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May 15, 2015

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 January through March 2015**

Dear Mr. Berchtold,

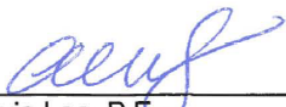
Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the first quarter of 2015 (1Q15), January 1 through March 31, 2015, for the *Chino Basin Recycled Water Groundwater Recharge Program*. This document is submitted pursuant to requirements in Order No. R8-2007-0039. All required monitoring and reporting for the quarter are presented in the attached report. During 1Q15, 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 January 1 through March 31, 2015, 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 15th day of May 2015 in the Cities of Chino and Rancho Cucamonga.



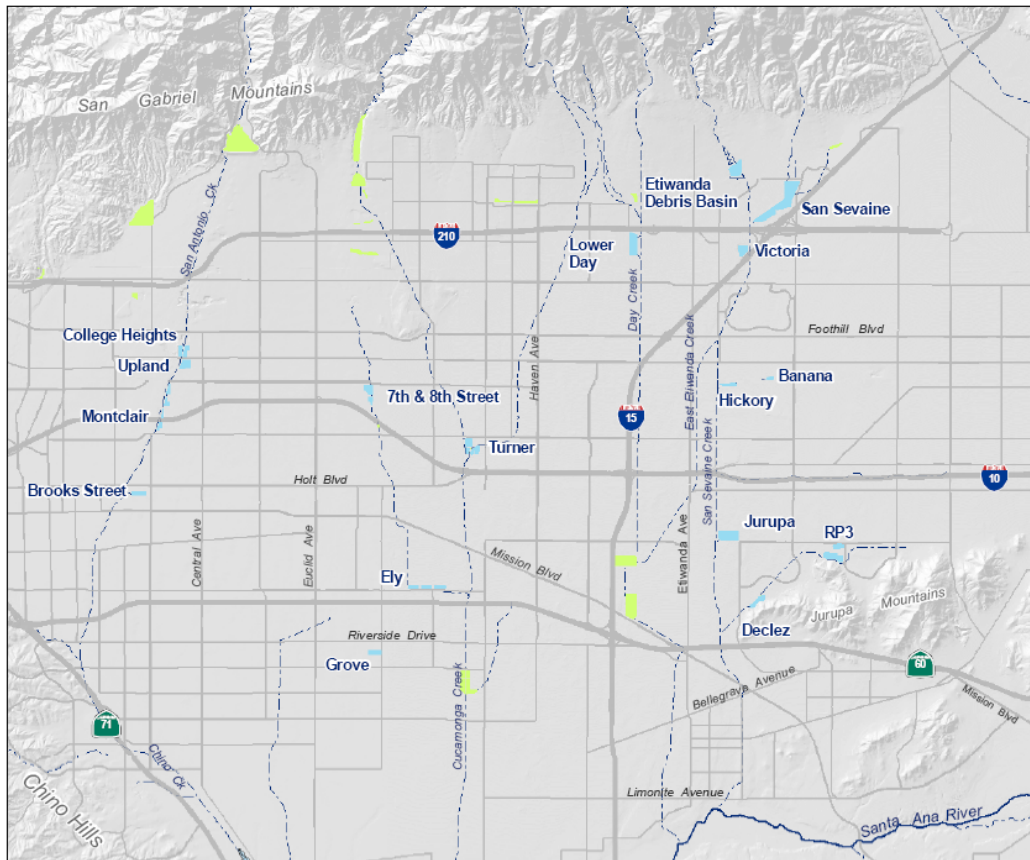
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Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report January 1 through March 31, 2015



Prepared by:



May 15, 2015

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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. The locations of recharge basins in the Chino Basin Groundwater Recharge Program are shown 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 first quarter of 2015 (1Q15).

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 State Water Resources Control Board – Division of Drinking Water (DDW, formerly California Department of Public Health). 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. was modified and footnote No. 18 was 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's (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 1Q15 data.

Recycled Water Specifications A.5 through A.9 in the Order are the narrative limits established in the permit. The corresponding monitoring data used to determine compliance with the Order are presented in Tables 2-1 and 2-2. This data is typically collected from samples of RP-1 and RP-4 effluent; however, recycled water compliance with the total nitrogen (TN) limit of 5 mg/L (Specification A.7) can also be met at the lysimeters (Table 2-5a) or at locations specified in alternative monitoring plans (Table 2-6a, and discussed in further detail in Section 2.B). During 1Q15, there were two exceedances of the TN limit.

In February 2015, the average of four consecutive TN results for the Ely Basins using the alternative monitoring TN reduction factor of 52% exceeded the 5 mg/L limit. The DDW and the Regional Board were both notified via e-mail regarding the exceedance. The 4-week average exceedance prompted an immediate suspension of recycled water recharge at Ely Basin on 02/17/15. As required by the permit, if four consecutive weeks of TN sampling exceed 5 mg/L, "Surface spreading shall not resume until appropriate corrections are made to reduce total nitrogen levels to below 5 mg/l of total nitrogen for at least one week." The elevated TN concentration of RP-1 Effluent was attributed to multiple preventative maintenance-related shutdowns that had taken place at RP-1 over a period of several weeks. IEUA resumed recycled water deliveries once we were confident that the recycled water being delivered was not impacted by shutdowns.

In March 2015, the average of two consecutive TN sample results for the Banana Basin compliance lysimeter exceeded the 5 mg/L limit. The DDW and the Regional Board were both notified via e-mail regarding the exceedance.

In the Groundwater Replenishment Regulations adopted by the DDW on June 18, 2014, the new TN limit for recycled water recharge is 10 mg/L. On March 12, 2014, IEUA submitted a letter to the DDW and the Regional Board requesting that the higher limit (proposed limit at that time) in the Groundwater Replenishment Regulations be adopted for the IEUA's GWR program. Per the request of the Regional

Board, additional data was submitted to support the increased TN limit. IEUA has yet to receive approval of the new limit and continues to report based on the 5 mg/L limit.

Recycled Water Specifications A.1 through A.4 of the Order are numerical limits based on the EPA's primary maximum contaminant levels (MCLs), secondary MCLs, and Action Levels. Recycled Water Specification A.15 is a numerical limit for oil and grease. The corresponding monitoring data used to determine compliance with the Order are presented in Table 2-3. Due to the volume of samples required for laboratory analyses, IEUA selected, and DDW approved, a sampling point along the recycled water distribution pipeline as the compliance point for the numerical limits. IEUA selected the turnout to NRG California South, LP (formerly Reliant Energy) as representative of the system blend of recycled water used for recharge.

In the Order, compliance for all constituents with MCLs or Action Levels is based on a 4-quarter running average (Recycled Water Specifications A.1 through A.4). Table 2-3 summarizes the 4-quarter running average concentration data for each parameter from 2Q14 through 1Q15, and lists the corresponding limits for compliance. During 1Q15, the annual samples were inadvertently not sent to the contract laboratory for analysis. As a result, some of the quarterly monitoring parameters were missed. Two sets of samples will be collected during 2Q15 on different days to make up for the missed quarterly parameters.

For the parameters that were analyzed during 1Q15, 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 the last 3 quarters, the threshold odor was found to be 8 Units. This results in a 4-quarter running average value of 7 Units, causing the threshold odor compliance metric to exceed the secondary MCL. 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 did not exceed 3 Units at any of the monitoring wells during 1Q15.

Although NRG turnout is a suitable sampling location 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 1Q15 sampling for DBPs, IEUA chose the 25-foot below ground surface lysimeter at the RP3 Basin (RP3-LYS-25) as the compliance point. The RP3 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. All quarterly constituents were analyzed as required, however the annual samples were not analyzed for the annual parameters. Those samples will be recollected and the results will be reported in the 2Q15 report.

B. Recycled Water: Basin and Lysimeter Samples

Total organic carbon (TOC) and nitrogen species sampling and analysis are performed weekly at basins when recycled water is delivered, for the determination of compliance with Recycled Water Specifications A.7, A.10, and A.11. EC is also measured and reported to assist in identifying the presence of recycled water at various depths in the vadose zone. Basin and lysimeter water quality results from 1Q15 are summarized in Table 2-5a. The table includes lysimeter data for Banana, Brooks, and Hickory Basins. During 1Q15, there were no exceedances of TOC and TN at the compliance lysimeters at the abovementioned basins.

As indicated in Recycled Water Compliance Determination B.6 of the Order, alternative monitoring programs for TOC and TN compliance under Specifications A.7, A.10 and A.11 can be developed based on start-up period findings. The alternative monitoring plans can be found in the Start-Up Period Report for each basin. The alternative TOC and TN monitoring plans approved by the Regional Board and DDW for Turner, RP3, Ely, 8th Street, San Sevaine, and Victoria Basins include alternative monitoring locations (RP1 effluent for Ely Basin, and recycled water at the NRG turnout for all other basins), and the application of correction factors for soil aquifer treatment (SAT). 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
- RP3 Basin: TOC reduction of 88 percent and TN reduction of 31 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 alternative monitoring locations and the application of these correction factors listed above are summarized in Table 2-5b.

An alternative monitoring plan has also been implemented at the Brooks Basin 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. Brooks Basin alternative monitoring data are summarized in Table 2-5b.

On July 29, 2013, the Regional Board approved the relocation of Hickory Basin TN compliance point from HKYE-LYS-25 to groundwater mound monitoring well, BH-1/2. The TN monitoring data for BH-1/2 can be found in Table 2-5b.

During 1Q15, there were no exceedances of TOC and one exceedance of TN (Ely Basin, as discussed in Section 2.A.) at the basins that have implemented alternative monitoring plans.

C. Diluent Water

For 1Q15, diluent water quality sampling of stormwater was conducted during the months of January and February 2015. Table 2-6 lists the results of the stormwater sampling and analyses. Details on the methods used to measure daily diluent water flow and diluent water monitoring schedule can be found in the DDW-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 5-1 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. During 1Q15, aluminum (primary MCL), iron (secondary MCL), and manganese (secondary MCL) exceeded the “maximum level to trigger source water evaluation” for constituents listed in Appendix A of the Diluent Water Monitoring Plan. IEUA will conduct a source water evaluation of San Sevaine Creek and Etiwanda Creek.

D. Groundwater Monitoring Wells

Monitoring is conducted at groundwater monitoring wells quarterly and annually to evaluate groundwater 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 that recharged water has on downgradient water supplies. 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. Groundwater quality samples are collected and tested quarterly for all constituents listed in Table 1 of Section V in the MRP R8-2007-0039, and annually for constituents specified in the Phase II Findings of Fact, Attachment A in the permit (Bullet 27 in the Conditions Section). The annual groundwater monitoring well sampling occurred during 1Q15. The groundwater constituents analyzed from the monitoring wells during quarterly and annual monitoring are presented in Table 2-8a and Table 2-8b.

Any 1Q15 or annual analyses results which exceeded primary or secondary MCLs are shown in the tables in bold italic font. The DDW is notified within 48 hours of receiving the results for primary MCL exceedances or coliform presence at active municipal drinking water wells. Exceedances of primary MCLs and coliform presence at monitoring wells and all secondary MCL exceedances will only be reported in the quarterly reports. Of note are the analyses for the following wells and constituents:

During the annual sampling event, perchlorate concentrations above the primary MCL of 6 µg/L was detected at 8TH-2/1 and BRK-1/2. Perchlorate concentrations at 8TH-2/1 have occasionally been at levels slightly above the MCL in the past. 8TH-2/1 is located in an area where perchlorate has historically been found in nearby wells. Perchlorate concentrations at BRK-1/2 have always been at levels slightly above the MCL since sampling at this well began in early 2007, prior to recycled water recharge. The perchlorate concentrations in BRK-1/2 are consistent with historical background groundwater concentration founds at nearby wells in the Pomona area. The perchlorate concentrations in these areas are reported in the Watermaster’s State of the Basin reports.

Turbidity exceeding the secondary MCL of 5 NTU was observed in two monitoring wells, namely: 8TH-1/1 and SS-1/1. The secondary MCL of 15 units for color was also exceeded at 8TH-1/1.

TDS and EC were higher than their secondary MCLs of 500 mg/L and 900 µmhos/cm, respectively, in Southridge JHS, Alcoa MW3 and Ely MW2 (Walnut). RP3-1/1 slightly exceeded the TDS secondary MCL. The wells south of the Ely Basins and near the RP3 Basins are located in areas where the TDS and EC concentrations in groundwater are elevated. South of the Ely Basins, TDS is about 500 mg/L and EC is about 750 µmhos/cm. In the RP3 Basins area, TDS is about 750 mg/L and EC is about 1,000 µmhos/cm. TDS concentrations measured at wells in the monitoring well networks for the basins listed above are documented in the Watermaster’s State of the Basin reports.

Dissolved manganese was above the secondary MCL of 50 µg/L at RP3-1/2 and Ely MW1 (Philadelphia). Recycled water manganese concentrations are generally less than 20 µg/L. Historical stormwater manganese analyses performed at the IEUA laboratory have been observed to fall within

the range of 10 to 180 µg/L. A common source of Mn in groundwater is naturally occurring from weathering of minerals and rocks in aquifer sediments. It is likely that the source of high Mn concentration in groundwater at RP3-1/1 and RP3-1/2 is naturally occurring and not related to recharge of stormwater or other waters, since the high Mn concentrations have been consistent throughout the record of sampling and because the majority of the monitoring wells that are sampled quarterly for the recharge program do not have high Mn concentrations.

Some monitoring wells in the Banana & Hickory, RP3, 8th Street, Brooks, and Ely monitoring networks have nitrate as nitrogen (NO₃-N) concentrations above the primary MCL of 10 mg/L. These higher levels of NO₃-N are characteristic of groundwater quality in the local area, where historically the NO₃-N concentrations range from 10-30 mg/L, as reported in Watermaster's State of the Basin reports. No notifications were made to the DDW as these areas have been previously identified to have monitoring wells with high NO₃-N concentrations. NO₃-N concentrations measured at wells in the monitoring well networks for the basins listed above are documented in the Watermaster's State of the Basin reports.

Total coliform was detected at BH-1/2, RP3-1/1, VCT-1/1, and Unitex 91090. The highest total coliform result of 3.6 MPN/100 mL was found at BH-1/2 during 1Q15. The total coliform found at these well locations did not come from recycled water, as the total coliform levels found in the recycled water are usually non-detect. In accordance with the MRP, notification to the DDW of coliform presence in municipal drinking water wells must be made within 48 hours of receiving the results. Since none of the aforementioned wells are active municipal drinking water wells, no notifications were made to the DDW for coliform presence during 1Q15.

