

STATE WATER RESOURCES
CONTROL BOARD
2009 JUN -8 PM 4:09

State of California
State Water Resources Control Board
DIVISION OF WATER RIGHTS
P.O. Box 2000, Sacramento, CA 95812-2000
Info: (916) 341-5300, FAX: (916) 341-5400, Web: <http://www.waterrights.ca.gov>

ENVIRONMENTAL INFORMATION
FOR PETITIONS
(THIS IS NOT A CEQA DOCUMENT)

APPLICATION NO. 12622

PERMIT NO. 11360

LICENSE NO. ____

1. DESCRIPTION OF PROPOSED CHANGES TO EFFECTUATE TEMPORARY WATER TRANSFER

Petitioner City of Sacramento ("City") and Co-Petitioner Sacramento Suburban Water District propose to deliver a total of 6,000 acre-feet ("AF") of surface water normally diverted by the City at its Fairbairn Water Treatment Plant on the lower American River. In addition to treating water for delivery to its customers, the City entered into a wholesale water supply contract with Co-Petitioner Sacramento Suburban Water District ("SSWD") under which SSWD acquired firm capacity of 20 mgd in City water treatment and transmission facilities ("Wholesale Agreement"). SSWD uses the treated surface water received from the City to serve its South Service Area customers and to operate a conjunctive use program to protect groundwater resources. The City proposes to transfer 1,000 AF of its water rights water to the Drought Water Bank and would agree to permit SSWD to forego receiving 5,000 AF of its contractual water supplies and to transfer the foregone supplies to the Drought Water Bank.

The water supplies that the City and SSWD propose to transfer to the Drought Water Bank ("DWB") will be used for domestic, municipal and industrial, and irrigation uses within the service area of the State Water Project ("SWP") and Central Valley Project ("CVP"). To make the up to 6,000 AF of water available to the DWB ("Transfer Water"), the City and SSWD will pump groundwater to serve its customers' demands. To accomplish this groundwater substitution transfer, the City and SSWD are requesting that the State Water Board approve the following temporary changes:

1. Allow re-diversion of the Transfer Water at the State Water Project's Harvey O. Banks Pumping Plant via Clifton Court Forebay and Barker Slough Pumping Plant, and the CVP's C.W. "Bill" Jones Pumping Plant and Contra Costa Canal (the SWP and CVP Facilities") as determined by DWR and U.S. Bureau of Reclamation ("Reclamation").
2. Allow use of the Transfer Water within the SWP's and CVP's service areas.
3. Change to points of re-diversion by the addition of the points of re-diversion identified in paragraph 1 above, and changes to the existing purpose of use (municipal) by the addition of domestic, industrial and irrigation purposes of use.

The Transfer Water will be left by the City in the lower American River and Sacramento River, and permitted to flow to the proposed points of diversion at the SWP and CVP Facilities. DWR and Reclamation will coordinate SWP and CVP operations to divert the Transfer Water at the SWP and CVP Facilities. After diversion from the Delta, the Transfer Water will either be put to immediate use in the SWP and CVP service areas, or stored in San Luis Reservoir or other facilities for later use within those service areas. Because of various constraints, it is most likely that the Transfer water will be diverted and conveyed through SWP facilities. Conveyance of the Transfer Water will be scheduled in cooperation with DWR and Reclamation such that it will use available surplus release, pumping and transmission capacity and will not disrupt normal CVP or SWP operations as explained below in Section 8.

Only existing facilities will be utilized to accomplish this transfer. The project does not involve construction or modification of any facilities. Because the DWB is being conducted to replace existing water demands that otherwise would be unfulfilled because of cutbacks in SWP and CVP contractor's entitlements, land uses within the City, SWP and CVP service areas will not change as a result of this transfer. This transfer is critically needed to provide water supplies to SWP and CVP water users, which have experienced several years of below average rainfall and reduced water supply allocations due to a combination of dry hydrology and increased regulatory restrictions on SWP and CVP pumping. Because the proposed transfer is a one-year temporary transfer, and because its purpose is drought relief to make up for these lost supplies, the proposed transfer will not result in any land use changes.

(For more details see Petition)

2. COUNTY PERMITS

a. Contact your county planning or public works department and provide the following information:

Person contacted: Keith DeVore **Date of contact:** May 25, 2009.

Department: Sacramento County Dept. of Water Resources **Telephone:** 916-874-2268.

County Zoning Designation:

N/A.

Are any county permits required for your project?

Yes, under Sacramento County Water Agency Code section 3.40.090.

b. Have you obtained any of the required permits described above?

Yes. Copy of the county permit is attached as Attachment 1.

3. STATE/FEDERAL PERMITS AND REQUIREMENTS

a. Check any additional state or federal permits required for your project:

Neither City of Sacramento nor SSWD requires additional state or federal permits for the proposed transfer. This water transfer will be accomplished within the parameters of all applicable state and federal laws, regulations, and permits.

b. For each agency from which a permit is required, provide the following information:

N/A.

c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed or bank of any stream or lake?

No.

d. Have you contacted the California Department of Fish and Game concerning your project?

Yes. A copy of this petition was sent to the Department of Fish and Game (“DFG”) North Central Regional Manager Sandra Morey at 1701 Nimbus Road, Rancho Cordova, CA 95670 Phone: (916) 358-2899, FAX: (916) 358-2899. The City of Sacramento has not received DFG’s opinion regarding the project, but will provide this information to the appropriate State Water Resources Control Board (“SWRCB”) staff when available. The City expects DFG to indicate that the transfer will not unreasonably affect fish or wildlife resources because of the limited changes proposed, as well as the fact that very similar transfers have been done in the past with no adverse impacts identified by DFG. In fact, in the past DFG has advocated such transfers as part of the transfer of water to the CAL-FED Environmental Water Account (“EWA”).

4. ENVIRONMENTAL DOCUMENTS

a. Has any California public agency prepared a CEQA environmental document for your project?

No. CEQA is not required for this proposed temporary water transfer because temporary water transfers under Water Code § 1725 are statutorily exempt from CEQA. (Water Code § 1729; CEQA Guidelines § 15282(u)). However, see response to 4.c below regarding relevant environmental documents.

b. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency.

N/A.

c. If NO, check the appropriate box and explain below, if necessary:

No environmental document pursuant to CEQA is required for the proposed water transfer that is the subject of this petition. Pursuant to Water Code § 1729, “a proposed temporary change under this article shall be exempt from the requirements of Division 13 (commencing with Section 21000) of the Public Resources Code.” (See also CEQA Guidelines § 15282(u).)

A relevant environmental document prepared for Reclamation’s Finding of No Significant Impact (“FONSI”) for the DWB, dated April 14, 2009, is attached hereto as Attachment 2. The FONSI considered the effects of the 6,000 AF transfer of City water to the DWB as part of its analysis of the DWB.

5. WASTE/WASTE WATER

a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation?

No. This transfer project will not require any construction and its operation will not generate waste or wastewater containing sewage or chemicals of any kind. As explained in Section 8 of this Environmental Information Form, the amount of water proposed for transfer will only slightly increase anticipated 2009 baseline water flows in the lower American and Sacramento Rivers and in the Delta in this dry year and will be within the range of historical flows. This negligible increase in 2009 flows will not cause erosion, turbidity, or sedimentation.

b. Will a waste discharge permit be required for your project?

No.

c. What method of treatment and disposal will be used?

N/A.

6. ARCHEOLOGY

a. Have any archeological reports been prepared on this project?

No. The proposed transfer would not alter the existing physical conditions within the lower American and Sacramento Rivers, or the Delta, in any way that could impact or affect archeological resources within those watersheds.

b. Will you be preparing an archeological report to satisfy another public agency?

No. See response to Question 6a.

c. Do you know of any archeological or historic sites located within the general project area?

No. The project area is very large and there may be archeological or historic sites along the riverbanks or underwater in the lower American and Sacramento Rivers and in the Delta, as well as at Folsom Reservoir. However, as explained in response to Question 6a and elsewhere in this form and the associated petition materials, this transfer project will operate within existing facilities and land uses and therefore will cause no effects to any such resources within the project area.

7. ENVIRONMENTAL SETTING

Attach three complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists at the below-listed three locations. For time extension petitions, the photographs should document only those areas of the project that will be impacted during the requested extension period.

a) Along the stream channel immediately downstream from the proposed point(s) of diversion.

The proposed additional points of redirection are the SWP and CVP Facilities in the southern Sacramento-San Joaquin Delta. There is no stream channel immediately downstream of the SWP and CVP points of diversion because they are the beginning of the California Aqueduct, North Bay Aqueduct, Delta-Mendota Canal and Contra Costa Canal, which all are man-made conveyance facilities. A map of the location of the SWP and CVP Facilities is attached as Attachment 3 hereto.

b) Along the stream channel immediately upstream from the proposed point(s) of diversion.

The stream channels immediately upstream from the SWP's Delta pumping facilities comprise various sloughs and channels in the Sacramento-San Joaquin Delta ("Delta"). (See Attachment 4.) Because of the large geographic area within the Delta, it is not practical to attach photographs. The Delta is an estuarine ecosystem of sloughs and channels that has been heavily modified by agriculture and other human uses for approximately 150 years. During the past 50 years in particular, the natural environment of the Delta has been significantly altered by the construction and maintenance of a vast network of flood control levees. Additionally, dredging and point and non-point water discharges to the Delta have also impacted the environmental setting of the Delta. Added to these physical effects are the serious adverse biological effects of numerous aquatic invasive species, including fish, invertebrates, and plants. No vegetation within the Sacramento-San Joaquin Delta should be adversely affected by the slight increase in anticipated 2009 flows that may occur as a result of this transfer.

c) At the place(s) where the water is to be used.

The water will be used in the SWP and CVP service areas. The service area of the SWP is shown on Map 1878 – 1, 2, 3 and 4 on file with the Division of Water Rights under Application 5630. The service area of the CVP is shown on Map 214-208 – 12581 on file with the Division

of Water Rights under Application 5626. Because of the large geographic area encompassed by these service areas, it is not practical to attach photographs. Similarly, these areas contain various diverse assemblages of native and non-native vegetation and associated habitat types. The proposed water transfer will not affect these environmental resources. By providing additional water supplies during a period of water shortage, this transfer may provide water that supports vegetation, particularly man-made habitats such as outdoor landscaping, orchards and other permanent vegetated areas within the SWP and CVP service areas.

8. ADDITIONAL CONSIDERATIONS

A. Vegetation

No vegetation will be affected by the release of the additional water for this transfer. Therefore, wildlife habitat will not be affected by the proposed addition of the Transfer Water to the lower American and Sacramento River systems. Water use in the proposed new place of use would support the same land-uses that currently exist within the SWP and CVP service areas. This transfer will not cause additional acreage to be developed or put to use, and it will not cause a change or intensification in existing land uses. The transferred water will simply provide much needed water supplies this summer and fall that have been lost due to the synergistic effects of three consecutive years of dry hydrology and regulatory pumping restrictions on SWP and CVP operations.

B. Wildlife and Fish Resources

Reclamation has agreed to implement the reasonable and prudent alternatives that will regulate CVP pumping in 2009, contained in the U.S. Fish and Wildlife Service's 2008 Biological Opinion on the effects of combined SWP and CVP operations on the Delta smelt. (Attachment 5.) DWR's SWP pumping must also comply with these reasonable and prudent alternatives. Additionally, there is close monitoring and coordination between DWR, Reclamation, USFWS, and the National Marine Fisheries Service ("NMFS"), and DFG regarding the effects of combined project operations on the host of species inhabiting the Delta and its tributaries. Similar coordination occurs on the lower American River. This allows the relevant agencies to quickly deal with circumstances as they arise, and to avoid significant impacts to species of special concern (i.e., listed and protected under state or federal laws).

