.65	1.0
12/18/13	4.58	7.3	1.37	0.69	1.0
12/24/13	4.46	6.3	1.34	0.67	0.8

*Recycled water blend from RP-1 & RP-4 sampled at GenOn Energy (formerly Reliant Energy)

Ely Basin				
Date	RP-1 RW	RP-1 RW	Ely 3 East	Ely 3 East
mg/L==>	TOC	TN	TOC (76% reduction)	TN (52% reduction)
10/07/13	5.24	8.7	1.26	4.2
10/14/13	6.02	8.0	1.44	3.8
10/21/13	5.34	9.7	1.28	4.7
10/28/13	5.76	8.4	1.38	4.0
11/04/13	5.08	8.5	1.22	4.1
11/11/13	5.50	10.7	1.32	5.1
11/18/13	5.32	9.4	1.28	4.5
11/25/13	5.68	8.1	1.36	3.9
12/02/13	5.56	7.3	1.33	3.5
12/09/13	6.23	13.4	1.50	6.4
12/16/13	6.77	13.3	1.62	6.4
12/23/13	5.78	8.4	1.39	4.1
12/30/13	5.94	7.9	1.43	3.8

Brooks Basin				
Date	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00
mg/L==>	TOC	TN	EC	
10/02/13	4.32	3.5	760	
11/06/13	5.07	5.4	755	
12/04/13	5.02	4.6	760	
Date	BRK-LYS-25	BRK-LYS-25	BRK-LYS-25	BRK-LYS-25
mg/L==>	TOC	TN**	EC	
10/02/13	3.05	<0.1	815	
11/06/13	3.46	<0.1	825	
12/04/13	3.26	0.9	830	
Date	BRK-1/1	BRK-1/1	BRK-1/1	BRK-1/1
mg/L==>	TOC**	TN	EC	Cl
10/02/13	0.29	3.0	460	56
11/06/13	0.46	1.9	460	60
12/11/13	0.44	1.2	470	62

**BRK-LYS-25 is the compliance point for TN and BRK-1/1 is the compliance point for TOC.

RP3 Basin			
Date	RP3-LYS-35	RP3-LYS-35	RP3-LYS-35
mg/L==>	TOC	TN	EC
10/02/13	1.23	2.2	715
11/13/13	1.63	1.8	720
12/04/13	1.28	2.2	740

Table 2-5b
Alternative Monitoring Plans

8th Street Basin				
Date	RW Blend*	RW Blend*	8th Street	8th Street
mg/L==>	TOC	TN	TOC (59% reduction)	TN (75% reduction)
10/02/13	4.56	8.6	1.87	2.2
10/09/13	4.49	7.7	1.84	1.9
10/16/13	4.10	6.3	1.68	1.6
10/23/13	4.13	7.8	1.69	2.0
10/31/13	4.00	6.5	1.64	1.6
11/06/13	5.11	8.9	2.10	2.2
11/13/13	3.89	6.6	1.59	1.6
11/20/13	4.23	6.0	1.73	1.5
11/26/13	4.34	5.9	1.78	1.5
12/04/13	4.37	6.6	1.79	1.7
12/11/13	4.32	7.6	1.77	1.9
12/18/13	4.58	7.3	1.88	1.8
12/24/13	4.46	6.3	1.83	1.6

San Sevaine 5 Basin				
Date	RW Blend*	RW Blend*	San Sevaine 5	San Sevaine 5
mg/L==>	TOC	TN	TOC (78% reduction)	TN (69% reduction)
10/02/13	4.56	8.6	1.00	2.7
10/09/13	4.49	7.7	0.99	2.4
10/16/13	4.10	6.3	0.90	2.0
10/23/13	4.13	7.8	0.91	2.4
10/31/13	4.00	6.5	0.88	2.0
11/06/13	5.11	8.9	1.12	2.8
11/13/13	3.89	6.6	0.86	2.0
11/20/13	4.23	6.0	0.93	1.9
11/26/13	4.34	5.9	0.95	1.8
12/04/13	4.37	6.6	0.96	2.0
12/11/13	4.32	7.6	0.95	2.3
12/18/13	4.58	7.3	1.01	2.3
12/24/13	4.46	6.3	0.98	2.0

Victoria Basin				
Date	RW Blend*	RW Blend*	Victoria	Victoria
mg/L==>	TOC	TN	TOC (78% reduction)	TN (82% reduction)
10/02/13	4.56	8.6	1.00	1.5
10/09/13	4.49	7.7	0.99	1.4
10/16/13	4.10	6.3	0.90	1.1
10/23/13	4.13	7.8	0.91	1.4
10/31/13	4.00	6.5	0.88	1.2
11/06/13	5.11	8.9	1.12	1.6
11/13/13	3.89	6.6	0.86	1.2
11/20/13	4.23	6.0	0.93	1.1
11/26/13	4.34	5.9	0.95	1.1
12/04/13	4.37	6.6	0.96	1.2
12/11/13	4.32	7.6	0.95	1.4
12/18/13	4.58	7.3	1.01	1.3
12/24/13	4.46	6.3	0.98	1.1

*Recycled water blend from RP-1 & RP-4 sampled at NRG California South, LP (formerly Reliant Energy)

Hickory Basin		
Date	BH-1/2**	BH-1/2
mg/L==>	TN	EC
10/02/13	2.2	490
11/13/13	2.3	480
12/19/13	2.1	485

**TN compliance point for Hickory Basin (approved by RWQCB 07/29/13)

Table 2-6
Diluent Water Monitoring*: Stormwater

Constituent	Declez Channel @ Declez Basins 3 & 4 12/02/13 & 12/09/13	W. Fontana Channel @ Banana Basin 12/09/13	Etiwanda Creek @ Etiwanda Debris Basin 12/19/13	San Sevaine Creek @ San Sevaine 1-5 Basins 12/19/13	Unit	Method
NO ₂ -N	0.25	0.09	<0.02	<0.02	mg/L	EPA 300.0
NO ₃ -N	0.7	1.1	1.2	1.5	mg/L	EPA 300.0
TDS	316	98	52	92	mg/L	SM 2540C
Total Coliform	8000	17000	7000	50000	mpn/100ml	SM 9221B
Oil & Grease	<1	<1	<1	<1	mg/L	EPA 1664A
Inorganic Chemicals						
Aluminum	121	2478	1903	7122	µg/L	EPA 200.7
Antimony	<1	2	2	1	µg/L	EPA 200.8
Arsenic	<2	2	<2	<2	µg/L	EPA 200.8
Asbestos	<1.91	<6.37	<6.43	<6.43	MFL	EPA 100.2
Barium	44	28	40	119	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	<0.25	µg/L	EPA 200.7
Chromium	1.8	5.7	3.9	11.0	µg/L	EPA 200.7
Cyanide	6	<5	<5	<5	µg/L	ASTM D7284
Fluoride	0.4	0.5	0.2	0.1	mg/L	SM 4500-F C
Mercury	<0.05	<0.05	<0.05	<0.05	µg/L	EPA 245.2
Nickel	3	6	3	4	µg/L	EPA 200.7
Perchlorate	<4	<4	<4	<4	µg/L	EPA 314
Selenium	<2	<2	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)						
Benzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Toluene	0.6	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)						
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
Atrazine	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 515.4
Benzo(a)pyrene	<0.2	<0.2	<0.2	<0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
2,4-D	2.4	<0.1	<0.1	<0.1	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.5	2.6	1.1	0.5	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 504.1
Glyphosate	<6	27	<6	<6	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505