3. Recharge Operations

IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water routed to all basins. The Banana, Brooks, Ely, Hickory, RP3, 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 1Q15 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.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 1Q15 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 Sevaine, 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 the 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 DDW 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 Regional Board to be included under IEUA/Watermaster 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 significant volume of imported water has been injected since September 2011. During the last four quarters (2Q14 through 1Q15), no imported water was injected into the groundwater basin. 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 January 2015
(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
01/01/15	0.5	5.7	8.6		8.6	6.8	884			<2	0.3	4.3	5.4		5.4	7.3	822			<2
01/02/15	0.5	5.7				6.8	815			<2	0.3	4.2				7.3	795			<2
01/03/15	0.6	6.0				6.8	842			<2	0.4	4.4				7.3	800			<2
01/04/15	0.5	6.1	7.3	7.3	7.3	6.8	855	492	158	<2	0.5	4.5	5.1	6.6	5.1	7.3	800	474	149	<2
01/05/15	0.5	5.9	7.7		7.8	6.8	849			<2	0.5	4.5	4.7		4.8	7.3	790			<2
01/06/15	0.7	5.9	7.9		7.9	6.9	854			<2	0.5	4.4	4.6		4.6	7.3	790			<2
01/07/15	0.6	6.0	7.0		7.0	6.9	872			<2	0.5	4.4	5.8		5.8	7.2	785			<2
01/08/15	0.5	5.7	7.4		7.4	6.9	850			2	0.4	4.2	6.9		6.9	7.3	785			<2
01/09/15	0.5	5.8				6.9	840			<2	0.4	4.2				7.2	780			<2
01/10/15	0.5	5.8				6.9	851			<2	0.4	4.2				7.2	785			<2
01/11/15	0.5	6.0	8.1	8.1	8.1	6.8	854	538		<2	0.4	4.4	6.5	7.2	6.5	7.2	780	474		<2
01/12/15	0.5	5.4	11.9		11.9	6.7	841			<2	0.4	4.1	4.9		4.9	7.3	779			<2
01/13/15	0.5	5.7	11.5		11.5	6.8	835			4	0.3	3.9	4.6		4.6	7.4	785			<2
01/14/15	0.5	5.7	10.7		10.7	6.8	852			<2	0.3	3.9	5.4		5.4	7.3	779			<2
01/15/15	0.5	5.7	8.2		8.2	6.9	838			<2	0.3	3.8	6.2		6.2	7.1	788			2
01/16/15	0.5	5.9				6.9	859			<2	0.3	3.7				7.1	792			<2
01/17/15	0.5	5.7				6.8	882			<2	0.3	3.8				7.1	788			<2
01/18/15	0.5	5.9	7.0	7.0	7.0	6.9	897	542		2	0.3	4.0	5.8	7.2	5.8	7.2	807	528		<2
01/19/15	0.6	5.8	8.2		8.2	6.9	897			<2	0.3	4.0	4.6		4.6	7.2	795			<2
01/20/15	0.5	6.0	9.9		9.9	6.8	897			2	0.3	4.0	4.1		4.1	7.3	806			<2
01/21/15	0.5	6.1	13.6		13.6	6.8	897			<2	0.3	4.2	5.3		5.3	7.3	790			<2
01/22/15	0.6	6.0	12.9		12.9	6.8	897			<2	0.3	4.0	6.1		6.1	7.3	765			<2
01/23/15	0.6	6.2				6.9	908			<2	0.3	3.9				7.3	768			<2
01/24/15	0.7	5.9				6.9	935			<2	0.6	4.0				7.3	765			<2
01/25/15	0.7	6.4	13.6	13.6	13.6	6.8	956	554		<2	0.3	4.1	5.8	6.9	5.8	7.3	762	502		<2
01/26/15	0.7	6.2	10.5		10.5	6.9	942			<2	0.3	4.2	3.9		4.0	7.3	760			<2
01/27/15	0.9	6.2	8.1		8.2	6.9	929			2	0.3	4.7	3.4		3.5	7.2	745			<2
01/28/15	0.9	6.6	9.0		9.1	7.0	923			<2	0.3	3.9	4.9		5.0	7.2	738			<2
01/29/15	0.9	6.4	12.5		12.6	6.9	902			<2	0.3	3.6	6.2		6.4	7.2	727			<2
01/30/15	0.8	6.0				6.9	870			<2	0.3	3.6				7.2	700			<2
01/31/15	0.8	6.0				6.9	868			<2	0.3	3.6				7.3	696			<2
Avg	0.6	5.9	9.6	9.0	9.6	6.8	877	532	158	<2	0.4	4.1	5.2	7.0	5.3	7.3	776	495	149	<2
Min	0.5	5.4	7.0	7.0	7.0	6.7	815	492	158	<2	0.3	3.6	3.4	6.6	3.5	7.1	696	474	149	<2
Max	0.9	6.6	13.6	13.6	13.6	7.0	956	554	158	4	0.6	4.7	6.9	7.2	6.9	7.4	822	528	149	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 February 2015
(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
02/01/15	0.8	6.4	8.4	9.4	8.5	7.0	895	552	162	<2	0.4	3.7	4.4	5.1	4.6	7.3	687	462	152	<2
02/02/15	0.8	6.3	9.5		9.6	6.9	901			2	0.4	3.9	3.5		3.7	7.3	683			<2
02/03/15	0.9	6.7	6.9		7.1	7.0	886			2	0.4	3.9	3.4		3.6	7.3	677			<2
02/04/15	0.9	6.5	8.5		8.6	7.1	925			<2	0.3	3.8	4.4		4.5	7.3	697			<2
02/05/15	0.9	6.4	8.4		8.5	7.1	901			<2	0.3	3.8	5.6		5.7	7.3	722			<2
02/06/15	0.9	6.7				7.1	879			<2	0.4	3.9				7.3	749			<2
02/07/15	0.8	6.5				7.1	889			<2	0.4	4.0				7.2	766			<2
02/08/15	0.8	6.7	11.2	12.2	11.3	7.1	888	604		<2	0.5	4.2	4.7	5.4	4.8	7.2	781	518		<2
02/09/15	0.9	6.5	8.2		8.3	7.1	799			<2	0.5	4.2	3.8		3.9	7.3	787			<2
02/10/15	0.8	6.7	7.6		7.7	7.1	881			2	0.5	4.2	3.3		3.4	7.3	787			2
02/11/15	1.0	6.6	7.3		7.4	7.1	884			<2	0.5	4.1	4.4		4.6	7.4	799			<2
02/12/15	0.9	6.4	10.9		11.0	7.1	890			<2	0.4	4.1	5.7		5.9	7.3	788			<2
02/13/15	0.9	4.3				7.1	903			<2	0.4	3.6				7.2	805			<2
02/14/15	0.9	5.5				7.1	1071			<2	0.4	3.7				7.3	799			<2
02/15/15	0.9	5.7				7.1	1154			<2	0.4	3.8				7.3	801			<2
02/16/15	0.8	6.6	6.8	7.8	6.9	7.2	1154	542		<2	0.4	4.4	3.7	5.1	3.9	7.3	810	528		<2
02/17/15	0.9	6.2	6.7		6.8	7.2	1154			<2	0.5	4.3	3.5		3.7	7.3	816			<2
02/18/15	0.7	6.2	6.8		6.9	7.2	1154			<2	0.6	4.4	4.3		4.4	7.2	808			<2
02/19/15	0.7	5.6	7.4		7.5	7.0	1069			<2	0.6	4.4	4.1		4.2	7.2	814			<2
02/20/15	0.6	5.7				6.8	858			<2	0.6	4.5				7.2	807			<2
02/21/15	0.6	5.7				6.8	893			<2	0.6	4.5				7.1	812			<2
02/22/15	0.6	6.0	5.4	6.4	5.5	6.8	906	536		<2	0.6	4.5	3.3	3.4	3.4	7.2	797	482		<2
02/23/15	0.6	5.7	4.7		4.8	6.8	894			<2	0.5	4.4	2.8		2.9	7.2	785			<2
02/24/15	0.5	5.5	5.6		5.7	6.7	864			<2	0.6	4.8	4.0		4.2	7.2	803			<2
02/25/15	0.7	5.3	5.7		5.8	6.7	840			<2	0.5	4.2	3.6		3.7	7.2	811			<2
02/26/15	0.5	5.2	6.0		6.1	6.7	872			<2	0.4	4.0	4.0		4.2	7.2	788			<2
02/27/15	0.5	5.0				6.8	883			<2	0.4	4.0				7.3	780			<2
02/28/15	0.5	5.0				6.8	875			<2	0.4	4.0				7.3	788			<2
Avg	0.8	6.0	7.5	9.0	7.6	7.0	934	559	162	<2	0.5	4.1	4.0	4.8	4.2	7.3	777	498	152	<2
Min	0.5	4.3	4.7	6.4	4.8	6.7	799	536	162	<2	0.3	3.6	2.8	3.4	2.9	7.1	677	462	152	<2
Max	1.0	6.7	11.2	12.2	11.3	7.2	1154	604	162	2	0.6	4.8	5.7	5.4	5.9	7.4	816	528	152	2

Note: **Bolded characters signify an exceedance of a permit limitation**

ND: No Discharge

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 March 2015
(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
03/01/15	0.5	5.0	5.7	6.7	5.8	6.7	870	524	151	<2	0.4	4.2	4.9	5.9	5.1	7.2	792	492	152	2
03/02/15	0.5	5.1	5.2		5.4	6.7	860			<2	0.4	4.3	4.7		4.9	7.2	797			<2
03/03/15	0.5	5.1	5.6		5.8	6.7	841			<2	0.4	4.4	4.2		4.4	7.1	792			<2
03/04/15	0.5	5.0	5.4		5.6	6.8	844			<2	0.4	4.5	4.7		4.9	7.1	786			<2
03/05/15	0.4	4.8	6.6		6.7	6.8	837			<2	0.4	4.2	4.4		4.6	7.1	775			<2
03/06/15	0.4	4.9				6.8	844			<2	0.4	4.2				7.2	765			<2
03/07/15	0.4	5.1				6.8	843			<2	0.4	4.2				7.2	777			<2
03/08/15	0.5	5.5	6.8	7.9	7.0	6.8	857	534		<2	0.4	4.4	3.1	3.6	3.2	7.1	773	476		<2
03/09/15	0.5	5.4	5.5		5.6	6.8	859			<2	0.4	4.5	3.3		3.4	7.2	796			2
03/10/15	0.5	5.6	8.4		8.5	6.8	860			<2	0.4	4.5	3.6		3.8	7.1	809			<2
03/11/15	0.5	5.3	10.7		10.9	6.8	874			<2	0.4	4.4	4.8		5.0	7.1	779			<2
03/12/15	0.5	5.2	11.8		11.9	6.7	884			<2	0.5	4.3	5.5		5.7	7.2	744			<2
03/13/15	0.4	5.2				6.8	883			<2	0.5	4.2				7.2	773			2
03/14/15	0.4	5.4				6.8	892			<2	0.5	4.3				7.1	781			<2
03/15/15	0.4	5.4	11.3	12.4	11.5	6.8	898	530		<2	0.5	4.5	3.3	4.4	3.5	7.1	777	488		<2
03/16/15	0.5	5.6	11.0		11.1	6.8	853			4	0.6	4.6	3.2		3.3	7.2	786			<2
03/17/15	0.5	5.5	11.7		11.8	6.8	858			<2	0.5	4.6	3.5		3.6	7.2	789			<2
03/18/15	0.5	5.9	10.7		10.8	6.8	892			2	0.6	4.6	4.5		4.6	7.2	780			<2
03/19/15	0.5	5.6	5.4		5.5	6.9	885			<2	0.5	4.5	4.7		4.8	7.2	763			<2
03/20/15	0.6	5.8				6.9	883			<2	0.5	4.3				7.2	770			<2
03/21/15	0.5	5.8				6.9	893			<2	0.6	4.4				7.2	762			<2
03/22/15	0.5	5.7	2.8	3.8	2.9	6.9	885	522		<2	0.6	4.6	3.3	4.7	3.5	7.2	759	462		<2
03/23/15	0.5	5.9	2.8		2.9	7.0	888			<2	0.7	4.6	3.3		3.4	7.1	759			<2
03/24/15	0.6	6.0	2.3		2.4	7.0	843			<2	0.6	4.6	3.6		3.7	7.2	763			<2
03/25/15	0.6	5.7	2.5		2.6	6.9	807			<2	0.6	4.2	3.8		3.9	7.2	763			<2
03/26/15	0.6	5.5	3.3		3.4	6.9	803			<2	0.5	4.2	4.6		4.7	7.2	753			<2
03/27/15	0.6	5.3				6.9	784			<2	0.5	4.2				7.2	744			<2
03/28/15	0.5	5.2				7.0	810			<2	0.5	4.3				7.2	754			<2
03/29/15	0.5	5.3	4.5		4.6	7.0	792	536		<2	0.5	4.4	3.9		4.0	7.2	764	492		<2
03/30/15	0.6	5.6	3.9		4.0	7.0	805			<2	0.5	4.7	3.5		3.8	7.2	770			<2
03/31/15	0.6	5.6	7.1		7.2	7.1	817			<2	0.5	4.5	4.8		4.9	7.2	777			<2
Avg	0.5	5.4	6.6	7.7	6.7	6.8	853	529	151	<2	0.5	4.4	4.1	4.6	4.2	7.2	773	482	152	<2
Min	0.4	4.8	2.3	3.8	2.4	6.7	784	522	151	<2	0.4	4.2	3.1	3.6	3.2	7.1	744	462	152	<2
Max	0.6	6.0	11.8	12.4	11.9	7.1	898	536	151	4	0.7	4.7	5.5	5.9	5.7	7.2	809	492	152	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 2-2
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.
Apr-14	5.2	6.4	517	504
May-14	5.2	6.3	524	505
Jun-14	4.4	6.1	506	506
Jul-14	3.5	6.0	494	505
Aug-14	3.5	5.7	508	506
Sep-14	4.1	5.4	524	508
Oct-14	4.9	5.2	541	512
Nov-14	5.9	5.1	571	518
Dec-14	6.2	5.0	565	522
Jan-15	7.9	5.2	546	525
Feb-15	7.4	5.3	560	529
Mar-15	6.2	5.4	528	532
Avg	5.4	5.6	532	514
Min	3.5	5.0	494	504
Max	7.9	6.4	571	532
Limit		8.0		550

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

Per the Regional Board, TDS is calculated using the flow-weighted averages based on discharged effluent flows and recycled water flows; TIN is calculated using the flow-weighted averages based on discharged effluent flows only.