Given the small amount of water involved in this transfer relative to the amount of water in the system and pumped by the projects, it is not expected that any fish species will be adversely affected by the proposed transfer. Similar change petitions and transfers have been granted by the SWRCB in the past to support acquisition of water assets by the EWA. For example, in 2001 the SWRCB issued Order WR 2001-18-DWR, which approved the transfer of 20,000 AF from Placer County Water Agency's Middle Fork Project reservoirs to the California Department of Water Resources to support the EWA. A copy of this order is attached as Attachment 6. Notably, that order found that because "the water proposed for transfer would temporarily benefit fishery resources by providing increased flows and decreased water temperatures in a critically dry year there is no apparent reason why increased flows during the summer would harm fishery resources." (Order; Art. 4.0, p. 2.) Similar circumstances exist this year, and if the

proposed transfer causes any effect on fish, the effect should be the same beneficial effect noted by the SWRCB during the 2001 transfer.

The amount of change in streamflow, water quality, timing of diversion or use, return flows, and effect on legal users of water will be minimal and will cause no adverse economic, physical, or environmental effects. The addition of 6,000 AF to the lower American and Sacramento Rivers is a small increment of the water that will be released from Folsom Reservoir this year. It is anticipated that approximately 21,000 AF will be released from or bypassed at Folsom Reservoir during the transfer period. The 6,000 AF of Transfer Water will be a small portion of this flow, spread over a period of months, which will ultimately be rediverted at the SWP and CVP Facilities in the south Delta. As it moves downstream, the 6,000 AF of Transfer Water will comprise an increasingly miniscule increment of water flow when compared to the average flows in the lower American and Sacramento Rivers, and the Delta. Data from Reclamation's Central Valley Operations Office showing the average Delta outflow and CVP and SWP pumping during the May through October period support this conclusion.

Because Reclamation cannot finalize its official reports and flow calculations until months after the fact, data from May and June 2008 and July through October 2007 are used to illustrate likely baseline conditions to evaluate the potential effect of the proposed transfer. May through October is the relevant time period because water flows during this period are the most susceptible to operational changes as a result of water transfers. This is largely due to the fact that the normal winter storms that alter and often dominate the hydrology of the Delta and its tributaries do not usually occur until November and later; therefore, the Delta and its tributaries are largely controlled by water project operations before these storms occur.

The May – October data provided in this application are the most recent data for the relevant months provided by Reclamation's Central Valley Operations Office in its monthly reports (available at http://www.usbr.gov/mp/cvo/pub_rpts.html). Furthermore, these data are considered representative of likely conditions in 2009 because both 2007 and 2008 were similarly dry or critically dry years. Also, 2007 and 2008 were years in which the SWP and CVP were subject to restrictions on allowable reverse flows in Old and Middle Rivers, which restricted SWP and CVP Delta pumping in order to prevent "take" of the Delta smelt under the U.S. Endangered Species Act. Similar restrictions on reverse flows and related pumping constraints, imposed by the U.S. Fish and Wildlife Service, will likely apply in 2009 as well. Thus, these data provide the Board with information to review the proposed transfer in light of the potential hydrologic conditions likely to occur during the proposed transfer as required by Water Code § 1727(b)(1).

The following table, derived from data in Attachment 7, presents the average Delta outflow and pumping rates in cubic feet per second ("cfs") during the period May through October, which constitutes the primary portion of the proposed transfer period:

2007-2008 Average Daily Delta Outflow and Combined SWP/CVP Pumping in Acre-Feet per Day.*

	May	June	July	August	September	October
Lower American River (AF/day)	2,592	6,795	7,464	5,631	3,431	2,636
Sacramento River at Freeport (AF/day)	17,077	21,996	37,753	34,016	31,023	21,253
Delta Inflow (AF/day)	25,614	26,976	41,983	38,261	34,793	25,479
Combined SWP/CVP Pumping (AF/day)	3,945	4,344	22,575	22,298	19,507	14,953
Delta Outflow (AF/day)	17,093	15,300	11,466	8,051	10,726	8,011

* Data from Reclamation operations reports (See Attachment 7 and text for explanation).

The 6,000 AF of Transfer Water will not be transferred all at once, but will be left in the lower American River below the Fairbairn Treatment Plant and conveyed across the Delta to the SWP and CVP Facilities over a period of time during the remainder of 2009, all within existing pumping and other regulatory constraints. As indicated from the table above, in comparison to the amount of Transfer Water, much larger volumes of water are expected to move through the lower American and Sacramento Rivers and the Delta. Thus, the transfer of an additional 6,000 AF over several months would increase flows by only a very small amount of the total in any of the water bodies listed and would also cause only a very small increase to Delta pumping. Thus, while the exact operations required to implement the proposed transfer cannot be stated with precision at this time, the transfer will only negligibly affect streamflows, water quality, timing of diversion or use, return flows, and effect on legal users of water.

The hydrologic systems and project operations affected by this transfer experience wide fluctuations in river stages and pumping operations due to natural events and because of other water project operations such as compliance with D-1641. The data presented represent the low flow and low pumping circumstances that are likely to occur in 2009. The fact that river flows and pumping rates are greater in average and wetter years also supports the conclusion that slightly increased flows caused by this transfer, with a concomitant increase in SWP and CVP pumping rates, will not significantly or unreasonably affect streamflow, water quality, timing of diversion or use, return flows, or other legal users of water. This is particularly true in this case because the 6,000 AF of Transfer Water is intended to replace cutbacks in contractual entitlements that normally would be conveyed by the SWP and CVP to their contractors and water users downstream of the Delta.

Because of the minimal changes in existing conditions, other legal users of water will not be adversely affected by the proposed transfer. The only effects of this transfer on other legal users of water will be a very slight increase in river flows than otherwise would occur this year because of additional flows in the lower American River, which otherwise would be withdrawn by the City for itself and SSWD, to the proposed points of redirection at the SWP and CVP Facilities. Furthermore, when the Transfer Water is diverted by the SWP and CVP Facilities, all existing state and federal regulations will be complied with, including Decision 1641, State and Federal endangered species acts, and all biological opinions and take permits.

C. City of Sacramento Groundwater Substitution Transfer Information

The City of Sacramento proposes to institute a groundwater substitution program that will pump additional groundwater in an amount equivalent to 1,000 AF between July 1, 2009 and September 30, 2009, which it would otherwise receive through surface water diversions.

The operation of the City's well field averages 21,500 acre feet per year and has fluctuated between 15,400 acre-feet per year to as high as 24,500 acre-feet per year. In 2009, the City anticipates pumping approximately 20,200 acre-feet. The City does not anticipate having an adverse impacts on the groundwater basin or on other groundwater producers in and adjacent to the City's service area.

D. SSWD Groundwater Substitution Transfer Information

1. Introduction

SSWD proposes to make available its 5,000 AF of Transfer Water to the DWB through a groundwater substitution program. SSWD will pump an equivalent amount of groundwater to serve municipal and industrial demands within the District's South Service Area in lieu of using treated surface water diverted from the lower American River under its contractual entitlement from the City. SSWD owns and operates all of the wells that will be pumped for this program. The wells that SSWD will use are all located in its South Service Area, and are shown on Attachment 8. SSWD's and the Department of Public Health's identification numbers are provided in Attachment 9. Almost all wells pumped by SSWD are electric powered and therefore no adverse air quality impacts are expected from this pumping.

The South Service Area wells that SSWD will use in its groundwater substitution program are integrated into its water system. SSWD will use those wells to meet demands as they occur within the South Service Area. SSWD has provided DWR and Reclamation with technical information concerning the wells that will be pumped for this proposed groundwater substitution transfer to the DWB. SSWD will report monthly groundwater production and use to the DWB for each well used in the program.

2. SSWD's Groundwater Pumping Will Not Impact other Groundwater Pumpers

SSWD does not anticipate that groundwater pumping for the proposed transfer will have an adverse impact on other groundwater pumpers in the groundwater basin north of the American River from which it pumps ("North Area Basin"). In 2009, to facilitate the transfer proposal, SSWD is planning to pump a total of approximately 38,000 AF of groundwater (19,000 AF in

both its North Service Area and South Service area respectively). The amount of groundwater production represents an increase over most years since SSWD began to conjunctively use surface water, but is a quantity that SSWD has historically pumped in previous years when SSWD's predecessors used exclusively groundwater and when there has been a limited supply of surface water available for importation. Considered with projected basinwide pumping in 2009, SSWD's anticipated increase in production will still total less than the basin's long-term sustainable yield of 131,000 AF. Therefore, SSWD's transfer proposal should not adversely affect other pumpers in the basin or cause any harm to the basin.

3. SSWD's Pumping is Consistent with the SGA Groundwater Management Plan

SSWD's groundwater pumping and conjunctive use activities are consistent with the Sacramento Groundwater Authority's Groundwater Management Plan ("SGA GMP"), which was adopted in 2003 pursuant to Water Code section 10753.7 and amended in December 2008. SSWD's proposed pumping to effectuate the proposed groundwater substitution transfer is consistent with the SGA GMP's Basin Management Objectives and would not adversely impact the groundwater basin. Most important, SSWD been importing surface water into both its North and South Service Areas, which has helped stabilize groundwater levels in the central portion of the North Area Basin. Since the mid-1990s, groundwater elevations in the North Area Basin have stabilized due to these efforts and, in some cases, groundwater elevations are continuing to increase slightly. (See Attachment 10.) By limiting the quantity of groundwater pumped, SSWD has helped maintain high groundwater quality at its well sites by helping limit migration of contaminants from the former McClellan Air Force Base. As part of this effort, SSWD has consistently coordinated with federal and state regulators to ensure all necessary efforts are being undertaken by the responsible parties to protect drinking water sources from contamination by plume migration.

4. SSWD's Groundwater Pumping is Consistent with Historic Trends

Between 2003 and 2007, the total municipal and industrial groundwater production in the SGA groundwater management area was approximately 80,000 to 90,000 AFA as shown in Attachment 11. While the SGA GMP does not track the groundwater production of independent agricultural and self-supplied users, SGA estimates that these users produce and use an additional 20,000 AFA, including 10,000 AFA by some of the independent agricultural users outside of the Natomas Central Mutual Water Company service area and another 10,000 AFA by other self-supplied users. Thus, total groundwater production during this time period is estimated at approximately 100,000 to 110,000 AFA.

In 2007, a historically dry year with limited surface water available to it, SSWD pumped approximately 38,000 AF of groundwater and served a total demand of approximately 45,000 AF. Based upon SSWD's seasonal production well groundwater level monitoring, average groundwater levels in April 2008 returned to April 2007 levels in the South Service Area and rebounded to a higher level than April 2007 in the North Service Area. (See Attachment 12.) Also, October 2008 groundwater levels showed a return to historic Fall levels, which demonstrates the benefit of again importing significant surface water supplies into the basin in

2008. Thus, historic data indicates that even during dry years when there is heavy reliance on groundwater resources, the North Area Basin is able to rebound on a seasonal and long-term basis through importing surface water for in-lieu recharge.

5. Proposed Groundwater Pumping is Within the Basin's Sustainable Safe Yield

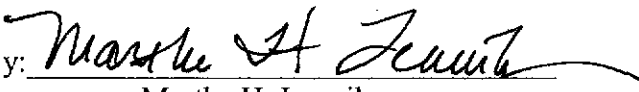
When this SSWD transfer proposal is combined with its groundwater substitution transfer proposal for 12,000 AF of water from its Placer County Water Agency contractual entitlement (See petitions under Applications 18085 and 18087 filed May 18, 2009), it is projected that SSWD's 2009 groundwater demand conditions will be similar to 2007 because SSWD was able to import only a limited amount of surface water after April of that year, and SSWD therefore relied mostly on groundwater resources to serve customer demands through the remainder of 2007. Because high groundwater demand in 2007 was driven primarily by dry springtime conditions and 2009 appears to be slightly less dry, SSWD is estimating that total 2009 demand will be approximately 41,000 AF, and 37,850 AF of groundwater will be used to serve this demand. Thus, SSWD is anticipating groundwater production similar to that seen in 2007, and given the fact that the central portion of the North Area Basin rebounded between October 2007 and April 2008, SSWD anticipates that under similar conditions in 2009 the central portion of the North Area Basin should recover to pre-transfer levels.