Table 2-6
Diluent Water Monitoring*: Stormwater

Constituent	Declez Channel @ Declez Basins 3 & 4 12/02/13 & 12/09/13	W. Fontana Channel @ Banana Basin 12/09/13	Etiwanda Creek @ Etiwanda Debris Basin 12/19/13	San Sevaine Creek @ San Sevaine 1-5 Basins 12/19/13	Unit	Method
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505
Hexachlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	µg/L	EPA 505
Molinate	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 531.2
Pentachlorophenol	0.05	0.29	<0.04	<0.04	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505
Simazine	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Thiobencarb	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	µg/L	EPA 515.4
Disinfection Byproducts						
Total Trihalomethanes (TTHMs)	<2	<2	<2	<2	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	2	<2	<2	<2	µg/L	SM 6251B
Bromate	<5	<5	<5	<5	µg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	<0.01	mg/L	EPA 300.0
Action Level Chemicals						
Copper	8.6	29.1	14.8	24.9	µg/L	EPA 200.7
Lead	0.6	4.7	3.3	4.7	µg/L	EPA 200.8
Radionuclides						
Combined Radium-226 & Radium 228	<0.257	<0.653	<0.340	<0.342	pCi/L	EPA 903.0
Gross Alpha Particle Activity	6	<3	5	7	pCi/L	EPA 900.0/SM7110C
Tritium	<231	<232	<196	<230	pCi/L	EPA 906.0
Strontium-90	<1.33	<0.327	<0.539	<0.544	pCi/L	EPA 905.0
Gross Beta Particle Activity	3.6	4	7.4	10	pCi/L	EPA 900.0
Uranium	3	<1	<1	2	pCi/L	EPA 200.8
Unregulated Chemicals						
Chromium VI	0.29	0.86	0.36	0.79	µg/L	EPA 218.6
Ethyl tertiary butyl ether	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Tertiary amyl methyl ether	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Chemicals w/ State Notification Levels						
Boron	<0.1	<0.1	<0.1	<0.1	mg/L	EPA 200.7
n-butylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
sec-butylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
tert-butylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Carbon disulfide	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
2-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Dichlorodifluoromethane (Freon 12)	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,4 - Dioxane	<1	<1	<1	<1	µg/L	EPA 522
Isopropylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Methyl isobutyl ketone (MIBK)	<2	<2	<2	<2	µg/L	EPA 524.2
N-nitrosodimethylamine (NDMA)	<2	<2	<2	<2	ng/l	EPA 521
N-propylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2,3-Trichloropropane (1,2,3-TCP)	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2,4 –trimethylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Vanadium	4	8	6	22	µg/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals						
Aluminum	121	2478	1903	7122	µg/L	EPA 200.7
Corrosivity	0.5	-1.4	-1.4	-1.7	SI	SM 2330B
Foaming Agents (MBAS)	0.20	0.44	0.16	0.27	mg/L	SM 5540C/EPA 425.1
Iron	348	2502	2250	7153	µg/L	EPA 200.7
Manganese	120	51	35	116	µg/L	EPA 200.7
Odor--Threshold	2	8	17	17	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	<0.25	µg/L	EPA 200.7
Thiobencarb	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 525.2
Zinc	19	67	103	62	µg/L	EPA 200.7

* Diluent monitoring is monitored per the schedule identified in the CDPH-approved Diluent Water Monitoring Plan

Table 2-7
Summary of Wells in Groundwater Monitoring Networks

BASIN	CBWM_ID	OWNER/LOCAL NAME	SEPARATION DISTANCE (feet)	SCREENED INTERVAL(S) (feet bgs)	CASING DIAMETER (inches)	STATUS	TYPE
Hickory and Banana Basins	3600573	Fontana Water Company - F37a	2240 upgradient	378-810	20	Active	Municipal
	600660	California Speedway - Infield Well	2070 downgradient	NA	NA	Active	Industrial
	3601365	California Speedway 2	2780 downgradient	451-455, 491-603, & 664-780	20	Active	Industrial
	3600371	Reliant Energy - East Well	4070 downgradient	434-467, 500-513, 553-580, 593-652, & 825-847	20	Active	Industrial
	3602267	City Of Ontario - 20	14500 downgradient	NA	20	Active	Municipal
	601001	Inland Empire Utilities Agency - BH-1/1	340 downgradient	365-405	4	Active	Monitoring
	601002	Inland Empire Utilities Agency - BH-1/2	340 downgradient	435-475	4	Active	Monitoring
Turner Basins	3600010	City Of Ontario - 25	2530 crossgradient	370-903	20	Inactive	Municipal
	600453	City Of Ontario - 29	2810 downgradient	400-1095	18	Active	Municipal
	600585	City of Ontario - 38*	4600 crossgradient	500-1010	16	Active	Municipal
	600997	Inland Empire Utilities Agency - TRN-1/1	50 downgradient	340-360	4	Active	Monitoring
	600998	Inland Empire Utilities Agency - TRN-1/2	50 downgradient	380-400	4	Active	Monitoring
	600999	Inland Empire Utilities Agency - TRN-2/1	50 downgradient	350-370	4	Active	Monitoring
	601000	Inland Empire Utilities Agency - TRN-2/2	50 downgradient	392-412	4	Active	Monitoring
Declez Basin	300208	Jurupa Community Services District - 19	8900 downgradient	230-390	18	Active	Municipal
	300207	Jurupa Community Services District - 17	5240 downgradient	259-290, & 300-400	NA	Active	Municipal
	300200	Jurupa Community Services District - 13	5730 downgradient	220-446	16-34	Active	Municipal
	300484	Inland Empire Utilities Agency - DCZ-1	50 downgradient	155-175	4	Active	Monitoring
	--	Inland Empire Utilities Agency - D-1/2	50 downgradient	185-205	4	NA	Monitoring
RP-3 Basins	600492	Fontana Water Company - F23a	7900 upgradient	450-740	18	Active	Municipal
	600477	Inland Empire Utilities Agency - Southridge JHS	5500 downgradient	NA	NA	Active	Monitoring
	600848	Alcoa - Offsite MW1	9480 downgradient	NA	NA	Active	Monitoring
	600850	Alcoa - Offsite MW3	4725 downgradient	NA	NA	Active	Monitoring
	601040	Inland Empire Utilities Agency - RP3-1/1	100 downgradient	215-235	4	Active	Monitoring
	601041	Inland Empire Utilities Agency - RP3-1/2	100 downgradient	265-285	4	Active	Monitoring
Jurupa Basin	Not currently planned for recharge						
7th & 8th Street Basins	3601561	San Antonio Water Company No. 12	740 downgradient	379-480, 525-563, 578-609, & 634-679	16	Inactive	Municipal
	3601772	City of Ontario No. 4	3429 downgradient	526-910	16-20	Inactive	Municipal
	--	City of Ontario No. 51	3402 downgradient	Not Yet Constructed	NA	NA	Municipal
	600493	City of Ontario No. 35	9695 downgradient	580-1020	18-36	Active	Municipal
	601036	Inland Empire Utilities Agency - 8TH-1/1	150 downgradient	495-535	4	Active	Monitoring
	601037	Inland Empire Utilities Agency - 8TH-1/2	150 downgradient	595-645	4	Active	Monitoring
	601038	Inland Empire Utilities Agency - 8TH-2/1	2460 downgradient	465-505	4	Active	Monitoring
Brooks Basins	601039	Inland Empire Utilities Agency - 8TH-2/2	2460 downgradient	576-616	4	Active	Monitoring
	1901719	City of Pomona P-10	1983 downgradient	295-784	20	Active	Municipal
	1901713	City of Pomona P-04	2620 downgradient	254-338, & 403-452	NA	Inactive	Municipal
	1903156	City of Pomona P-30	2160 crossgradient	565-875	20	Inactive	Municipal
	1903016	City of Pomona P-2	3455 downgradient	NA	NA	Active	Municipal
	1901725	City of Pomona P-17	4500 downgradient	454-536	20	Inactive	Municipal
	601050	Inland Empire Utilities Agency - BRK-1/1	144 downgradient	310-350	4	Active	Monitoring
	601051	Inland Empire Utilities Agency - BRK-1/2	144 downgradient	520-560	4	Active	Monitoring
	601048	Inland Empire Utilities Agency - BRK-2/1	1305 downgradient	320-360	4	Active	Monitoring
	601049	Inland Empire Utilities Agency - BRK-2/2	1305 downgradient	560-600	4	Active	Monitoring
San Seavine Basins	600905	Cucamonga Valley Water District No. 39	8300-13170 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
	601115	Inland Empire Utilities Agency - SS-1/1 and 1/2	~39-116 downgradient	640-680	4	Active	Monitoring
	600462	Unitex 91090	~1601 downgradient	NA	NA	Active	Private Domestic
Victoria Basin	600905	Cucamonga Valley Water District No. 39	4329 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
	601033	Cucamonga Valley Water District No. 43**	8300 downgradient	650-800	32-42	Active	Municipal
	601117	Inland Empire Utilities Agency - VCT-1/1 and 1/2	~39-116 downgradient	570-610	4	Active	Monitoring
	--	Inland Empire Utilities Agency - VCT-1/1 and 1/2	~ 2000 downgradient	570-610	4	Active	Monitoring
Ely Basin	601003	Ely Basin MW-1, Philadelphia Well (Casing 3)	100 downgradient	280 - 300	2	Active	Monitoring
	601004	Ely Basin MW-2, Walnut Well (Casing 2)	3050 downgradient	290 - 310	4	Active	Monitoring
	3600975	Riverside Drive Well (43840-CWW)	6046 downgradient	NA	NA	Active	Private Irrigation
	600134	Bishop Of San Bernardino Corp. - DOM	6500 downgradient	NA	NA	Active	Private Domestic

