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Executive Manager of Operations

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November 15, 2007

Regional Water Quality Control Board, Santa Ana Region

Attention: Mr. Gerard Thibeault

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

**Subject: Chino Basin Recycled Water Groundwater Recharge Program
Quarterly Monitoring Report for July through September 2007**

Dear Mr. Thibeault,

The Inland Empire Utilities Agency (IEUA) and the Chino Basin Watermaster (Watermaster) hereby submit the *Quarterly Monitoring Report* for the third quarter of 2007 (3Q07), July 1 through September 30, 2007, for the *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.

The monitoring results for 3Q07 show that the Groundwater Recharge Program was in compliance with all primary maximum contaminant levels (MCLs).

Furthermore, the Chino Basin Watermaster hereby certifies that, during the period of July 1 through September 30, 2007, there was no reported pumping for drinking water purposes in the buffer zones extending 500 feet laterally and 6 months underground travel time of the recharge sites using recycled water, namely Banana, Hickory, Turner, 7th & 8th Street, and Ely Basins. In point of fact, there are no production wells in the buffer zones of the aforementioned recharge sites.

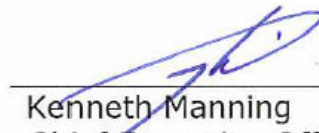
DECLARATION

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

Executed on the 13th day of November 2007 in the Cities of Chino and Rancho Cucamonga.



Patrick Shields
Executive Manager of Operations

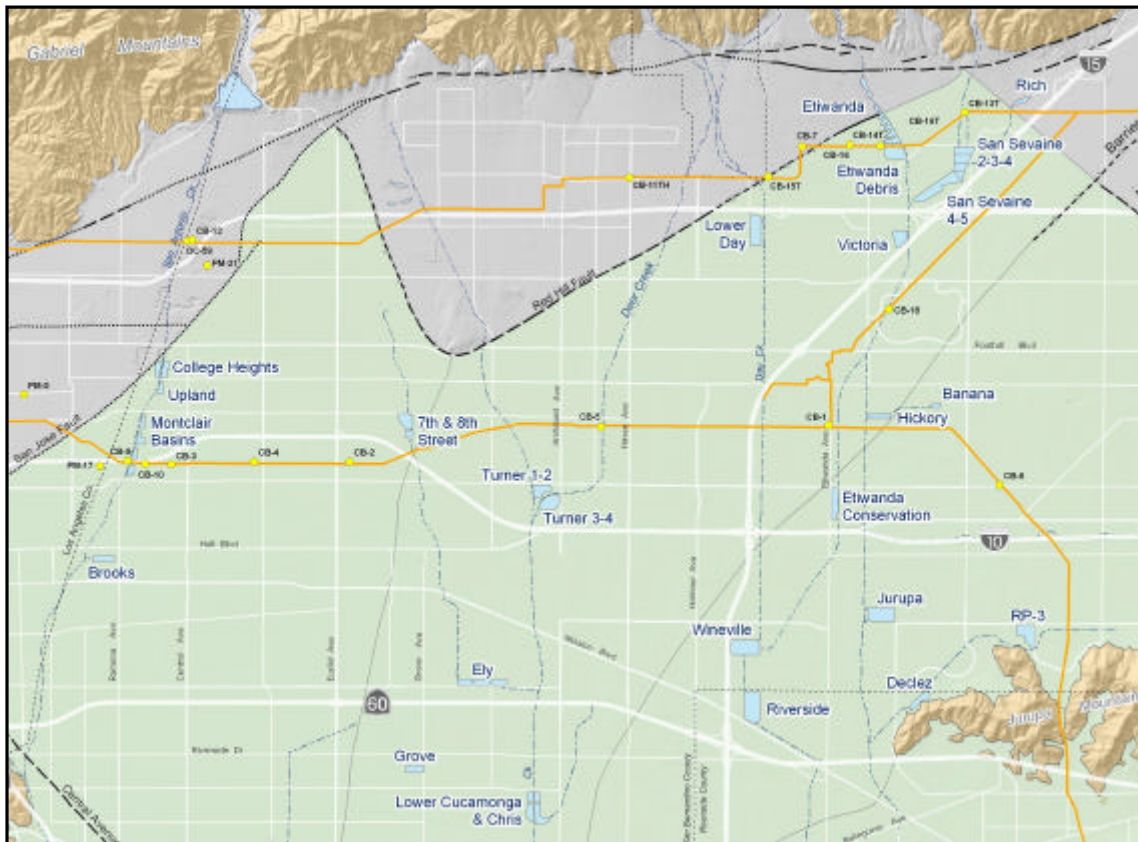


Kenneth Manning
Chief Executive Officer

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report

July 1 through September 30, 2007



Prepared by:



November 15, 2007

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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 jointly sponsor the Chino Basin Recycled Water Groundwater Recharge Program. This is a comprehensive water supply program to enhance water supply reliability and improve 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 Program (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 which prescribes the requirements for recycled water use for groundwater recharge in six Phase I recharge sites and seven Phase II recharge sites within the Chino North Management Zone. Ely Basin is incorporated into the new Order as one of the seven Phase II recharge sites although recycled water groundwater recharge activities began at this site in 1997. As a provision of this Order, IEUA and Watermaster must also comply with Monitoring and Reporting Program No. R8-2007-0039 (M&RP).

The M&RP 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 Third Quarter of 2007 (3Q07), which is due to the Regional Board by November 15, 2007.

The quarterly report includes the following elements as prescribed in the M&RP:

- 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 from the zone that extends 500 feet and 6-months underground travel time from the recharge basin(s) where recycled water is applied for domestic water supply use.

In April 2007, the Monte Vista Water District (MVWD) entered into an agreement with Watermaster and IEUA to begin reporting its Aquifer Storage & Recovery (ASR) Project injection/recovery volumes and TIN/TDS data under the then existing Phase I Groundwater Recharge Order No. R8-2005-0033 and future permit updates, such as the current Order No. R8-2007-0039.

B. Basin Operations

During 3Q07, IEUA recharged recycled water at 7th & 8th Street and Hickory recharge sites. Recycled water was not recharged in other program recharge sites during 3Q07.

Compliance monitoring points have not yet been established for the 7th & 8th Street and Turner Basins; therefore all lysimeter sampling data collected during 3Q07 are presented in this report for these two recharge sites. In the quarterly reports following the completion of these sites' Start-Up Period Reports,

quarterly monitoring and reporting will be limited to compliance monitoring sampling points selected based on the Start-Up Period data evaluation.

C. Outline of the Quarterly Report

Section 2 of this quarterly report discusses the water quality monitoring results for recycled water (treatment plant effluent, basin surface water, and lysimeter data), diluent water, and groundwater water. 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. Finally, Section 6 is an overview of the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project, including injection volumes and TIN/TDS mass balance.

2. Monitoring Results

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

The requirements for recycled water monitoring are presented in the M&RP. Tables 2-1 through 2-4 include all of the requisite 3Q07 data.

Recycled Water Specifications A.5 through A.9 are narrative limits in the permit and corresponding monitoring data are presented in Tables 2-1 through 2-2. None of these limits were exceeded in 3Q07.

In the Order, compliance for constituents with maximum contaminant levels (MCLs) and secondary MCLs are based on 4-quarter running averages. These constituents are listed in Recycled Water Specifications A.1 through A.3 (Tables I, II, and III in the Order). The 4-quarter running average concentration data for 4Q06 through 3Q07 are summarized in Table 2-3 of this report. The table includes the 4-quarter running average for each parameter and the corresponding limits for compliance. Of the Recycled Water Quality Specifications with limitations, only Oil & Grease does not require the 4-quarter running averages for compliance determination. Maximum contaminant levels for inorganic chemicals, organic chemicals, radionuclides, and disinfection byproducts; and action levels for lead and copper; and secondary MCLs for various chemicals were not exceeded during 3Q07.

For Trihalomethanes (TTHMs) and Total Haloacetic Acids (HAA5), samples collected at the basin are more consistent and representative of the recycled water prior to reaching the groundwater table. Due to the volume of sample required for analyses for other required parameters, IEUA has selected a recycled water sampling point along the distribution pipeline at the turnout to Reliant Energy (an IEUA recycled water customer). IEUA selected this location as being representative of the system blend of recycled water used for recharge. Although this sampling location is suitable for most constituents, it is not appropriate for disinfection byproducts, more specifically, TTHMs and HAA5. For these constituents, IEUA chose the 25-foot below ground surface lysimeter at Hickory Basin East Cell as the compliance point, in accordance with Recycled Water Quality Specification A.2. This basin did receive recycled water during 3Q07.

During 3Q07, only the threshold odor secondary MCL of 3 Units was exceeded by a 4-quarter running average value of 4 Units. Historical diluent water sampling of the lysimeters has indicated that a slight odor is common to the formation.

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

B. Recycled Water: Basin and Lysimeter Samples

Total organic carbon (TOC) and nitrogen species sampling and analysis are performed weekly during periods when recycled water is delivered to recharge sites. Electrical conductivity is also measured and reported to assist in identifying the presence of recycled water at various depths in the vadose zone. The basin and lysimeter water quality results are summarized in Table 2-5. The table includes lysimeter data for 7th & 8th Street, Hickory, and Turner Basins. Although no recycled water was delivered to Turner Basins during 3Q07, samples were collected to complete the start-up period.

After a basin start-up period is complete, TOC compliance is determined from the maximum average RWC indicated by the 20-sample running average TOC. ($\text{TOC}_{\text{avg}} = 0.5 \text{ mg/L} \div \text{RWC}_{\text{avg}}$). Total nitrogen compliance is based on a 4-sample running average with a limit of 5 mg/L.

C. Diluent Water

During 3Q07, local runoff was captured in four recharge sites that also receive recycled water: 7th & 8th Street, Banana, Hickory, and the Turner Basins. Ely Basin received local runoff, however did not receive any recycled water during this reporting period. State Water Project water was not delivered to any of the basins during this monitoring period. Table 2-6 lists diluent water constituents monitored for 3Q07.

D. Groundwater Monitoring Wells

Groundwater quality within the vicinity of Banana and Hickory Basins is monitored by sampling a network of six wells; the groundwater quality within the vicinity of the Turner Basins is monitored by sampling a network of five wells; the groundwater quality within the vicinity of the 7th & 8th Street Basins are monitored by sampling a network of four wells; and the groundwater quality within the vicinity of the Ely Basin is monitored by sampling a network of three wells. The wells in the monitoring well networks for Hickory and Banana Basins, Turner Basin, 7th & 8th Street Basins, and Ely Basins are summarized in Table 2-7, and presented on Figures 2-2 through 2-4, respectively.

The groundwater constituents analyzed from the monitoring wells during 3Q07 are presented in Table 2-8.

3. Recharge Operations

IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water routed to all Phase I and Phase II basins. The 7th & 8th Street and Hickory Basins were the only recharge basins to receive recycled water this quarter. No imported water was delivered to any of the aforementioned recharge basins during 3Q07. Table 3-1 lists the volumes of diluent water, recycled water, and/or local runoff captured during 3Q07 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 Plants RP-1 & RP-4, recharge operations, lysimeter and monitoring well sampling.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 3Q07 for domestic or municipal use from the zones that extend 500 feet and 6 months underground travel time from the

Hickory, Banana, Turner 7th & 8th Street, and Ely Basins. In fact, there are no production wells within the buffer zones of these aforementioned recharge sites. In the cover letter of this report, Watermaster certifies non-pumping in the buffer zones.

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 Phase I and Phase II basins 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 a list of 40-acre parcels that abut recharge basins and their 500-foot buffers. IEUA has provided SBCDEHS with a list of parcels abutting each recharge basin and a series of maps showing the recharge basins, buffers, and township/range/section parcels adjacent the basins and buffers.