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	2Q14	3Q14	4Q14	1Q15	4Q Run.	Limit	Unit	Method
					Avg. ¹			
Inorganic Chemicals								
Aluminum	28	28	40	40	34	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	<0.4	<0.4	<0.8	<2.0	<2.0	7	MFL	EPA 100.2
Barium	13	13	11	16	13	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	0.8	0.8	0.6	0.6	0.7	50	µg/L	EPA 200.8
Cyanide	<5	<5	<5	<20	<20	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	2	2	1	2	100	µg/L	EPA 200.8
Perchlorate	<4	<4	<4	<4	<4	6	µg/L	EPA 314/331.0
Selenium	<2	<2	<2	<2	<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	<0.5	<0.5	<0.5	<0.5	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	<0.5	<0.5	600	µg/L	EPA 524.2/624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	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	<0.5	<0.5	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	<0.5	<0.5	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	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2/624
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	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	<0.5	<0.5	5	µg/L	EPA 524.2/624
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	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	<0.5	<0.5	200	µg/L	EPA 524.2/624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	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	<0.5	<0.5	<0.05	*	<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	<0.2	<0.2	<0.02	*	<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	5	4	6	5	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	<0.5	<0.5	<0.6	*	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.5	<0.5	<0.6	*	<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	2Q14	3Q14	4Q14	1Q15	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	<0.5	<0.5	<0.05	*	<0.5	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.5	<0.5	<0.05	*	<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	<0.5	<0.5	<0.1	*	<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	<0.5	<0.5	<0.05	*	<0.5	4	µg/L	EPA 525.2
Thiobencarb	<0.5	<0.5	<0.2	*	<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	2.5	3.7	5.4	6.4	4.5	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	<0.06	<0.44	<0.57	0.25	<0.57	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<2	<3	<3	15	pCi/L	EPA 900.0/SM7110C
Tritium	<221	<447	<1000	<299	<1000	20,000	pCi/L	EPA 906
Strontium-90	<0.28	<0.28	<0.49	<0.82	<0.82	8	pCi/L	EPA 905
Gross Beta Particle Activity	13	13	14	14	14	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	41	28	40	40	37	200	µg/L	EPA 200.8
Copper	2.5	3.7	5.4	6.4	4.5	1000	µg/L	EPA 200.8
Corrosivity ³	NR	NR	-0.7 (Non-Cor.)	-1.0 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ³	0.05	<0.05	0.07	0.06	0.06	0.5	mg/L	S5540C/EPA 425.1
Iron ³	NR	NR	42	29	131	300	µg/L	EPA 200.7
Manganese	6	6	14	13	10	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	2	8	8	8	7	3	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	<0.25	<0.25	100	µg/L	EPA 200.8
Thiobencarb	<0.5	<0.5	<0.2	*	<0.5	1	µg/L	EPA 525.2
Zinc	32	19	40	42	33	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁴	<1	NA	<1	<1	<1	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<5	<1	<1	2	<5	10	µg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	<0.01	<0.01	1	mg/L	EPA 300.0
HKYE-LYS-25 RP3-LYS-25 HKYE-LYS-25 RP3-LYS-25 2Q14 3Q14 4Q14 1Q15								
Lysimeter Compliance Point Data								
Total Trihalomethanes (TTHMs)	70	4	28	<4	27	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 1Q15 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.

*Sample was collected but not analyzed for these parameters. Two sets of samples were collected in 2Q15; the first set will be reported where data is missing for 1Q15.

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

Constituent	1Q15	Unit	Method	Constituent	1Q15	Unit	Method
Metals				Pesticides			
Chromium (III) ¹	0.6	µg/L	EPA 200.8	Aldrin	<0.005	µg/L	EPA 608
Volatile Organic Chemicals (VOCs)				BHC, alpha isomer	<0.01	µg/L	EPA 608
Acrolein	<2	µg/L	EPA 624	BHC, beta isomer	<0.005	µg/L	EPA 608
Acrylonitrile	<2	µg/L	EPA 624	BHC, delta isomer	<0.007	µg/L	EPA 608
Bromoform	<0.5	µg/L	EPA 524.2/624	4,4'-DDT	<0.01	µg/L	EPA 608
Chlorodibromomethane	5.6	µg/L	EPA 524.2/624	4,4'-DDE	<0.01	µg/L	EPA 608
Chloroethane	<0.5	µg/L	EPA 524.2/624	4,4'-DDD	<0.01	µg/L	EPA 608
2-Chloroethylvinylether	<1	µg/L	EPA 524.2/624	Dieldrin	<0.01	µg/L	EPA 608
Chloroform	82	µg/L	EPA 524.2/624	Endosulfan I	<0.01	µg/L	EPA 608
Dichlorobromomethane	26	µg/L	EPA 524.2/624	Endosulfan II	<0.01	µg/L	EPA 608
Methyl Bromide	<1	µg/L	EPA 524.2/624	Endosulfan Sulfate	<0.01	µg/L	EPA 608
Methyl Chloride	<0.5	µg/L	EPA 524.2/624	Unregulated Chemicals			
Acid Extractibles				Endrin Aldehyde	<0.01	µg/L	EPA 608
2-Chlorophenol	<1	µg/L	EPA 625	Chromium VI	0.26	µg/L	EPA 218.6
2,4-Dichlorophenol	<2	µg/L	EPA 625	Ethyl tertiary butyl ether	<0.5	µg/L	EPA 524.2
2,4-Dimethylphenol	<1	µg/L	EPA 625	Tertiary amyl methyl ether	<0.5	µg/L	EPA 524.2
2-Methyl-4,6-dinitrophenol	<2	µg/L	EPA 625	Chemicals w/ State Notification Levels ²			
2,4-Dinitrophenol	<3	µg/L	EPA 625	Boron	0.2	mg/L	EPA 200.7
2-Nitrophenol	<1	µg/L	EPA 625	n-butylbenzene	<0.5	µg/L	EPA 524.2
4-Nitrophenol	<3	µg/L	EPA 625	sec-butylbenzene	<0.5	µg/L	EPA 524.2
4-Chloro-3-methylphenol	<1	µg/L	EPA 625	tert-butylbenzene	<0.5	µg/L	EPA 524.2
Phenol	<1	µg/L	EPA 625	Carbon disulfide	<0.5	µg/L	EPA 524.2
2,4,6-Trichlorophenol	<1	µg/L	EPA 625	Chlorate	*	µg/L	EPA 300.0
Base/Neutral Extractibles				2-Chlorotoluene	<0.5	µg/L	EPA 524.2
Acenaphthene	<1	µg/L	EPA 625	4-Chlorotoluene	<0.5	µg/L	EPA 524.2
Acenaphthylene	<1	µg/L	EPA 625	Diazinon	*	µg/L	EPA 525.2
Anthracene	<1	µg/L	EPA 625	Dichlorodifluoromethane (Freon 12)	<0.5	µg/L	EPA 524.2
Benzidine	<5	µg/L	EPA 625	1,4 - Dioxane	*	µg/L	EPA 522
Benzo(a)anthracene	<5	µg/L	EPA 625	Ethylene glycol	*	mg/L	EPA 8015B
Benzo(b)fluoranthene	<1	µg/L	EPA 625	Formaldehyde	*	µg/L	EPA 556
Benzo(g,h,i)perylene	<2	µg/L	EPA 625	HMX	*	µg/L	EPA 8330B
Benzo(k)fluoranthene	<1	µg/L	EPA 625	Isopropylbenzene	<0.5	µg/L	EPA 524.2
Bis(2-chloroethoxy)methane	<2	µg/L	EPA 625	Methyl isobutyl ketone (MIBK)	<2	µg/L	EPA 524.2
Bis(2-chloroethyl)ether	<1	µg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	*	ng/L	EPA 521
Bis(2-chloroisopropyl)ether	<1	µg/L	EPA 625	N-nitrosodimethylamine (NDMA)	*	ng/L	EPA 521
4-Bromophenyl phenyl ether	<1	µg/L	EPA 625	Propachlor	*	µg/L	EPA 525.2
Butyl benzyl phthalate	<1	µg/L	EPA 625	N-propylbenzene	<0.5	µg/L	EPA 524.2
2-Chloronaphthalene	<1	µg/L	EPA 625	RDX	*	µg/L	EPA 8330B
4-Chlorophenyl phenyl ether	<1	µg/L	EPA 625	Tertiary butyl alcohol	<2	µg/L	EPA 524.2
Chrysene	<1	µg/L	EPA 625	1,2,3-Trichloropropane (1,2,3-TCP)	<0.5	µg/L	EPA 524.2
Dibenzo(a,h)anthracene	<1	µg/L	EPA 625	1,2,4-trimethylbenzene	<0.5	µg/L	EPA 524.2
1,3-Dichlorobenzene	<1	µg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2
3,3-Dichlorobenzidine	<5	µg/L	EPA 625	2,4,6-Trinitrotoluene	*	µg/L	EPA 8330B
Diethyl phthalate	<2	µg/L	EPA 625	Vanadium	4	µg/L	EPA 200.8
Dimethyl phthalate	<1	µg/L	EPA 625	Endocrine Disrupting Chemicals, Pharmaceuticals and Other Chemicals ²			
Di-n-butyl phthalate	<1	µg/L	EPA 625	Acetaminophen	*	ng/L	LC-MS-MS
2,4-Dinitrotoluene	<1	µg/L	EPA 625	Bis Phenol A (BPA)	*	ng/L	LC-MS-MS
2,6-Dinitrotoluene	<2	µg/L	EPA 625	Caffeine	*	ng/L	LC-MS-MS
Di-n-octyl phthalate	<1	µg/L	EPA 625	Carbamazepine	*	ng/L	LC-MS-MS
Azobenzene	<1	µg/L	EPA 625	DEET	*	ng/L	LC-MS-MS
Fluoranthene	<1	µg/L	EPA 625	Estradiol	*	ng/L	LC-MS-MS
Fluorene	<1	µg/L	EPA 625	Estrone	*	ng/L	LC-MS-MS
Hexachlorobutadiene	<1	µg/L	EPA 625	Ethinyl Estradiol - 17 alpha	*	ng/L	LC-MS-MS
Hexachlorocyclopentadiene	<5	µg/L	EPA 625	Fluoxetine	*	ng/L	LC-MS-MS
Hexachloroethane	<1	µg/L	EPA 625	Gemfibrozil	*	ng/L	LC-MS-MS
Indeno(1,2,3-cd)pyrene	<2	µg/L	EPA 625	Ibuprofen	*	ng/L	LC-MS-MS
Isophorone	<1	µg/L	EPA 625	Iopromide	*	ng/L	LC-MS-MS
Naphthalene	<1	µg/L	EPA 625	Progesterone	*	ng/L	LC-MS-MS
Nitrobenzene	<1	µg/L	EPA 625	Sucralose	*	ng/L	LC-MS-MS
N-Nitroso-di-n-propylamine	<1	µg/L	EPA 625	Sulfamethoxazole	*	ng/L	LC-MS-MS
N-Nitrosodiphenylamine	<1	µg/L	EPA 625	Testosterone	*	ng/L	LC-MS-MS
Phenanthrene	<1	µg/L	EPA 625	Triclosan	*	ng/L	LC-MS-MS
Pyrene	<1	µg/L	EPA 625	Trimethoprim	*	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

*Sample was collected but not analyzed for these parameters. Data will be reported in 2Q15 report for these parameters.

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

Banana Basin									
Site	Depth, bgs	Date	TOC (Limit = 16 mg/L)	TN* (Limit = 5 mg/L)	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	01/07/15	4.56	6.2	5.5	5.4	0.8	<0.01	795
BNA-LYS-00	0	01/13/15	5.12	6.3	5.1	5.1	1.2	<0.01	665
BNA-LYS-00	0	01/21/15	4.54	6.4	5.3	5.3	1.1	<0.01	812
BNA-LYS-00	0	01/28/15	8.30	2.6	1.1	0.7	1.9	0.10	111
BNA-LYS-00	0	02/04/15	8.7	1.5	<0.2	<0.1	1.5	0.06	120
BNA-LYS-00	0	02/18/15	7.00	7.8	6.6	6.2	1.6	0.20	839
BNA-LYS-00	0	02/25/15	6.16	2.6	1.8	1.3	1.3	0.10	161
BNA-LYS-00	0	03/04/15	6.19	1.7	1.0	0.7	1.0	0.08	81
BNA-LYS-00	0	03/11/15	8.99	1.4	<0.2	<0.1	1.4	<0.01	91
BNA-LYS-00	0	03/25/15	5.70	4.1	3.7	3.4	0.7	0.11	832
BNA-LYS-25**	25	01/07/15	1.00	3.1	3.1	3.1	<0.5	<0.01	500
BNA-LYS-25**	25	01/13/15	0.91	3.2	2.8	2.7	0.5	<0.01	525
BNA-LYS-25**	25	01/21/15	1.03	3.6	3.6	3.6	<0.5	<0.01	596
BNA-LYS-25**	25	01/28/15	0.99	4.8	4.2	4.0	0.8	0.16	628
BNA-LYS-25**	25	02/04/15	0.80	4.4	4.4	4.2	<0.5	0.16	628
BNA-LYS-25**	25	02/11/15	0.00	4.9	4.9	4.8	<0.5	0.11	645
BNA-LYS-25**	25	02/18/15	0.89	5.0	5.0	4.8	<0.5	0.15	670
BNA-LYS-25**	25	02/25/15	0.89	5.8	5.2	5.0	0.8	0.16	676
BNA-LYS-25**	25	03/04/15	0.89	6.0	5.0	4.9	1.1	0.14	644
BNA-LYS-25**	25	03/11/15	0.65	4.5	4.5	4.4	<0.5	0.13	588
BNA-LYS-25**	25	03/18/15	0.87	4.9	4.2	4.1	0.8	0.12	544
BNA-LYS-25**	25	03/25/15	0.69	3.6	3.6	3.5	<0.5	0.08	514