Notes:

NA = Data not available

CBWM ID = Chino Basin Water Master well identification number

bgs = below ground surface

* = Ontario Well No. 38 replaced Ontario Well No. 19, which is inactive

** = Cucamonga Valley Water District No. 43 replaced CVWD Well Nos. 35 & 36, which are inactive.

Table 2-8
Groundwater Monitoring Well Results (Quarterly)

		Sample Location	Date	TOC (mg/L)	Total Coliform (MPN/100mL)	pH	EC (µmhol/cm)	TDS (mg/L)	Al (µg/L)	Color (units)	Cu (µg/L)	Corrosivity Index (SI)	Foaming Agents (mg/L)	Fe (µg/L)	Mn (µg/L)	MTBE (µg/L)	Odor Threshold (TON)	Ag (µg/L)	Thiocarb (µg/L)	Turbidity (NTU)	Zn (µg/L)	Cl (mg/L)	Hardness (mg CaCO ₃ /L)	Na (mg/L)	SO ₄ (mg/L)	NH ₄ -N (mg/L)	NO ₃ -N (mg/L)	NO ₂ -N (mg/L)	Nitrogen, Total (mg/L)	TKN (mg/L)	Alkalinity (mg CaCO ₃ /L)	Dissolved Oxygen (mg/L)
Banana & Hickory	Fontana Water Co. - F37a	10/24/13	0.10	<1.1	8.0	500	320	<25	<3	2.4	0.6	<0.05	<0.05	23	1	<0.5	1	<0.25	<0.2	0.34	17	24	216	18	25	<0.1	<0.02	11.5	11.5	<0.5	160	1.25
	California Speedway - Infield Well	10/31/13	0.14	<1.1	8.2	600	404	<25	<3	<0.5	0.4	<0.05	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.17	<1	29	276	22	91	<0.1	<0.02	8.9	8.9	<0.5	161	1.96
	California Speedway 2	10/24/13	0.10	<1.1	8.0	395	278	<25	<3	0.8	0.2	<0.05	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.11	<1	17	169	18	19	<0.1	0.05	5.6	5.7	<0.5	155	1.16
	Reliant Energy - East Well	10/24/13	<0.10	<1.1	8.4	345	224	<25	<3	0.7	0.0	<0.05	<0.05	16	<1	<0.5	2	<0.25	<0.2	0.25	<1	12	140	18	14	<0.1	0.06	6.1	6.2	<0.5	130	1.41
	Ontario Well No. 20	10/23/13	0.15	23	8.6	360	244	<25	<3	0.6	0.5	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.17	<1	12	173	14	7	0.1	0.11	3.2	3.3	<0.5	173	1.44
	BH-1/2*	10/02/13	0.41	<1.1	8.4	490	312	<25	5	<0.5	0.4	<0.05	<0.05	<15	8	<0.5	1	<0.25	<0.2	3.18	<1	62	203	24	33	<0.1	<0.02	2.2	2.2	<0.5	125	1.69
	BH-1/2	11/13/13	0.18			480																62			33	<0.1	<0.02	2.3	2.3	<0.5		
	BH-1/2	12/19/13				485																				<0.02	2.1	2.1	<0.5			
Turner	Ontario Well No. 25	10/23/13	0.19	12	8.4	435	292	<25	<3	<0.5	0.4	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.11	<1	20	182	22	17	<0.1	0.08	4.3	4.4	<0.5	178	1.46
	Ontario Well No. 29	10/23/13	0.20	16	8.4	345	230	26	<3	1.0	0.2	<0.05	<0.05	320	7	<0.5	2	<0.25	<0.2	1.32	<1	11	147	23	15	<0.1	0.08	1.9	2.0	<0.5	145	1.49
	Ontario Well No. 38	10/23/13	0.12	16	8.6	300	202	<25	<3	<0.5	0.4	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.06	<1	5	122	19	8	<0.1	0.09	1.4	1.5	<0.5	143	1.31
	T-1/2*	10/08/13	0.43	<1.1	8.4	385	286	<25	<3	<0.5	0.1	<0.05	<0.05	<15	2	<0.5	1	<0.25	<0.2	0.80	<1	23	158	19	19	<0.1	<0.02	0.5	<0.6	<0.5	156	1.21
	T-2/1*	10/10/13	0.56	<1.1	8.3	560	350	<25	10	1.0	0.1	<0.05	19	53	<0.5	<1	<0.25	<0.2	14.7	4	82	222	34	21	<0.1	<0.02	0.7	0.7	<0.5	154	1.07	
	T-2/2*	10/10/13	0.51	<1.1	8.3	495	316	<25	15	1.1	0.0	<0.05	<0.05	<15	3	<0.5	<1	<0.25	<0.2	8.27	2	72	196	30	24	<0.1	<0.02	0.8	0.8	<0.5	131	1.19
	Fontana Water Co. - F23a	10/24/13	<0.10	<1.1	8.2	370	240	<25	<3	<0.5	0.4	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.09	<1	19	148	17	20	<0.1	0.05	6.0	6.1	<0.5	134	1.29
RP3	Alcoa MW1*	10/14/13	0.18	<1.1	8.2	645	420	<25	5	<0.5	0.3	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	2.50	<1	77	269	29	25	<0.1	0.07	15.8	15.9	<0.5	146	1.69
	Alcoa MW3*	10/14/13	0.36	<1.1	8.1	785	508	<25	5	0.6	0.3	<0.05	<0.05	<15	2	<0.5	1	<0.25	<0.2	3.70	2	60	333	40	52	<0.1	0.08	19.8	19.9	<0.5	231	1.61
	RP3-1/1*	10/15/13	0.64	<1.1	8.3	610	386	<25	5	1.2	0.1	<0.05	<0.05	<15	12	<0.5	1	<0.25	<0.2	3.30	<1	74	214	50	33	<0.1	<0.02	3.9	3.9	<0.5	161	0.61
	RP3-1/2*	10/15/13	0.99	<1.1	8.2	615	384	<25	<3	0.7	0.1	<0.05	<0.05	<15	173	<0.5	2	<0.25	<0.2	0.34	1	83	216	48	35	<0.1	0.26	2.5	2.8	<0.5	157	0.86
	Ontario Well No. 35	10/23/13	0.14	<1.1	8.5	825	228	<25	<3	<0.5	0.1	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.14	<1	7	135	22	21	<0.1	0.08	2.7	2.8	<0.5	140	1.66
8th Street	8TH-1/1*	10/09/13	0.62	<1.1	8.2	550	354	<25	<3	0.6	0.0	<0.05	<0.05	<15	1	<0.5	1	<0.25	<0.2	0.56	13	76	243	12	39	<0.1	<0.02	2.1	2.1	<0.5	118	1.33
	8TH-1/2*	10/09/13	0.26	<1.1	8.3	325	236	<25	5	<0.5	-0.1	<0.05	<0.05	<15	2	<0.5	1	<0.25	<0.2	1.14	1	32	138	15	15	<0.1	<0.02	1.3	1.3	<0.5	104	1.26
	8TH-2/1*	10/09/13	0.28	<1.1	8.3	400	266	<25	<3	<0.5	0.1	<0.05	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.36	<1	13	184	12	12	<0.1	<0.02	4.5	4.5	<0.5	173	1.30
	8TH-2/2*	10/09/13	0.27	<1.1	8.3	385	254	<25	<3	<0.5	0.0	<0.05	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.52	2	20	172	16	22	<0.1	<0.02	5.2	5.2	<0.5	135	1.37
	Brooks	Pomona Well No. 10	10/17/13	0.12	<1.1	8.1	510	330	<25	<3	1.3	0.2	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.06	3	39	249	12	41	<0.1	0.07	7.3	7.4	<0.5	142
Pomona Well No. 2		10/17/13	0.12	<1.1	8.3	565	386	<25	<3	9.1	0.5	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.09	4	43	279	12	54	<0.1	0.07	8.8	8.9	<0.5	148	1.56
Pomona Well No. 34		10/17/13	0.14	<1.1	8.2	550	366	<25	<3	0.9	0.5	<0.05	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.07	<1	32	264	12	44	<0.1	0.08	14.0	14.1	<0.5	146	1.59
BRK-1/1*		10/02/13	0.29	<1.1	8.3	460	300	<25	<3	1	0.1	<0.05	<0.05	<15	<1	<0.5	1	<0.25	<0.2	3.08	2	56	205	16	29	<0.1	<0.02	2.5	3.0	<0.5	120	1.62
BRK-1/1		11/06/13	0.46			460																60			29		<0.02	1.9	1.9	<0.5		
BRK-1/1		12/11/13	0.44			470																62					<0.02	1.2	1.2	<0.5		
BRK-1/2*		10/07/13	0.21	<1.1	8.3	605	413	<25	<3	<0.5	0.4	<0.05	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.08	<1	26	281	16	51	0.2	<0.02	21.4	21.4	<0.5	152	1.56
BRK-1/2		11/06/13																				27			52		<0.02	21.3	21.3	<0.5		
BRK-1/2		12/11/13				595																					0.12	20.7	20.8	<0.5		
BRK-2/1*		10/07/13	0.27	<1.1	8.3	568	378	<25	20	<0.5	0.2	<0.05	<0.05	<15	4	<0.5	2	<0.25	<0.2	21.0	1	41	280	11	43	<0.1	<0.02	9.3	9.3	<0.5	161	1.43
BRK-2/2*		10/07/13	0.12	<1.1	8.5	330	225	<25	<3	<0.5	0.4	<0.05	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.50	1	6	104	33	19	<0.1	<0.02	5.9	5.9	<0.5	125	1.26
Ely	Ely Basin MW1 Philadelphia St.*	10/03/13	0.55	<1.1	8.5	325	224	<25	5	<0.5	0.1	<0.05	<0.05	49	41	<0.5	2	<0.25	<0.2	2.08	<1	35	121	24	15	<0.1	<0.02	0.2	0.7	<0.5	99	0.78
	Ely Basin MW2 Walnut St.*	10/21/13	1.31	23																												