If a well falls within an abutting parcel, SBCDEHS will review the proposed well location using maps of the basins and buffers. If the well falls too near the buffer 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 to identify the exact location of the proposed well casing. To conduct a detailed field review, SBCDEHS will contact and provide IEUA Groundwater Recharge Coordinator with a copy of the well permit application and a timeline for the completion of IEUA's review. Following the review, IEUA will notify SBCDEHS of its findings in writing. IEUA will also notify the California Department of Public Health and the Regional Board of well permit applications that it recommends be declined due to well locations that are determined to fall within a 500-foot buffer. SBCDEHS has initiated control over production well permitting within the buffer zones of all Phase I and Phase II basins through the use of buffer zone maps that utilize the same land coordinate system (Township/Range/Section) that is used in the permitting process.

6. MVWD ASR Project

The Regional Board has allowed the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project to be included under IEUA/CBWM Phase I Groundwater Recharge Order No. R8-2005-0033 and subsequent permit updates. In April 2007, MVWD, Watermaster, and IEUA entered into an agreement to report the MVWD ASR project groundwater injection/recovery volumes and TIN/TDS mass balance in the recharge program quarterly reports. The Regional Board has been apprised of this agreement and that IEUA will be reporting MVWD ASR project data on a quarterly basis. Initial injection began in June 2007. 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 July 2007
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform
Limits	2;5;10	16	mg/L	mg/L	mg/L	unit	μhmo/cm	mg/L	mg/L	mpn/100mL	2;5;10	16	mg/L	mg/L	mg/L	unit	μhmo/cm	mg/L	mg/L	mpn/100mL
	2;5;10	16		10		6<pH<9				2.2;23;240	2;5;10	16		10		6<pH<9				2.2;23;240
07/01/07	0.8	5.0	5.4	6.3	5.4	7.6	770	480		<2	1.0	10.4	3.8	5.4	3.8	7.1	840	512		<2
07/02/07	0.8	5.1				7.6	780			2	1.3	11.6	4.4		4.6	7.9	840			<2
07/03/07	0.8	4.9				7.6	810			<2	1.9	11.3	6.1		6.1	7.6	880			<2
07/04/07	0.8	4.9				7.6	775			<2	1.9	12.3	5.1		5.1	7.6	875			<2
07/05/07	0.9	5.3	6.3		6.3	7.6	780			<2	1.5	12.0	6.9		6.9	7.6	870			<2
07/06/07	0.9	5.7				7.6	800			2	0.9	9.7	7.2		7.3	7.4	865			<2
07/07/07	0.9	5.5				7.6	795			<2	0.6	8.8	6.4		6.4	7.3	870			<2
07/08/07	0.8	5.2	5.9		6.0	7.6	765			<2	0.4	8.0	2.2		2.2	7.2	830			<2
07/09/07	0.9	5.6				7.6	800			<2	0.6	7.4	1.8		1.8	7.4	830			<2
07/10/07	0.9	5.8	6.2	7.6	6.2	7.6	805	492	141	<2	0.8	7.4	2.4	3.8	2.4	7.7	820	490	140	<2
07/11/07	0.9	5.8				7.7	800			<2	0.7	7.8	1.9		1.9	7.1	810			<2
07/12/07	0.9	5.2	4.9		4.9	7.7	790			2	0.5	7.0	2.8		2.8	7.8	790			<2
07/13/07	0.8	5.1				7.7	805			<2	0.9	6.4	3.4		3.5	7.7	810			<2
07/14/07	0.9	4.9				7.7	800			<2	0.3	6.0	3.4		3.7	7.7	805			<2
07/15/07	0.9	5.0	5.7		5.7	7.7	770			2	0.3	5.6	2.9		2.9	7.7	815			<2
07/16/07	0.9	5.0				7.7	780			2	0.5	5.5	2.8		2.8	7.8	810			<2
07/17/07	0.9	5.4	5.9	6.7	6.1	7.7	795	482		<2	0.4	5.8	3.1	3.5	3.2	7.7	805	478		<2
07/18/07	1.0	5.6				7.8	815			<2	0.3	5.5	2.7		2.7	7.5	810			<2
07/19/07	1.0	5.3	4.9		4.9	7.7	825			<2	0.4	6.3	2.6		2.6	7.5	805			<2
07/20/07	0.9	4.9				7.8	795			<2	0.6	7.0	2.6		2.6	7.5	820			<2
07/21/07	0.9	4.7				7.7	790			<2	0.9	8.2	3.5		3.5	7.5	815			<2
07/22/07	0.9	4.7	5.8		5.8	7.7	765			<2	0.7	7.5	6.1		6.1	7.5	835			<2
07/23/07	1.1	5.0				7.8	765			<2	0.4	6.8	4.9		4.9	7.5	860			<2
07/24/07	1.1	5.0	6.0		6.0	7.7	780	472		<2	NS	NS	NS		NS	NS	NS			<2
07/25/07	1.0	5.0	5.4		5.4	7.7	765			<2	NS	7.1	7.8		7.8	8.1	885	534		NS
07/26/07	0.9	4.9	5.2		5.2	7.7	775			<2	0.7	7.4	10.1		10.1	7.8	865			<2
07/27/07	0.9	5.0				7.7	765			<2	1.0	8.2	10.7		10.7	7.8	855			<2
07/28/07	0.8	4.7				7.7	760			2	0.9	8.3	10.3		10.3	7.8	845			<2
07/29/07	0.9	5.1	5.2		5.2	7.7	755			<2	1.0	8.2	10.0		10.0	7.8	845			<2
07/30/07	1.0	5.2				7.7	770			<2	0.8	8.0	8.4		8.4	7.9	860			<2
07/31/07	1.0	5.3	3.8		3.8	7.7	775	470		<2	0.4	7.7	6.6	7.2	6.6	7.5	855	514		<2
Avg	0.9	5.2	5.5	6.9	5.5	7.7	785	479	141	2	0.8	8.0	5.1	5.0	5.1	7.6	837	506	140	2
Min	0.8	4.7	3.8	6.3	3.8	7.6	755	470	141	<2	0.3	5.5	1.8	3.5	1.8	7.1	790	478	140	<2
Max	1.1	5.8	6.3	7.6	6.3	7.8	825	492	141	2	1.9	12.3	10.7	7.2	10.7	8.1	885	534	140	<2

Note: Turbidity and pH is monitored continuously at RP-1 and RP-4.

Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water
TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-4

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date.

NS - No Sample

Table 2-1B
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for August 2007
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform
	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		10		6<pH<9				2.2;23;240	2.5;10	16		10		6<pH<9				2.2;23;240
08/01/07	1.0	0/s				7.7	0/s			<2	0.7	8.9	7.4		7.4	7.2	845			<2
08/02/07	1.0	6.0	4.3		4.3	7.9	770			<2	1.1	8.2	7.6		7.6	7.3	830			<2
08/03/07	0.9	5.4				7.8	775			<2	0.7	8.2	6.6		6.6	7.0	830			<2
08/04/07	1.0	5.3				7.8	780			<2	0.2	8.0	5.4		5.4	7.2	825			<2
08/05/07	1.0	5.2	5.1		5.1	7.8	735			<2	0.7	8.4	4.5		4.5	7.1	810			<2
08/06/07	1.0	5.2				7.3	755			<2	0.3	8.4	3.3		3.3	7.1	830			<2
08/07/07	1.0	5.2	6.7	7.5	6.8	6.8	755	460	141	<2	0.1	8.6	3.6	4.6	3.6	7.1	830	500	141	<2
08/08/07	1.0	5.4				6.9	750			<2	0.2	8.6	5.9		6.0	7.0	820			<2
08/09/07	0.9	4.9	6.5		6.7	6.9	750			<2	0.1	7.4	4.8		4.8	7.0	810			<2
08/10/07	1.0	4.6				6.9	745			<2	0.2	7.0	2.4		2.4	7.1	800			<2
08/11/07	1.0	4.5				6.9	750			<2	0.2	7.1	2.4		2.4	7.3	790			<2
08/12/07	0.9	5.0	5.4		5.4	6.9	740			<2	0.2	8.1	1.8		1.8	7.2	800			<2
08/13/07	0.8	5.1				6.9	740			<2	0.2	8.7	1.1		1.6	7.3	805			<2
08/14/07	0.9	5.3	4.8		5.1	6.9	745	456		<2	0.3	7.8	1.9	1.9	1.9	7.2	800	474		<2
08/15/07	0.8	5.3				7.0	775			<2	0.2	7.3	2.9		2.9	7.3	795			<2
08/16/07	0.9	5.5				7.0	795			<2	0.3	7.2	3.6		3.6	7.1	785			<2
08/17/07	0.9	5.2				7.0	785			<2	0.5	6.7	3.1		3.1	7.1	780			<2
08/18/07	0.9	4.9				7.0	780			<2	0.4	6.9	2.6		2.8	7.1	775			<2
08/19/07	0.8	5.1	5.7		5.8	7.0	750			<2	0.3	7.2	4.2		4.2	7.1	775			<2
08/20/07	0.8	5.3				7.0	760			<2	0.3	7.2	4.7		4.7	7.0	785			<2
08/21/07	0.8	5.8	6.5		6.7	7.0	785	484		<2	0.5	7.4	5.4	7.0	5.4	7.1	810	488		<2
08/22/07	0.9	6.3				7.0	770			<2	0.4	8.2	5.5		5.5	7.2	795			<2
08/23/07	1.0	6.0	5.1		5.1	7.0	755			<2	0.3	7.6	5.0		5.0	7.1	790			<2
08/24/07	1.0	5.1				7.0	755			<2	0.5	7.5	5.5		5.5	7.0	800			<2
08/25/07	0.9	5.1				7.0	745			<2	0.5	7.4	4.6		4.6	7.0	795			<2
08/26/07	0.8	5.3	6.8		6.8	7.0	750			<2	0.5	7.9	4.3		4.3	7.2	800			<2
08/27/07	0.8	5.5				7.0	750			<2	0.9	8.3	3.9		3.9	7.2	815			<2
08/28/07	0.8	5.7	5.6		5.6	7.0	760	464		<2	0.6	8.4	2.9		2.9	7.0	790	476		<2
08/29/07	0.8	5.9				7.0	755			<2	0.8	8.1	1.5		3.1	7.0	840			<2
08/30/07	0.9	5.9	5.6		5.6	7.1	750			4	0.5	6.6	2.9		2.9	7.0	810			<2
08/31/07	0.9	5.5				7.1	750			<2	0.3	5.7	2.1		2.1	7.1	780			<2
Avg	0.9	5.3	5.7	7.5	5.7	7.1	759	466	141	2	0.4	7.7	4.0	4.5	4.1	7.1	805	485	141	2
Min	0.8	4.5	4.3	7.5	4.3	6.8	735	456	141	<2	0.1	5.7	1.1	1.9	1.6	7.0	775	474	141	<2
Max	1.0	6.3	6.8	7.5	6.8	7.9	795	484	141	4	1.1	8.9	7.6	7.0	7.6	7.3	845	500	141	<2

Note: Turbidity and pH is monitored continuously at RP-1 and RP-4.

Blank cells indicate that analysis was not run for a constituent on that particular date.

Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water

TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-4

Bolded characters signify an exceedance of a permit limitation

Table 2-1C
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for September 2007
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform
Limits	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
	2;5;10	16		10		6<pH<9				2.2;23;240	2;5;10	16		10		6<pH<9				2.2;23;240
09/01/07	0.8	5.2				7.1	740			<2	0.3	6.2	2.4			6.8	790			<2
09/02/07	0.8	5.1				7.2	750			<2	0.4	6.2	1.8			6.6	830			<2
09/03/07	0.9	5.3				7.1	750			<2	0.5	6.1	2.1			7.2	795			<2
09/04/07	0.8	5.9	5.2	6.5	5.2	7.2	765	462	145	<2	0.5	6.2	1.1	2.4	5.2	7.0	820		115	<2
09/05/07	0.8	6.0				7.2	770			500*	0.5	5.7	0.8			7.0	800	458		<2
09/06/07	0.7	5.2	5.5		5.5	7.2	790			<2	0.4	5.2	1.5		5.5	7.1	855			<2
09/07/07	0.7	4.8				7.2	765			<2	0.4	5.4	2.2			7.2	790			<2
09/08/07	0.6	4.9				7.2	775			<2	0.4	4.9	2.5			7.1	795			<2
09/09/07	0.6	5.2	6.5		6.6	7.2	770			<2	0.5	5.0	2.7		6.6	7.1	795			<2
09/10/07	0.6	5.4				7.2	775			<2	0.6	5.8	4.3			7.1	795			<2
09/11/07	0.5	5.4	6.5		6.5	7.2	785	480		<2	0.8	7.1	5.4		6.5	7.1	805	490		<2
09/12/07	0.5	5.3				7.2	785			<2	0.6	7.2	3.6			7.0	805			<2
09/13/07	0.5	5.1	6.4		6.6	7.2	780			<2	1.1	7.3	3.8		6.6	7.0	805			<2
09/14/07	0.6	5.2				7.2	770			<2	1.0	7.3	6.0			6.6	800			<2
09/15/07	0.7	5.0				7.2	760			<2	0.7	6.2	4.9			7.0	795			<2
09/16/07	0.7	5.0	7.0		7.2	7.2	760			<2	0.4	5.7	3.1		7.2	7.4	790			<2
09/17/07	0.7	5.2				7.2	785			<2	0.4	5.3	3.2			7.5	810			<2
09/18/07	0.8	5.2	5.8		5.8	7.3	775	464		<2	0.3	6.9	6.9		5.8	7.8	820	488		<2
09/19/07	0.8	5.1				7.2	775			<2	0.2	7.1	7.3			7.7	810			<2
09/20/07	0.6	5.1	6.3		6.3	7.2	775			<2	0.3	6.7	7.4		6.3	7.8	815			<2
09/21/07	0.5	5.0				7.2	770			<2	0.6	7.1	5.0			7.8	810			<2
09/22/07	0.7	5.2				7.0	775			<2	0.7	7.9	4.2			7.4	810			<2
09/23/07	0.7	5.3	5.2		5.3	7.0	770			2	1.0	9.1	4.4		5.3	7.4	830			<2
09/24/07	0.7	5.3				7.1	780			<2	1.5	11.2	4.7			7.5	870			<2
09/25/07	0.7	5.3	6.3		6.5	7.1	780	464		2	1.7	12.1	6.2		6.5	7.5	875	540		<2
09/26/07	0.7	5.4				7.1	780			<2	1.2	10.9	4.4			7.4	840			<2
09/27/07	0.7	5.1	6.1		6.1	7.1	780			<2	0.4	8.9	3.3		6.1	7.4	825			<2
09/28/07	0.7	5.3				7.1	785			<2	0.4	6.9	3.2			7.4	815			<2
09/29/07	0.7	5.7				7.1	785			<2	NS	NS	NS			NS	NS			<2
09/30/07	0.7	5.5	6.6		6.6	7.1	780			<2	NS	NS	NS		6.6	NS	NS			NS
Avg	0.7	5.2	6.1	6.5	6.2	7.2	773	468	145	19	0.6	7.1	3.9	2.4	6.2	7.2	814	494	115	2
Min	0.5	4.8	5.2	6.5	5.2	7.0	740	462	145	<2	0.2	4.9	0.8	2.4	5.2	6.6	790	458	115	<2
Max	0.9	6.0	7.0	6.5	7.2	7.3	790	480	145	500	1.7	12.1	7.4	2.4	7.2	7.8	875	540	115	<2

Note: Turbidity and pH is monitored continuously at RP-1 and RP-4.

Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water
TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-4

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date.

NS - No Sample

* Coliform exceedance was attributed to sample contamination.

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

Date	TIN		TDS	
	Monthly	12-Mo. Run Avg.	Monthly	12-Mo. Run Avg.
Oct-06	6.4	7.6	457	469
Nov-06	6.9	7.6	456	468
Dec-06	7.1	7.5	470	467
Jan-07	7.7	7.3	488	467
Feb-07	6.2	7.1	481	468
Mar-07	6.7	6.9	490	470
Apr-07	5.6	6.7	491	472
May-07	5.6	6.5	489	475
Jun-07	6.0	6.5	495	477
Jul-07	5.1	6.3	492	479
Aug-07	5.2	6.3	478	479
Sep-07	5.9	6.2	478	480
Avg	6.5	7.1	480	470
Min	5.6	6.5	456	467
Max	7.7	7.6	495	477

Note: TIN & TDS must meet the Agency-wide 12-mo. running average limits of 8 mg/L & 550 mg/L, respectively.

Table 2-3
Recycled Water Monitoring: Recycled Water Quality Specifications A.1, A.2, A.3, & A.15

Constituent	4Q06	1Q07	2Q07	3Q07	4Q Run. Avg.	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	<25	<25	<25	<25	<25	1000	µg/L	EPA 200.7
Antimony	<0.5	0.7	0.8	0.53	0.6	6	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<0.2	<0.2	<0.2	<0.6	<0.3	7	MFL	EPA 100.2
Barium	12	16	18	14	15	1000	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.7
Chromium	1.1	3.1	2.1	4.5	2.7	50	µg/L	EPA 200.7
Cyanide	6	5	<5	<6	6	150	µg/L	SM 4500-CN E
Fluoride	0.3	0.2	0.3	0.3	0.3	2	mg/L	SM 4500-F C
Mercury	<0.2	<0.2	<0.2	<0.2	<0.2	2	µg/L	EPA 245.2
Nickel	2	2	2	3	2	100	µg/L	EPA 200.7
Selenium	<2	2	<2	2.4	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
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
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<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
1,1,2,2-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	<0.3	<0.3	<0.3	<0.3	<0.3	0.5	µg/L	EPA 524.2
m,p-Xylene	<1	<1	<1	<1	<1	1750 ¹	µg/L	EPA 524.2
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5		µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	<0.1	2	µg/L	EPA 505
Atrazine	<0.05	<0.05	<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	EPA531.2
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	5.1	3.4	4.6	4.2	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

Table 2-3
Recycled Water Monitoring: Recycled Water Quality Specifications A.1, A.2, A.3, & A.15

Constituent	4Q06	1Q07	2Q07	3Q07	4Q Run. Avg.	Limit	Unit	Method
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	0.08	<0.05	<0.05	<0.06	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	<0.07	<0.07	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	<0.05	0.07	<0.06	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
Action Level Chemicals								
Copper	3.7	3.7	11.8	5.1	6.1	1300	µg/L	EPA 200.7
Lead	<0.5	<0.5	0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 and Radium 228	<0.705	<0.705	<0.618	<0.670	<0.675	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	<3	<3	15	pCi/l	EPA 900.0
Tritium	<178	190	<194	<190	<188	20,000	pCi/l	EPA 906
Strontium-90	<0.790	<0.665	<0.688	<0.640	<0.696	8	pCi/l	EPA 905
Gross Beta Particle Activity	10	8.8	13	6.9	10	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	<25	<25	<25	<25	<25	200	µg/L	EPA 200.7
Copper	3.7	3.7	11.8	5.1	6.1	1000	µg/L	EPA 200.8
Corrosivity	-0.3	-0.3	-0.3	NR	-0.3	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS)	<0.05	0.14	<0.05	NR	<0.08	500	µg/L	S5540C/EPA 425.1
Iron	79	NR	NR	NR	79	300	µg/L	EPA 200.7
Manganese	5	8	7	7	7	50	µg/L	EPA 200.7
Methyl-tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Odor--Threshold	4	2	8	NR	4 ²	3	TON	SM 2150B
Silver	<0.25	0.39	<0.25	<0.25	<0.29	100	µg/L	EPA 200.7
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.2	1	µg/L	EPA 525.2
Zinc	31	38	75	38	45	5000	µg/L	EPA 200.7
Miscellaneous Regulated Constituents								
Oil & Grease	NA	NA	NA	2	NA	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<5	<5	<5	<5	<5	10	µg/L	EPA 300.1
Chlorite	<0.02	<0.05	<0.02	<0.01	<0.03	1	mg/L	EPA 300.0
Lysimeter Compliance Point Data	HE-25	HE-25	HE-25	HE-25				
Total Trihalomethanes (TTHMs)	66	13	16	129	56	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<1	<1	<1	3.4	<2	60	µg/L	S6251B

NR: Not Required (Annual Requirement)

NA: Not Applicable (Oil & Grease compliance determination not based on 4-quarter running average)

¹ The sum of m,p-Xylene and o-Xylene is used to calculate compliance for the Total Xylenes limit

² Odor Threshold 4-quarter running average is calculated based on 3Q06 through 2Q07 results

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

Constituent	3Q07	Unit	Method
Metals			
Chromium (III) ¹	4.5	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)			
Acrolein	NR	µg/L	EPA 624
Acrylonitrile	NR	µg/L	EPA 624
Bromoform	<0.5	µg/L	EPA 524.2
Chlorodibromomethane	8.3	µg/L	EPA 524.2
Chloroethane	<0.5	µg/L	EPA 524.2
2-Chloroethylvinylether	NR	µg/L	EPA 624
Chloroform	130	mg/L	EPA 524.2
Dichlorobromomethane	38	µg/L	EPA 524.2
Methyl Bromide	<0.5	µg/L	EPA 524.2
Methyl Chloride	0.8	µg/L	EPA 524.2
Acid Extractibles			
2-Chlorophenol	NR	µg/L	EPA 625
2,4-Dichlorophenol	NR	µg/L	EPA 625
2,4-Dimethylphenol	NR	µg/L	EPA 625
2-Methyl-4,6-dinitrophenol	NR	µg/L	EPA 625
2,4-Dinitrophenol	NR	µg/L	EPA 625
2-Nitrophenol	NR	µg/L	EPA 625
4-Nitrophenol	NR	µg/L	EPA 625
4-Chloro-3-methylphenol	NR	µg/L	EPA 625
Phenol	NR	µg/L	EPA 625
2,4,6-Trichlorophenol	NR	µg/L	EPA 625
Base/Neutral Extractibles			
Acenaphthene	NR	µg/L	EPA 625
Acenaphthylene	NR	µg/L	EPA 625
Anthracene	NR	µg/L	EPA 625
Benzidine	NR	µg/L	EPA 625
Benzo(a)anthracene	NR	µg/L	EPA 625
Benzo(b)fluoranthene	NR	µg/L	EPA 625
Benzo(g,h,i)perylene	NR	µg/L	EPA 625
Benzo(k)fluoranthene	NR	µg/L	EPA 625
Bis(2-chloroethoxy)methane	NR	µg/L	EPA 625
Bis(2-chloroethyl)ether	NR	µg/L	EPA 625
Bis(2-chloroisopropyl)ether	NR	µg/L	EPA 625
4-Bromophenyl phenyl ether	NR	µg/L	EPA 625
Butyl benzyl phthalate	NR	µg/L	EPA 625
2-Chloronaphthalene	NR	µg/L	EPA 625
4-Chlorophenyl phenyl ether	NR	µg/L	EPA 625
Chrysene	NR	µg/L	EPA 625
Dibenzo(a,h)anthracene	NR	µg/L	EPA 625
1,3-Dichlorobenzene	NR	µg/L	EPA 625
3,3-Dichlorobenzidine	NR	µg/L	EPA 625
Diethyl phthalate	NR	µg/L	EPA 625
Dimethyl phthalate	NR	µg/L	EPA 625
Di-n-butyl phthalate	NR	µg/L	EPA 625
2,4-Dinitrotoluene	NR	µg/L	EPA 625
2,6-Dinitrotoluene	NR	µg/L	EPA 625
Di-n-octyl phthalate	NR	µg/L	EPA 625
Azobenzene	NR	µg/L	EPA 625
Fluoranthene	NR	µg/L	EPA 625
Fluorene	NR	µg/L	EPA 625
Hexachlorobutadiene	NR	µg/L	EPA 625
Hexachlorocyclopentadiene	NR	µg/L	EPA 625
Hexachloroethane	NR	µg/L	EPA 625
Indeno(1,2,3-cd)pyrene	NR	µg/L	EPA 625
Isophorone	NR	µg/L	EPA 625
Naphthalene	NR	µg/L	EPA 625
Nitrobenzene	NR	µg/L	EPA 625
N-Nitroso-di-n-propylamine	NR	µg/L	EPA 625
N-Nitrosodiphenylamine	NR	µg/L	EPA 625
Phenanthrene	NR	µg/L	EPA 625
Pyrene	NR	µg/L	EPA 625
Pesticides			
Aldrin	NR	µg/L	EPA 608
BHC, alpha isomer	NR	µg/L	EPA 608
BHC, beta isomer	NR	µg/L	EPA 608
BHC, delta isomer	NR	µg/L	EPA 608
4,4'-DDT	NR	µg/L	EPA 608
4,4'-DDE	NR	µg/L	EPA 608
4,4'-DDD	NR	µg/L	EPA 608
Dieldrin	NR	µg/L	EPA 608
Endosulfan I	NR	µg/L	EPA 608
Endosulfan II	NR	µg/L	EPA 608
Endosulfan Sulfate	NR	µg/L	EPA 608
Endrin Aldehyde	NR	µg/L	EPA 608