CERTIFICATION

I hereby certify that the statements I have furnished above and in the attached exhibits are complete to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge.

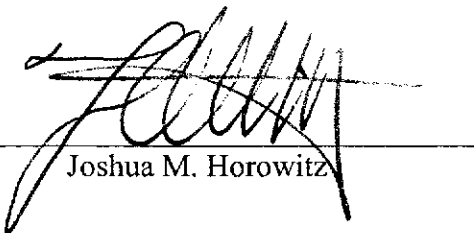
Date: June 4, 2009

LENNIHAN LAW, A Professional Corporation
Attorneys for City of Sacramento

By: 
Martha H. Lennihan

Date: June 4, 2009

BARTKIEWICZ, KRONICK & SHANAHAN
Attorneys for Sacramento Suburban Water District

By: 
Joshua M. Horowitz

**Application to Permit the Export of Groundwater or Surface Water out of Sacramento County
(SCWA Code, Title 3, Section 3.40.090 Groundwater and Surface Water Export)**

**Name and Address
of Applicant:**

Sacramento Suburban Water District
c/o Robert Roscoe, General Manager
3701 Merconi Avenue, Suite 100
Sacramento, CA 95821-6346

Owner of Source:

City of Sacramento
c/o Utilities Department
1395 35th Avenue
Sacramento, CA 95822

**Owner of Place
of Use:**

City of Sacramento - American River Water Rights Place of Use
Sacramento Suburban Water District - South Service Area

**Consulting Engineer:
(Plan and Design
of Work)**

Tully & Young, Inc.
3600 American River Drive, Suite 280
Sacramento, CA 95864

**Description of
proposed action:**

Please see transfer proposal submitted to SCWA under separate cover on
March 26, 2009.

Location of source(s): American River

Point(s) of use:

Lower American River (point of diversion)
Sacramento Suburban Water District - South Service Area (place of use under City/
SSWD Wholesale Agreement)

**Justification for
proposed action:**

Please see transfer proposal submitted to SCWA under separate cover on
March 26, 2009.

_____ To Be Completed by the Sacramento County Water Agency _____

Is proposal in conformance with County water planning policies adopted and revised from time to time by the County and the Sacramento County Water Agency?

Yes No Comment: _____

Will proposal impose liability on the County or the Water Agency?

Yes No Comment: _____

Does proposal cause adverse impacts on the source, the area of use, or the environment?

Yes No Comment: Short term, less than one year

Is this proposal consistent with the general plan of the County of Sacramento, the water plan of the Sacramento County Water Agency?

Yes No Comment: _____

Is this proposal consistent with a specific plan of the County or Water Agency which may be affected by the work or activity?

Yes No Comment: No impact

Pursuant to the findings contained herein, this Application is Approved Denied

Permit No: 2009-001

Sacramento County Water Agency

Signature: Keith DeVore

Name: Keith DeVore

Title: Director of Water Resources

Date: 4-30-09

FINDING OF NO SIGNIFICANT IMPACT

2009 DROUGHT WATER BANK

United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region
Sacramento, California

Recommended: Rebecca Victoine 4/14/09
Natural Resource Specialist Date

Concur: Timothy B. ... 4/14/09
Program Manager Date

Concur: Tracy ... 4/14/09
Program Management Branch Chief Date

Concur: Mike ... 4/14/09
Regional Environmental Affairs Officer Date

Approved: Paul ... 4/14/09
Regional Resources Manager Date

FONSI Number: 09-03-MP

2009 DROUGHT WATER BANK

**Bureau of Reclamation
Mid-Pacific Region
Sacramento, California**

BACKGROUND

Since 2007 and 2008 were critically dry years and reservoir storage levels are expected to be low in 2009, it is likely that some California water providers will need to supplement local and imported supplies with water transfers from willing sellers. Based on the initial water supply allocations from the CVP and SWP, the nature of the supply shortage will likely severely limit supply for existing agricultural use and limit supply for municipal needs including minimum health and safety requirements. To help facilitate the transfer of water throughout the State, the Department of Water Resources (DWR) proposes to initiate a 2009 Drought Water Bank (DWB). To implement the DWB, DWR will purchase water from willing sellers upstream of the Sacramento-San Joaquin Delta (Delta). This water will be conveyed, using State Water Project (SWP) or Central Valley Project (CVP) facilities, to water users that are at risk of experiencing water shortages in 2009 due to drought conditions and that require supplemental water supplies to meet anticipated demands. The Governor of California has requested emergency drought assistance under the Reclamation States Emergency Drought Relief Act of 1991 (Act), Public Law 102-250, as amended. The Commissioner of the Bureau of Reclamation (Reclamation) has determined that emergency drought assistance is merited. The Mid Pacific Region of Reclamation will participate in the DWB pursuant to Section 101 of the Act, to ensure that operations of the two projects can be coordinated effectively to maximize the ability of the DWB to move water from willing sellers to buyers to address critical water needs. Reclamation will review and approve, as appropriate, proposed transfers by CVP contractors in accordance with the Interim Guidelines for the Implementation of Water Transfers under the Central Valley Project Improvement Act (CVPIA).

Since the transfers Reclamation proposes to approve for the DWB represent only a portion of overall transfers supporting the DWB, the DWB is not dependent upon Reclamation's approval, and DWR would likely proceed with DWB transfers that do not require Reclamation's approval, the Proposed Action only includes those actions over which Reclamation has approval authority. The remainder of the transfers that could occur under the DWB are considered in the context of cumulative impacts.

Twenty CVP contractors have expressed interest in submitting proposals for transfer of water to DWR for the 2009 DWB. Subject to approval in accordance with the Interim Guidelines for the Implementation of Water Transfers under the CVPIA, as applicable, Reclamation proposes to approve these transfers. The proposed action would make water available to the DWB from willing sellers upstream of the Delta during the 2009 water year only. A total of up to 199,885 af of CVP water would be made available for transfer through a combination of crop idling, crop substitution, groundwater substitution, and

reservoir reoperation.

An environmental assessment (EA) was prepared to evaluate the potential environmental impacts associated with the proposed action and the no action alternative. The EA is attached for reference. The estimates analyzed in the EA reflect the potential upper limit of available water. However, actual transfers would depend on hydrology, DWB funding (interested buyers), and the amounts that sellers would ultimately have available for transfer in 2009, as well as compliance with CVPIA transfer requirements, as applicable.

Also, not all of the potential buyers analyzed in the EA may end up actually purchasing water from the DWB in 2009. It is anticipated that water made available to them from the DWB would be prioritized based on criteria DWR developed as follows: existing health and safety domestic needs, municipal supply subject to water shortage contingency plan measures, and agricultural irrigation for existing crops and livestock subject to water shortage contingency plan measures. Buyers' participation in the DWB will be subject to the terms identified in on DWR's DWB website (<http://www.water.ca.gov/drought/>), including meeting a needs assessment and having a plan with the goal of 20% reduction in water demand based on conservation efforts.

FINDINGS

In accordance with the National Environmental Policy Act of 1969, as amended, the Mid-Pacific Regional Office of the U.S. Bureau of Reclamation (Reclamation) has found that the approval of proposed transfers of CVP water in support of the 2009 DWB is not a major Federal action that would significantly affect the human environment. Therefore, an environmental impact statement is not required.

This finding of no significant impact is based on the following:

Surface Water Resources: Acquisition of water via crop idling would reduce water supply for Sacramento River users not participating in the DWB who rely on return flows from fields that, under the proposed action, would be idled. In order to minimize this impact, sellers would be required to maintain water levels in drainage systems that do not reduce supplies to downstream users.

Groundwater substitution could decrease water levels in neighboring surface water channels. Well reviews and monitoring programs will be implemented in accordance with all applicable local, regional and State regulations and basin management objectives to minimize this potential impact.

Acquisition of water via groundwater substitution or crop idling would change the rate and timing of flows in the Sacramento and Lower American Rivers. However, flow and temperature requirements, including Water Right Orders 90-5 and 91-1 temperature control planning requirements for the Sacramento River, will continue to be met under the proposed action, which would minimize the magnitude of such changes.

Transfer of stored reservoir water from Reclamation via Orland Unit Water Users Association could reduce carryover storage compared to the no action alternative. To avoid potential adverse effects, DWR and Reclamation will not approve reservoir reoperation transfers that would draw down reservoirs beyond historic operational levels. Additionally, the State Water Resources Control Board will review the proposed reservoir release to ensure that potential effects to supply or to other legal users will be minimized.

Water transfers will be conveyed through existing facilities. Water transfers involving conveyance through the Delta will be implemented within the operational parameters of the Biological Opinions on the Continued Long-term Operations of the CVP/SWP (Opinions) and any other regulatory restrictions in place at the time of implementation of the water transfers. Current Operational parameters applicable to conveyance of transfer water for the DWB include: a maximum amount of 600,000 acre feet per year is allowed for all types of water transfers; and transfer water will be conveyed during July through September only. Contract provisions of the SWP and CVP will be honored in determining access to Delta pumping capability if this capacity becomes constrained.

Under the Proposed Action, additional water supply would benefit water users who meet the previously mentioned critical needs criteria for existing uses only. Given these factors, the effects of the Proposed Action on surface water resources will not be significant.

Groundwater Resources: Crop idling and groundwater substitution transfers under the proposed action could affect groundwater resources, including changes in groundwater levels and related secondary effects. Also, groundwater pumping within the vicinity of a surface water body could change existing interactions between surface water and groundwater, potentially adversely affecting riparian habitat and downstream users. Excessive groundwater extraction from confined and unconfined aquifers could result in a lowering of groundwater levels and, in confined aquifers, a decline in water pressure, increasing the potential for subsidence. Changes in groundwater levels or in the prevailing groundwater flow regime could cause a change in groundwater quality through a number of mechanisms.

Well reviews and monitoring and mitigation plans will be implemented under the proposed action to minimize potential effects to groundwater resources. These reviews and plans will be required from sellers for review by DWR and Reclamation during the transfer approval process. DWR and Reclamation will be responsible for ensuring that well reviews and monitoring and mitigation plans are coordinated and implemented in conjunction with local ordinances, basin management objectives, and all other applicable regulations. Therefore, the Proposed Action will not have a significant adverse impact on groundwater resources.

Water Quality: Transfer of water via stored reservoir water, groundwater substitution and crop idling under the proposed action would alter surface water elevation and reservoir storage in Lake Shasta and Folsom Reservoir. However, any differences in water surface elevation and reservoir storage would not be of sufficient magnitude and frequency to affect water quality in such a way that would result in long-term adverse effects to designated beneficial uses, exceedance of existing regulatory standards or substantial degradation of water quality. Also, transfer of water under the proposed action via stored reservoir water, groundwater substitution, and crop idling under the proposed action would not substantially change Sacramento or Lower American River flows or water temperatures.

Because there would be little to no increase in sediment transport under the proposed action as compared to the no action alternative, there would be little to no decrease in the physiochemical qualities of surface water and adverse effects to designated beneficial uses, exceedance of existing regulatory standards, or substantial degradation of water quality would not be expected.

Because there would be less total leaching potential under the proposed action as compared to the no action alternative due to a decrease in applied irrigation water with crop idling, there would not be a decrease in water quality due to timing and application of water to the land as a result of crop idling. In fact, there would potentially be an improvement in the quality of surface water runoff returning to rivers and lakes.

Under the Proposed Action, there would be an increase in the amount of groundwater substituted for surface water under the proposed action, as compared to the no action alternative. However, this increase would be so small in comparison to the amount of surface water currently used to irrigate agricultural fields that the quality of the surface water, even after mixing with groundwater, would not be substantially decreased. The previously mentioned reviews, monitoring and mitigation plans that will be required of sellers will also minimize the potential for adverse effects to water quality from groundwater substitution under the proposed action.