Table 3-1
Diluent & Recycled Water Recharge Volume (Acre-Feet)

Date	Diluent Water																		Recycled Water									
	Imported Water									Local Runoff / Storm Flow																		
	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria	
Jan-13	0	0	0	0	0	0	0	0	0	69	18	35	72	0	147	21	164	35	230	28	342	145	115	353	59	0	12	
Feb-13	0	0	0	0	0	0	0	0	0	89	20	26	37	8	113	9	141	10	227	2	299	225	3	297	19	26	10	
Mar-13	0	0	0	0	0	0	0	0	0	65	8	32	63	13	78	13	62	7	240	42	238	314	147	275	53	21	57	
1Q13 Total	0	0	0	0	0	0	0	0	0	224	45	93	171	21	338	43	366	51	697	73	879	683	265	924	132	47	79	
Apr-13	0	0	0	0	0	0	0	0	0	24	0	0	1	0	40	5	0	1	152	55	231	79	71	386	41	0	98	
May-13	0	0	0	0	0	0	0	0	0	43	3	17	23	6	50	4	0	5	221	39	152	259	0	262	26	0	93	
Jun-13	0	0	0	0	0	0	0	0	0	12	0	0	4	1	20	0	0	1	271	35	120	209	116	239	2	0	82	
2Q13 Total	0	0	0	0	0	0	0	0	0	79	3	17	28	7	110	9	0	7	644	128	503	547	186	887	69	0	272	
Jul-13	0	0	0	0	0	0	0	0	0	13	0	1	6	4	72	0	0	2	186	15	169	157	201	74	0	0	74	
Aug-13	0	0	0	0	0	0	0	0	0	13	0	1	4	0	68	0	0	2	118	12	197	334	11	216	0	0	42	
Sep-13	0	0	0	0	0	0	0	0	0	11	0	28	6	0	58	0	24	2	150	0	182	457	0	353	154	107	46	
3Q13 Total	0	0	0	0	0	0	0	0	0	37	0	30	17	4	198	0	24	6	455	27	547	948	212	643	154	107	162	
Oct-13	0	0	0	0	0	0	0	0	0	48	0	23	15	1	54	11	20	7	239	385	108	358	1	164	69	117	0	
Nov-13	0	0	0	0	0	0	0	0	0	49	22	4	21	59	60	39	17	12	249	102	94	421	339	4	9	89	0	
Dec-13	0	0	0	0	0	0	0	0	0	45	6	8	24	8	73	5	77	10	121	0	104	413	108	251	0	259	118	
4Q13 Total	0	0	0	0	0	0	0	0	0	142	28	35	60	68	186	56	113	29	609	487	306	1192	447	420	78	465	118	

Table 6-1
MVWD ASR Project - TIN/TDS Mass Balance

ASR Well No. 4										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
1Q13	Jan-13	0.0	0.40	140	0	14.0	370	(370)	(9,089)	(208,792)
	Feb-13	0.0	0.40	140	8	14.0	370	(378)	(9,219)	(212,230)
	Mar-13	0.0	0.40	140	57	14.0	370	(434)	(10,195)	(238,037)
2Q13	Apr-13	0.0	0.40	140	70	14.0	370	(504)	(11,398)	(269,820)
	May-13	0.0	0.40	140	38	14.0	370	(542)	(12,051)	(287,087)
	Jun-13	0.0	0.40	140	24	14.0	370	(565)	(12,461)	(297,919)
3Q13	Jul-13	0.0	0.40	140	0	14.0	370	(565)	(12,461)	(297,919)
	Aug-13	0.0	0.40	140	0	14.0	370	(565)	(12,461)	(297,919)
	Sep-13	0.0	0.40	140	0	14.0	370	(565)	(12,462)	(297,932)
4Q13	Oct-13	0.0	0.40	140	0	14.0	370	(565)	(12,462)	(297,932)
	Nov-13	0.0	0.40	140	0	14.0	370	(565)	(12,462)	(297,932)
	Dec-13	0.0	0.40	140	0	14.0	370	(566)	(12,463)	(297,960)

ASR Well No. 30										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
1Q13	Jan-13	0.0	0.40	140	0	3.5	310	557	(2,779)	92,226
	Feb-13	0.0	0.40	140	0	3.5	310	557	(2,779)	92,226
	Mar-13	0.0	0.40	140	0	3.5	310	557	(2,779)	92,226
2Q13	Apr-13	0.0	0.40	140	0	3.5	310	557	(2,779)	92,226
	May-13	0.0	0.40	140	0	3.5	310	557	(2,780)	92,134
	Jun-13	0.0	0.40	140	0	3.5	310	556	(2,781)	92,043
3Q13	Jul-13	0.0	0.40	140	3	3.5	310	554	(2,792)	91,041
	Aug-13	0.0	0.40	140	2	3.5	310	552	(2,801)	90,203
	Sep-13	0.0	0.40	140	1	3.5	310	551	(2,805)	89,897
4Q13	Oct-13	0.0	0.40	140	0	3.5	310	551	(2,805)	89,890
	Nov-13	0.0	0.40	140	0	3.5	310	551	(2,805)	89,890
	Dec-13	0.0	0.40	140	0	3.5	310	551	(2,805)	89,890

ASR Well No. 32										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
1Q13	Jan-13	0.0	0.40	140	0	3.5	340	(1,442)	(1,670)	(79,573)
	Feb-13	0.0	0.40	140	0	3.5	340	(1,442)	(1,670)	(79,573)
	Mar-13	0.0	0.40	140	0	3.5	340	(1,442)	(1,670)	(79,573)
2Q13	Apr-13	0.0	0.40	140	250	3.5	340	(1,691)	(2,749)	(184,399)
	May-13	0.0	0.40	140	201	3.5	340	(1,893)	(3,617)	(268,723)
	Jun-13	0.0	0.40	140	262	3.5	340	(2,154)	(4,747)	(378,465)
3Q13	Jul-13	0.0	0.40	140	272	3.5	340	(2,426)	(5,921)	(492,574)
	Aug-13	0.0	0.40	140	273	3.5	340	(2,699)	(7,099)	(606,963)
	Sep-13	0.0	0.40	140	241	3.5	340	(2,940)	(8,139)	(708,040)
4Q13	Oct-13	0.0	0.40	140	278	3.5	340	(3,218)	(9,339)	(824,556)
	Nov-13	0.0	0.40	140	202	3.5	340	(3,419)	(10,209)	(909,132)
	Dec-13	0.0	0.40	140	104	3.5	340	(3,524)	(10,659)	(952,833)