Constituent	3Q07	Unit	Method
Unregulated Chemicals			
Boron	0.3	mg/L	EPA 200.7
Chromium VI	0.4	µg/L	EPA 218.6
Dichlorodifluoromethane	<0.5	µg/L	EPA 524.2
Ethyl tertiary butyl ether	<3	µg/L	EPA 524.2
N-nitrosodimethylamine (NDMA)	13	ng/L	1625MOD
Perchlorate	<4	µg/L	EPA 314
Tertiary amyl methyl ether	<3	µg/L	EPA 524.2
Tertiary butyl alcohol	<2	µg/L	542.2 MOD
Vanadium	4	µg/L	EPA 200.8
1,4 - Dioxane	<2	µg/L	8270MOD
1,2,3-Trichloropropane	<0.5	µg/L	EPA 524.2
Chemicals w/ State Notification Levels ²			
n-butylbenzene	<0.5	µg/L	EPA 524.2
sec-butylbenzene	<0.5	µg/L	EPA 524.2
tert-butylbenzene	<0.5	µg/L	EPA 524.2
Carbon disulfide	NR	µg/L	EPA 524.2
Chlorate	NR	µg/L	EPA 300.0
2-Chlorotoluene	<0.5	µg/L	EPA 524.2
Diazinon	NR	µg/L	EPA 525.2
Formaldehyde	NR	µg/L	SM 6252/EPA 8315
Isopropylbenzene	<0.5	µg/L	EPA 524.2
N-propylbenzene	<0.5	µg/L	EPA 524.2
1,2,4 -trimethylbenzene	<0.5	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2
N-Nitrosodiethylamine (NDEA)	NR	µg/L	EPA 524.2
N-Nitrosopyrrolidine	NR	µg/L	EPA 524.2
Endocrine Disrupting Chemicals, Pharmaceuticals and Other Chemicals ²			
<u>Hormones</u>			
Ethinyl estradiol	NR	ng/L	HPLC/MS-SEDC
17-B estradiol	NR	ng/L	HPLC/MS-SEDC
Estrone	NR	ng/L	HPLC/MS-SEDC
<u>"Industrial" Endocrine Disruptors</u>			
Bisphenol A	NR	ng/L	HPLC/MS-SEDC
Nonylphenol and nonylphenol polyethoxylate	NR	ng/L	HPLC/MS-SEDC
Octylphenol and octylphenol polyethoxylate	NR	ng/L	HPLC/MS-SEDC
PolybromiNA	NR	ng/L	8270C SIM
PBDE 28	NR	ng/L	8270C SIM
PBDE 71	NR	ng/L	8270C SIM
PBDE 47	NR	ng/L	8270C SIM
PBDE 66	NR	ng/L	8270C SIM
PBDE 100	NR	ng/L	8270C SIM
PBDE 99	NR	ng/L	8270C SIM
PBDE 85	NR	ng/L	8270C SIM
PBDE 154	NR	ng/L	8270C SIM
PBDE 153	NR	ng/L	8270C SIM
PBDE 138	NR	ng/L	8270C SIM
PBDE 128	NR	ng/L	8270C SIM
PBDE 183	NR	ng/L	8270C SIM
PBDE 190	NR	ng/L	8270C SIM
PBDE 203	NR	ng/L	8270C SIM
PBDE 206	NR	ng/L	8270C SIM
PBDE 209	NR	ng/L	8270C SIM
<u>Pharmaceuticals & Other Substances</u>			
Acetaminopen	NR	ng/L	HPLC/MS-SEDC
Amoxicillin	NR		Not Available
Azithromycin	NR		Not Available
Caffeine	NR	ng/L	HPLC/MS-SEDC
Carbamazepine	NR	ng/L	HPLC/MS-SEDC
Ciprofloxacin	NR		Not Available
Ethylenediamine tetra-acetic acid (EDTA)	NR		Not Available
Gemfibrozil	NR	ng/L	HPLC/MS-SEDC
Ibuprofen	NR	ng/L	HPLC/MS-SEDC
Iodinated contrast media	NR	ng/L	HPLC/MS-SEDC
Lipitor	NR		Not Available
Methadone	NR	ng/L	HPLC/MS-SEDC
Morphine	NR		Not Available
Salicylic acid	NR	ng/L	HPLC/MS-SEDC
Triclosan	NR	ng/L	HPLC/MS-SEDC

NR: Not Required (Annual Requirement)

¹ Trivalent chromium is measured as total chromium

² Chemicals w/ State Notification Levels, Nitrosamines, and EDC, Pharmaceuticals & Other Chemicals (Attachment B) were sampled in September 2007 (annual requirement). Results will be reported in 4Q07 report.

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

Hickory Basin East Cell									
Site	Depth, bgs	Date	TOC	TN	EC (µmho/cm)	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit==>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
HKE-0	0	07/19/07	9.28	4.5	640	<0.2	<0.1	4.5	<0.01
HKE-0	0	07/24/07	11.58	2.8	680	<0.2	<0.1	2.7	<0.01
HKE-0	0	07/31/07	8.63	15.4	845	14.3	13.5	2.0	0.85
HKE-0	0	08/06/07	15.09	14.7	600	4.5	4.3	10.4	<0.01
HKE-0	0	08/14/07	6.48	4.0	725	2.3	2.2	1.8	<0.01
HKE-0	0	08/21/07	7.57	4.4	805	3.4	3.4	1.0	<0.01
HKE-0	0	08/28/07	8.57	5.7	805	4.5	4.5	1.3	<0.01
HKE-25	25	07/19/07	3.55	12.7	805	12.0	12.0	0.7	<0.01
HKE-25	25	07/24/07	2.70	3.8	810	3.7	3.7	<0.5	<0.01
HKE-25	25	07/31/07	5.34	12.9	815	12.2	11.7	1.2	0.27
HKE-25	25	08/06/07	1.77	3.2	770	3.0	2.9	<0.5	<0.01
HKE-25	25	08/14/07	1.28	4.4	900	3.1	2.9	1.5	<0.01
HKE-25	25	08/21/07	2.38	3.6	810	2.9	2.8	0.8	<0.01
HKE-25	25	08/28/07	1.16	2.5	900	2.8	2.6	<0.5	<0.01
HKE-25	25	09/04/07	1.11	4.4	765	4.0	3.7	0.6	<0.01
HKE-25	25	09/11/07	0.97	3.3	850	2.8	2.5	0.8	<0.01
HKE-25	25	09/18/07	1.08	2.6	860	2.6	2.7	<0.5	<0.01

Turner Basin Cell 1									
Site	Depth, bgs	Date	TOC	TN	EC (µmho/cm)	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit==>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
TRN1-00	0	07/03/07	8.35	1.3	685	<0.2	<0.1	1.3	<0.01
TRN1-00	0	07/10/07	8.40	1.2	710	1.6	<0.1	1.2	<0.01
TRN1-00	0	07/17/07	9.85	1.5	735	<0.2	<0.1	1.5	<0.01
TRN1-00	0	07/24/07	9.83	0.9	780	<0.2	<0.1	0.8	<0.01
TRN1-00	0	07/31/07	13.63	2.7	630	<0.2	<0.1	2.6	<0.01
TRN1-00	0	08/06/07	8.96	2.2	560	<0.2	<0.1	2.2	<0.01
TRN1-00	0	08/14/07	9.33	4.1	560	<0.2	<0.1	4.0	<0.01
TRN1-00	0	08/21/07	19.61	2.4	545	<0.2	<0.1	2.3	<0.01
TRN1-00	0	08/28/07	25.32	2.9	540	<0.2	0.2	2.7	<0.01
TRN1-05	5	07/03/07	4.78	0.8	695	<0.2	<0.1	0.7	<0.01
TRN1-05	5	07/10/07	5.31	<0.6	715	<0.2	<0.1	<0.5	<0.01
TRN1-05	5	07/17/07	5.51	<0.6	740	<0.2	<0.1	<0.5	<0.01
TRN1-05	5	07/24/07	5.69	<0.6	760	0.3	<0.1	<0.5	<0.01
TRN1-05	5	07/31/07	6.31	<0.6	780	0.2	<0.1	<0.5	<0.01
TRN1-05	5	08/06/07	6.44	0.7	760	<0.2	<0.1	0.7	<0.01
TRN1-05	5	08/14/07	6.00	1.5	715	0.2	<0.1	1.4	<0.01
TRN1-05	5	08/21/07	6.26	0.6	645	<0.2	<0.1	0.6	<0.01
TRN1-05	5	08/28/07	6.35	<0.6	635	<0.2	<0.1	<0.5	<0.01
TRN1-10	10	07/03/07	2.71	<0.6	695	<0.2	<0.1	<0.5	<0.01
TRN1-10	10	07/10/07	2.78	<0.6	705	<0.2	<0.1	<0.5	<0.01
TRN1-10	10	07/17/07	2.85	<0.6	710	<0.2	<0.1	<0.5	<0.01
TRN1-10	10	07/24/07	3.16	0.6	705	<0.2	<0.1	0.6	<0.01
TRN1-10	10	07/31/07	4.18	<0.6	735	<0.2	<0.1	<0.5	<0.01
TRN1-10	10	08/06/07	2.98	0.8	710	0.2	<0.1	0.8	<0.01
TRN1-10	10	08/14/07	3.21	1.3	725	<0.2	<0.1	1.3	<0.01
TRN1-10	10	08/21/07	3.02	<0.6	725	<0.2	<0.1	<0.5	<0.01
TRN1-10	10	08/28/07	2.85	<0.6	730	<0.2	<0.1	<0.5	<0.01
TRN1-15	15	07/03/07	1.87						
TRN1-15	15	07/10/07	2.06						
TRN1-15	15	07/17/07	3.78						
TRN1-15	15	07/24/07	3.75						
TRN1-15	15	07/31/07	2.26						
TRN1-15	15	08/06/07	3.48						
TRN1-15	15	08/14/07	3.14						
TRN1-15	15	08/21/07	3.69						
TRN1-15	15	08/28/07	3.52						
TRN1-25	25	07/03/07	2.10	<0.6	690	<0.2	<0.1	0.5	<0.01
TRN1-25	25	07/10/07	2.28	<0.6	690	<0.2	<0.1	<0.5	<0.01
TRN1-25	25	07/17/07	2.56	<0.6	675	<0.2	<0.1	<0.5	<0.01
TRN1-25	25	07/24/07	2.22	<0.6	660	0.6	<0.1	<0.5	<0.01
TRN1-25	25	07/31/07	2.02	<0.6	695	<0.2	<0.1	<0.5	<0.01
TRN1-25	25	08/06/07	2.05	<0.6	670	0.6	<0.1	<0.5	<0.01
TRN1-25	25	08/14/07	1.73	0.8	665	0.2	0.2	0.6	<0.01
TRN1-25	25	08/21/07	2.18	0.8	645	0.2	0.2	0.5	<0.01
TRN1-25	25	08/28/07	1.67	<0.6	670	0.6	0.6	<0.5	<0.01
TRN1-35	35	07/03/07	0.87						
TRN1-35	35	07/10/07	0.80						
TRN1-35	35	07/17/07	4.38						
TRN1-35	35	07/24/07	4.69						
TRN1-35	35	07/31/07	5.37						
TRN1-35	35	08/06/07	2.09						
TRN1-35	35	08/14/07	2.72						
TRN1-35	35	08/21/07	3.35						
TRN1-35	35	08/28/07	2.95	<0.6	505	<0.2	0.1	<0.5	<0.01