Conveyance of transfer water under the Proposed Action will be implemented using standard CVP and SWP operating procedures designed to improve the water quality to users south and downstream of the Delta. Carriage water will be used to protect and maintain chloride concentrations in the Delta and Reclamation will only approve water transfers under the proposed action if they meet all of the required provisions of DWR's acceptance criteria governing conveyance of non-Project water through the California Aqueduct. Therefore, the proposed action would not have a significant adverse effect on water quality.

Geology and Soils: Water transfers via crop idling would result in temporary conversion of lands from rice crops to fallowed fields. However, the rice crop cycle and soil texture reduces the potential for erosion. Therefore, there would be little to no soil loss from wind erosion off the idled rice fields, and the proposed action would not significantly affect geology and soils.

Agriculture and Land Use: Water transfers via crop idling would temporarily alter agricultural land use conditions. However, temporal (one year) water transfers from the DWB are expected to contribute a relatively small amount of rice idling acreage in relation to the normal variation in planted rice acreage resulting from typical farming practices. To minimize potential adverse impacts to agricultural land use, proposed water transfers would be approved only if no more than 20 percent of rice fields would be idled cumulatively (from all sources of fallowing) in each county. If crop idling would change the classification of farmland to levels less than Prime Farmland, Farmland of Statewide Importance, or Unique Farmland under the Farmland Mapping and Monitoring Program and Prime Farmland under the Williamson Act, Reclamation would not approve transfer of water from that parcel. Therefore, the Proposed Action will not have a significant adverse impact on agriculture and land use.

Vegetation and Wildlife: Decreasing groundwater levels could reduce part of the water base for habitat. The well review and required monitoring and mitigation plans described in the groundwater section would minimize or avoid potential adverse effects to habitat from groundwater - surface water interaction.

Crop idling under the proposed action would reduce return flows, potentially affecting neighboring managed seasonal wetlands. As a part of the contractual agreements, DWR will require the willing seller of water for crop idling to maintain their drainage systems at a water level that will maintain existing wetlands and provide habitat for western pond turtle.

Crop idling of seasonally flooded agricultural land under the Proposed Action could reduce the amount of over winter forage for migratory birds. In order to limit reduction in the amount of over-winter forage for migratory birds, Reclamation will avoid or minimize actions near known wintering areas and areas that support core populations of special status species such as the black tern and greater sandhill crane. Therefore, the Proposed Action will not have a significant impact on vegetation and wildlife.

Fisheries: Potential changes in flows and water temperatures under the Proposed Action would not be of sufficient frequency or magnitude to affect Chinook salmon or steelhead adult immigration, spawning, egg incubation, and initial rearing, or juvenile rearing and emigration. Transfers involving conveyance through the Delta will be implemented within the operational parameters of the Biological Opinions on Continued Long-term Operations of the CVP/SWP. Water transfers under the Proposed Action will be implemented in accordance with meeting flow and temperature requirements on the

Sacramento River. Therefore, the Proposed Action will not have a significant impact on fisheries.

Special Status Species: In compliance with Section 7 of the Endangered Species Act, Reclamation conducted formal consultation with the Service on the Proposed Action. Reclamation has determined that the Proposed Action is not likely to adversely affect the San Joaquin kit fox and may adversely affect the giant garter snake (GGS).

The 2009 DWB will adopt the crop idling conservation measures from the Environmental Water Account (EWA) Biological Opinion (2004) with some modifications. The following conservation measures to protect the giant garter snake (GGS) will be incorporated into contracts between DWR and the water seller:

- The block size of idled rice parcels will be limited to 320 acres in size with no more than 20 percent of rice fields idled cumulatively (from all sources of fallowing) in each county, or area within 1 mile of the following refuge areas: Sacramento National Wildlife Refuge Complex (Sacramento, Delevan, Colusa, Sutter, Butte Sink and Llano Seco Unit), Gray Lodge Wildlife Area (WA), Upper Butte Basin WA, and Gilsizer Slough Conservation Easement. The 320-acre blocks will not be located on opposite sides of a canal or other waterway, and will not be immediately adjacent to another fallowed parcel (a checkerboard pattern is the preferred layout);
- Parcels participating in crop idling for the 2009 DWB will not include:
 - Lands between Refuges that serve as corridors: lands adjacent to Hunters and Logan Creeks between Sacramento National Wildlife Refuge (NWR) and Delevan NWR; the Colusa Basin drainage canal between Delevan and Colusa NWRs; Little Butte Creek between Llano Seco (NWR unit) and Upper Butte Basin WA; and Butte Creek between Upper Butte Basin and Gray Lodge WA;
 - Lands adjacent to Butte Creek, Colusa Drainage Canal, Gilsizer Slough, the land side of the Toe Drain along the Sutter Bypass, Willow Slough and Willow Slough Bypass in Yolo County, and
 - Lands in the Natomas Basin;
- The water seller will maintain a depth of at least two feet of water in the major irrigation and drainage canals (but never more than existing conditions) to provide movement corridors;
- Water will not be purchased from a field fallowed by another program in the two previous years;
- As part of a Giant Garter Snake Baseline Monitoring and Research Strategy for the development of a GGS Conservation Strategy, DWR and Reclamation

are proposing research goals to help quantify and evaluate the response of the GGS to riceland idling.

- In addition, during formal consultation with the Service, Reclamation has committed to implementing the following measures as described in the April 14, 2009 Biological Opinion:
 - Reclamation will work with DWR to document the compliance with the commitment to assure that idled parcels are no more than 320 acres in size, not located across a canal or other waterway, are not immediately adjacent to another fallowed parcel, and are distributed across the landscape in a checkerboard pattern.
 - Reclamation will reject parcels that do not conform to these criteria from participating in the DWB.
 - Reclamation will create maps showing the location of parcels enrolled to sell water to the DWB by rice fallowing or crop substitution which demonstrate compliance with the spatial criteria for fallowing rice. Reclamation will provide the maps to the Service by June 14, 2009.
 - Reclamation will gather information on the level of participation by DWB entities in the BMP's for giant garter snake.
 - Reclamation will provide this information to the Service at the end of August 2009.
 - Reclamation will submit a monthly compliance report prepared by DWR to the Sacramento Fish and Wildlife Office beginning thirty (30) calendar days from signing contracts to participate in the DWB. This report will detail: (i) total acreage affected and location where the fallowing occurred; (ii) confirmation that acreage fallowed conformed to the checkerboard pattern; (iii) confirmation that buffer zones have been complied with; (iv) confirmation that water levels are being maintained in ditches around affected fields; (v) occurrences of incidental take of any giant garter snake, if any; (vi) an explanation of failure to meet such measures, if any; and (vii) other pertinent information.

In their April 14, 2009 Biological Opinion (BO), the Service concurred that the Proposed Action is not likely to adversely affect the San Joaquin kit fox and determined that the proposed action is not likely to result in jeopardy to the giant garter snake (GGS). The proposed conservation measures that have been coordinated with the Service and will be incorporated into the Proposed Action will minimize adverse impacts to GGS populations by reducing stressors, and therefore the Proposed Action will not have a significant impact on GGS. The BO also determined that effects of the Proposed Action on delta smelt were included in the consultation for the Continued Long-term Operation

of the Central Valley Project and State Water Project, and that no additional adverse effects to delta smelt will occur beyond those evaluated in that consultation.

Air Quality: Increased groundwater pumping under the Proposed Action will increase NO_x emissions. Reclamation, DWR and willing sellers will work together to implement one, or a combination, of the following mitigation measures to reduce air quality impacts within their district: retrofit non-program pumps in amounts necessary to offset the maximum increases in project-related air pollutant emissions; or purchase offsets to compensate for producing project-related emissions. Inclusion of the proposed mitigation measures into the Proposed Action will ensure that the Proposed Action will be implemented in compliance with all applicable air quality standards, and therefore will not have a significant impact on air quality.

Power: The proposed action will not change the amount of water that is released from the reservoirs, but could alter the release pattern. Buyers will be responsible for covering any additional costs associated with changes in release patterns. The proposed action will result in an average electricity increase at the Project pumps during July, August, and September, depending on the amount of water actually transferred under the proposed action. In addition, groundwater wells in the Sacramento Valley will increase their use of electricity for water supply replacement. However, this increase in electricity use will represent less than 2 percent of the projected statewide electrical surplus during these months. Therefore, the Proposed Action will not have a significant impact on power.

Cultural Resources: Under the Proposed Action, Reclamation will not approve transfers that would drawdown reservoirs beyond historic operational levels. If reservoir operations remain within historic levels, then the proposed action will have no potential to affect historic properties pursuant to the regulations at 36 CFR Part 800.3(a)(1) resulting in no affect to cultural resources.

Indian Trust Assets: Based on the actions to be undertaken it is determined that there will be potential effects to Indian Trust Assets (ITAs). However, during the transfer approval process, if Reclamation identifies potential impacts to ITAs, tribal consultation will then precede any approval of a DWB groundwater transfer in the vicinity of the identified tribes and avoidance and mitigation measures will be collaboratively developed and implemented by sellers so that the Proposed Action will not have a significant impact on ITAs.

Socioeconomics: The maximum amount of water that will be made available by crop idling under the Proposed Action is 183,385 af. This equates to approximately 55,571 acres of crop idling. However, it is likely that the actual amount of water that is actually transferred via this method in 2009 will be less. This is a worst case scenario analysis. In order to avoid or decrease adverse social effects on community stability, Reclamation and DWR will not approve DWB water transfers via crop idling if more than 20 percent of recent harvested rice acreage in the county would be idled.

Therefore, the Proposed Action will not have a significant adverse impact on socioeconomics.

Environmental Justice: Because of the farmworker profile, crop idling could have disproportionate effects on low income and minority farmworkers. However, to minimize the potential for this effect, crop idling (from all sources) would be restricted to no more than 20% of rice acreage in any county. The proposed action also has the potential benefit of alleviating the need for some idling and or farm laborer job loss in areas receiving transfer water through the DWB. As the Proposed Action would not disproportionately expose low income or minority populations to adverse environmental or human health impacts, the Proposed Action would not have a significant environmental justice impact.

Climate Change: Since the proposed action would have no construction element and would use existing facilities within the range of normal operations, it would have no effect on climate change. As the proposed action is for a one year program, climate change is not expected to affect the proposed action.