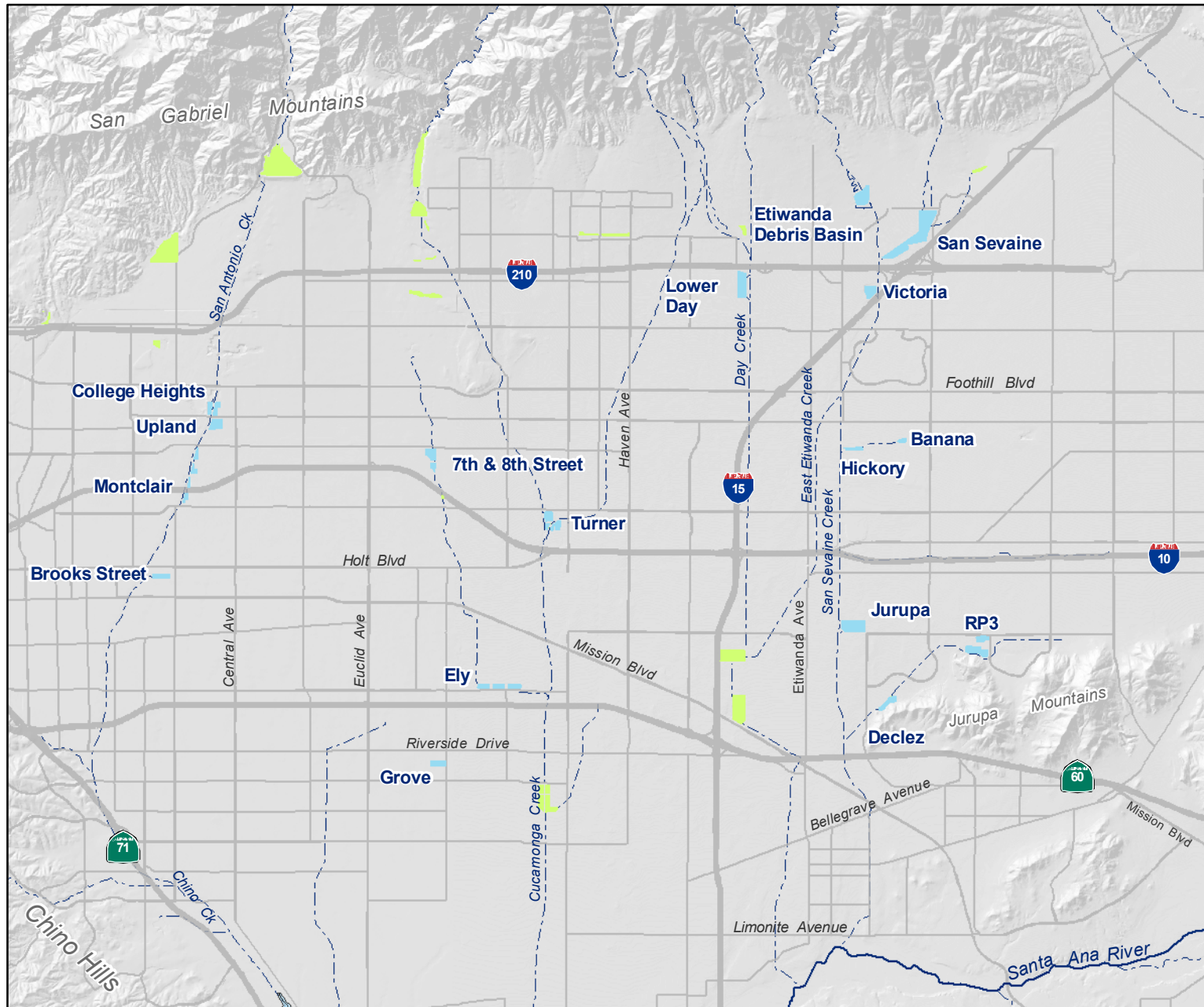
ASR Well No. 33										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
1Q13	Jan-13	0.0	0.40	140	0	3.5	370	(640)	(2,895)	(304,511)
	Feb-13	0.0	0.40	140	0	3.5	370	(640)	(2,895)	(304,511)
	Mar-13	0.0	0.40	140	0	3.5	370	(640)	(2,895)	(304,511)
2Q13	Apr-13	0.0	0.40	140	24	3.5	370	(664)	(2,998)	(315,415)
	May-13	0.0	0.40	140	81	3.5	370	(745)	(3,350)	(352,607)
	Jun-13	0.0	0.40	140	55	3.5	370	(800)	(3,588)	(377,711)
3Q13	Jul-13	0.0	0.40	140	137	3.5	370	(937)	(4,178)	(440,094)
	Aug-13	0.0	0.40	140	8	3.5	370	(945)	(4,210)	(443,527)
	Sep-13	0.0	0.40	140	11	3.5	370	(956)	(4,257)	(448,511)
4Q13	Oct-13	0.0	0.40	140	0	3.5	370	(956)	(4,257)	(448,511)
	Nov-13	0.0	0.40	140	38	3.5	370	(994)	(4,422)	(465,947)
	Dec-13	0.0	0.40	140	28	3.5	370	(1,022)	(4,544)	(478,792)

The injected water is WFA-treated water, which meets CCR Title 22 drinking water standards.

During 2Q11, WFA-treated water was sampled for TDS and TIN (NO₃-N + NO₂-N, assuming no NH₃-N in drinking water) on 04/19/11.

Table 6-1
MVWD ASR Project - TIN/TDS Mass Balance

Total Project (All Wells)					
	Date		Mass Balance		
			Storage (AF)	TIN (kg)	TDS (kg)
1Q13	Jan-13		(1,895)	(16,433)	(500,650)
	Feb-13		(1,902)	(16,563)	(504,087)
	Mar-13		(1,959)	(17,539)	(529,895)
2Q13	Apr-13		(2,302)	(19,924)	(677,408)
	May-13		(2,623)	(21,798)	(816,283)
	Jun-13		(2,964)	(23,576)	(962,053)
3Q13	Jul-13		(3,375)	(25,352)	(1,139,546)
	Aug-13		(3,657)	(26,572)	(1,258,206)
	Sep-13		(3,910)	(27,663)	(1,364,586)
4Q13	Oct-13		(4,188)	(28,863)	(1,481,110)
	Nov-13		(4,428)	(29,898)	(1,583,122)
	Dec-13		(4,560)	(30,471)	(1,639,695)



Main Map Features

- Recharge Basins in the Recycled Water Groundwater Recharge Program
- Non-Program Basins
- Rivers and Streams



Chino Basin Recycled Water Groundwater Recharge Program

Basin Locations

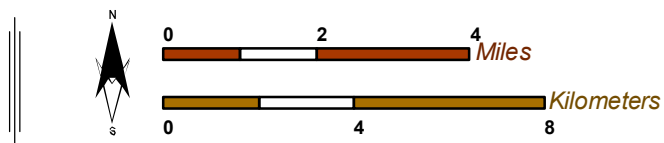
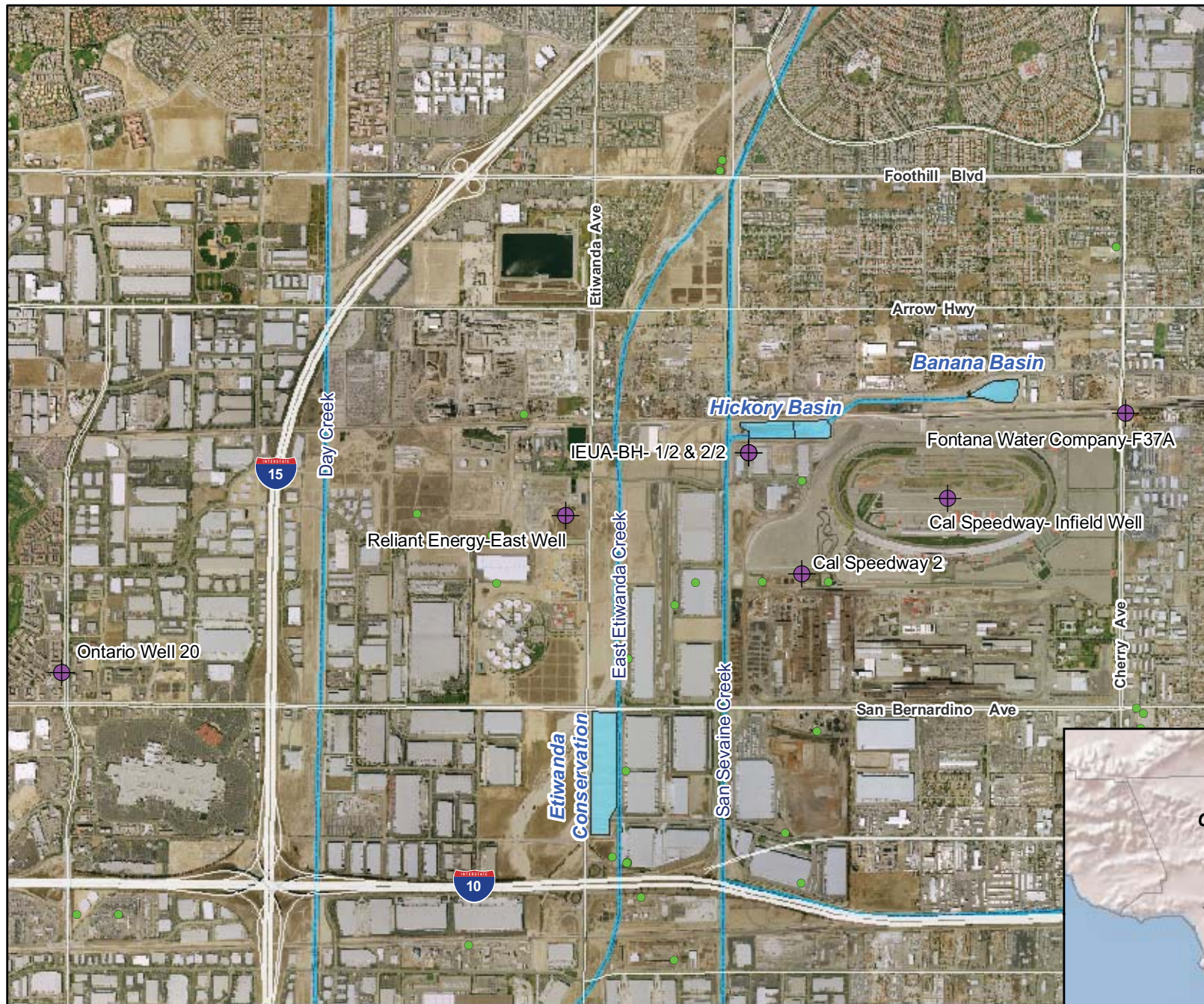