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

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

Turner Basin Cell 4									
Site	Depth, bgs	Date	TOC	TN	EC (µmho/cm)	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit==>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
TRN4-00	0	07/03/07	9.36	6.2	660	<0.2	<0.1	6.2	<0.01
TRN4-00	0	07/10/07	7.78	1.7	650	<0.2	<0.1	1.7	<0.01
TRN4-00	0	07/17/07	9.02	1.7	625	<0.2	<0.1	1.7	<0.01
TRN4-00	0	07/24/07	8.43	2.7	640	<0.2	<0.1	2.7	<0.01
TRN4-00	0	07/31/07	10.92	2.6	610	1.0	<0.1	2.6	<0.01
TRN4-00	0	08/06/07	13.20	2.9	605	<0.2	<0.1	2.9	<0.01
TRN4-00	0	08/14/07	16.67	4.9	615	<0.2	<0.1	4.8	<0.01
TRN4-00	0	08/21/07	25.24	11.5	575	<0.2	<0.1	11.5	<0.01
TRN4-00	0	08/28/07	15.38	4.1	570	1.9	1.6	2.5	0.03
TRN4-05	5	07/03/07	3.05						
TRN4-05	5	07/10/07	3.13	<0.6	665	<0.2	<0.1	<0.5	<0.01
TRN4-05	5	07/17/07	3.04	<0.6	640	<0.2	<0.1	<0.5	<0.01
TRN4-05	5	07/24/07	2.84	<0.6	645	<0.2	<0.1	0.6	<0.01
TRN4-05	5	07/31/07	4.47	<0.6	720	<0.2	<0.1	<0.5	<0.01
TRN4-05	5	08/06/07	2.83	3.3	645	<0.2	<0.1	3.3	<0.01
TRN4-05	5	08/14/07	2.69	1.2	675	<0.2	<0.1	1.2	<0.01
TRN4-05	5	08/21/07	3.19	<0.6	660	<0.2	<0.1	<0.5	<0.01
TRN4-05	5	08/28/07	3.08	<0.6	660	<0.2	<0.1	<0.5	<0.01
TRN4-10	10	07/03/07	1.97	3.1	630	<0.2	<0.1	3.1	<0.01
TRN4-10	10	07/10/07	2.13	<0.6	640	<0.2	<0.1	<0.5	<0.01
TRN4-10	10	07/17/07	2.17	<0.6	640	<0.2	<0.1	<0.5	<0.01
TRN4-10	10	07/24/07	2.15	0.6	640	<0.2	<0.1	0.6	<0.01
TRN4-10	10	07/31/07	2.22	<0.6	640	0.3	0.3	<0.5	<0.01
TRN4-10	10	08/06/07	2.42	<0.6	665	<0.2	<0.1	<0.5	<0.01
TRN4-10	10	08/14/07	2.17	0.9	660	<0.2	<0.1	0.9	<0.01
TRN4-10	10	08/21/07	2.34	<0.6	655	<0.2	<0.1	<0.5	<0.01
TRN4-10	10	08/28/07	2.27	<0.6	660	<0.2	<0.1	<0.5	<0.01
TRN4-15	15	07/03/07	1.76						
TRN4-15	15	07/10/07	1.98	<0.6		<0.2	<0.1	<0.5	<0.01
TRN4-15	15	07/17/07	2.52						
TRN4-15	15	07/24/07	1.98	<0.6	640	<0.2	<0.1	<0.5	<0.01
TRN4-15	15	07/31/07	2.10						
TRN4-15	15	08/06/07	2.22	<0.6	650	<0.2	<0.1	<0.5	<0.01
TRN4-15	15	08/14/07	2.14	<0.6	660	<0.2	<0.1	<0.5	<0.01
TRN4-15	15	08/21/07	2.12	<0.6	665	<0.2	<0.1	<0.5	<0.01
TRN4-15	15	08/28/07	2.15						
TRN4-25	25	07/03/07	0.93						
TRN4-25	25	07/10/07	1.04	0.7	675	0.6	0.6	<0.5	<0.01
TRN4-25	25	07/17/07	1.71	1.0	680	0.9	0.9	<0.5	<0.01
TRN4-25	25	07/24/07	2.13						
TRN4-25	25	07/31/07	2.48						
TRN4-25	25	08/14/07	1.01						
TRN4-25	25	08/21/07	1.54						
TRN4-25	25	08/28/07	1.02						
TRN4-35	35	07/03/07	0.80						
TRN4-35	35	07/10/07	0.90	1.9	770	1.8	1.8	<0.5	<0.01
TRN4-35	35	07/17/07	0.91	1.0	740	1.0	1.0	<0.5	<0.01
TRN4-35	35	07/24/07	1.14	3.1	860	3.1	3.0	<0.5	<0.01
TRN4-35	35	07/31/07	1.36	1.7	775	1.5	1.5	<0.5	<0.01
TRN4-35	35	08/06/07	1.57	0.9	720	0.6	0.5	<0.5	<0.01
TRN4-35	35	08/14/07	1.43	<0.6	780	0.7	0.5	<0.5	<0.01
TRN4-35	35	08/21/07	1.50	0.8	765	0.4	0.4	<0.5	<0.01
TRN4-35	35	08/28/07	1.39	<0.6	785	0.5	0.5	<0.5	<0.01

Ely Basin No. 3									
Site	Depth, bgs	Date	TOC	TN	EC (µmho/cm)	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit==>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
ELY3E-00	0	07/03/07	9.57	5.8	415	0.5	0.0	5.8	0.53
ELY3E-00	0	07/10/07	10.63	1.7	430	<0.2	0.0	1.7	<0.01
ELY3E-15	15	07/10/07	4.91			<0.2			
ELY3E-25	25	07/03/07	1.93						
ELY3E-25	25	07/10/07	2.09			<0.2			

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

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

8th Street Basin									
Site	Depth, bgs	Date	TOC	TN	EC	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit==>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
8TH-00	0	08/06/07	10.93	1.7	500	<0.2	<0.1	1.6	<0.01
8TH-00	0	08/14/07	44.24	11.0	625	0.9	<0.1	10.9	<0.01
8TH-00	0	08/21/07	21.23	7.2	565	<0.2	<0.1	7.2	<0.01
8TH-00	0	08/28/07	7.61	1.4	520	<0.2	<0.1	1.4	<0.01
8TH-00	0	09/04/07	9.11	4.9	575	0.9	<0.1	4.8	<0.01
8TH-00	0	09/11/07	6.55	4.4	785	2.9	2.9	1.5	0.02
8TH-00	0	09/18/07	5.86	3.2	810	2.4	2.5	0.7	0.01
8TH-00	0	09/25/07	17.55	5.4	680	4.2	3.4	2.0	0.05
8TH-00	0	09/27/07	12.70		855	4.9	4.5		0.03
8TH-05	5	08/06/07	12.03	6.6	1460	5.4	5.1	1.5	<0.01
8TH-05	5	08/14/07	10.81	1.6	775	<0.2	<0.1	1.5	<0.01
8TH-05	5	08/21/07	8.27	<0.6	700	<0.2	<0.1	<0.5	<0.01
8TH-05	5	08/28/07	7.34	0.9	730	<0.2	<0.1	0.8	<0.01
8TH-05	5	09/04/07	7.09	0.7	765	<0.2	<0.1	0.7	<0.01
8TH-05	5	09/11/07	12.38	0.9	735	<0.2	<0.1	0.9	<0.01
8TH-05	5	09/18/07	47.85	<0.6	735	<0.2	<0.1	<0.5	<0.01
8TH-05	5	09/25/07	80.80	<0.6	760	<0.2	<0.1	<0.5	<0.01
8TH-10	10	08/06/07	86.90	5.3	1110	4.2	2.6	2.7	<0.01
8TH-10	10	08/14/07	19.70	2.8	1200	3.3	2.5	<0.5	0.26
8TH-10	10	08/21/07	14.32	3.3	1240	2.6	1.7	1.6	0.48
8TH-10	10	08/28/07	16.25	3.0	1150	2.0	1.3	1.7	0.31
8TH-10	10	09/04/07	12.71	1.6	915	1.3	1.0	0.6	0.20
8TH-10	10	09/11/07	14.71	2.0	635	1.1	1.0	1.0	0.17
8TH-10	10	09/18/07	65.75	1.7	750	1.0	0.8	0.8	0.22
8TH-10	10	09/25/07	38.22	1.1	590	0.6	0.4	0.8	0.04
8TH-15	15	08/06/07	30.91			<0.2			
8TH-15	15	08/09/07	11.86	2.6	470	2.3	1.6	1.0	0.35
8TH-15	15	08/14/07	8.05	1.3	570	0.7	0.5	0.8	0.14
8TH-15	15	08/21/07	14.06			<0.2			
8TH-15	15	08/28/07	10.82			<0.2			
8TH-15	15	09/04/07	23.33	1.6	610	1.5	1.4	<0.5	0.05
8TH-15	15	09/11/07	6.68	2.0	625	1.4	1.6	<0.5	0.04
8TH-15	15	09/18/07	9.96	2.2	675	1.9	1.4	0.8	0.24
8TH-15	15	09/25/07	19.13	3.0	645	2.2	1.8	1.2	0.14
8TH-25	25	08/06/07	117.00	2.6		0.9		2.6	
8TH-25	25	08/09/07	17.37	3.1	3800	2.4	1.9	1.2	<0.01
8TH-25	25	08/14/07	24.75	2.9	3230	2.2	1.8	1.1	0.07
8TH-25	25	08/21/07	22.79	3.5	2110	2.9	2.4	1.1	0.11
8TH-25	25	08/28/07	29.93	3.8	2300	3.0	2.8	1.0	0.08
8TH-25	25	09/04/07	9.09	4.1	1700	3.8	3.6	0.5	0.04
8TH-25	25	09/11/07	8.46	4.4	3820	3.6	3.5	1.0	<0.01
8TH-25	25	09/18/07	15.04	3.4	2550	2.7	2.6	0.8	0.01
8TH-25	25	09/25/07	8.22	2.8	1640	2.8	2.5	<0.5	0.14
8TH-35	35	08/06/07	45.45	4.1	1120	3.4	3.1	1.0	0.01
8TH-35	35	08/14/07	8.89	0.7	1180	0.5	<0.1	0.7	0.11
8TH-35	35	08/21/07	5.40	4.4	980	3.9	3.7	0.6	0.09
8TH-35	35	08/28/07	4.48	5.2	905	4.6	4.5	0.6	0.04
8TH-35	35	09/04/07	3.92	5.7	800	5.2	5.2	0.6	0.02
8TH-35	35	09/11/07	4.57	7.3	820	6.6	6.7	0.6	<0.01
8TH-35	35	09/18/07	4.13	2.3	855	2.0	1.9	<0.5	0.21
8TH-35	35	09/25/07	4.57	1.4	775	1.6	1.5	<0.5	0.02