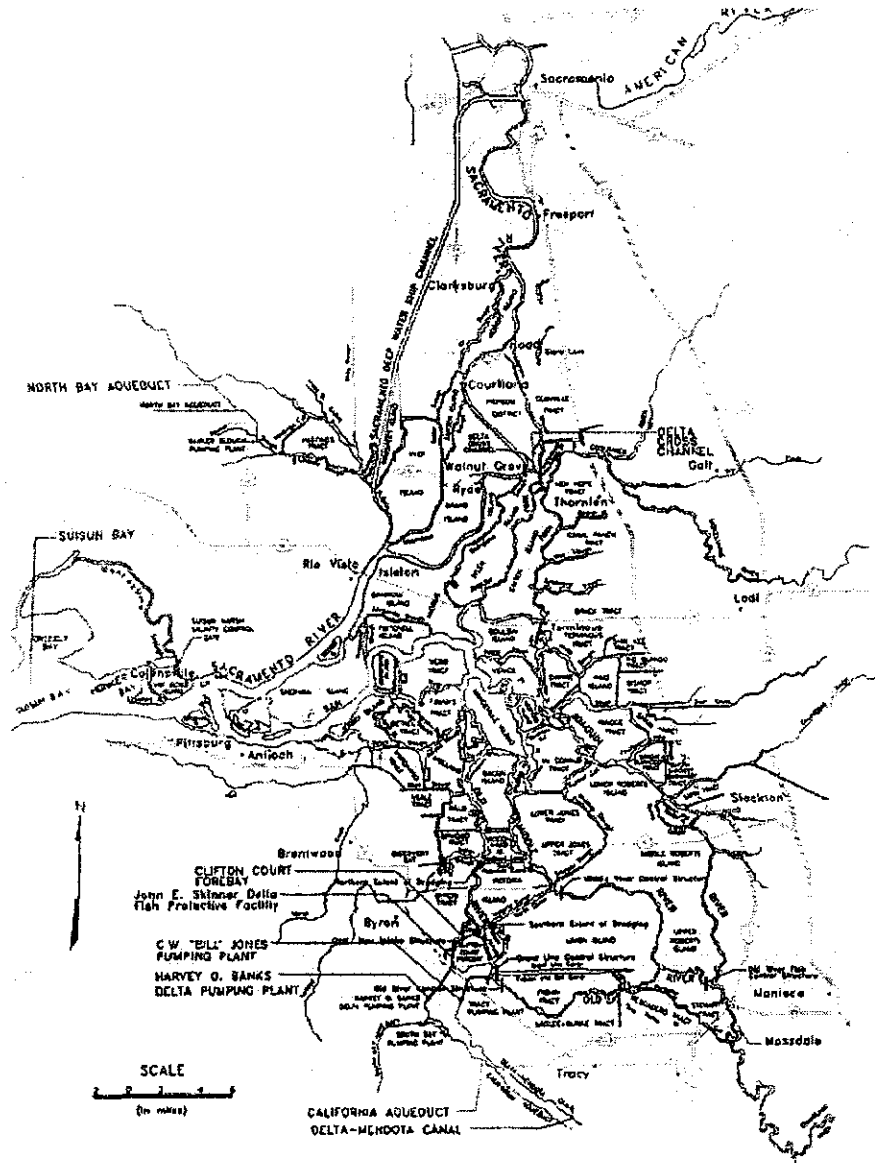
Aesthetics: The proposed action does not involve construction, introduction of new scenic features, or activities that would visually change the landscape for more than one season. The proposed action could, however, result in temporary changes or seasonal changes in the landscape. These changes would be minor, and thus the Proposed Action would not significantly impact aesthetics.

Cumulative Effects: Crop idling and groundwater substitution transfers have been implemented in previous drought response efforts, such as in the 1990's. Crop idling is also done on a regular basis as part of crop rotation and for other reasons, such as in response to hydrologic conditions, in the potentially affected areas. Groundwater use has also been implemented to supplement surface water in the past in many of the potentially affected areas, and other potential programs utilizing groundwater are described in the EA.

Fourteen non-CVP entities have indicated interest in providing water for the 2009 DWB. As previously described for potential CVP sellers, the EA analyzes estimates that reflect the potential upper limit of available water. From non-CVP sources, the DWB could potentially transfer up to 62,750 af from crop idling, 48,300 af from groundwater substitution, and 60,000 af from reservoir reoperation. Totals from all sources for the DWB would be up to 183,385 af from crop idling, 117,550 af from groundwater substitution, and 70,000 af from reservoir reoperation. The cumulative total amount potentially transferred under the DWB from all sources would be up to 370,935 af. All water transfers under the DWB will be implemented in accordance with requirements for meeting flow and temperature requirements on the Sacramento River. Also, all water transfers involving conveyance through the Delta will be implemented within the operational parameters of all applicable water quality standards and the Biological Opinions on Continued Long-term Operations of the CVP/SWP, including the limitations

of 600,000 af for all water transfers and transfer window of July through September.










Approval of the proposed water transfers under the DWB would not have highly controversial or uncertain environmental effects or involve unique or unknown environmental risks. Given the short-term nature of the proposed water transfer program, impacts to the previously discussed resource categories associated with the Proposed Action would be temporary in nature, and would not contribute to a cumulatively significant adverse impact when added to other past, present and reasonably foreseeable future actions.



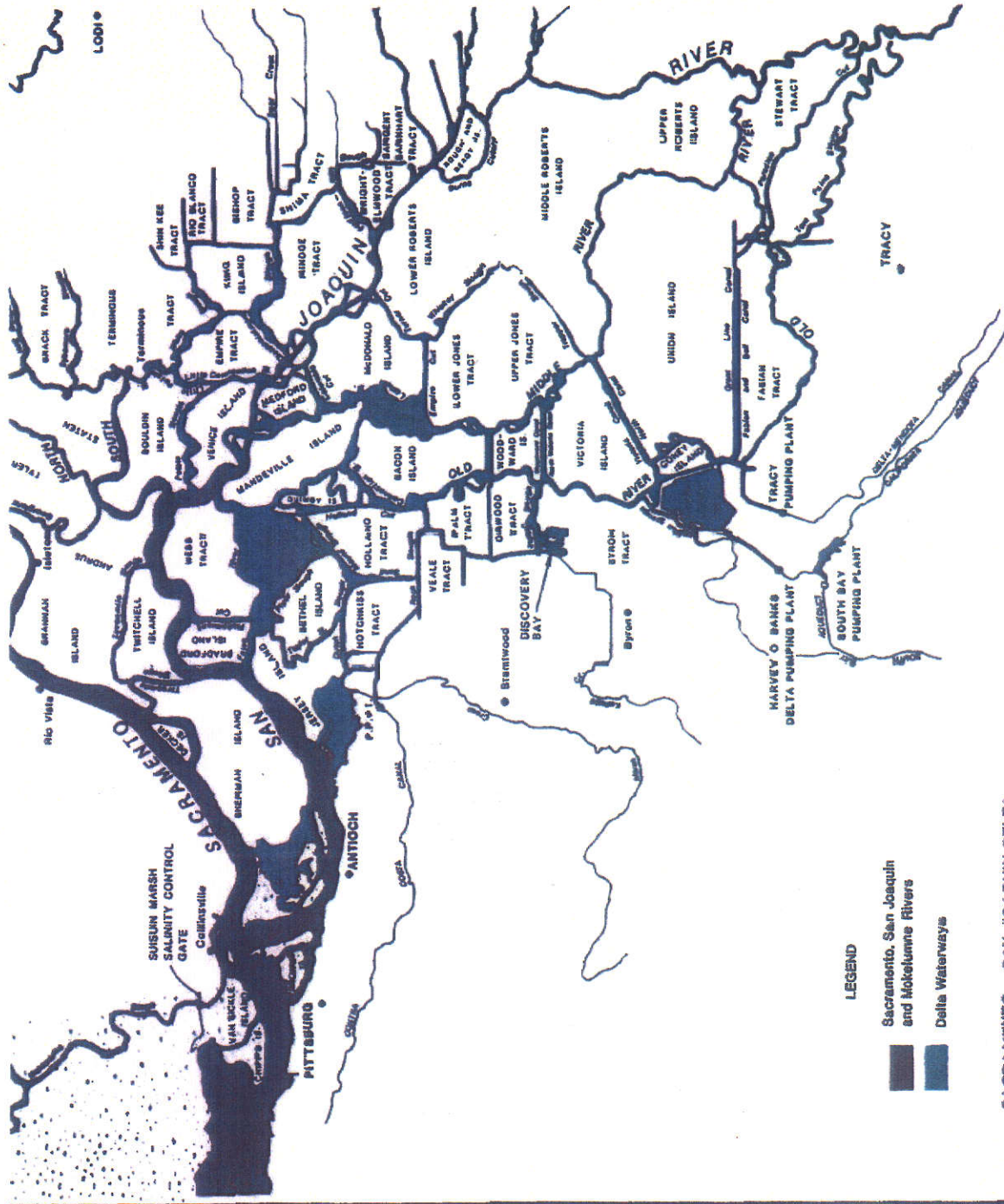
Sacramento-San Joaquin Delta

CALIFORNIA STATE WATER PROJECT

STATE WATER PROJECT (SWP) FACILITIES

-  RIVERS
-  LAKES
-  CVP CANALS AND AQUEDUCTS
-  SWP AQUEDUCT
-  LOCAL EXTENSION
-  STATE-FEDERAL WATER PROJECT
-  CVP FACILITIES
-  STATE WATER PROJECT FACILITIES
-  STATE-FEDERAL WATER PROJECT FACILITIES





LEGEND

- Sacramento, San Joaquin and Mokelumne Rivers
- Delta Waterways

SACRAMENTO - SAN JOAQUIN DELTA

Delta Waterways



United States Department of the Interior

BUREAU OF RECLAMATION
Mid-Pacific Regional Office
2800 Cottage Way
Sacramento, California 95825-1898

DEC 15 2008

RECEIVED

DEC 15 2008

SACRAMENTO FISH
& WILDLIFE OFFICE

IN REPLY
REFER TO:
MP-100
ENV-1.10

MEMORANDUM

To: Regional Director, Region 8
U.S. Fish and Wildlife Service

From: Donald R. Glaser
Regional Director

Subject: Biological Opinion for Delta Smelt, Dated December 15, 2008

We are in receipt of the Biological Opinion regarding the effects of the continued long-term operation of the Central Valley Project (CVP) and State Water Project (SWP) on delta smelt dated December 15, 2008. We appreciate all the hard work of you and your staff in the Section 7 consultation and preparation of this document.

At this time, the Bureau of Reclamation provisionally accepts the Reasonable and Prudent Alternative (RPA) developed by the U.S. Fish and Wildlife Service (Service) and included in the Biological Opinion conditioned upon the further development and evaluation of the two RPA components directed at habitat. RPA Component 3, the fall action, and RPA Component 4, the tidal habitat restoration action, both need additional review and refinement before Reclamation will be able to determine whether implementation of these actions by the Projects is reasonable and prudent. Further, these actions have the potential to impact listed salmonids; thus, these actions need to be coordinated with the National Marine Fisheries Service (NMFS) through Reclamation's ongoing consultation with NMFS regarding the effects of long-term Project operations.

Reclamation recognizes and appreciates that these Components have been designed with flexibility, and that the adaptive management process described in the Component 3 is intended to refine the action; however, we believe that both Components need to be developed in more detail before Reclamation can unconditionally accept the RPA. Reclamation would like to continue to work with you and your staff regarding how these Components of the RPA will be implemented so that we can better understand the required changes in CVP and SWP operations. If Reclamation, in coordination with the Department of Water Resources, ultimately determines that these two Components are not reasonable and prudent, Reclamation will reinitiate consultation.

Reclamation will begin immediate implementation of the RPA by modifying operations as required to comply with the Biological Opinion. We will notify you as soon as we determine if we can unconditionally accept the Reasonable and Prudent Alternative, or whether reinitiation of consultation is warranted.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
ORDER WR 2001 - 18 - DWR

IN THE MATTER OF PERMITS 13856 AND 13858
(APPLICATIONS 18085 AND 18087)
TEMPORARY CHANGE INVOLVING THE TRANSFER OF
UP TO 20,000 ACRE-FEET OF WATER
TO CALFED'S ENVIRONMENTAL WATER ACCOUNT
ADMINISTERED BY THE DEPARTMENT OF WATER RESOURCES
UNDER PLACER COUNTY WATER AGENCY'S WATER RIGHT

ORDER AUTHORIZING TEMPORARY CHANGE IN PLACE OF USE,
PURPOSE OF USE, AND POINT OF REDIVERSION
BY THE CHIEF OF THE DIVISION OF WATER RIGHTS:

1.0 SUBSTANCE OF PETITION

On June 15, 2001,

Placer County Water Agency
c/o Einar Maisch, Dir. Strat. Serv.
144 Ferguson Road
Auburn, CA 95670

filed with the State Water Resources Control Board (SWRCB) a Petition for Temporary Change under Water Code section 1725, *et seq.* If approved, the service areas of the State Water Project and Central Valley Project would be temporarily added to the authorized place of use under water right permits 13856 and 13858 held by the Placer County Water Agency (PCWA). The approval would allow a transfer of 20,000 acre-feet of water under PCWA's water rights to CALFED's Environmental Water Account. The temporary change would be effective until December 31, 2001. The use of the transferred water would be administered by the Department of Water Resources as part of CALFED's Environmental Water Account.

2.0 BACKGROUND

2.1 Substance of PCWA's Permits Permit 13856 was issued to PCWA on January 10, 1963. Permit 13856 authorizes PCWA to divert up to 1225 cubic feet per second and collect to storage 249,000 acre-feet from November 1 to July 1 of each year for domestic, irrigation, industrial, municipal and recreational purposes.