Figure 1-1



Main Map Features

-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

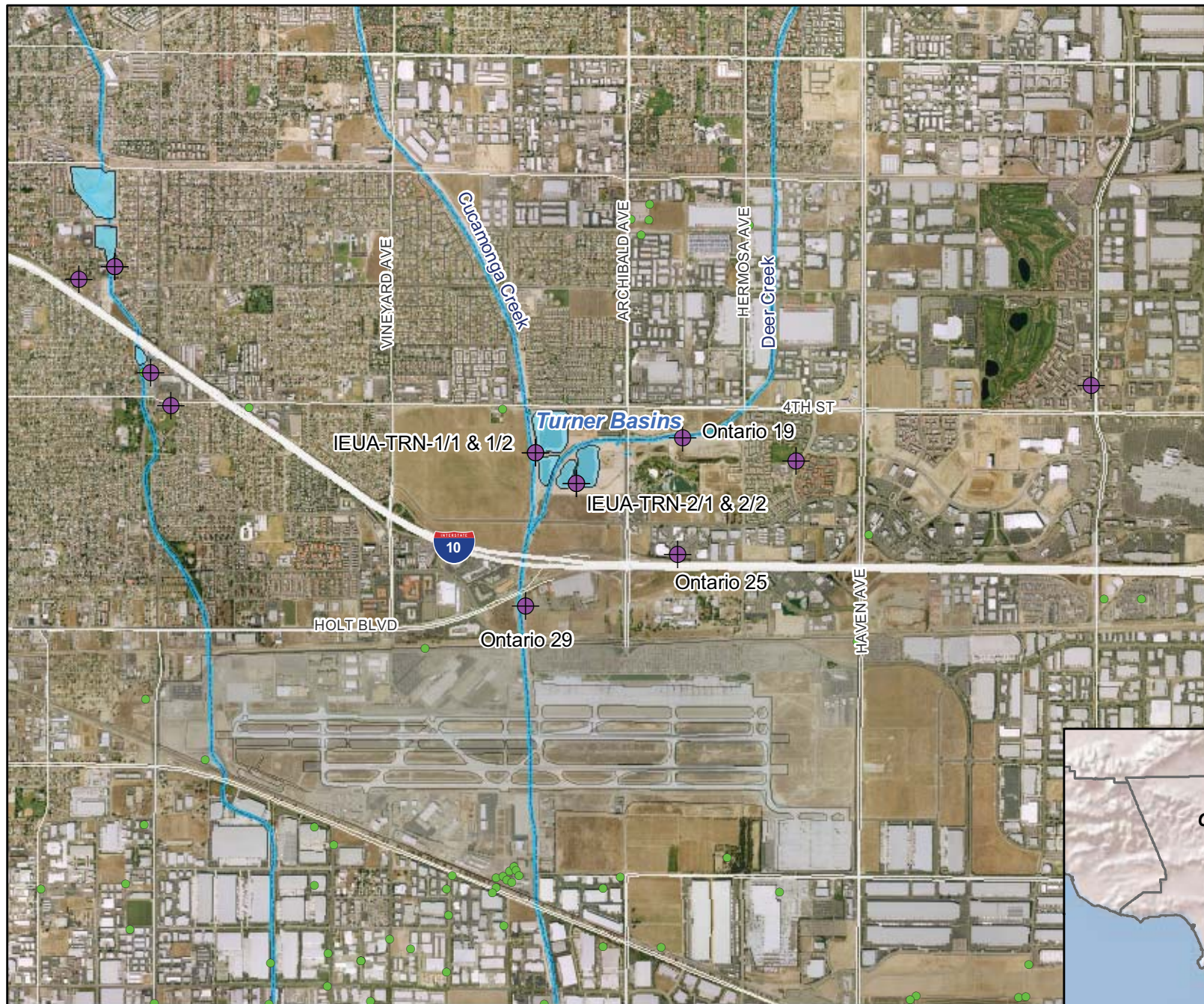


Monitoring Well Network Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program





Main Map Features

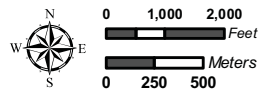
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