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

Table 2-6
Diluent Water Monitoring Results

Constituent	West Cucamonga Channel @ 7th & 8th Street Basin	San Sevaine Channel @ Hickory Dam	Deer Creek @ Turner Inlet	Unit	Method
NO ₂ -N	<0.01	<0.01	<0.01	mg/L	EPA 300.0
NO ₃ -N	2.5	0.9	0.3	mg/L	EPA 300.0
TDS	320	352	316	mg/L	SM 2540C
Total Coliform	>1600	>1600	>1600	mpn/100ml	SM 9221B
Oil & Grease	<2	2	<2	mg/L	EPA 1664A
Inorganic Chemicals					
Aluminum	36	<25	116	µg/L	EPA 200.7
Antimony	0.8	0.8	1.0	µg/L	EPA 200.8
Arsenic	2	<2	2	µg/L	EPA 200.8
Asbestos	<1.34	<2.68	<5.02	MFL	EPA 100.2
Barium	48	63	56	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	µg/L	EPA 200.7
Chromium	1.9	1.8	2.6	µg/L	EPA 200.7
Cyanide	<0.006	<0.006	<0.006	µg/L	SM 4500-CN E
Fluoride	0.6	0.2	0.3	mg/L	SM 4500-F C
Mercury	<0.2	<0.2	<0.2	µg/L	EPA 245.2
Nickel	3	2	2	µg/L	EPA 200.7
Selenium	<2	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)					
Benzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	0.8	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Vinyl Chloride	<0.3	<0.3	<0.3	µg/L	EPA 524.2
Total Xylenes	<1.5	<1.5	<1.5	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)					
Alachlor (Alanex)	<0.1	<0.1	<0.1	µg/L	EPA 505
Atrazine	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	µg/L	EPA531.2
Chlordane	<0.1	<0.1	<0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	µg/L	EPA 515.4
Dalapon	<1	<1	<1	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	0.7	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	µg/L	EPA 549.2
Endothall	<20	<5	<5	µg/L	EPA 548.1

Table 2-6
Diluent Water Monitoring Results

Constituent	West Cucamonga Channel @ 7th & 8th Street Basin	San Sevaine Channel @ Hickory Dam	Deer Creek @ Turner Inlet	Unit	Method
Endrin	<0.01	<0.01	<0.01	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	µg/L	EPA 504.1
Glyphosate	<6	<6	7	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	µg/L	EPA 505
Simazine	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	µg/L	EPA 515.4
Disinfection Byproducts					
Total Trihalomethanes (TTHMs)	<0.5	<0.5	<0.5	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	2.3	6.5	17	µg/L	S6251B
Bromate	22	<5	<5	µg/L	EPA 300.1
Chlorite	63	12	71	mg/L	EPA 300.0
Notification Level Chemicals					
Copper	9.2	6.2	10.5	µg/L	EPA 200.7
Lead	0.7	<0.5	0.5	µg/L	EPA 200.8
Radionuclides					
Combined Radium-226 and Radium 228	<1	<0.73	<0.73	pCi/l	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	pCi/l	EPA 900.0
Tritium	<188	<191	<199	pCi/l	EPA 906
Strontium-90	<0.7	<0.61	<0.65	pCi/l	EPA 905
Gross Beta Particle Activity	4.4	3.4	<3	pCi/l	EPA 900.0
Uranium	2.2	1.3	<0.7	pCi/l	EPA 200.8
Unregulated Chemicals					
Boron	0.1	0.1	0.1	mg/L	EPA 200.7
Chromium VI	0.8	0.6	1.2	ug/l	EPA 218.6
Dichlorodifluoromethane	<0.5	<0.5	<0.5	ug/l	EPA 524.2
Ethyl tertiary butyl ether	<3	<3	<3	ug/l	EPA 524.2
N-nitrosodimethylamine (NDMA)	<2	<2	<2	ng/L	1625MOD
Perchlorate	<4	4	<4	ug/l	EPA 314
Tertiary amyl methyl ether	<3	<3	<3	ug/l	EPA 524.2
Tertiary butyl alcohol	<2	<2	<2	ug/l	542.2 MOD
Vanadium	5.4	2.0	21.0	ug/l	EPA 200.8
1,4 - Dioxane	<2	<2	<2	ug/l	8270MOD
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	ug/l	EPA 524.2
Secondary Maximum Contaminant Level Chemicals					
Aluminum	36	<25	116	µg/L	EPA 200.7
Corrosivity	NR	NR	NR	SI	SM 2330B
Foaming Agents (MBAS)	NR	NR	NR	µg/L	S5540C/EPA 425.1
Iron	NR	NR	NR	µg/L	EPA 200.7
Manganese	5	8	9	µg/L	EPA 200.7
Odor--Threshold	NR	NR	NR	TON	SM 2150B
Silver	<0.25	0.26	<0.25	µg/L	EPA 200.7
Thiobencarb	<0.2	<0.2	<0.2	µg/L	EPA 525.2
Zinc	11	7	11	µg/L	EPA 200.7

NR: Not Required (Annual Requirement)

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	3601065	City Of Ontario - 19	2200 upgradient	NA	16	Active	Municipal
	3600010	City Of Ontario - 25	2530 crossgradient	370-903	20	Active	Municipal
	600453	City Of Ontario - 29	2810 downgradient	400-1095	18	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
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
	--	Inland Empire Utilities Agency - 8th-1/1	150 downgradient	495-535	4	Active	Monitoring
	--	Inland Empire Utilities Agency - 8th-1/2	150 downgradient	595-645	4	Active	Monitoring
	--	Inland Empire Utilities Agency - 8th-2/1	2460 downgradient	465-505	4	Active	Monitoring
	--	Inland Empire Utilities Agency - 8th-2/2	2460 downgradient	576-616	4	Active	Monitoring
Ely Basin	601003	Ely Basin MW-1, Philadelphia Well (Casing 3)	100 downgradient	280 - 300	2	NA	Monitoring
	601004	Ely Basin MW-2, Walnut Well (Casing 2)	3050 downgradient	290 - 310	4	NA	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

Table 2-8
Groundwater Monitoring Results

Sample Location		Date	TOC (mg/L)	Total Coliform (MPN/100mL)	pH	EC (µmho/cm)	TDS (mg/L)	Al (µg/L)	Color (units)	Cu (µg/L)	Corrosivity Index (SI)	Foaming Agents (mg/L)	Fe (µg/L)	Mn (µg/L)	MTBE (µg/L)	Odor Threshold (TON)	AQ (µg/L)	Thiobencarb (µg/L)	Turbidity (NTU)	Zn (µg/L)	Cl (mg/L)	Hardness (mg CaCO ₃ /L)	Na (mg/L)	SO ₄ (mg/L)	NH ₃ -N (mg/L)	NO ₂ -N (mg/L)	NO ₃ -N (mg/L)	Nitrogen, Total (mg/L)	TKN (mg/L)	Alkalinity (mg CaCO ₃ /L)	Dissolved Oxygen (mg/L)
Banana & Hickory Basins	Fontana Water Company F37A	7/12/07	0.1	<1.1	8.25	455	298	34	<3	12.4	0.4	<0.05	35	3	<0.5	1	<0.25	<0.2	0.41	9	16	202	18	16	<0.1	<0.01	10.4	10.4	<0.5	165	4.5
	California Speedway Infield Well	7/9/07	<0.1	1.1	8.27	437	284	<25	<3	5.1	0.7	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.32	3	13	191	18	23	<0.1	<0.01	7.9	7.9	<0.5	163	5.0
	California Speedway No. 2	7/12/07	0.2	<1.1	8.29	365	244	<25	<3	6.6	0.2	<0.05	21	<1	<0.5	1	<0.25	<0.2	0.16	11	10	164	18	13	<0.1	<0.01	3.9	3.9	<0.5	159	5.6
	Reliant Energy East Well	7/9/07	<0.1	<1.1	8.13	350	232	<25	<3	2	0.0	<0.05	<15	<1	<0.5	3	<0.25	<0.2	0.32	2	15	146	19	21	<0.1	<0.01	3.7	3.7	<0.5	136	4.4
	Ontario Well No. 20	7/12/07	0.1	<1.1	6.97	330	220	<25	<3	3.4	0.5	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.14	4	6	155	13	6	<0.1	<0.01	1.6	1.6	<0.5	163	6.0
	BH-1/2 Well	7/12/07	0.2	<1.1	8.34	360	244	<25	<3	2.8	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.16	19	7	159	18	34	<0.1	<0.01	4.8	4.8	<0.5	136	4.1
Turner Basins	Ontario Well No. 25	7/12/07	<0.1	<1.1	7.83	370	242	<25	<3	2.3	0.4	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.16	3	10	159	19	14	<0.1	<0.01	2.6	2.6	<0.5	163	5.1
	Ontario Well No. 29	7/12/07	<0.1	<1.1	7.73	345	242	<25	<3	2.4	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.17	3	9	144	22	17	<0.1	<0.01	3.2	3.2	<0.5	154	5.7
	TRN-1/2	7/12/07	0.8	<1.1	7.91	510	324	<25	<3	0.6	0.2	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.16	1	58	210	22	35	<0.1	<0.01	0.4	0.4	<0.5	151	4.6
	TRN-2/1	7/12/07	0.4	<1.1	8.16	340	220	<25	<3	<0.5	0.1	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.63	<1	41	128	19	15	<0.1	<0.01	0.5	0.5	<0.5	100	3.9
	TRN-2/2	7/12/07	0.5	<1.1	8.24	360	250	<25	<3	<0.5	0.0	<0.05	<15	<1	<0.5	1	0.30	<0.2	0.17	<1	46	152	15	16	<0.1	<0.01	0.4	0.4	<0.5	99	4.2
7th & 8th Street Basins	8th Street 1/1	7/30/07	1.0	<1.1	9.27	280	174	102	3	4.1	1.1	<0.05	61	<1	<0.5	3	<0.25	<0.2	0.44	7	8	53	72	12	<0.1	<0.01	1.6	1.6	<0.5	123	
		9/11/07	0.5		8.95*	250	188	<25		0.7				<1			<0.25			<1	6	57	38	10	0.2	0.07	1.6	1.9	<0.5	105	6.8*
	8th Street 1/2	7/30/07	<0.1	<1.1	8.57	465	296	115	<3	2.3	0.5	0.07	54	<1	<0.5	2	0.39	<0.2	1.92	3	21	227	22	21	<0.1	<0.01	10.6	10.6	<0.5	154	
		9/11/07	0.2		8.05*	475	320	<25		0.6				<1			<0.25			<1	20	217	20	17	<0.1	0.03	12.3	12.3	<0.5	157	7.2*
	8th Street 2/1	7/31/07	0.4	<1.1	7.65*	415	268	219	3	1.3	0.1	<0.05	404	<1	<0.5	2	0.26	<0.2	3.42	3	14	175	25	24	<0.1	<0.01	10.5	10.5	<0.5	141	
	8th Street 2/2	7/31/07	0.2	<1.1	7.80*	545	370	229	3	0.9	0.4	<0.05	269	<1	<0.5	1	<0.25	<0.2	1.40	1	19	256	20	54	<0.1	<0.01	19.3	19.3	<0.5	143	
Ely Basins	Ely Basin MW-1 Philadelphia St.	8/15/07	0.3	<1.1	8.10*	280	188	59	<3	<0.5	0.6	<0.05	254	<1	<0.5	2	<0.25	<0.2	1.33	1	15	224	28	16	<0.1	<0.01	1.1	1.8	0.7	108	
	Ely Basin MW-2 Walnut St.	8/6/07	0.6	9.2	7.03	1080	700	319	10	1.6	0.4	<0.05	701	<1	<0.5	2	0.40	<0.2	4.15	3	94	535	32	79	0.2	0.02	31.5	31.5	<0.5	265	
	Riverside Dr. (near Ely Basin)	8/6/07	0.2	<1.1	9.16	495	316	<25	<3	0.9	0.4	<0.05	<15	<1	<0.5	3	<0.25	<0.2	0.17	11	23	228	21	34	0.1	<0.01	8.7	8.7	<0.5	166	