Brooks Basin									
Site	Depth, bgs	Date	TOC	TN* (Limit = 5 mg/L)	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	01/08/15	4.15	3.4	2.8	2.4	1.0	0.07	595
BRK-LYS-00	0	02/25/15	5.23	4.5	3.5	3.1	1.4	0.17	577
BRK-LYS-00	0	03/11/15	4.81	4.6	3.5	3.0	1.6	0.17	550
BRK-LYS-25**	25	01/08/15	3.30	<0.6	<0.2	<0.1	<0.5	<0.01	903
BRK-LYS-25**	25	02/25/15	3.19	<0.6	0.3	<0.1	<0.5	0.23	799
BRK-LYS-25**	25	03/11/15	2.92	<0.6	0.2	<0.1	<0.5	0.24	758

Hickory East Basin									
Site	Depth, bgs	Date	TOC (Limit = 16 mg/L)	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
HKEYE-LYS-00	0	01/07/15	4.54	5.3	4.5	4.5	0.8	<0.01	765
HKEYE-LYS-00	0	01/14/15	4.23	5.8	5.0	4.9	0.9	<0.01	779
HKEYE-LYS-00	0	01/21/15	5.70	6.1	4.8	4.8	1.3	<0.01	796
HKEYE-LYS-00	0	01/28/15	4.39	6.5	5.4	5.3	1.2	0.14	707
HKEYE-LYS-00	0	02/04/15	4.89	6.5	5.7	5.6	0.9	0.13	743
HKEYE-LYS-00	0	02/11/15	5.09	6.7	5.8	5.7	1.0	0.10	805
HKEYE-LYS-00	0	02/18/15	5.24	7.0	6.2	5.9	1.1	0.12	823
HKEYE-LYS-00	0	02/25/15	4.96	4.7	3.6	3.2	1.5	0.16	441
HKEYE-LYS-00	0	03/04/15	5.14	5.1	3.8	3.5	1.6	0.13	532
HKEYE-LYS-00	0	03/11/15	4.88	4.0	4.0	3.9	<0.5	0.12	786
HKEYE-LYS-00	0	03/18/15	5.35	7.8	6.9	6.7	1.1	0.10	809
HKEYE-LYS-00	0	03/25/15	5.45	6.3	3.4	3.0	3.3	0.26	804
HKEYE-LYS-00	0	01/07/15	1.12	1.2	1.2	1.2	<0.5	<0.01	255
HKEYE-LYS-00	0	01/14/15	1.09			3.3		<0.01	420
HKEYE-LYS-25**	25	01/21/15	1.31	2.5	2.5	2.5	<0.5	<0.01	358
HKEYE-LYS-25**	25	01/28/15	1.08	4.4	3.8	3.7	0.7	0.14	519
HKEYE-LYS-25**	25	02/04/15	1.60			5.4		0.15	706
HKEYE-LYS-25**	25	02/11/15	1.79	5.9	5.9	5.9	<0.5	<0.01	723
HKEYE-LYS-25**	25	02/18/15	1.94	6.3	6.3	6.1	<0.5	0.15	782
HKEYE-LYS-25**	25	02/25/15	1.81	7.6	6.5	6.3	1.3	0.16	822
HKEYE-LYS-25**	25	03/04/15	1.64	6.3	5.9	5.6	0.7	0.16	783
HKEYE-LYS-25**	25	03/11/15	1.63	5.6	5.1	4.9	0.7	0.16	725
HKEYE-LYS-25**	25	03/18/15	1.29	5.3	4.6	4.5	0.8	0.14	734
HKEYE-LYS-25**	25	03/25/15	1.64				<0.5		760

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.

** Compliance lysimeter for their respective basin (Specifications A.7, A.10, and A.11 of the Order). The Brooks Basin and Hickory Basin lysimeters are part of alternative monitoring plans; the Brooks Basin lysimeter is only used for compliance with TN, and the Hickory Basin lysimeter is only used for compliance with TOC. Compliance with TOC at Brooks Basin, TN at Hickory Basin, and both constituents at other basins is measured at alternative points (see Table 2-5b)

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)
Limit ==>			16 mg/L	16 mg/L	5 mg/L
01/07/15	4.47	6.8	1.34	0.67	0.9
01/13/15	4.78	5.9	1.43	0.72	0.8
01/21/15	4.35	6.2	1.31	0.65	0.8
01/28/15	4.51	4.3	1.35	0.68	0.6
02/04/15	4.55	6.8	1.37	0.68	0.9
02/11/15	4.54	6.6	1.36	0.68	0.9
02/18/15	4.77	3.9	1.43	0.72	0.5
02/25/15	4.44	5.6	1.33	0.67	0.7
03/04/15	4.66	6.6	1.40	0.70	0.9
03/11/15	4.32	5.9	1.30	0.65	0.8
03/18/15	4.07	7.7	1.22	0.61	1.0
03/25/15	1.39	4.2	0.42	0.21	0.5

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)
Limit ==>			16 mg/L	5 mg/L
01/05/15	6.10	8.8	1.46	4.2
01/12/15	6.03	9.3	1.45	4.5
01/19/15	5.86	8.9	1.41	4.3
01/26/15	6.35	15.0	1.52	7.2
02/02/15	6.35	9.4	1.52	4.5
02/09/15	6.70	12.6	1.61	6.1
02/17/15	6.55	7.9	1.57	3.8
02/23/15	6.05	6.5	1.45	3.1
03/02/15	5.04	6.7	1.21	3.2
03/09/15	5.46	6.9	1.31	3.3
03/16/15	5.41	12.0	1.30	5.7
03/23/15	5.72	3.5	1.37	1.7

RP3 Basin				
Date	RW Blend*	RW Blend*	RP3	RP3
mg/L==>	TOC	TN	TOC (88% reduction)	TN (31% reduction)
Limit ==>			16 mg/L	5 mg/L
01/07/15	4.47	6.8	0.54	4.7
01/13/15	4.78	5.9	0.57	4.1
01/21/15	4.35	6.2	0.52	4.3
01/28/15	4.51	4.3	0.54	3.0
02/04/15	4.55	6.8	0.55	4.7
02/11/15	4.54	6.6	0.54	4.6
02/18/15	4.77	3.9	0.57	2.7
02/25/15	4.44	5.6	0.53	3.9
03/04/15	4.66	6.6	0.56	4.6
03/11/15	4.32	5.9	0.52	4.1
03/18/15	4.07	7.7	0.49	5.3
03/25/15	1.39	4.2	0.17	2.9

8th Street Basin				
Date	RW Blend*	RW Blend*	8th Street	8th Street
mg/L==>	TOC	TN	TOC (59% reduction)	TN (75% reduction)
Limit ==>			16 mg/L	5 mg/L
01/07/15	4.47	6.8	1.83	1.7
01/13/15	4.78	5.9	1.96	1.5
01/21/15	4.35	6.2	1.78	1.6
01/28/15	4.51	4.3	1.85	1.1
02/04/15	4.55	6.8	1.87	1.7
02/11/15	4.54	6.6	1.86	1.7
02/18/15	4.77	3.9	1.96	1.0
02/25/15	4.44	5.6	1.82	1.4
03/04/15	4.66	6.6	1.91	1.7
03/11/15	4.32	5.9	1.77	1.5
03/18/15	4.07	7.7	1.67	1.9
03/25/15	1.39	4.2	0.57	1.0

*The recycled water blend of RP-1 & RP-4 effluent is sampled at the NRG Energy (formerly Reliant Energy) turnout point

Table 2-5b
Alternative Monitoring Plans

San Sevaïne 5 Basin				
Date	RW Blend*	RW Blend*	San Sevaïne 5	San Sevaïne 5
mg/L==>	TOC	TN	TOC (78% reduction)	TN (69% reduction)
Limit ==>			16 mg/L	5 mg/L
01/07/15	4.47	6.8	0.98	2.1
01/13/15	4.78	5.9	1.05	1.8
01/21/15	4.35	6.2	0.96	1.9
01/28/15	4.51	4.3	0.99	1.3
02/04/15	4.55	6.8	1.00	2.1
02/11/15	4.54	6.6	1.00	2.1
02/18/15	4.77	3.9	1.05	1.2
02/25/15	4.44	5.6	0.98	1.7
03/04/15	4.66	6.6	1.03	2.0
03/11/15	4.32	5.9	0.95	1.8
03/18/15	4.07	7.7	0.90	2.4
03/25/15	1.39	4.2	0.31	1.3

Victoria Basin				
Date	RW Blend*	RW Blend*	Victoria	Victoria
mg/L==>	TOC	TN	TOC (78% reduction)	TN (82% reduction)
Limit ==>			16 mg/L	5 mg/L
01/07/15	4.47	6.8	0.98	1.2
01/13/15	4.78	5.9	1.05	1.1
01/21/15	4.35	6.2	0.96	1.1
01/28/15	4.51	4.3	0.99	0.8
02/04/15	4.55	6.8	1.00	1.2
02/11/15	4.54	6.6	1.00	1.2
02/18/15	4.77	3.9	1.05	0.7
02/25/15	4.44	5.6	0.98	1.0
03/04/15	4.66	6.6	1.03	1.2
03/11/15	4.32	5.9	0.95	1.1
03/18/15	4.07	7.7	0.90	1.4
03/25/15	1.39	4.2	0.31	0.7

*The recycled water blend of RP-1 & RP-4 effluent is sampled at the NRG Energy (formerly Reliant Energy) turnout point

Brooks Basin				
Date	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00
mg/L==>	TOC	TN	EC	
01/08/15	4.15	3.4	595	
02/25/15	5.23	4.5	577	
03/11/15	4.81	4.6	550	
Date	BRK-LYS-25	BRK-LYS-25	BRK-LYS-25	BRK-LYS-25
mg/L==>	TOC	TN* (Limit = 5 mg/L)	EC	
01/08/15	3.30	<0.1	903	
02/25/15	3.19	0.2	799	
03/11/15	2.92	0.2	758	
Date	BRK-1/1	BRK-1/1	BRK-1/1	BRK-1/1
mg/L==>	TOC* (Limit = 16 mg/L)	TN	EC	Cl
01/29/15	0.54	1.6	651	101
02/19/15	0.66	1.5	659	103
03/11/15	0.55	1.7	661	105

Hickory Basin		
Date	BH-1/2**	BH-1/2
mg/L==>	TN (Limit - 5 mg/L)	EC
01/22/15	1.9	500
02/19/15	2.9	505
03/11/15	3.4	805

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

**BH-1/2 was approved to be the TN compliance point for Hickory Basin by the RWQCB on 7/29/13

Table 2-6
Diluent Water Monitoring*: Stormwater

Constituent	Declez Channel @ Declez Basin 01/15/15	San Sevaine Creek @ San Sevaine Basins 1-5 01/19/15	Etiwanda Creek @ Etiwanda Debris Basin 02/23/15	Max Level to Trigger Source Water Evaluation	Unit	Method
NO ₂ -N	0.07	<0.02	<0.02	1	mg/L	EPA 300.0
NO ₃ -N	1.9	<0.1	1.8	10	mg/L	EPA 300.0
TDS	384	107	102	420	mg/L	SM 2540C
Total Coliform	22000	50	800	NA	mpn/100ml	SM 9221B
Oil & Grease	<1	<1	<1	NA	mg/L	EPA 1664A
Inorganic Chemicals						
Aluminum	74	428	5240	1000	µg/L	EPA 200.7
Antimony	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic	2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<4.02	<4.02	<6.84	7	MFL	EPA 100.2
Barium	48	30	80	1000	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	4	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	5	µg/L	EPA 200.7
Chromium	2.3	1.6	3.9	50	µg/L	EPA 200.7
Cyanide	<5	<5	<5	150	µg/L	ASTM D7284
Fluoride	0.4	0.1	<0.1	2	mg/L	SM 4500-F C
Mercury	<0.05	<0.05	<0.05	2	µg/L	EPA 245.2
Nickel	3	2	2	100	µg/L	EPA 200.7
Perchlorate	<4	<4	<4	6	µg/L	EPA 314
Selenium	<2	<2	<2	50	µg/L	EPA 200.8
Thallium	<1	<1	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)						
Benzene	<0.5	<0.5	<0.5	1	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	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	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	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	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	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	1200	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	1750	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)						
Alachlor (Alanex)	<0.1	<0.1	<0.1	2	µg/L	EPA 505
Atrazine	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	18	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	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.5	<0.5	<0.5	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.5	<0.5	0.5	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	7	<6	6	700	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 Basin 01/15/15	San Sevaine Creek @ San Sevaine Basins 1-5 01/19/15	Etiwanda Creek @ Etiwanda Debris Basin 02/23/15	Max Level to Trigger Source Water Evaluation	Unit	Method
Heptachlor Epoxide	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.5	<0.5	<0.5	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.5	<0.5	<0.5	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.5	<0.5	<0.5	4	µg/L	EPA 525.2
Thiobencarb	<0.5	<0.5	<0.5	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<2.1	<2.0	<2.1	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Disinfection Byproducts						
Total Trihalomethanes (TTHMs)	<2	<2	2	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	10	<2	<2	60	µg/L	SM 6251B
Bromate	<1	<1	<1	10	µg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	1	mg/L	EPA 300.0
Action Level Chemicals						
Copper	10.3	4.8	5.8	1300	µg/L	EPA 200.7
Lead	0.7	0.7	2.0	15	µg/L	EPA 200.8
Radionuclides						
Combined Radium-226 & Radium 228	<0.672	<0.320	<0.256	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	4	15	pCi/L	EPA 900.0/SM7110C
Tritium	<1000	265	<1000	20,000	pCi/L	EPA 906.0
Strontium-90	<0.412	<0.423	<0.417	8	pCi/L	EPA 905.0
Gross Beta Particle Activity	6.0	<3.0	6.6	50	pCi/L	EPA 900.0
Uranium	1.9	<0.7	<0.7	20	pCi/L	EPA 200.8
Unregulated Chemicals						
Chromium VI	1.30	0.06	0.05	-	µg/L	EPA 218.6
Ethyl tertiary butyl ether	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Tertiary amyl methyl ether	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Chemicals w/ State Notification Levels						
Boron	<0.1	<0.1	<0.1	-	mg/L	EPA 200.7
n-butylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
sec-butylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
tert-butylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Carbon disulfide	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
2-Chlorotoluene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Dichlorodifluoromethane (Freon 12)	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
1,4 - Dioxane	<1	<1	<1	-	µg/L	EPA 522
Isopropylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Methyl isobutyl ketone (MIBK)	<2	<2	<2	-	µg/L	EPA 524.2
N-nitrosodimethylamine (NDMA)	<2	<2	<2	-	ng/l	EPA 521
N-propylbenzene	<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	-	µg/L	EPA 524.2
1,2,4 -trimethylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Vanadium	7	5	12	-	µg/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals						
Aluminum	74	428	5240	1000	µg/L	EPA 200.7
Corrosivity	1.4	-0.7	-3.3	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS)	0.21	<0.05	<0.05	0.5	mg/L	SM 5540C/EPA 425.1
Iron	118	508	5196	300	µg/L	EPA 200.7
Manganese	15	18	78	50	µg/L	EPA 200.7
Odor--Threshold	67	8	8	3	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	100	µg/L	EPA 200.7
Thiobencarb	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Zinc	32	28	25	5000	µg/L	EPA 200.7

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

1Q15 Note: West Fontana Channel was not sampled as there was not enough flow in the channel to be sampled for stormwater.