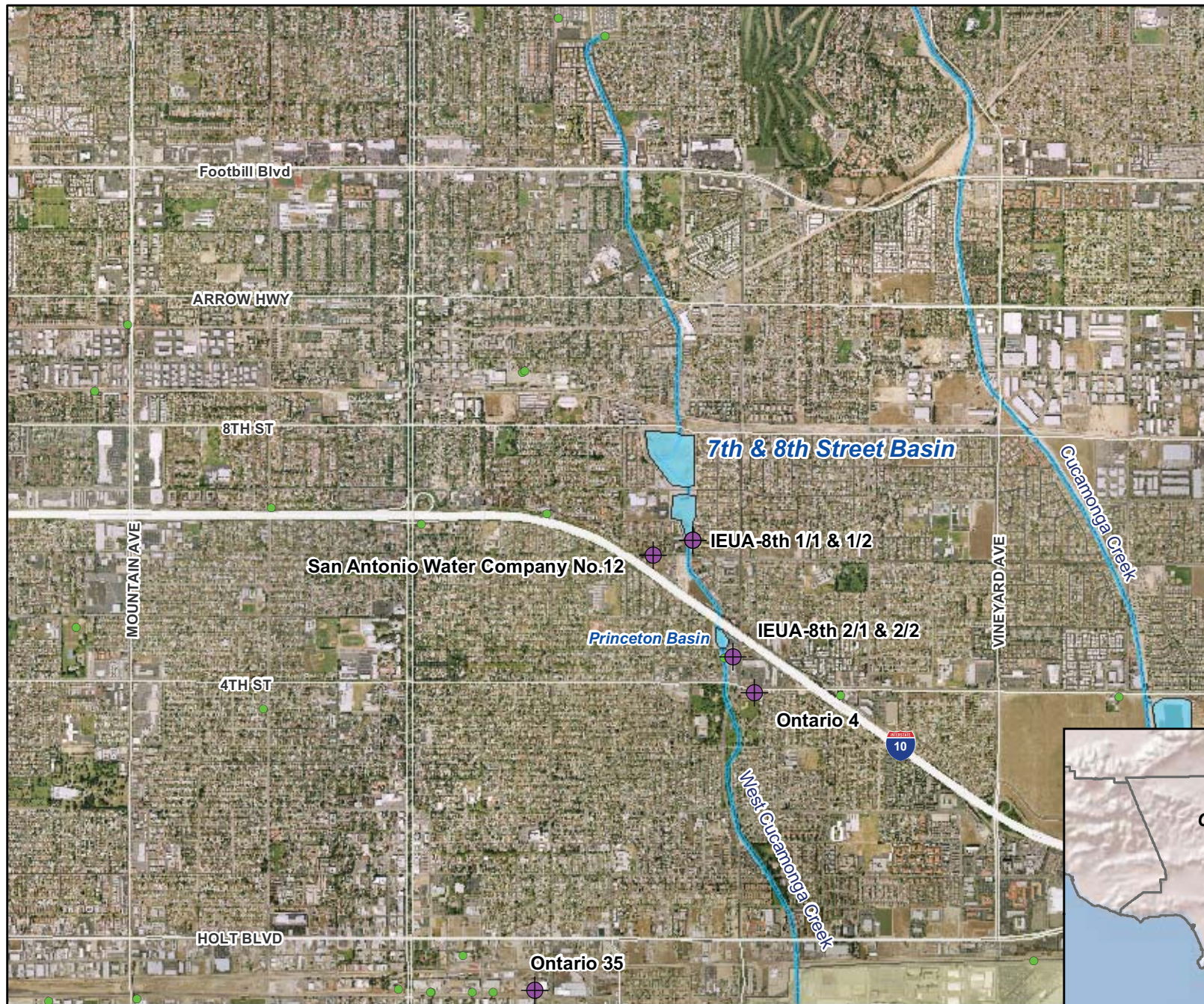


Monitoring Well Network
Turner Basins

Figure 2-2

Recycled Water Recharge Program





Main Map Features

-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

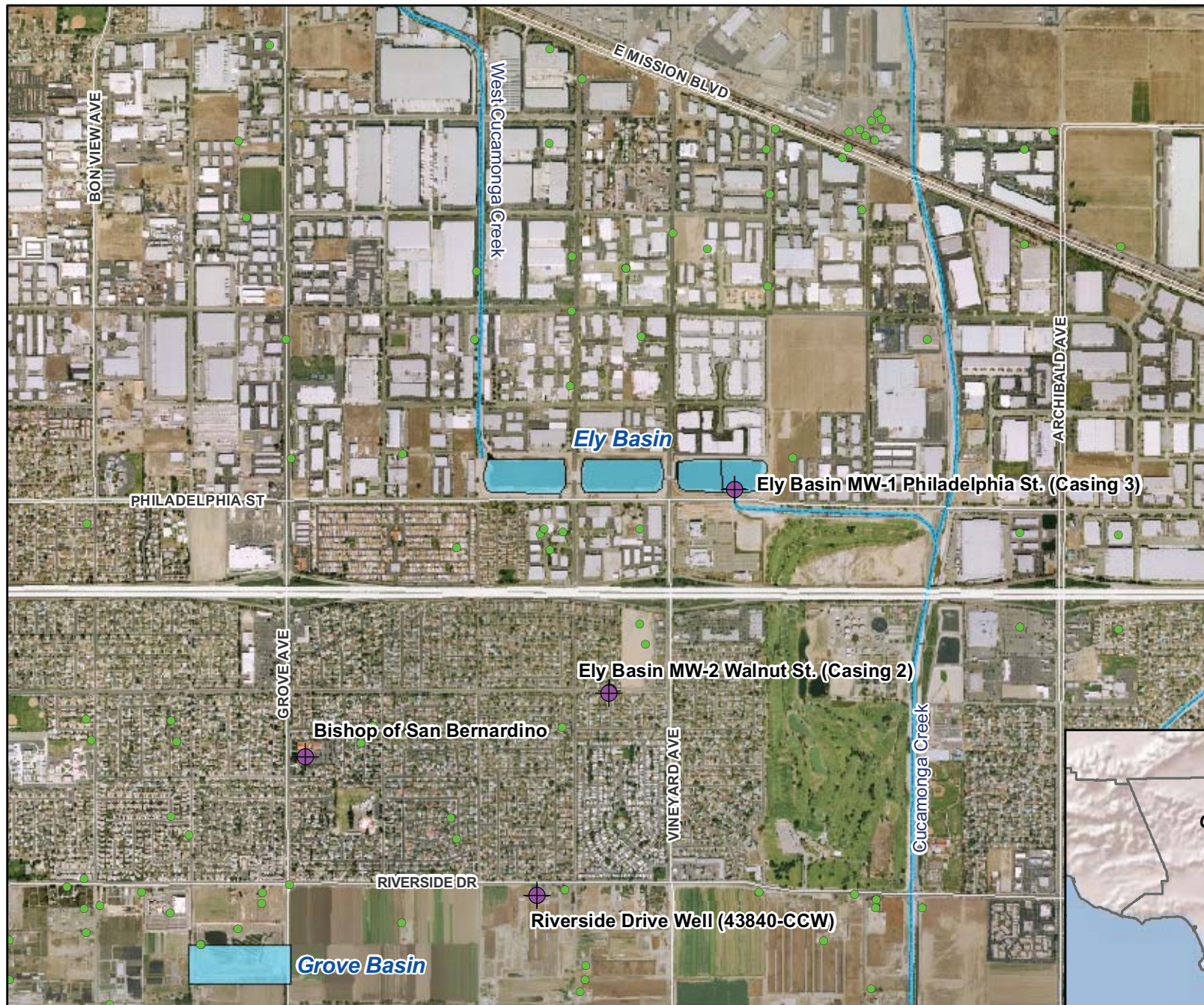


Monitoring Well Network
7th and 8th Street Basin

Figure 2-3

Recycled Water Recharge Program





Main Map Features

-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

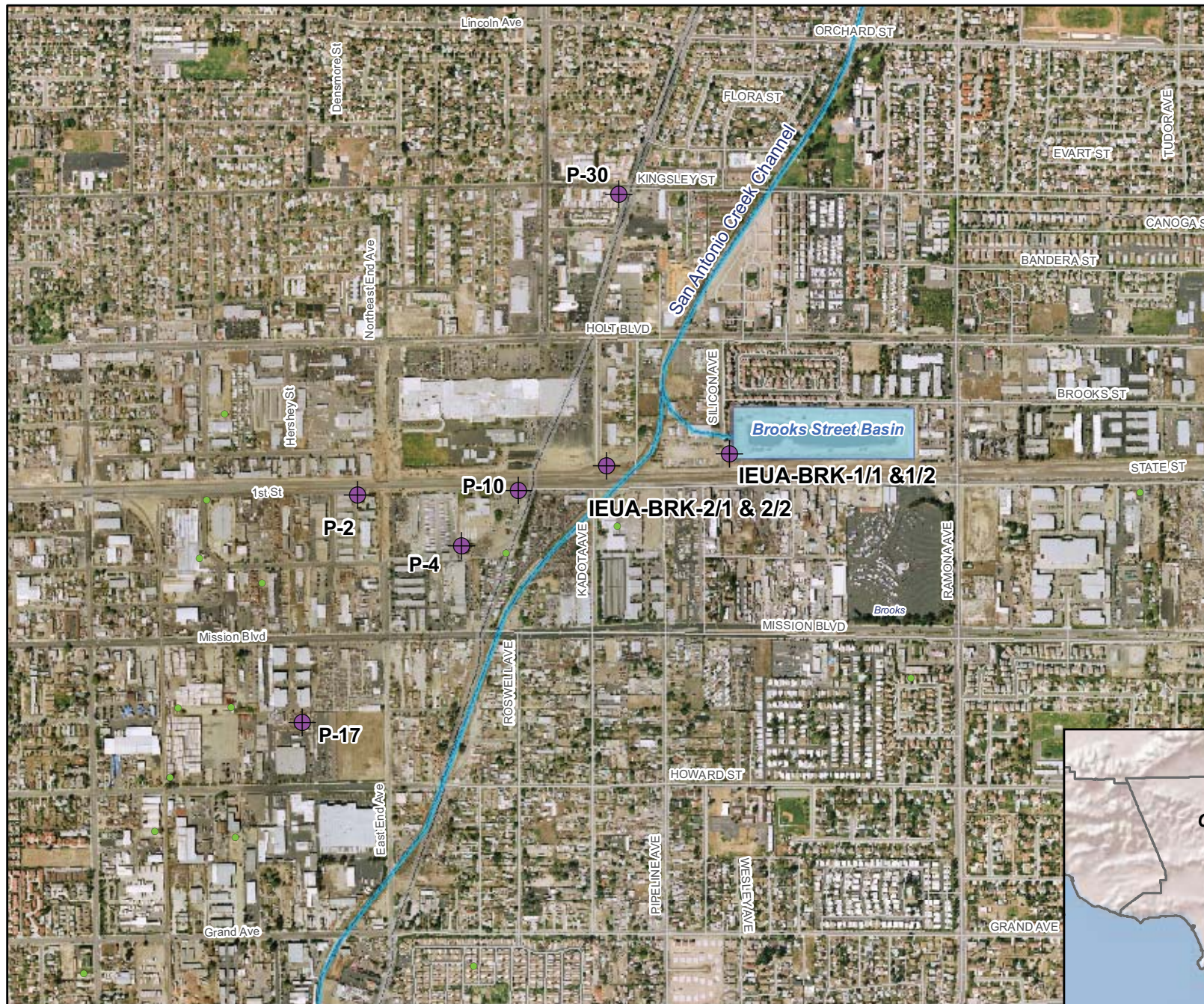


Monitoring Well Network
Ely Basins

Figure 2-4

Recycled Water Recharge Program





Main Map Features

-  Existing Monitoring Well
-  "Other" Wells
-  Rivers/Streams/Creeks
-  Recharge Basins
-  County Boundary