Blank cells indicate that analysis was not run for a constituent on that particular date

* Field data not available, values provided by IEUA laboratory

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

	Diluent Water										Recycled Water				
	Imported Water					Local Runoff / Storm Flow									
Date	7th & 8th St.	Ely	Turner	Hickory	Banana	7th & 8th St.	Ely	Turner	Hickory	Banana	7th & 8th St.	Ely	Turner	Hickory	Banana
Jan-07	0	0	0.0	0.0	298.1	59.0	95.0	37.5	16.3	33.4	0.0	58.0	101.6	0.0	0.0
Feb-07	0	0	3.4	0.0	0.0	168.0	150.0	17.3	40.3	73.7	0.0	23.0	64.9	41.6	0.0
Mar-07	0	0	0.0	6.9	41.1	39.0	17.0	28.9	27.7	12.0	0.0	45.0	72.8	0.0	0.0
1Q07 Totals	0	0	3.4	6.9	339.2	266.0	262.0	83.7	84.3	119.1	0.0	126.0	239.3	41.6	0.0
Apr-07	0	0	0.0	0.0	0.0	89.0	59.0	8.6	49.8	29.4	0.0	41.0	22.5	62.6	3.6
May-07	0	0	0.0	0.0	0.0	42.0	14.0	19.4	58.6	37.5	0.0	40.0	136.4	0.0	5.5
Jun-07	0	0	0.0	0.0	0.0	42.0	18.0	11.6	90.0	0.0	0.0	7.0	2.3	0.0	0.0
2Q07 Totals	0	0	0.0	0.0	0.0	173.0	91.0	67.6	306.8	133.8	0.0	88.0	320.0	125.2	18.2
Jul-07	0.0	0.0	0.0	0.0	0.0	15.5	65.0	5.4	93.0	0.0	0.0	0.0	0.0	141.4	0.0
Aug-07	0.0	0.0	0.0	0.0	0.0	15.5	49.6	47.4	93.0	0.0	0.0	0.0	0.0	77.4	0.0
Sep-07	0.0	0.0	0.0	0.0	0.0	16.3	-31.2	15.1	91.9	3.3	128.5	0.0	0.0	14.7	0.0
3Q07 Totals	0.0	0.0	0.0	0.0	0.0	47.3	83.4	67.9	277.9	3.3	128.5	0.0	0.0	233.6	0.0
Oct-07															
Nov-07															
Dec-07															
4Q07 Totals															

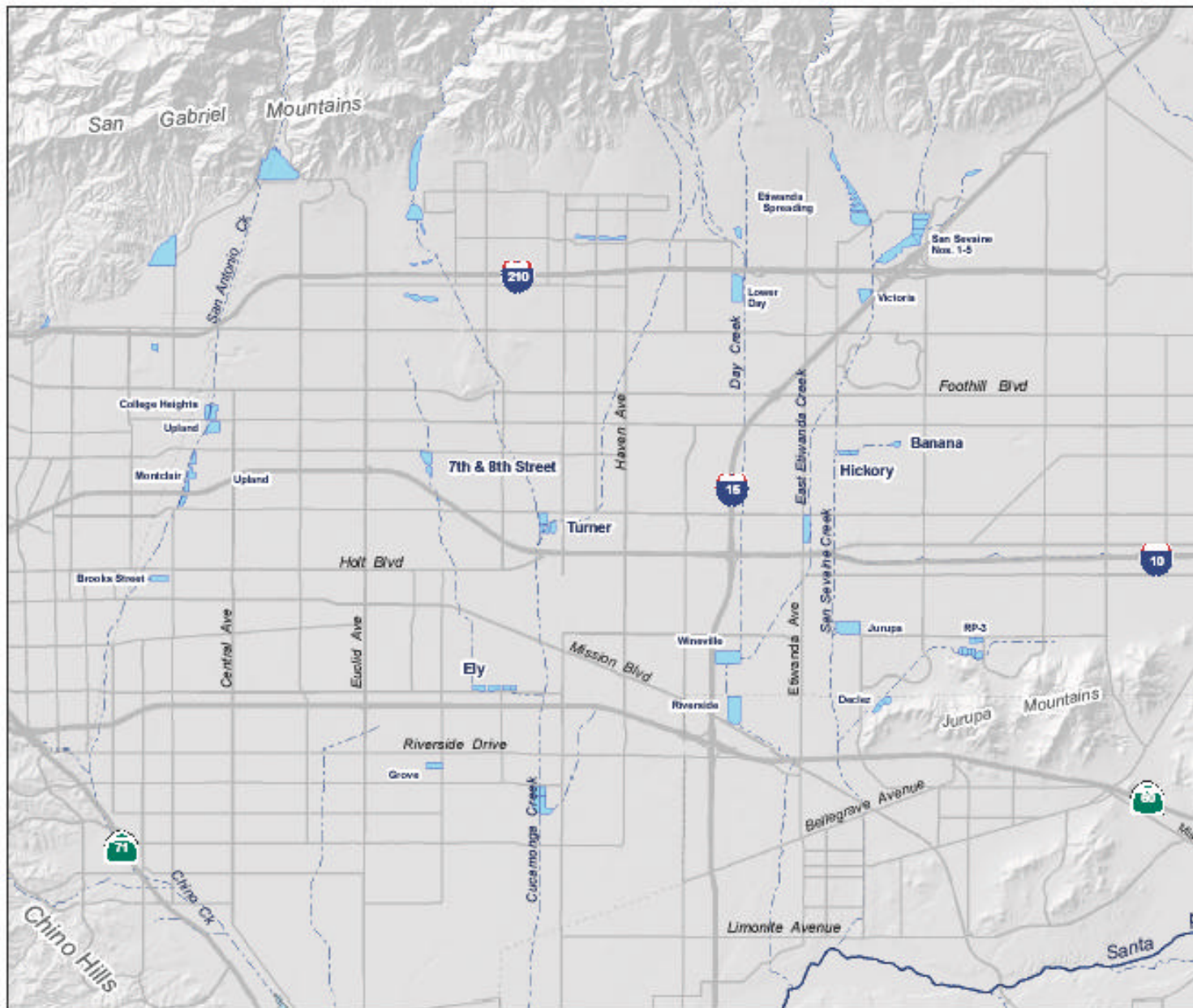
Note: (-) Negative values indicate more water pumped from the basin than was routed to the basin.

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

	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)
2Q07	Apr-07	0			0			0	0	0
	May-07	0			0			0	0	0
	Jun-07	107	0.95	270	0			107	125,595	35,695,445
3Q07	Jul-07	136	0.53	270	0			243	214,328	80,899,240
	Aug-07	71	0.53	270	0			314	260,823	104,585,189
	Sep-07	47	0.53	270	0			362	291,863	120,398,024

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

During 3Q07, WFA-treated water was sampled for TDS and TIN ($\text{NO}_3\text{-N} + \text{NO}_2\text{-N}$, assuming no $\text{NH}_3\text{-N}$ in drinking water) on 7/17/07.