Permit 13858 was issued to PCWA on January 10, 1963. Permit 13858 authorizes PCWA to divert up to 800 cubic feet per second and collect to storage 66,000 acre-feet from November 1 to July 1 of each year for domestic, irrigation, industrial, municipal and recreational purposes.

3.0 AVAILABILITY OF WATER FOR TRANSFER

PCWA estimates it will have approximately 186,300 acre-feet of water in storage by June 30, 2001, in its Middle Fork Project reservoirs (French Meadows and Hell Hole reservoirs). This water is stored pursuant to a Federal Energy Regulatory Commission license (Project No. 2079) and water right permits 13855, 13856, 13857, and 13858. Of this amount, 34,800 acre-feet is committed to be delivered to PCWA's contractors or is needed for delivery to PCWA's customers during the proposed transfer period. Of the remaining 151,500 acre-feet, 51,500 acre-feet will be used for power generation and 100,000 acre-feet is reserved for carryover storage for 2002, in the absence of the transfer. Minimum storage under FERC License 2079 is 50,000 acre-feet, leaving a surplus of 50,000 acre-feet available for transfer. PCWA proposes to transfer only 20,000 acre-feet of this surplus.

The 20,000 acre-feet proposed to be released for transfer to the Environmental Water Account is currently in storage and will not be released this year except to the extent the transfer petition is approved. The Department of Water Resources and the US Bureau of Reclamation have agreed that the release of this water from storage is "new water" which would not otherwise be available during this dry year.

In light of the above, I find in accordance with Water Code section 1727(b)(1) that the proposed transfer would not injure any legal user of the water and that the proposed temporary change of water rights involves only the amount of water that would have been consumptively used or stored in the absence of the temporary change.

4.0 ENVIRONMENTAL CONSIDERATIONS

In accordance with Water Code section 1729, temporary changes involving transfer of water are exempt from the requirements of the California Environmental Quality Act (Public Resources Code section 21000, et seq.). However, the SWRCB must consider potential impacts on fish, wildlife and other instream beneficial uses in accordance with Water Code section 1727(b)(2).

The proposed temporary change in place of use, purpose of use, and point of redirection involves water that was previously stored. Since the water proposed for transfer would temporarily benefit fishery resources by providing increased flows and decreased water temperatures in a critically dry year there is no apparent reason why increased flows during the summer would harm fishery resources.

In light of the above, I find that in accordance with Water Code section 1727(b)(2) that the proposed transfer would have no unreasonable effects on fish, wildlife or other instream beneficial uses.

5.0 COMMENTS RECEIVED ON THE PROPOSED TRANSFER/EXCHANGE

Only one comment by the United States Bureau of Reclamation (USBR) was received by the July 19, 2001 deadline date. USBR approved of the transfer and agreed that the transfer would not adversely affect the water rights or operations of the CVP provided PCWA adheres to the refill agreement criteria established by Contract No. 01-WC-20-2034.

6.0 TRANSFER ALLOCATION

The amount authorized for transfer under the submitted petition is 20,000 acre-feet. PCWA has until December 31, 2001 to transfer the above water. Any water transferred prior to the date of this order and after December 31, 2001 is not authorized.

7.0 SWRCB'S DELEGATION OF AUTHORITY

On April 29, 1999, the SWRCB adopted Resolution 99-031, continuing the delegation of authority to approve petitions for temporary changes to the Chief of the Division of Water Rights, provided the necessary statutory findings can be made.

8.0 CONCLUSIONS

There is adequate information in the Division's files to make the evaluation required by Water Code section 1727; and therefore I find as follows:

1. The proposed temporary change will not injure any legal user of the water.
2. The proposed temporary change will not unreasonably affect fish, wildlife, or other instream beneficial uses.
3. The proposed transfer involves only an amount of water that would have been consumptively used or stored in the absence of the temporary change.

ORDER

NOW, THEREFORE, IT IS ORDERED that the petition for temporary change in the point of diversion, place of use and purpose of use under Placer County Water Agency's Permits 13856 and 13858 of up to 20,000 acre-feet of water is approved.

All existing terms and conditions of the subject permit remain in effect, except as temporarily amended by the following provisions:

1. The transfer shall be carried out between the issuance date of this order and December 31, 2001.

2. For the purposes of this transfer, the place of use shall be temporarily changed as follows:

The authorized place of use is temporarily expanded to include the service areas of the State Water Project and Central Valley Project as shown on maps on file with the SWRCB.

3. For the purposes of this transfer, Permits 13856 and 13858 are temporarily amended to include the following additional points of diversion:

Harvey O. Banks Pumping Plant within the NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Projected section 20, T1S, R3E, MDB&M.

CVP Pumping Plant within the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Projected section 31, T1S, R4E, MDB&M.

4. For the purposes of this transfer, Permits 13856 and 13858 are temporarily amended to include fish and wildlife enhancement.
5. Within 60 days of the completion of the transfer/exchange, but no later than April 1, 2002, the permittee shall provide to the Chief of the Division of Water Rights a report describing the use of the water transferred pursuant to this Order. The report shall include a summary showing the monthly amounts of water actually transferred under this Order.

The report should include the following information:

- a. General locations where the transferred water was used;
 - b. The monthly amounts of water each location received; and
 - c. The average application rate of water in the locations.
6. Permittee shall comply with all existing operation standards at the point of diversion including those contained in Water Right Decision 1641, other applicable water right permits, licenses or orders, and applicable conditions set forth in biological opinions established under the State or Federal Endangered Species Acts.
 7. The refill criteria set forth under contract No. 01-WC-20-2034 between PCWA and USBR dated July 3, 2001, shall govern the conditions which refill occurs for the transferred storage allowed in this order.
 8. Pursuant to Water Code sections 100 and 275 and the common law public trust doctrine, all rights and privileges under this transfer and temporary change Order, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the SWRCB in accordance with law and in the interest of the public welfare to protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use or unreasonable method of diversion of said water.

The continuing authority of the SWRCB also may be exercised by imposing specific requirements over and above those contained in this Order to minimize waste of water and to meet reasonable water requirements without unreasonable draft on the source.

9. This Order does not authorize any act which results in the taking of a threatened or endangered species or any act which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code sections 2050 to 2097) or the federal Endangered Species Act (16 U.S.C.A. sections 1531 to 1544). If a "take" will result from any act authorized under this temporary transfer, the Permittee shall obtain authorization for an incidental take permit prior to construction or operation.

Permittee shall be responsible for meeting all requirements of the applicable Endangered Species Act for the temporary transfer authorized under this Order.

10. I reserve jurisdiction to supervise the transfer, exchange and use of water under this Order, and to coordinate or modify terms and conditions, for the protection of vested rights, fish, wildlife, instream beneficial uses and the public interest as future conditions may warrant.

David L. Bunting
for Harry M. Schueller, Chief
Division of Water Rights

Dated: August 2, 2001



Winston H. Hieko
Secretary for
Environmental
Protection

State Water Resources Control Board

Division of Water Rights

1001 I Street, 14th Floor • Sacramento, California 95814 • (916) 341-5300
Mailing Address: P.O. Box 2000 • Sacramento, California • 95812-2000
FAX (916) 341-5400 • Web Site Address: <http://www.swrcb.ca.gov>
Division of Water Rights: <http://www.waterrights.ca.gov>



Gray Davis
Governor

In Reply Refer
to: 333:BRC:18085,18087

AUG 02 2001

Placer County Water Agency
c/o Elinar Maisch, Dir. Strat. Serv.
144 Ferguson Road
Auburn, CA 95670

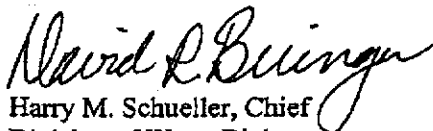
Dear Ms. Maisch:

**PERMITS 13856 AND 13858 (APPLICATIONS 18085 AND 18087)
UPPER AMERICAN RIVER IN PLACER COUNTY**

Enclosed is a copy of the Order approving temporary changes in the point of redirection, purpose of use, and place of use in response to Placer County Water District's request for a temporary transfer of water under Water Code section 1725, et seq. This transfer of water is limited to a period commencing on the date of the Order through December 31, 2001.

Should you have any questions, please contact Brian Coats, the staff person assigned to this project at (916) 341-5311.

Sincerely,

for 
Harry M. Schueller, Chief
Division of Water Rights

Enclosure

cc: (See attached list)

Placer County Water Agency
c/o Elinar Maisch, Dir. Strat. Serv.
Page 2

CC Mailing List:

Department of Water Resources
c/o Dan Flory
P.O. Box 942836
Sacramento, CA 94236-001

Kronick, Moskovitz, Tiedemann and Girard
c/o Janet Goldsmith
400 Capitol Mall, 27th Floor
Sacramento, CA 95814-3363

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

May 2008

Estimated numbers are in bold italic print.