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
San Seavine Basins	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
	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
Victoria Basin	600462	Unitex 91090	~1601 downgradient	NA	NA	Active	Private Domestic
	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
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 2-8a
Groundwater Monitoring Well Results (Quarterly)

		Sample Location	Date	TOC (mg/L)	Total Coliform (MPN/100mL)	pH	EC (µmho/cm)	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)	Thioben carb (µg/L)	Turbidity (NTU)	Zn (µg/L)	TDS (mg/L)	Cl (mg/L)	Hardness (mg CaCO ₃ /L)	Na (mg/L)	SO ₄ (mg/L)	Nitrogen, Total (mg/L)	NO ₃ -N (mg/L)	NO ₂ -N (mg/L)	Dissolved Oxygen (mg/L)
Banana & Hickory	Fontana Water Co. - F37a	02/05/15	0.19	<1.1	7.7	499	<25	<3	0.8	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.55	2	374	23	216	18	25	12.9	0.17	12.7	5.18	
	California Speedway - Infield Well	03/24/15	0.32	<1.1	7.6	615	<25	<3	1.2	0.5	<0.05	23	<1	<0.5	<1	<0.25	<0.2	0.20	1	442	32	268	23	78	10.3	0.16	9.3	7.20	
	California Speedway 2	03/24/15	0.15	<1.1	7.6	419	<25	<3	1.1	0.2	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.05	1	290	16	181	19	19	5.8	0.16	5.6	7.10	
	Reliant Energy - East Well	03/17/15	0.28	<1.1	7.7	269	104	<3	3.2	0.0	<0.05	231	12	<0.5	1	<0.25	<0.2	1.20	3	262	15	149	22	14	7.6	0.16	7.4	6.68	
	Ontario Well No. 20	02/10/15	0.12	<1.1	7.5	365	<25	<3	0.8	0.5	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.10	<1	268	9	179	14	6	3.1	0.20	2.4	5.20	
	BH-1/2	01/22/15	0.38	3.6	7.8	525	<25	<3	0.8	0.3	<0.05	<15	2	<0.5	1	<0.25	<0.2	1.30	<1	370	75	221	27	29	2.6	<0.02	2.0	4.99	
Turner	Ontario Well No. 25	02/10/15	0.20	<1.1	7.4	433	<25	<3	0.5	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.05	<1	322	18	185	22	16	5.7	0.19	4.7	4.80	
	Ontario Well No. 29	02/10/15	0.13	<1.1	7.6	429	<25	<3	<0.5	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.30	<1	258	6	138	21	12	1.4	0.18	1.2	5.30	
	Ontario Well No. 38	02/10/15	0.13	<1.1	7.5	344	<25	<3	<0.5	0.4	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.10	<1	242	8	159	18	9	2.9	0.18	2.0	6.30	
	T-1/2	01/20/15	0.98	<1.1	7.4	696	<25	<3	1.1	0.4	<0.05	<15	2	<0.5	1	<0.25	<0.2	1.40	<1	450	113	297	28	40	<0.6	<0.02	0.2	2.49	
	T-2/1	01/20/15	0.66	<1.1	7.4	700	<25	<3	1.4	0.1	<0.05	<15	2	<0.5	<1	<0.25	<0.2	3.30	<1	468	106	266	36	49	4.0	<0.02	3.5	3.65	
	T-2/2	03/12/15	0.50	<1.1	7.4	672	<25	<3	1.4	0.1	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.30	<1	450	101	260	34	41	3.4	0.15	3.2	4.40	
RP3	Southridge JHS	03/18/15	0.50	<1.1	7.6	929	<25	5	2.1	0.1	<0.05	<15	2	<0.5	1	<0.25	<0.2	2.50	3	630	95	349	54	76	17.0	0.20	16.8	5.67	
	Fontana Water Co. - F23a	02/05/15	0.17	<1.1	7.2	451	<25	<3	0.6	0.4	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.10	<1	310	27	200	21	23	8.9	0.13	8.8	5.00	
	Alcoa MW1	03/23/15	0.34	<1.1	7.5	589	<25	<3	0.6	0.3	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.50	<1	418	25	240	27	43	16.9	0.18	16.2	6.00	
	Alcoa MW3	03/02/15	0.38	<1.1	7.1	969	<25	<3	1.1	0.6	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.45	<1	668	92	375	48	52	18.9	0.25	18.6	5.50	
	RP3-1/1	01/22/15	0.70	1.1	7.3	724	<25	<3	1.7	0.2	<0.05	<15	36	<0.5	1	1.00	<0.2	1.40	<1	506	106	262	50	42	3.9	<0.02	3.3	0.45	
	RP3-1/2	02/03/15	0.94	<1.1	7.2	723	<25	5	2.3	0.1	<0.05	<15	223	<0.5	1	<0.25	<0.2	1.00	<1	480	106	249	49	43	2.6	0.25	2.3	0.86	
8th Street	8TH-1/1	03/10/15	0.51	<1.1	7.3	609	<25	25	2.8	0.0	<0.05	60	22	<0.5	2	<0.25	<0.2	33.0	5	418	104	267	17	35	3.1	0.12	3.0	6.20	
	8TH-1/2	02/12/15	0.35	<1.1	7.9	386	<25	5	0.7	0.3	<0.05	<15	6	<0.5	1	<0.25	<0.2	5.00	<1	276	34	148	25	16	1.8	0.17	1.6	5.40	
	8TH-2/1	02/11/15	0.22	<1.1	7.4	524	<25	<3	<0.5	0.1	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.05	<1	422	16	252	17	33	21.6	0.15	21.4	6.90	
	8TH-2/2	02/18/15	0.38	<1.1	7.6	381	<25	<3	<0.5	0.0	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.10	2	276	20	170	16	30	6.5	0.15	6.3	7.50	
Brooks	Pomona Well No. 10	03/12/15	0.37	<1.1	7.9	505	<25	<3	0.6	0.4	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.10	2	400	39	234	12	39	7.2	0.17	7.0	6.50	
	Pomona Well No. 2	03/12/15	0.18	<1.1	7.8	586	<25	<3	1.4	0.5	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.05	2	338	39	283	14	56	10.7	0.17	10.5	5.50	
	Pomona Well No. 34	03/12/15	0.14	<1.1	7.7	549	<25	<3	0.6	0.4	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.20	<1	372	31	256	12	41	14.3	0.18	14.1	7.00	
	BRK-1/1	01/29/15	0.54	<1.1	7.5	651	<25	<3	0.9	0.3	<0.05	<15	3	<0.5	1	0.33	<0.2	0.70	<1	454	101	280	21	35	1.6	0.11	1.5	4.71	
	BRK-1/2	02/02/15	0.20	<1.1	7.6	586	<25	<3	<0.5	0.5	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.13	<1	416	22	287	16	47	21.6	0.18	21.4	7.22	
	BRK-2/1	02/26/15	0.32	<1.1	7.3	559	<25	10	<0.5	0.4	<0.05	<15	1	<0.5	2	<0.25	<0.2	5.20	<1	378	47	281	12	37	5.8	0.15	5.6	4.00	
Ely	BRK-2/2	02/26/15	0.28	<1.1	8.3	310	<25	<3	0.9	0.4	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.15	<1	202	6	95	34	18	6.1	0.14	5.4	4.00	
	Ely Basin MW1 Philadelphia St.	03/05/15	0.96	<1.1	7.2	676	<25	5	0.8	0.2	<0.05	22	52	<0.5	2	<0.25	<0.2	4.30	<1	418	100	263	36	45	1.7	0.18	1.5	0.80	
	Ely Basin MW2 Walnut St.	03/09/15	0.70	<1.1	7.1	1200	<25	<3	1.2	0.4	0.07	<15	13	<0.5	1	<0.25	<0.2	0.45	2	780	85	575	36	80	32.2	0.25	31.9	2.70	
	Riverside Well (43840-CWW)	02/12/15	0.27	<1.1	7.7	568	<25	5	0.6	0.5	<0.05	<15	3	<0.5	1	<0.25	<0.2	0.15	53	414	29	274	22	34	11.9	0.21	11.0	5.20	
Victoria & San Sevaime	Bishop of SB Corp. - DOM	02/24/15	0.35	<1.1	7.6	749	<25	<3	1.8	0.7	<0.05	95	4	<0.5	1	<0.25	<0.2	0.20	2	488	37	349	23	57	20.1	0.20	19.9	5.20	
	SS-1/1	02/04/15	0.22	<1.1	7.3	260	<25	<3	<0.5	0.0	<0.05	<15	<1	<0.5	1	<0.25	<0.2	5.80	<1	210	11	102	15	22	2.7	0.14	2.6	5.05	
	VCT-1/1	02/03/15	0.40	<1.1	7.2	535	<25	5	0.8	0.0	<0.05	49	2	<0.5	1	<0.25	<0.2	4.05	2	326	85	220	21	22	0.9	0.13	0.8	5.30	
	VCT-2/2	03/17/15	0.14	1.1	7.7	277	<25	<3	<0.5	0.0	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.20	4	206	6	105	17	9	3.1	0.16	2.9	5.70	
	CVWD Well No. 39	03/16/15	<0.1	<1.1	7.7	280	<25	<3	1.2	0.1	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.20	<1	192	5	100	22	10	3.1	0.17	2.4	4.80	
	CVWD Well No. 43	03/16/15	<0.1	<1.1	7.6	334	<25	<3	2.9	0.1	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.05	2	226	8	132	19	14	3.3	0.18	3.1	5.50	
Declez**	Unitex 91090	03/02/15	0.23	1.1	7.8	389	<25	<3	0.6	0.1	<0.05	89	2	<0.5	1	<0.25	<0.2	0.55	2	266	29	172	14	28	2.5	0.16	1.7	5.60	
	JCSD Well No. 13	03/19/15	0.34	<1.1	7.8	682	<25	<3	0.9	0.4	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.10	1	508	101	266	28	27	7.6	0.14	7.5	5.60	

Blank cells indicate that analysis was not run for a constituent on that particular date. On certain dates, supplemental analysis was conducted on several monitoring wells. On those occasions, a full set of analysis was not necessary and only parameters of interest were analyzed.

* Total dissolved metals reported for these wells. The remaining wells report total recoverable metals values. Please note Fontana Water Co. Well No. 37A is a municipal well that has not been in production since May 2005 and is currently only used for monitoring.

** Recycled water delivery has not been initiated at this basin. Data collected and reported is for background monitoring purposes only and will not be discussed in report text until the basin starts receiving recycled water.

NS - No sample. Original

Table 2-8b
Groundwater Monitoring Well Results (Annual)

Constituent	Ely Basin MW-1 03/05/15	Ely Basin MW-2 03/09/15	SS-1/1 02/04/15	VCT-1/1 02/03/15	VCT-2/2 03/17/15	MCL	Unit	Method
Inorganic Chemicals								
Asbestos	<0.2	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<0.005	<0.005	<0.005	0.0005	<0.005	150	mg/L	SM 4500-CN E/ASTM D7284
Perchlorate	<4	<4	<4	<4	<4	6	µg/L	EPA 314
Mercury	<0.05	<0.05	*	<0.05	<0.05	2	µg/L	EPA 245.2
Fluoride	0.2	0.2	0.2	0.1	0.2	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Barium, Dissolved	75	145	42	108	42	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Dissolved	<0.5	1.2	1.0	0.9	1.9	50	µg/L	EPA 200.8
Copper, Dissolved	0.8	1.2	<0.5	0.8	<0.5	1300	µg/L	EPA 200.8
Iron, Dissolved	22	<15	<15	49	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	3	5	<1	8	<1	100	µg/L	EPA 200.8
Manganese, Dissolved	52	13	<1	2	<1	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	<1	2	<1	2	4	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	<1	1750	µg/L	EPA 524.2

Table 2-8b
Groundwater Monitoring Well Results (Annual)

Constituent	Ely Basin MW-1 03/05/15	Ely Basin MW-2 03/09/15	SS-1/1 02/04/15	VCT-1/1 02/03/15	VCT-2/2 03/17/15	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	<0.05	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	<0.02	<0.02	<0.02	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	<1	<1	<1	<1	<1	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	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	<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
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	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	<0.05	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	<0.1	<0.1	<0.1	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	0.07	<0.05	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.2	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
Notification Level Chemicals								
Copper, Dissolved	0.8	1.2	<0.5	0.8	<0.5	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 and Radium 228	<0.30	<0.72	<0.27	0.26	<0.30	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	<3	11	<3	4	<3	15	pCi/l	EPA 900.0
Tritium	<1000	<1000	<328	<1000	<1000	20,000	pCi/l	EPA 906
Strontium-90	<0.40	<0.50	<0.39	<0.54	<0.67	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	4	<3	5	<3	50	pCi/l	EPA 900.0
Uranium	0.7	11.8	<0.7	<0.7	<0.7	20	pCi/l	EPA 200.8

Bold signifies an exceedance of an Maximum Contaminant Level. Explained in further detail in the report text.

*Mercury was not run on this sample during 1Q15. A sample will be collected and mercury will be reported in the 2Q15 report.