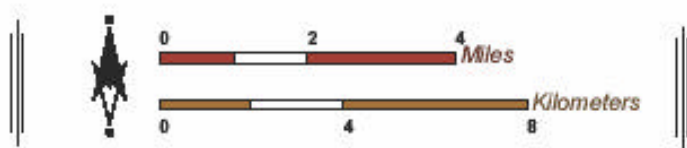


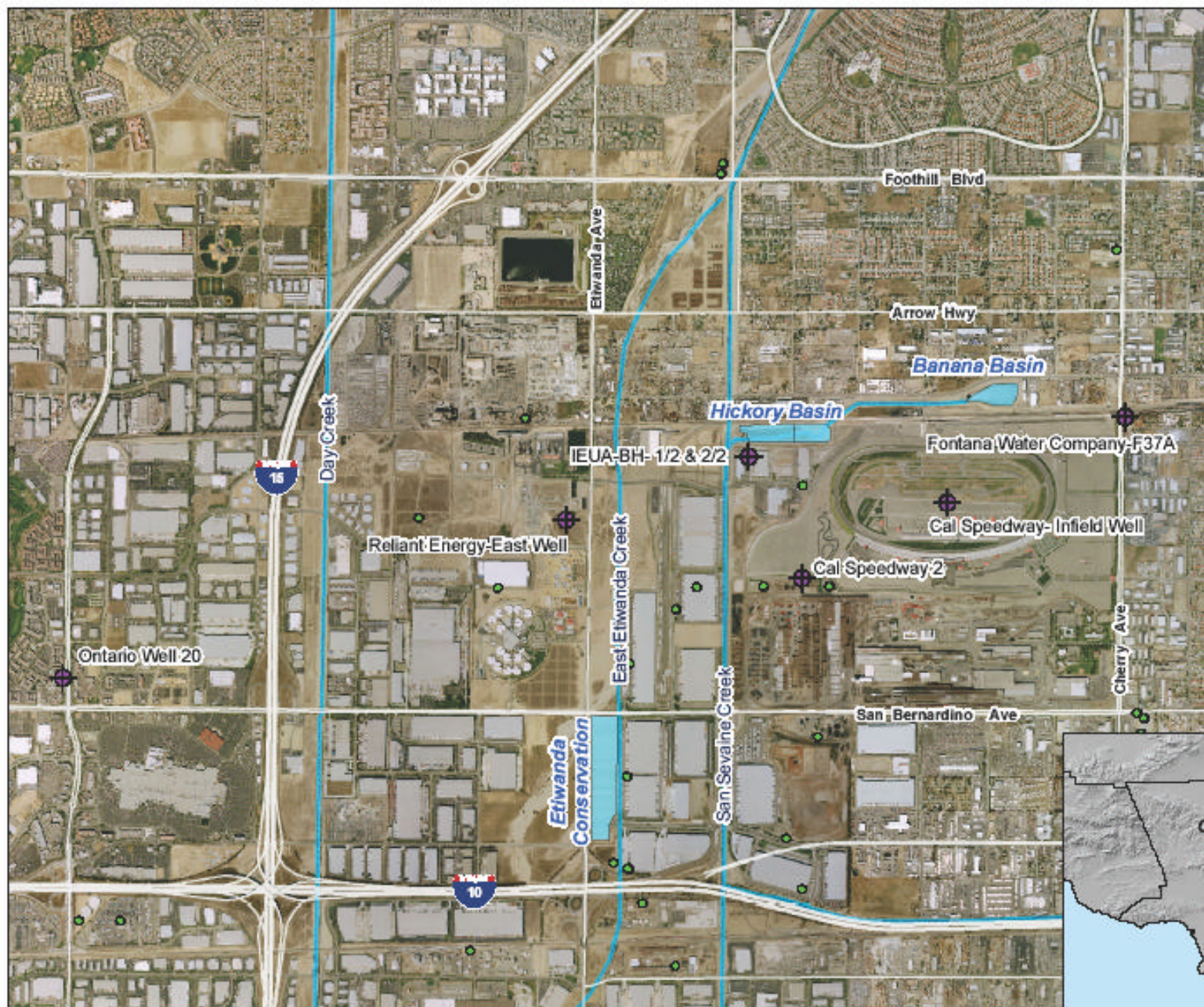
Main Map Features

-  Basins
-  Rivers and Streams



Chino Basin Recycled Water Groundwater Recharge Programs
Basin Locations





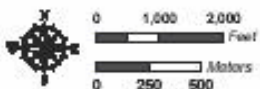
Main Map Features

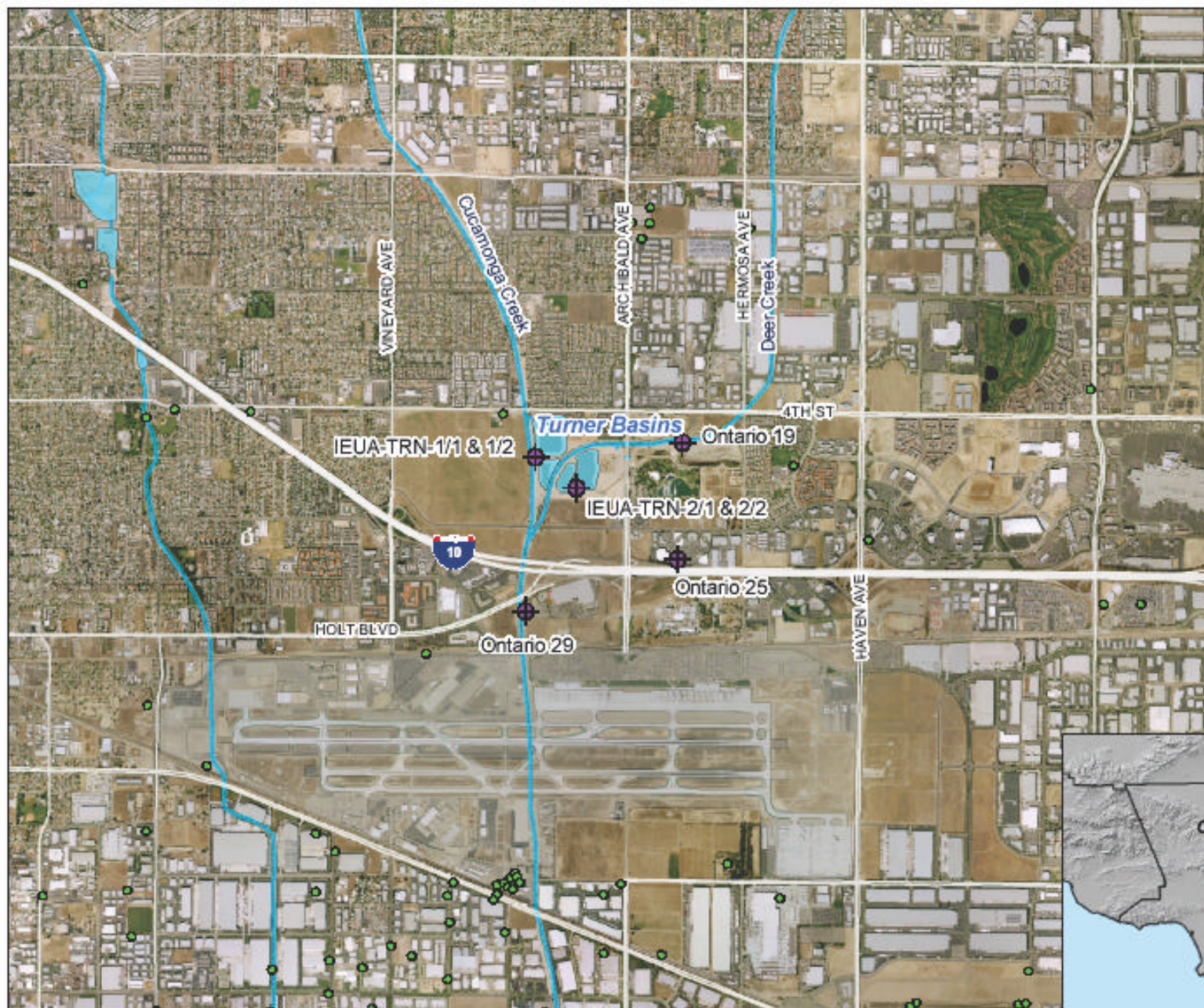
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

Monitoring Well Network
Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program





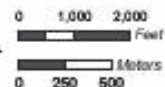
Main Map Features

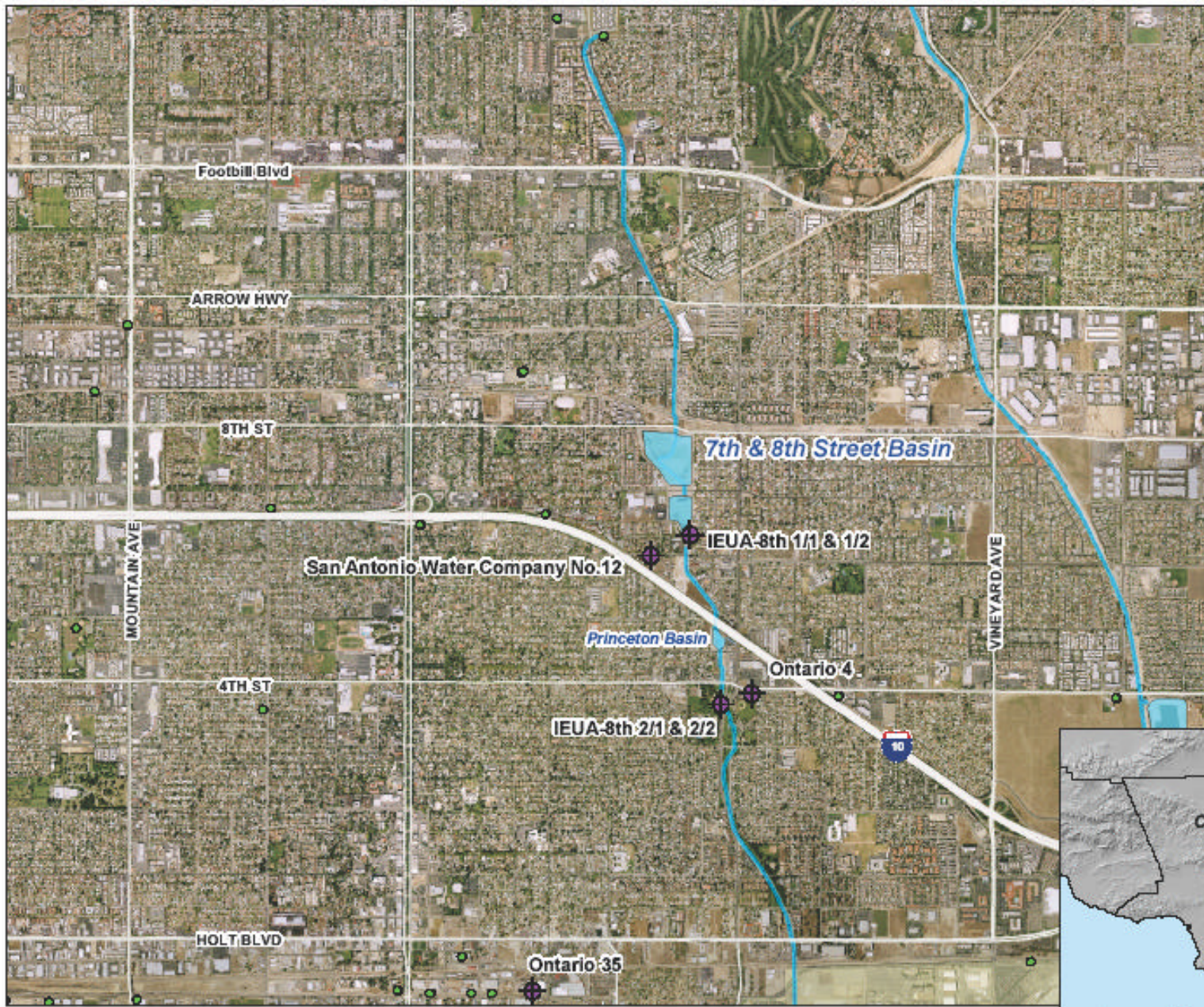
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

Monitoring Well Network
Turner Basins

Figure 2-2

Recycled Water Recharge Program





Main Map Features

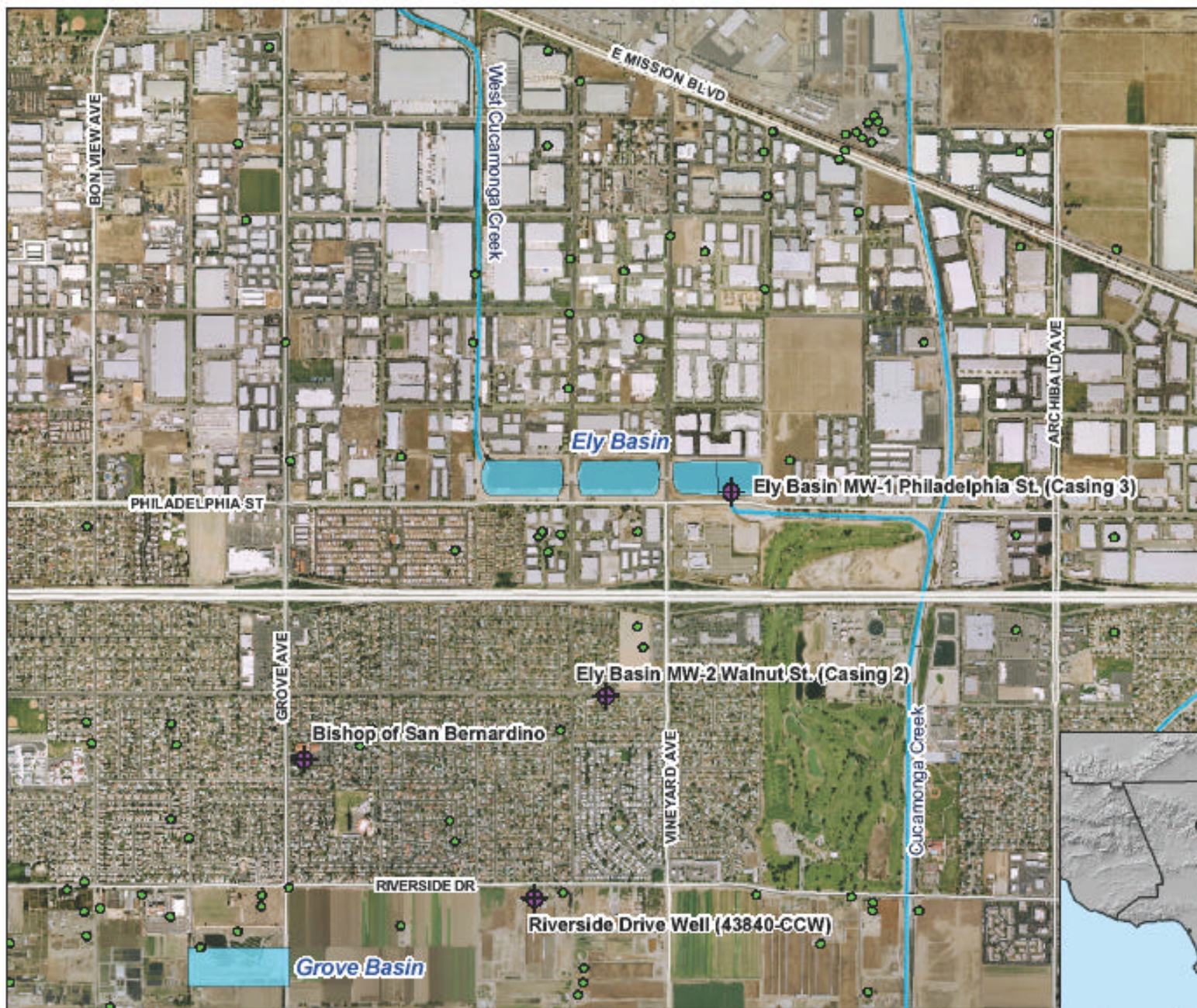
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

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