Date	DELTA INFLOW								NDCU	DELTA EXPORTS						OUTFLOW INDEX			Export/Inflow			
	Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Coria (CCC)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDOI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-May-08	8,241	210	715	696	2,997	3,099	2,987	12,859	2,000	803	537	177	65	85	1,518	1,457	8,341	8,737	8,341	9.8%	11.4%	9.9%
2-May-08	8,138	209	716	689	2,987	3,073	3,008	12,719	2,000	896	835	189	60	88	1,748	1,465	8,970	8,405	8,158	11.8%	11.2%	10.0%
3-May-08	8,127	207	689	633	3,029	3,057	3,079	12,685	2,050	695	837	206	50	86	1,774	1,468	8,862	8,148	8,058	11.7%	11.0%	10.2%
4-May-08	7,525	206	676	620	3,041	3,036	3,029	12,371	2,100	690	838	218	50	88	1,782	1,531	8,489	8,909	8,915	11.9%	11.7%	10.9%
5-May-08	6,993	204	663	623	3,057	3,021	3,031	11,540	2,100	688	842	216	85	84	1,745	1,530	7,895	8,823	8,671	12.9%	12.0%	11.1%
6-May-08	7,120	203	656	641	3,043	3,040	3,047	11,663	2,100	690	844	209	53	84	1,774	1,531	7,789	8,480	8,534	12.7%	12.4%	11.3%
7-May-08	7,766	201	654	650	3,128	3,083	3,083	12,397	2,150	688	843	204	87	90	1,761	1,531	8,497	8,519	8,519	11.8%	12.3%	11.9%
8-May-08	8,287	200	643	638	3,155	3,097	3,084	12,924	2,150	692	842	203	56	90	1,772	1,533	8,002	8,471	8,579	11.4%	12.0%	11.8%
9-May-08	7,970	200	657	635	3,231	3,134	3,106	12,893	2,200	699	843	200	63	89	1,770	1,536	8,723	8,435	8,585	11.7%	11.6%	11.7%
10-May-08	8,060	200	680	638	3,283	3,163	3,129	12,861	2,200	694	843	203	50	91	1,781	1,538	8,880	8,459	8,634	11.6%	11.9%	11.9%
11-May-08	7,875	200	668	633	3,246	3,216	3,148	12,622	2,250	684	842	203	50	92	1,771	1,536	8,601	8,454	8,622	11.7%	11.6%	11.9%
12-May-08	7,358	200	642	589	3,429	3,277	3,175	12,718	2,300	688	840	204	53	89	1,765	1,530	8,153	8,519	8,583	12.1%	11.8%	11.9%
13-May-08	8,019	200	636	807	3,472	3,305	3,188	12,934	2,300	688	838	199	66	85	1,745	1,526	8,889	8,676	8,608	11.3%	11.7%	11.8%
14-May-08	8,195	200	611	586	3,317	3,317	3,190	12,909	2,350	690	839	223	76	83	1,760	1,527	8,799	8,721	8,820	11.3%	11.5%	11.7%
15-May-08	8,458	200	619	570	3,240	3,315	3,191	13,087	2,350	699	843	241	82	107	1,798	1,533	8,939	8,712	8,641	11.1%	11.2%	11.6%
16-May-08	8,283	200	647	583	3,215	3,294	3,168	12,848	2,400	489	835	245	89	144	1,824	1,465	8,824	8,726	8,653	9.6%	10.7%	11.0%
17-May-08	7,450	200	669	632	3,338	3,273	3,183	12,089	2,450	697	840	245	8	92	1,875	1,468	7,764	8,567	8,600	12.7%	11.1%	11.3%
18-May-08	7,032	200	723	673	3,180	3,221	3,177	11,728	2,450	690	843	245	50	98	1,826	1,465	7,432	8,483	8,537	12.8%	11.6%	11.4%
19-May-08	7,668	200	778	651	3,068	3,175	3,175	12,365	2,500	695	847	245	100	83	1,771	1,538	8,094	8,384	8,513	11.7%	12.3%	11.9%
20-May-08	7,608	200	852	602	3,147	3,136	3,169	12,409	2,550	522	848	245	93	90	1,810	1,441	8,249	8,303	8,500	10.3%	11.5%	11.1%
21-May-08	7,642	200	895	567	3,046	3,080	3,153	12,370	2,550	673	847	221	97	95	1,840	1,544	7,880	8,172	8,471	11.1%	11.2%	11.9%
22-May-08	8,517	200	888	527	2,844	2,966	3,129	13,976	2,600	695	847	210	102	97	1,747	1,544	8,629	8,270	8,523	10.3%	11.2%	11.4%
23-May-08	10,560	200	860	500	2,632	2,869	3,091	14,761	2,650	1,495	978	214	142	107	2,850	1,911	9,481	8,361	8,564	15.8%	13.1%	14.0%
24-May-08	10,124	200	841	492	2,243	2,702	3,043	13,900	2,700	1,495	1,052	205	76	98	2,775	2,117	8,425	8,456	8,658	17.8%	14.6%	16.2%
25-May-08	11,287	200	827	469	1,932	2,532	2,994	14,715	2,750	1,062	1,045	185	76	87	2,304	2,375	9,641	8,771	8,602	13.8%	15.8%	17.5%
26-May-08	10,712	200	788	510	1,879	2,354	2,954	14,089	2,780	1,499	1,048	180	76	90	2,742	2,401	8,597	8,843	8,402	17.9%	16.3%	17.7%
27-May-08	9,791	200	739	489	1,900	2,178	2,911	13,079	2,800	1,038	1,044	201	8	80	2,363	2,246	7,916	8,798	8,577	15.9%	13.7%	16.7%
28-May-08	9,918	200	704	506	1,805	2,012	2,868	13,127	2,850	1,175	1,045	202	123	68	2,368	2,243	7,911	8,800	8,653	18.0%	18.5%	16.8%
29-May-08	9,880	200	704	472	1,696	1,841	2,828	12,954	2,900	1,168	1,040	201	76	89	2,442	2,177	7,612	8,512	8,520	18.8%	16.2%	16.0%
30-May-08	10,396	200	759	483	1,709	1,798	2,789	13,547	2,950	1,498	1,047	219	74	131	2,821	2,331	7,778	8,271	8,498	18.2%	17.0%	16.9%
31-May-08	10,742	200	794	489	1,662	1,748	2,758	13,687	3,000	1,189	1,043	224	80	112	2,528	2,318	8,359	8,262	8,491	15.6%	16.9%	17.0%
Total	266,825	6,240	22,395	18,097	86,669	89,459	84,785	400,328	75,450	16,793	27,594	6,585	2,179	2,893	61,648	53,534	263,228	267,163	267,814	401.8%	397.2%	397.4%
Average	8,610	201	722	584	2,796	2,846	3,058	12,914	2,454	664	886	212	70	93	1,989	1,727	8,481	8,618	8,618	13.0%	12.8%	12.8%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

June 2008

Estimated numbers are in bold italic print

Date	DELTA INFLOW								MDCU	DELTA EXPORTS						OUTFLOW INDEX			Export/Inflow			
	Sacto R @Freeport -prev day-	SRTTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDOI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-Jun-08	10,754	200	797	496	1,583	1,694	1,505	13,830	3,050	987	1,054	368	50	92	2,450	2,276	8,330	8,072	8,330	14.4%	16.1%	18.4%
2-Jun-08	11,333	200	802	484	1,505	1,837	1,504	14,334	3,100	986	1,042	376	112	86	2,377	2,104	8,857	8,109	8,594	13.4%	14.5%	14.9%
3-Jun-08	11,230	200	800	372	1,502	1,581	1,473	14,104	3,150	988	1,048	375	76	92	2,426	2,035	8,528	8,198	8,472	13.9%	13.9%	14.2%
4-Jun-08	10,447	200	748	338	1,412	1,528	1,436	13,225	3,200	776	979	373	76	99	2,153	1,940	7,672	8,191	8,397	12.7%	13.3%	13.4%
5-Jun-08	10,719	200	812	306	1,324	1,472	1,412	13,351	3,250	797	858	384	78	98	2,058	1,816	8,053	8,254	8,328	11.8%	12.8%	12.6%
6-Jun-08	10,517	200	870	296	1,316	1,411	1,343	13,199	3,300	749	858	399	17	114	2,144	1,886	7,755	8,291	8,232	12.3%	12.3%	11.9%
7-Jun-08	10,560	200	850	291	1,236	1,350	1,350	13,137	3,350	794	851	390	35	114	2,113	1,849	7,674	8,153	8,153	12.2%	12.1%	11.8%
8-Jun-08	10,348	200	818	308	1,152	1,307	1,331	12,826	3,400	990	853	401	45	110	2,309	1,711	7,117	7,879	8,023	14.0%	12.9%	12.5%
9-Jun-08	9,238	200	779	308	1,204	1,283	1,316	11,730	3,450	588	851	392	143	110	1,796	1,641	6,484	7,640	7,652	11.0%	12.5%	11.8%
10-Jun-08	8,554	200	773	291	1,195	1,224	1,299	11,013	3,500	197	425	332	59	114	1,009	1,300	6,504	7,351	7,717	5.1%	10.3%	9.3%
11-Jun-08	9,810	200	790	302	1,140	1,193	1,281	12,042	3,550	197	427	253	78	124	923	894	7,569	7,308	7,704	4.5%	6.3%	6.1%
12-Jun-08	9,990	200	775	325	1,107	1,156	1,293	12,397	3,600	193	423	242	89	134	902	620	7,895	7,285	7,720	4.2%	4.6%	4.2%
13-Jun-08	10,436	200	794	348	1,080	1,153	1,259	12,838	3,650	398	854	315	86	124	1,605	831	7,683	7,261	7,708	9.1%	6.0%	5.7%
14-Jun-08	10,408	200	801	341	1,210	1,192	1,271	12,960	3,700	398	859	412	76	124	1,718	1,042	7,544	7,342	7,697	9.1%	7.5%	7.4%
15-Jun-08	10,518	200	818	326	1,428	1,225	1,282	13,238	3,750	390	857	428	76	120	1,718	1,252	7,820	7,343	7,706	8.8%	9.0%	9.1%
16-Jun-08	11,103	200	812	318	1,438	1,266	1,284	13,871	3,800	988	857	444	100	116	2,306	1,449	7,765	7,526	7,700	12.5%	10.2%	10.8%
17-Jun-08	10,829	200	832	277	1,478	1,294	1,297	13,616	3,850	992	856	394	87	120	2,285	1,647	7,471	7,864	7,695	13.1%	11.5%	12.2%
18-Jun-08	11,013	200	834	251	1,339	1,342	1,305	13,637	3,900	997	853	406	67	115	2,304	1,647	7,433	7,844	7,881	13.1%	12.9%	13.8%
19-Jun-08	11,090	200	848	215	1,440	1,323	1,285	13,791	3,950	798	928	412	94	119	2,163	1,808	7,678	7,813	7,881	11.8%	12.7%	13.4%
20-Jun-08	11,415	200	818	231	926	1,276	1,265	13,590	4,000	795	1,018	421	93	129	2,271	1,796	7,310	7,376	7,892	12.7%	12.3%	13.3%
21-Jun-08	12,145	200	828	290	897	1,199	1,247	14,378	4,050	789	1,019	439	78	123	2,294	1,782	8,034	7,646	7,980	12.0%	12.2%	13.0%
22-Jun-08	12,566	200	840	311	877	1,122	1,231	14,794	4,100	980	1,024	439	50	156	2,548	1,875	8,140	7,892	7,701	13.2%	12.6%	13.7%
23-Jun-08	12,343	200	840	264	894	1,041	1,217	14,571	4,100	1,198	1,018	438	41	154	2,768	2,009	7,703	7,883	7,701	14.9%	13.4%	14.8%
24-Jun-08	12,562	200	839	258	914	984	1,206	14,773	4,150	1,185	1,401	440	55	125	3,185	2,299	7,438	7,879	7,800	17.7%	15.3%	16.3%
25-Jun-08	12,551	200	842	253	938	912	1,195	14,784	4,200	1,184	1,014	448	81	122	2,707	2,383	7,877	7,742	7,898	14.9%	15.7%	16.7%
26-Jun-08	12,120	200	860	246	939	923	1,187	14,485	4,200	998	1,013	446	68	125	2,514	2,295	7,891	7,744	7,898	13.5%	15.2%	16.0%
27-Jun-08	11,925	200	837	320	999	941	1,181	14,281	4,250	987	1,028	433	68	173	2,497	2,072	7,534	7,773	7,892	13.6%	13.9%	14.3%
28-Jun-08	11,639	200	812	320	1,026	956	1,174	13,997	4,250	974	1,021	423	50	120	2,488	2,005	7,259	7,664	7,676	13.9%	13.7%	13.8%
29-Jun-08	12,118	200	792	321	980	971	1,168	14,411	4,300	1,019	1,028	408	50	123	2,518	2,014	7,593	7,585	7,873	13.8%	13.8%	13.8%
30-Jun-08	12,569	200	785	286	1,003	958	1,164	14,843	4,300	1,189	1,535	411	117	114	3,132	2,253	7,411	7,543	7,865	17.5%	15.1%	15.3%
Total	332,709	6,000	24,482	9,373	35,462	38,925	38,779	408,026	112,600	24,539	27,325	11,838	2,133	3,541	65,890	52,311	229,938	231,410	238,037	364.8%	365.4%	372.4%
Average	11,090	200	816	312	1,182	1,231	1,283	13,601	3,747	818	931	395	72	118	2,190	1,744	7,665	7,714	7,865	12.2%	12.2%	12.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