Table 2-8b
Groundwater Monitoring Well Results (Annual)

	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2			
Constituent	03/10/15	02/12/15	02/11/15	02/18/15	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<0.005	<0.005	<0.005	<0.005	150	mg/L	SM 4500-CN E/ASTM D7284
Perchlorate	<4	<4	7	<4	6	µg/L	EPA 314
Mercury	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 245.2
Fluoride	0.3	0.3	0.3	0.4	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<2	<2	<2	<2	10	µg/L	EPA 200.8
Barium, Dissolved	49	40	52	35	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	0.35	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Dissolved	2.4	1.8	2.8	2.7	50	µg/L	EPA 200.8
Copper, Dissolved	2.8	0.7	<0.5	<0.5	1300	µg/L	EPA 200.8
Iron, Dissolved	60.3	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	554	67	1	1	100	µg/L	EPA 200.8
Manganese, Dissolved	22	6	<1	<1	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	5	<1	<1	2	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2

Table 2-8b
Groundwater Monitoring Well Results (Annual)

	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2			
Constituent	03/10/15	02/12/15	02/11/15	02/18/15	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	0.06	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<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	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	0.02	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<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	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper, Dissolved	2.8	0.7	<0.5	<0.5	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides							
Combined Radium-226 and Radium 228	0.48	<0.63	0.380	<0.18	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	5	<3	<3	<3	15	pCi/l	EPA 900.0
Tritium	<294	<1000	<1000	<1000	20,000	pCi/l	EPA 906
Strontium-90	<0.40	<0.37	<0.53	<0.36	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	3	<3	<3	50	pCi/l	EPA 900.0
Uranium	1.3	1.1	1.6	0.8	20	pCi/l	EPA 200.8

Bold signifies an exceedance of an Maximum Contaminant Level. Explained in further detail in the report text.

Table 2-8b
Groundwater Monitoring Well Results (Annual)

	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2			
Constituent	01/29/15	02/02/15	02/26/15	02/26/15	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<0.005	<0.005	<0.005	<0.005	150	mg/L	SM 4500-CN E/ASTM D7284
Perchlorate	<4	13	<4	<4	6	µg/L	EPA 314
Mercury	<0.05	*	<0.05	<0.05	2	µg/L	EPA 245.2
Fluoride	0.2	0.2	0.2	0.1	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<2	<2	<2	<2	10	µg/L	EPA 200.8
Barium, Dissolved	35	70	35	43	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Dissolved	1.0	6.4	3.2	7.4	50	µg/L	EPA 200.8
Copper, Dissolved	0.9	<0.5	<0.5	0.9	1300	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	29	3	31	7	100	µg/L	EPA 200.8
Manganese, Dissolved	3	<1	1	<1	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	0.33	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	<1	<1	<1	<1	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	0.8	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2

Table 2-8b
Groundwater Monitoring Well Results (Annual)

	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2			
Constituent	01/29/15	02/02/15	02/26/15	02/26/15	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA531.2
Chlordane	<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	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	0.06	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<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	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper, Dissolved	0.9	<0.5	<0.5	0.9	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides							
Combined Radium-226 and Radium 228	<0.25	<0.23	<0.30	<0.24	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	<3	7	<3	<3	15	pCi/l	EPA 900.0
Tritium	<379	<325	<1000	<1000	20,000	pCi/l	EPA 906
Strontium-90	<0.52	<0.40	<0.57	<0.46	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	<3	6	<3	50	pCi/l	EPA 900.0
Uranium	1.7	1.4	1.7	<0.7	20	pCi/l	EPA 200.8

Bold signifies an exceedance of an Maximum Contaminant Level. Explained in further detail in the report text.

*Mercury was not run on this sample during 1Q15. A sample will be collected and mercury will be reported in the 2Q15 report.

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 Savaine	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP3	San Savaine	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP3	San Savaine	Turner	Victoria
Apr-14	0	0	0	0	10	38	0	0	0	79	2	14	83	23	47	17	61	15	21	88	65	218	379	49	2	105	250
May-14	0	0	0	0	0	0	0	0	0	26	0	0	9	33	3	0	44	2	65	194	0	241	292	0	12	304	214
Jun-14	0	0	0	0	0	0	0	0	0	24	0	19	15	2	6	0	35	2	52	190	48	186	212	172	0	86	144
2Q14 Total	0	0	0	0	10	38	0	0	0	129	2	33	107	57	56	17	140	18	137	472	113	645	883	221	13	495	607
Jul-14	0	0	0	0	0	0	0	0	0	25	0	0	16	0	9	0	11	2	8	0	72	101	118	184	0	0	91
Aug-14	0	0	0	0	0	0	0	0	0	15	0	7	16	0	23	6	76	5	8	82	141	8	82	192	0	205	107
Sep-14	0	0	0	0	0	0	0	0	0	14	0	1	15	0	40	1	54	2	32	72	157	121	236	243	1	128	155
3Q14 Total	0	0	0	0	0	0	0	0	0	53	0	9	46	0	72	7	142	9	48	153	369	231	436	619	1	333	353
Oct-14	0	0	0	0	0	0	0	0	0	0	0	6	16	0	25	0	39	3	0	206	56	286	226	335	0	63	75
Nov-14	0	0	0	0	0	0	0	0	0	146	7	28	170	0	112	18	108	57	0	173	37	70	272	250	0	58	4
Dec-14	0	0	0	0	0	0	0	0	0	353	145	95	392	185	419	246	603	153	0	67	0	5	46	6	0	2	0
4Q14 Total	0	0	0	0	0	0	0	0	0	499	152	129	578	185	555	264	750	213	0	445	93	361	544	592	0	123	79
Jan-15	0	0	0	0	0	0	0	0	0	110	24	19	44	8	132	-5	121	18	0	144	10	183	194	29	0	0	63
Feb-15	0	0	0	0	0	0	0	0	0	42	16	27	72	47	94	39	157	40	0	47	92	222	180	243	0	113	57
Mar-15	0	0	0	0	0	0	0	0	0	43	2	13	15	0	69	2	123	12	0	80	69	157	115	325	0	298	79
1Q15 Total	0	0	0	0	0	0	0	0	0	194	42	58	131	55	295	36	401	70	0	272	171	562	489	597	0	412	199

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)
2Q14	Apr-14	0.0	0.7	320	0	14.0	370	(566)	(12,463)	(297,960)
	May-14	0.0	0.7	320	15	14.0	370	(580)	(12,718)	(304,697)
	Jun-14	0.0	0.7	320	18	14.0	370	(598)	(13,022)	(312,739)
3Q14	Jul-14	0.0	0.7	320	25	14.0	370	(623)	(13,460)	(324,306)
	Aug-14	0.0	0.7	320	14	14.0	370	(637)	(13,703)	(330,751)
	Sep-14	0.0	0.7	320	0	14.0	370	(637)	(13,703)	(330,751)
4Q14	Oct-14	0.0	0.7	320	0	14.0	370	(637)	(13,703)	(330,751)
	Nov-14	0.0	0.7	320	45	14.0	370	(682)	(14,474)	(351,127)
	Dec-14	0.0	0.7	320	14	14.0	370	(696)	(14,711)	(357,389)
1Q15	Jan-15	0.0	0.7	320	61	14.0	370	(756)	(15,759)	(385,087)
	Feb-15	0.0	0.7	320	47	14.0	370	(803)	(16,563)	(406,321)
	Mar-15	0.0	0.7	320	40	14.0	370	(843)	(17,253)	(424,569)

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)
2Q14	Apr-14	0.0	0.7	320	0	3.5	310	542	(2,846)	86,550
	May-14	0.0	0.7	320	0	3.5	310	542	(2,846)	86,550
	Jun-14	0.0	0.7	320	187	3.5	310	356	(3,639)	15,211
3Q14	Jul-14	0.0	0.7	320	274	3.5	310	81	(4,806)	(89,601)
	Aug-14	0.0	0.7	320	241	3.5	310	(160)	(5,832)	(181,778)
	Sep-14	0.0	0.7	320	2	3.5	310	(161)	(5,839)	(182,425)
4Q14	Oct-14	0.0	0.7	320	0	3.5	310	(161)	(5,839)	(182,425)
	Nov-14	0.0	0.7	320	0	3.5	310	(162)	(5,841)	(182,593)
	Dec-14	0.0	0.7	320	0	3.5	310	(162)	(5,841)	(182,593)
1Q15	Jan-15	0.0	0.7	320	0	3.5	310	(162)	(5,841)	(182,593)
	Feb-15	0.0	0.7	320	0	3.5	310	(162)	(5,841)	(182,593)
	Mar-15	0.0	0.7	320	0	3.5	310	(162)	(5,841)	(182,593)

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)
2Q14	Apr-14	0.0	0.7	320	0	3.5	340	(3,606)	(11,015)	(987,407)
	May-14	0.0	0.7	320	0	3.5	340	(3,606)	(11,015)	(987,407)
	Jun-14	0.0	0.7	320	37	3.5	340	(3,643)	(11,173)	(1,002,771)
3Q14	Jul-14	0.0	0.7	320	0	3.5	340	(3,643)	(11,173)	(1,002,771)
	Aug-14	0.0	0.7	320	0	3.5	340	(3,643)	(11,173)	(1,002,771)
	Sep-14	0.0	0.7	320	0	3.5	340	(3,643)	(11,173)	(1,002,771)
4Q14	Oct-14	0.0	0.7	320	0	3.5	340	(3,643)	(11,173)	(1,002,771)
	Nov-14	0.0	0.7	320	3	3.5	340	(3,646)	(11,187)	(1,004,068)
	Dec-14	0.0	0.7	320	0	3.5	340	(3,646)	(11,187)	(1,004,068)
1Q15	Jan-15	0.0	0.7	320	0	3.5	340	(3,646)	(11,187)	(1,004,068)
	Feb-15	0.0	0.7	320	0	3.5	340	(3,646)	(11,187)	(1,004,068)
	Mar-15	0.0	0.7	320	0	3.5	340	(3,646)	(11,187)	(1,004,068)

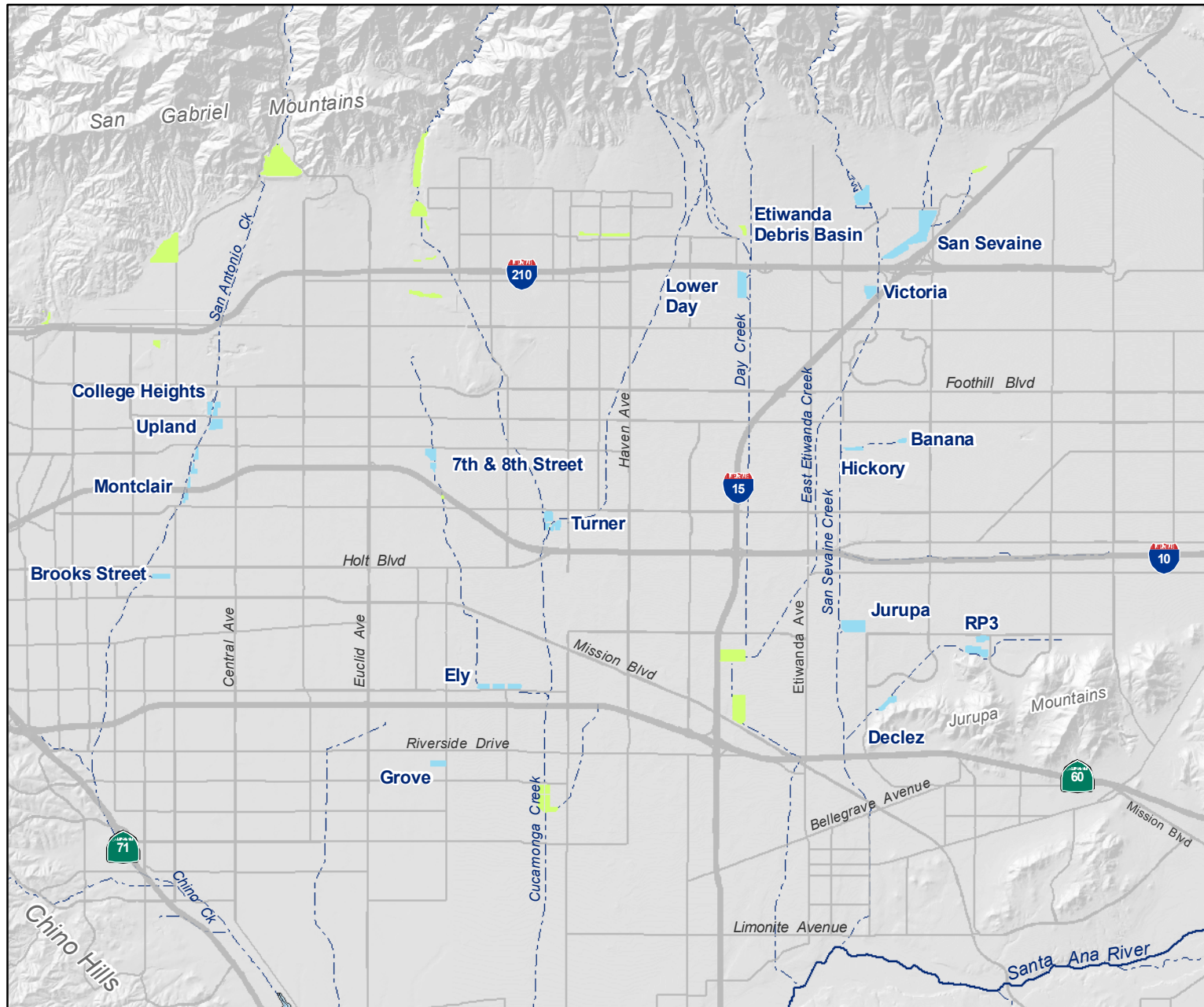
The injected water is WFA-treated water, which meets CCR Title 22 drinking water standards.