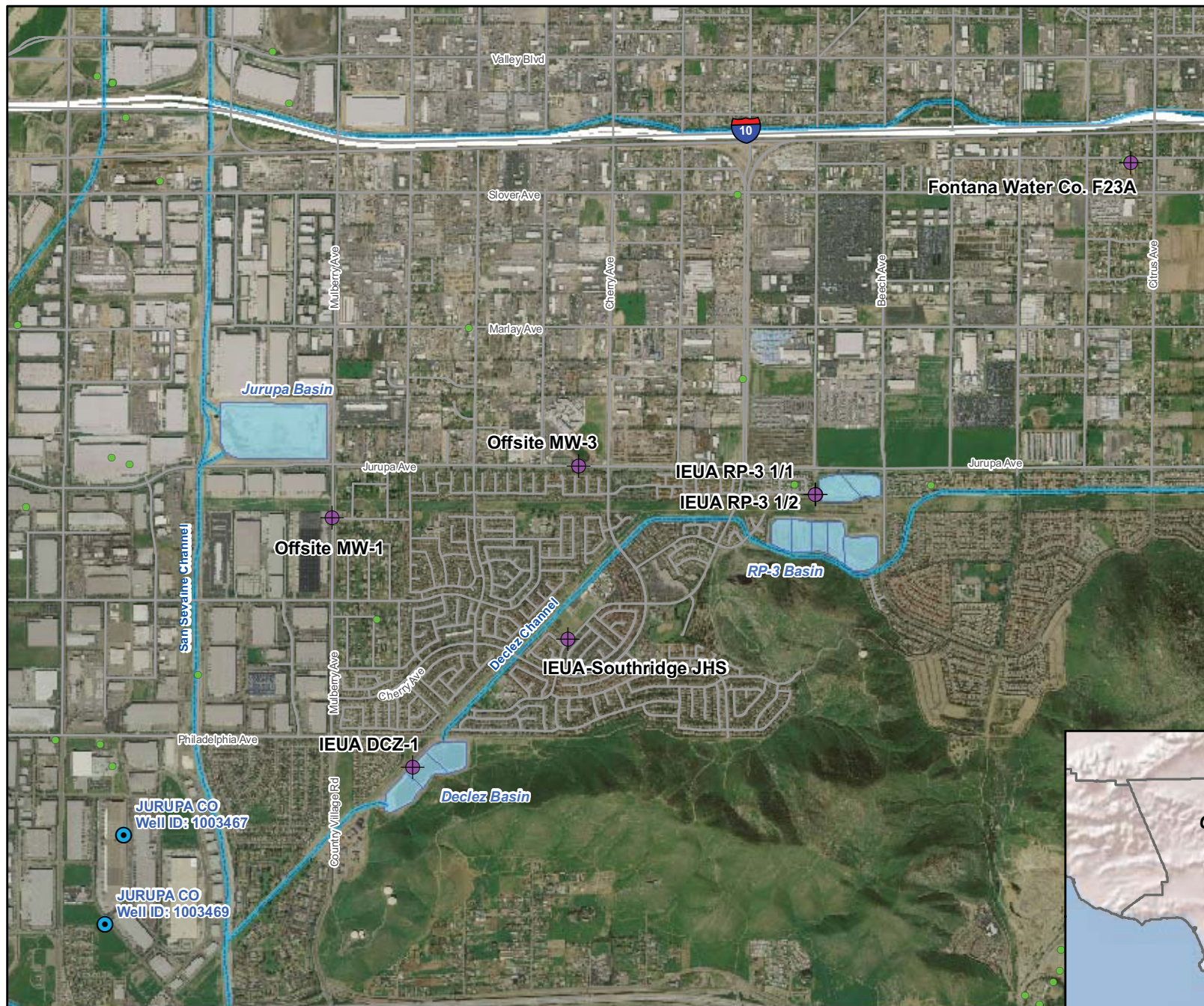


Monitoring Well Network
Brooks Street Basin

Figure 2-5

Recycled Water Recharge Program





Main Map Features

-  JCSD Wells
-  "Other Wells"
-  Existing Monitoring Well
-  Rivers/Streams/Creeks
-  Recharge Basins

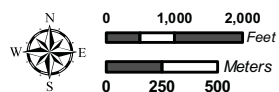


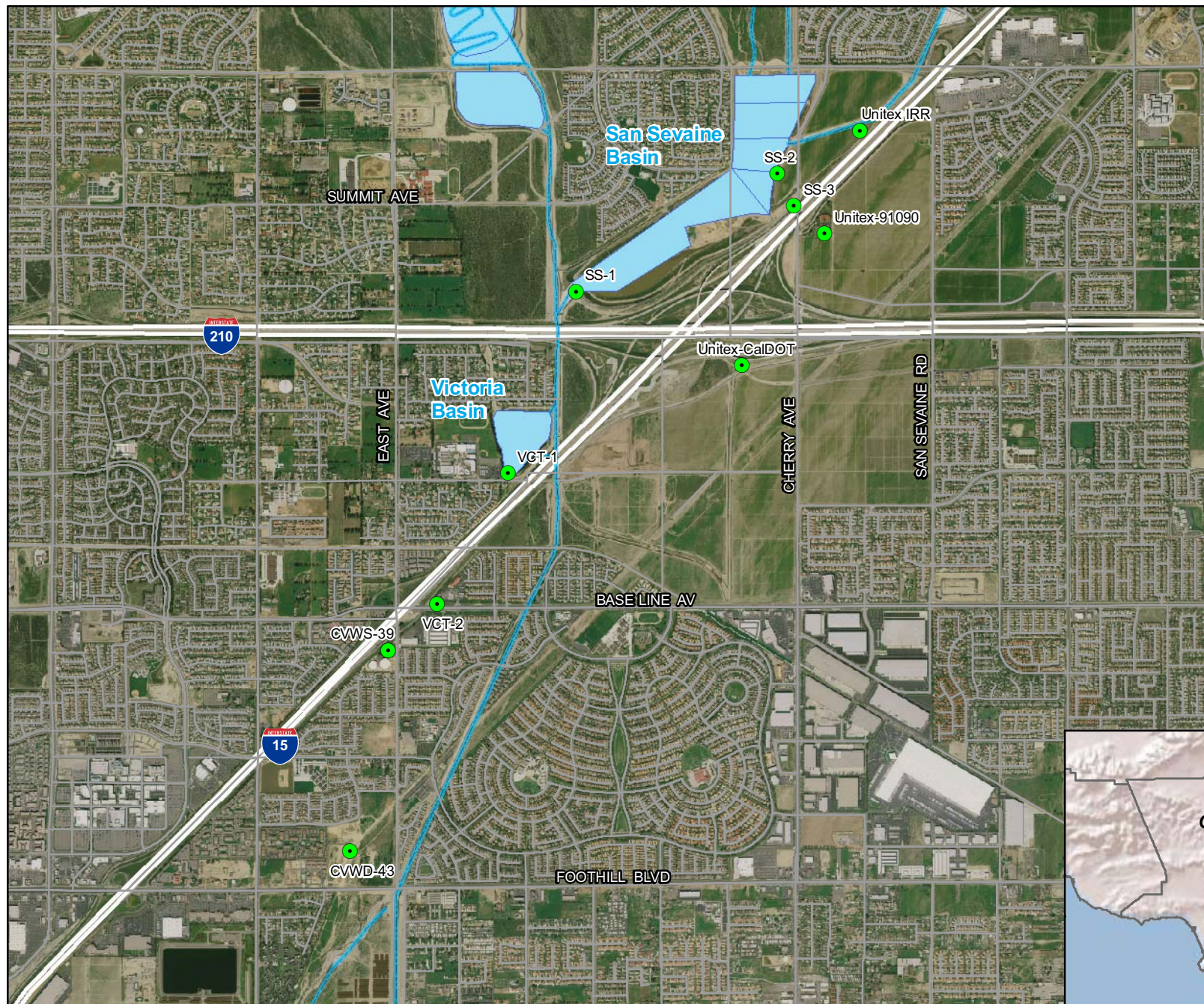
Monitoring Well Network

RP-3 Basin

Figure 2-6

Recycled Water Recharge Program





Main Map Features

- Existing Monitoring Well
- Rivers/Streams/Creeks
- Recharge Basins



Monitoring Well Network
San Sevaire and Victoria Basin

Figure 2-7

Recycled Water Recharge Program