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

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)
2Q14	Apr-14	0.0	0.7	320	31	3.5	370	(1,053)	(4,680)	(493,152)
	May-14	0.0	0.7	320	48	3.5	370	(1,101)	(4,885)	(514,897)
	Jun-14	0.0	0.7	320	0	3.5	370	(1,101)	(4,885)	(514,897)
3Q14	Jul-14	0.0	0.7	320	155	3.5	370	(1,256)	(5,553)	(585,446)
	Aug-14	0.0	0.7	320	0	3.5	370	(1,256)	(5,553)	(585,446)
	Sep-14	0.0	0.7	320	0	3.5	370	(1,256)	(5,553)	(585,446)
4Q14	Oct-14	0.0	0.7	320	0	3.5	370	(1,256)	(5,553)	(585,455)
	Nov-14	0.0	0.7	320	0	3.5	370	(1,256)	(5,553)	(585,455)
	Dec-14	0.0	0.7	320	0	3.5	370	(1,256)	(5,553)	(585,455)
1Q15	Jan-15	0.0	0.7	320	3	3.5	370	(1,259)	(5,566)	(586,833)
	Feb-15	0.0	0.7	320	23	3.5	370	(1,281)	(5,664)	(597,190)
	Mar-15	0.0	0.7	320	0	3.5	370	(1,281)	(5,664)	(597,190)

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

Total Project (All Wells)					
	Date		Mass Balance		
			Storage (AF)	TIN (kg)	TDS (kg)
2Q14	Apr-14		(4,683)	(31,003)	(1,691,969)
	May-14		(4,745)	(31,464)	(1,720,451)
	Jun-14		(4,986)	(32,720)	(1,815,197)
3Q14	Jul-14		(5,440)	(34,992)	(2,002,124)
	Aug-14		(5,695)	(36,261)	(2,100,746)
	Sep-14		(5,697)	(36,268)	(2,101,393)
4Q14	Oct-14		(5,697)	(36,269)	(2,101,402)
	Nov-14		(5,745)	(37,055)	(2,123,242)
	Dec-14		(5,759)	(37,292)	(2,129,504)
1Q15	Jan-15		(5,822)	(38,353)	(2,158,580)
	Feb-15		(5,892)	(39,254)	(2,190,171)
	Mar-15		(5,932)	(39,945)	(2,208,420)



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

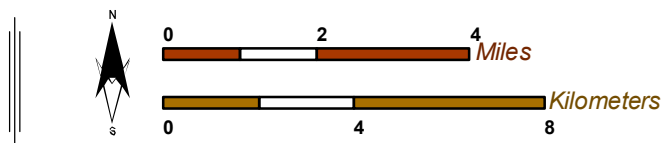
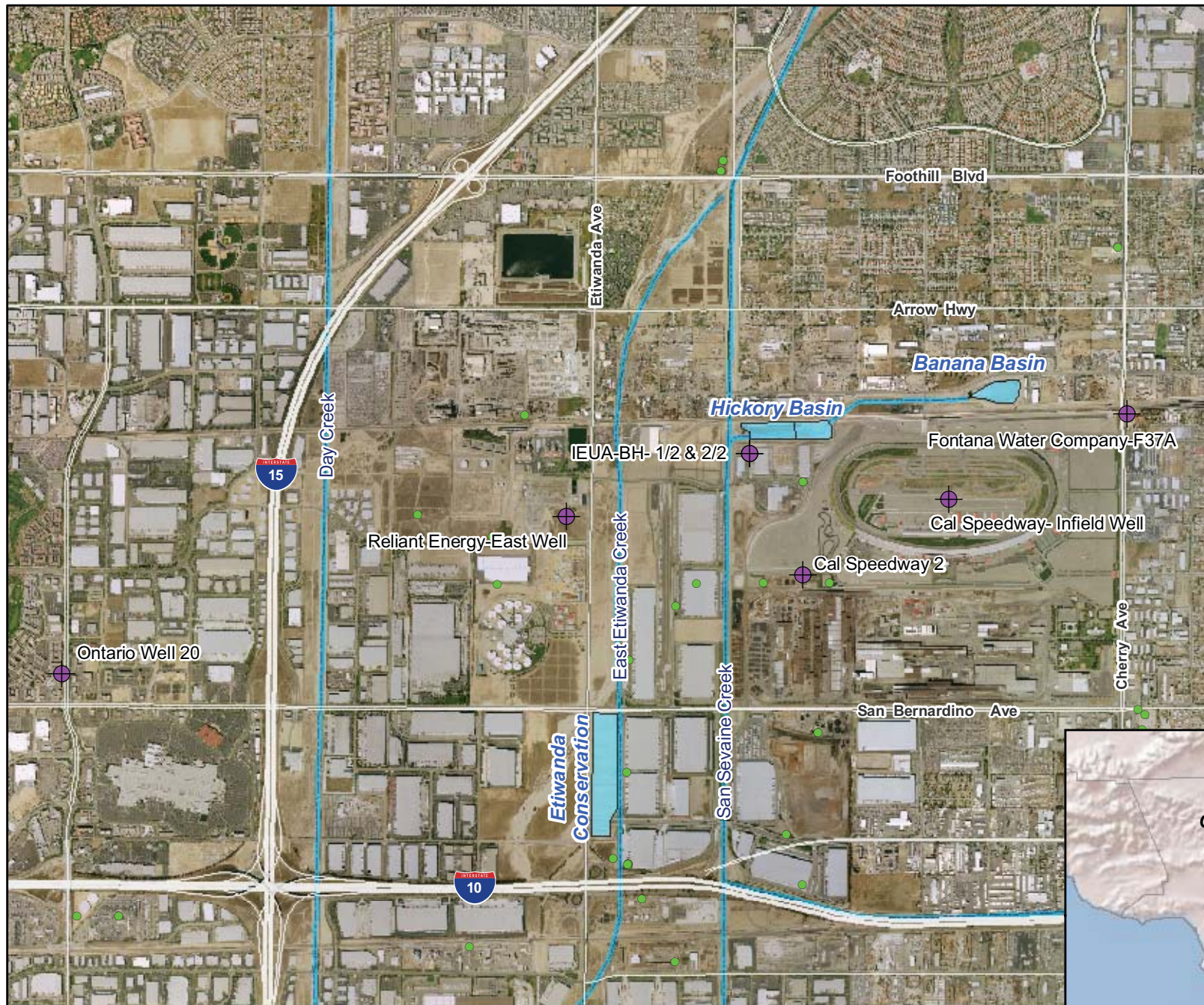


Figure 1-1



Main Map Features

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

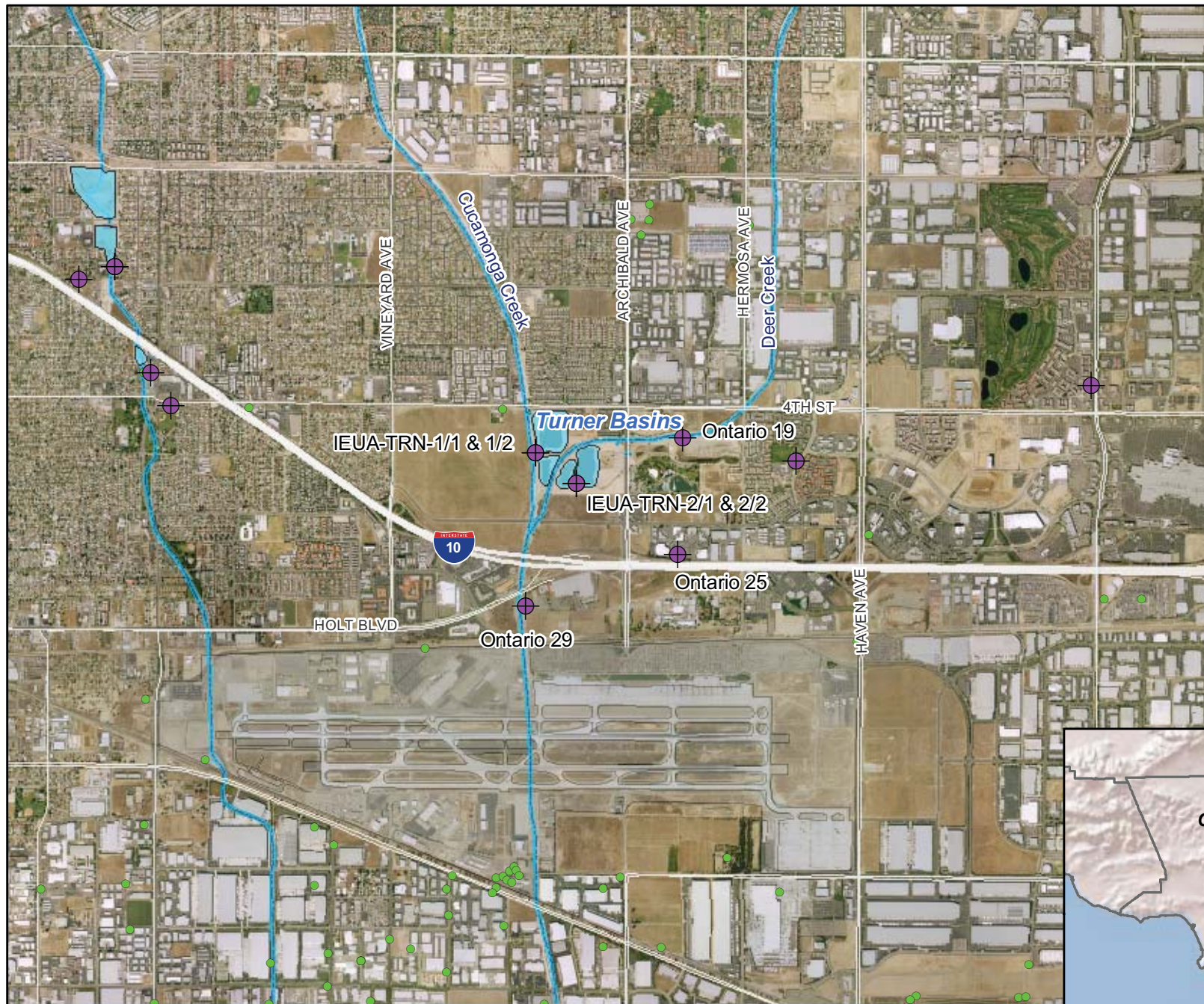


Monitoring Well Network
Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program





Main Map Features

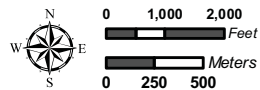
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

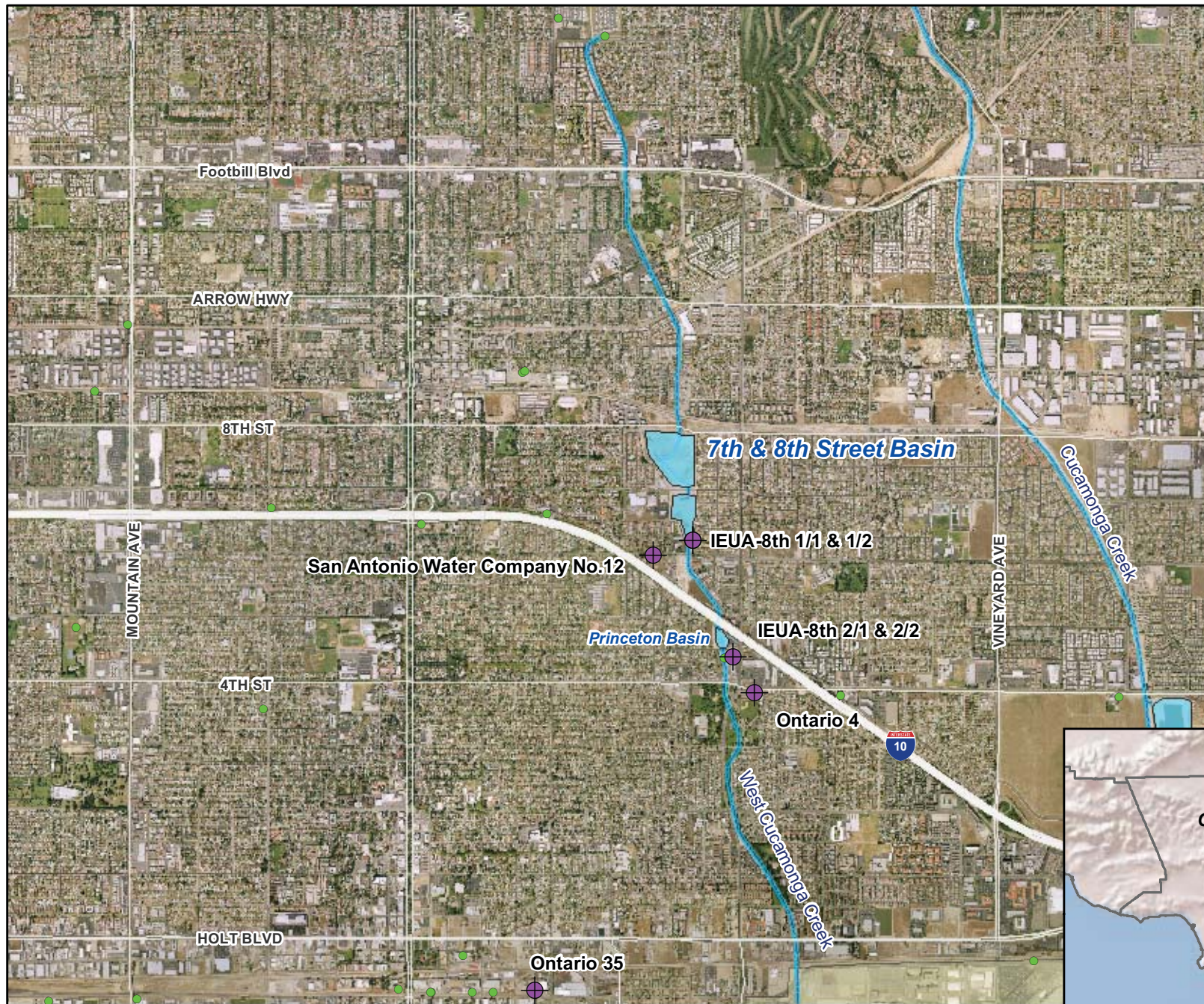


Monitoring Well Network
Turner Basins

Figure 2-2

Recycled Water Recharge Program





Main Map Features

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

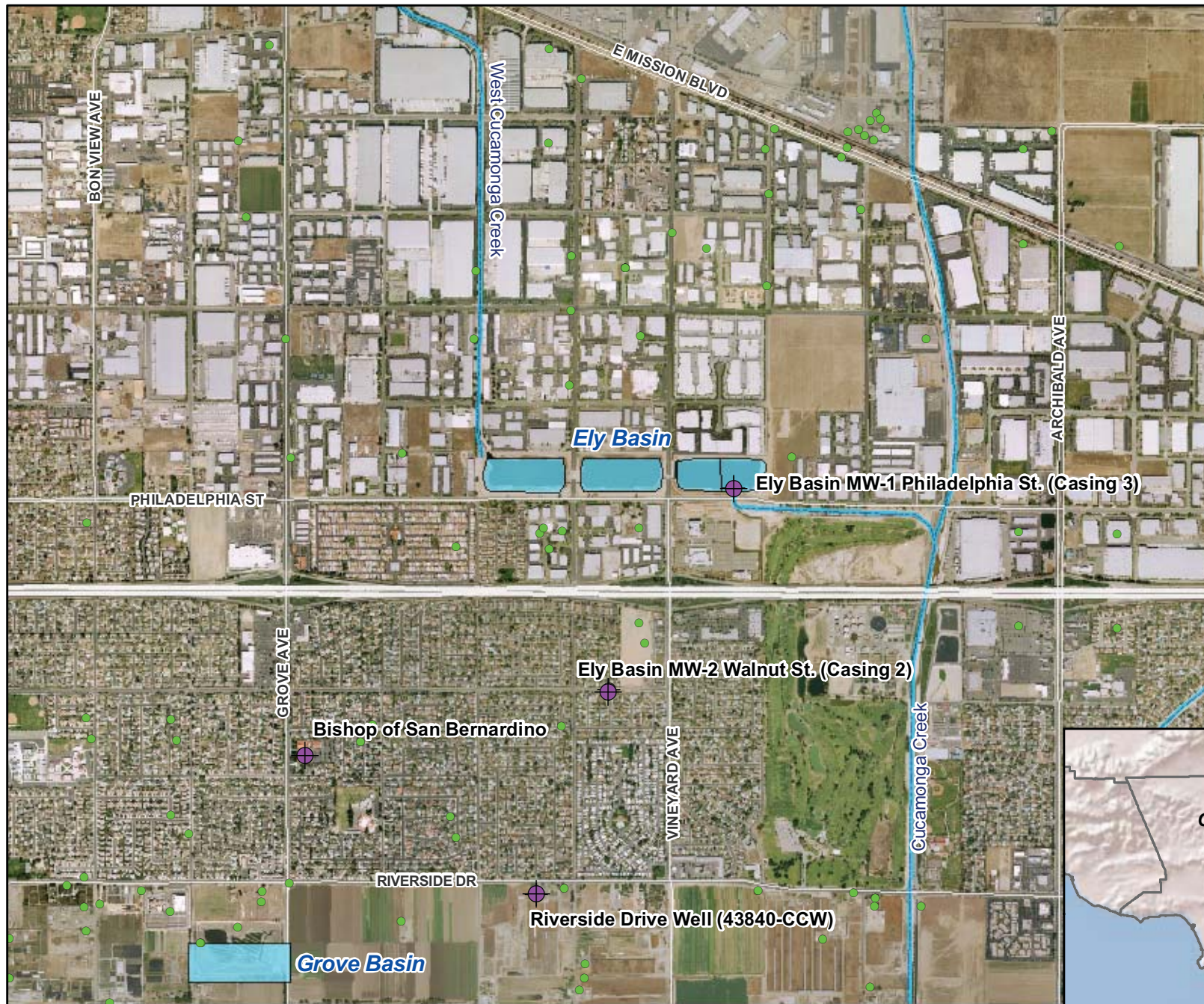


Monitoring Well Network
7th and 8th Street Basin

Figure 2-3

Recycled Water Recharge Program





Main Map Features

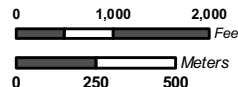
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

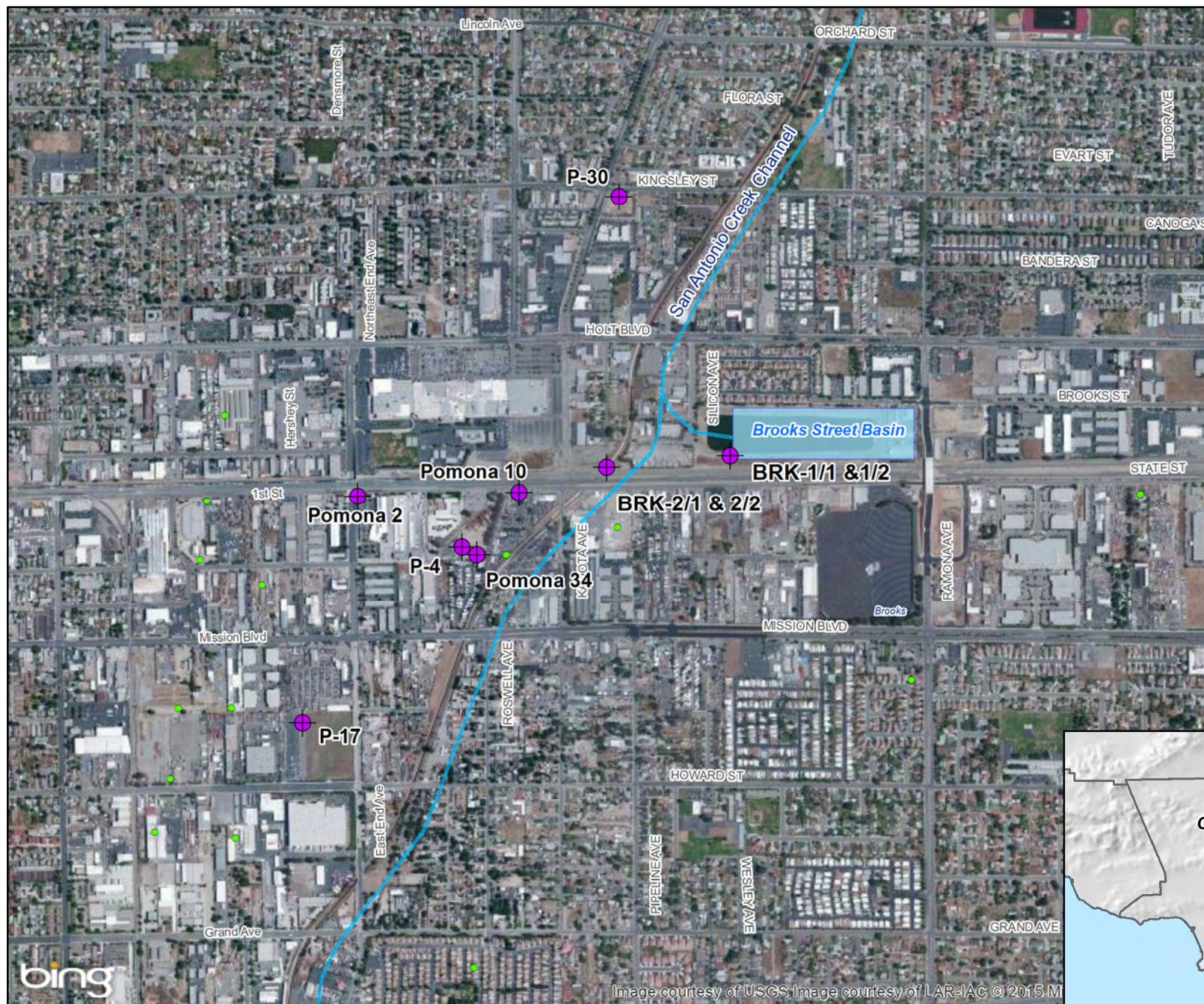


Monitoring Well Network
Ely Basins

Figure 2-4

Recycled Water Recharge Program





Main Map Features

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

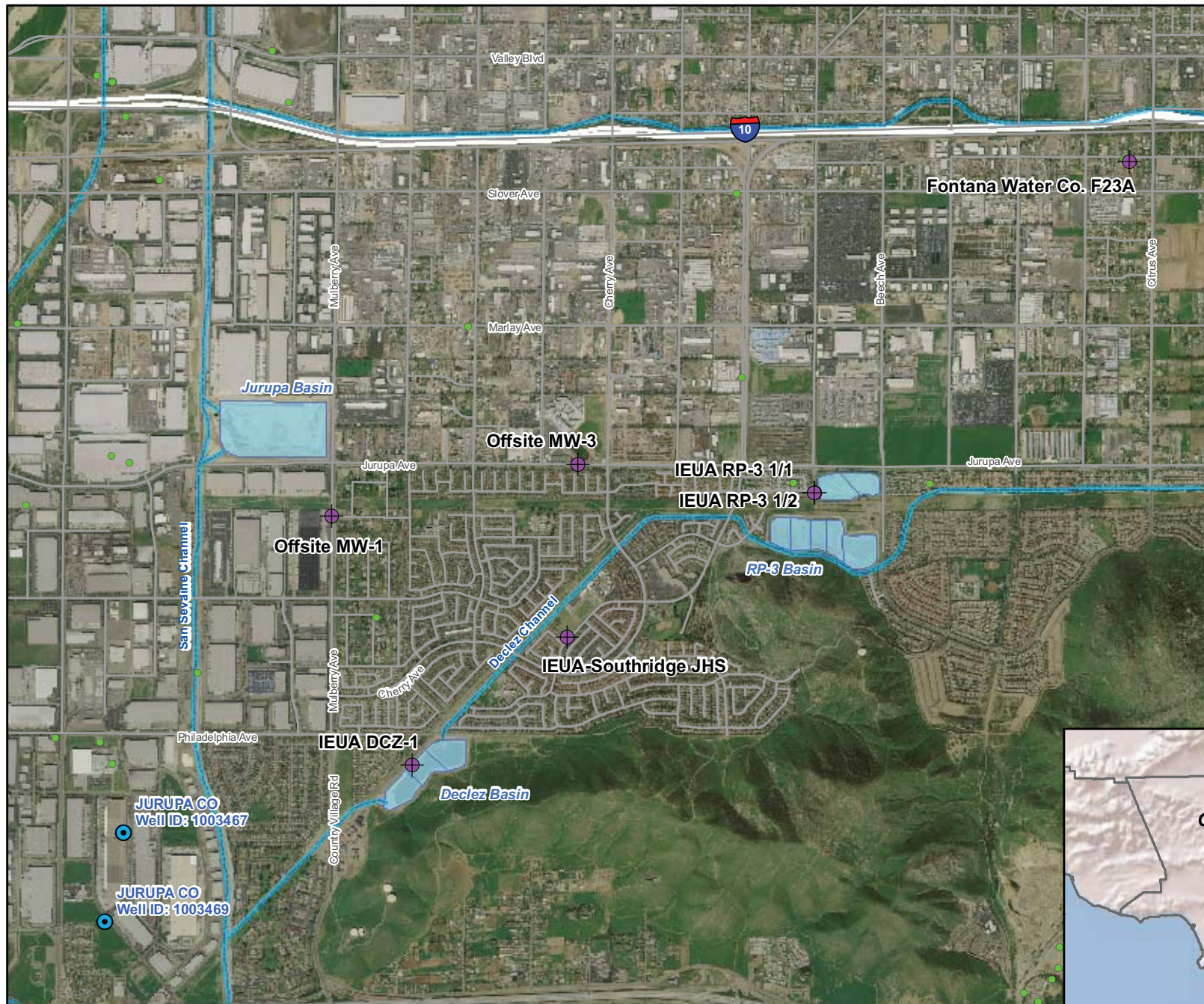


Monitoring Well Network
Brooks Street Basin

Figure 2-5

Recycled Water Recharge Program





Main Map Features

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

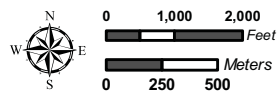


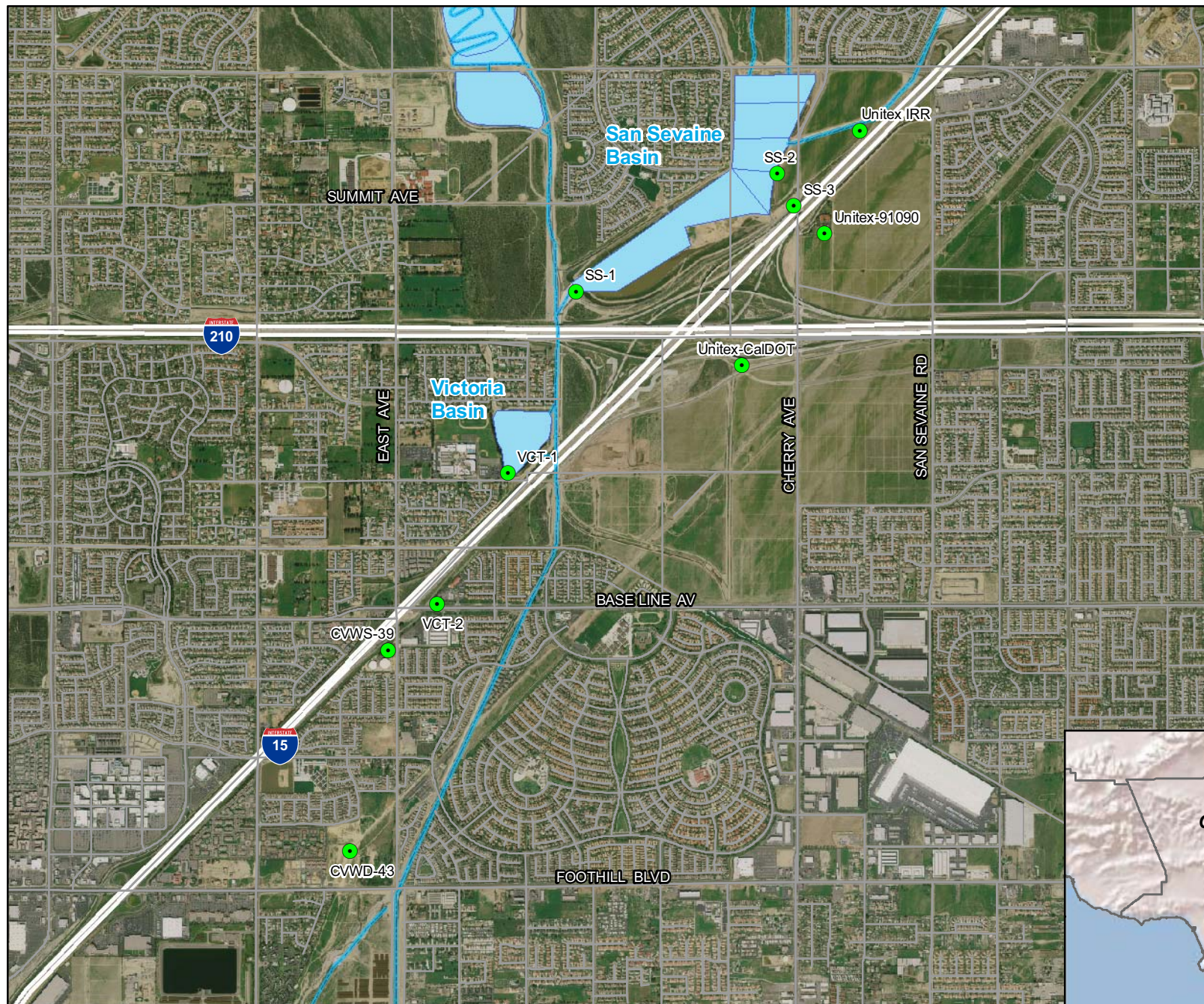
Monitoring Well Network

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 Sevaïne and Victoria Basin

Figure 2-7

Recycled Water Recharge Program