July 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS						OUTFLOW INDEX			Export/Inflow			
	Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River@Versada -prev day-	7-day Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bethany (BBND)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDOI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-Jul-07	18,552	200	658	313	1,224	1,200	1,288	20,956	4,300	6,668	3,826	418	74	136	11,072	7,099	5,584	7,348	5,584	58.2%	36.3%	41.1%
2-Jul-07	19,165	200	658	332	1,280	1,287	1,293	21,852	4,300	6,382	4,452	428	110	133	11,281	8,952	6,071	7,196	6,827	49.5%	42.9%	50.9%
3-Jul-07	18,933	208	657	325	1,297	1,243	1,191	22,420	4,350	5,339	4,442	428	82	135	10,281	10,402	7,800	7,291	6,488	43.3%	47.6%	57.3%
4-Jul-07	20,001	208	652	265	987	1,190	1,133	22,143	4,350	5,593	4,385	431	86	135	10,458	10,197	7,335	7,298	6,700	44.7%	45.8%	54.8%
5-Jul-07	19,563	207	652	312	960	1,143	1,103	21,694	4,400	5,811	4,440	430	80	134	10,555	9,937	6,740	7,205	6,708	48.1%	44.6%	52.4%
6-Jul-07	18,367	207	632	324	943	1,194	1,084	20,533	4,400	5,839	4,358	386	75	132	10,631	10,072	5,502	6,888	6,507	49.3%	46.6%	52.4%
7-Jul-07	17,706	206	649	325	949	1,042	1,062	19,875	4,400	5,025	4,346	403	71	127	9,821	9,879	5,843	6,384	6,384	48.8%	47.3%	50.8%
8-Jul-07	17,819	206	635	344	929	1,013	1,048	19,933	4,400	5,780	4,344	425	80	121	10,810	9,894	4,923	6,288	6,201	50.5%	48.9%	50.2%
9-Jul-07	17,618	206	621	332	948	977	1,047	19,723	4,400	5,980	4,354	442	10	117	10,883	9,547	4,430	6,055	6,004	52.4%	49.9%	50.0%
10-Jul-07	17,300	206	613	313	1,045	969	1,036	19,477	4,400	5,990	4,406	436	84	128	10,877	10,286	4,200	5,338	5,824	53.0%	51.9%	51.3%
11-Jul-07	17,488	205	604	301	929	974	1,032	19,928	4,400	6,681	4,385	434	59	128	11,549	10,595	3,978	5,060	5,690	55.1%	53.5%	52.2%
12-Jul-07	18,139	206	608	304	992	978	1,030	20,249	4,400	6,456	4,386	416	79	124	11,203	10,781	4,546	4,746	5,564	53.2%	53.7%	52.4%
13-Jul-07	18,317	206	595	308	1,013	981	1,029	21,437	4,400	5,946	4,391	412	0	126	10,874	10,741	6,183	4,841	5,810	48.2%	52.1%	51.7%
14-Jul-07	19,739	206	578	302	1,011	999	1,030	21,836	4,400	6,927	4,365	407	50	139	11,779	10,823	5,857	4,843	5,613	51.9%	50.9%	51.7%
15-Jul-07	19,418	206	555	319	1,053	1,018	1,033	21,551	4,400	7,158	4,354	419	50	132	12,012	11,847	5,139	4,873	5,582	53.2%	51.0%	52.7%
16-Jul-07	19,763	206	541	342	1,069	1,024	1,037	21,921	4,400	7,147	4,353	422	197	132	11,857	11,435	5,864	5,050	5,587	51.6%	52.1%	54.2%
17-Jul-07	19,535	206	539	330	1,102	1,034	1,035	21,712	4,400	7,163	4,376	431	79	128	12,019	11,517	5,293	5,206	5,589	52.8%	52.5%	54.7%
18-Jul-07	19,905	206	529	286	997	1,027	1,030	21,923	4,400	7,167	4,382	427	80	121	12,017	11,529	5,308	5,424	5,586	52.3%	52.2%	54.7%
19-Jul-07	19,701	206	556	275	946	1,024	1,028	21,691	4,400	6,960	4,367	432	54	112	11,816	11,472	5,473	5,557	5,561	52.0%	52.4%	54.7%
20-Jul-07	19,783	206	521	279	988	1,017	1,024	21,757	4,350	7,178	4,363	414	53	126	12,029	11,472	5,378	5,445	5,552	52.8%	52.4%	54.9%
21-Jul-07	19,960	206	519	292	963	1,001	1,020	21,940	4,350	6,274	4,391	238	50	131	10,984	11,176	6,008	5,580	5,602	48.4%	51.0%	52.8%
22-Jul-07	20,370	206	525	314	941	995	1,021	22,356	4,350	7,160	4,379	207	50	131	11,827	11,248	6,179	5,729	5,628	51.4%	50.9%	52.7%
23-Jul-07	20,302	206	528	327	1,030	988	1,022	22,363	4,350	7,175	4,385	241	114	128	11,814	11,255	6,229	5,810	5,655	51.1%	50.3%	52.2%
24-Jul-07	19,958	206	546	311	1,038	1,006	1,027	22,059	4,350	7,170	4,418	234	58	128	11,886	11,562	6,813	6,884	5,661	52.3%	51.6%	53.1%
25-Jul-07	19,300	206	536	286	1,140	1,034	1,031	21,468	4,300	6,584	4,458	239	58	125	11,348	11,307	5,820	5,929	5,887	51.2%	51.5%	52.1%
26-Jul-07	18,887	206	536	291	1,140	1,050	1,034	21,060	4,300	7,084	4,443	223	60	126	11,816	11,386	4,944	5,853	5,840	54.4%	52.6%	52.0%
27-Jul-07	18,852	205	536	287	1,100	1,061	1,034	20,781	4,300	7,177	4,467	214	64	132	11,926	11,404	4,535	5,735	5,600	55.7%	53.8%	52.2%
28-Jul-07	18,490	208	532	288	1,040	1,072	1,033	20,556	4,250	7,125	4,427	218	60	128	11,838	11,574	4,470	5,430	5,559	55.9%	55.4%	53.2%
29-Jul-07	18,436	208	528	288	1,019	1,078	1,035	20,471	4,250	7,144	4,484	217	76	126	11,878	11,601	4,345	5,168	5,517	56.3%	56.0%	53.9%
30-Jul-07	18,448	206	526	274	1,071	1,045	1,038	20,528	4,250	7,188	4,434	238	52	126	11,933	11,593	4,345	4,899	5,478	56.4%	56.2%	53.7%
31-Jul-07	18,649	206	543	268	1,082	1,086	1,036	20,148	4,200	7,173	4,420	231	66	119	11,878	11,607	4,076	4,850	5,433	57.2%	56.8%	54.8%
Total	590,944	6,398	17,930	9,487	32,312	32,795	32,919	656,171	134,900	204,222	135,862	10,944	2,124	3,951	352,855	333,158	168,418	178,215	178,526	1594.9%	1570.3%	1625.7%
Average	19,034	206	578	306	1,042	1,058	1,062	21,187	4,352	6,588	4,383	393	69	127	11,362	10,770	5,433	5,781		51.6%	50.7%	52.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

August 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS							OUTFLOW INDEX			Export/Inflow		
	Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River -prev day-	Vernalis Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDOI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-Aug-07	17,397	206	528	309	1,013	1,033	906	19,444	4,200	7,144	4,413	230	42	119	11,865	11,580	3,379	4,301	3,379	59.2%	57.6%	54.4%
2-Aug-07	17,211	206	525	312	905	1,018	942	19,164	4,200	7,173	4,458	242	87	127	11,912	11,594	3,054	4,031	3,216	60.2%	58.9%	54.9%
3-Aug-07	16,959	207	534	327	979	1,006	952	19,008	4,150	7,164	4,459	238	53	127	11,834	11,804	2,921	3,798	3,119	60.9%	60.1%	55.5%
4-Aug-07	17,347	207	553	335	973	1,011	978	19,415	4,150	5,959	4,452	256	50	128	10,744	11,222	4,521	3,806	3,469	53.4%	68.1%	64.1%
5-Aug-07	17,138	207	557	365	1,056	1,018	1,006	19,323	4,100	7,167	4,459	215	50	125	11,915	11,220	3,308	3,657	3,437	59.9%	58.0%	54.7%
6-Aug-07	16,574	207	559	389	1,116	1,018	1,019	18,845	4,100	7,171	4,385	199	0	123	11,877	11,197	2,888	3,448	3,342	61.3%	58.2%	55.4%
7-Aug-07	17,508	204	550	372	1,087	1,026	1,028	19,725	4,050	7,178	4,372	204	50	123	11,827	11,577	3,848	3,418	3,418	58.3%	59.8%	57.7%
8-Aug-07	17,579	204	533	317	1,069	1,031	1,033	19,706	4,050	7,172	4,434	212	69	126	11,875	11,570	3,781	3,472	3,460	58.5%	59.4%	58.0%
9-Aug-07	17,333	208	515	292	1,077	1,070	1,041	19,425	4,000	7,171	4,441	203	99	124	11,900	11,596	3,525	3,539	3,467	59.8%	58.8%	58.4%
10-Aug-07	17,901	208	571	318	1,110	1,083	1,064	20,108	4,000	7,169	4,444	191	74	138	11,880	11,817	4,248	3,729	3,543	57.4%	58.5%	58.6%
11-Aug-07	19,316	208	621	324	1,068	1,072	1,039	20,537	3,850	6,573	4,430	175	76	126	11,229	11,416	5,358	3,848	3,710	53.2%	56.7%	57.6%
12-Aug-07	19,092	208	621	344	975	1,055	1,036	20,240	3,850	7,155	4,423	152	50	125	11,805	11,398	4,485	4,018	3,775	57.0%	55.8%	57.6%
13-Aug-07	18,417	208	627	356	1,001	1,051	1,036	20,699	3,800	7,184	4,373	130	65	126	11,726	11,373	4,082	4,218	3,868	55.7%	55.3%	57.4%
14-Aug-07	18,721	208	640	330	1,056	1,041	1,034	20,955	3,850	7,177	4,422	155	42	122	11,833	11,571	5,372	4,822	3,968	55.1%	55.9%	58.3%
15-Aug-07	18,489	208	642	316	1,002	1,019	1,029	20,957	3,850	7,187	4,441	155	32	122	11,872	11,584	4,936	4,687	4,032	54.1%	55.8%	58.2%
16-Aug-07	18,438	208	654	318	919	986	1,017	20,537	3,800	7,174	4,453	137	57	126	11,833	11,618	4,904	4,884	4,087	54.3%	55.9%	58.1%
17-Aug-07	18,274	208	665	314	976	963	1,011	20,339	3,800	7,175	4,443	132	81	127	11,795	11,624	4,744	4,954	4,128	56.7%	58.4%	57.7%
18-Aug-07	17,736	208	661	322	909	963	1,009	19,854	3,750	7,167	4,444	126	53	122	11,806	11,618	4,300	4,803	4,135	58.2%	57.1%	57.8%
19-Aug-07	18,743	208	646	320	975	963	1,008	18,892	3,700	7,176	4,420	123	59	123	11,792	11,608	3,400	4,648	4,097	51.1%	58.8%	57.6%
20-Aug-07	18,847	208	629	328	1,004	965	1,011	19,054	3,700	7,171	4,313	124	0	122	11,729	11,564	3,825	4,454	4,073	60.3%	59.8%	57.5%
21-Aug-07	18,819	208	640	302	1,069	973	1,013	19,038	3,850	7,168	4,391	114	12	123	11,784	11,547	3,804	4,218	4,051	60.7%	60.7%	57.6%
22-Aug-07	18,281	208	642	296	1,054	980	1,012	18,471	3,600	7,373	4,446	108	42	128	11,812	11,554	3,059	3,848	4,008	62.7%	61.2%	57.9%
23-Aug-07	18,202	208	655	292	972	999	1,011	18,329	3,600	7,169	4,429	94	53	129	11,767	11,592	2,982	3,871	3,980	63.0%	62.1%	58.3%
24-Aug-07	18,226	208	661	285	1,008	1,017	1,013	18,318	3,550	7,171	4,488	87	54	129	11,821	11,825	3,017	3,424	3,921	61.1%	62.9%	58.7%
25-Aug-07	18,341	208	670	296	1,840	1,025	1,013	18,555	3,500	5,996	4,392	87	50	125	10,548	11,215	4,508	3,453	3,944	55.7%	66.6%	57.0%
26-Aug-07	18,354	208	668	321	1,029	1,035	1,018	18,578	3,450	5,998	4,408	84	50	127	10,567	10,818	4,581	3,819	3,968	55.7%	59.2%	55.4%
27-Aug-07	18,297	208	639	318	1,073	1,035	1,017	18,535	3,450	5,502	4,381	84	0	123	10,080	10,226	4,995	3,815	4,008	53.3%	54.9%	52.8%
28-Aug-07	18,117	208	606	305	1,068	1,017	1,014	18,302	3,400	5,494	4,372	77	46	126	10,817	10,952	4,885	3,988	4,037	53.7%	54.2%	52.4%
29-Aug-07	15,997	208	603	299	934	1,009	1,011	18,041	3,350	5,490	4,411	76	27	128	10,082	9,886	4,609	4,218	4,057	54.8%	53.9%	52.1%
30-Aug-07	15,928	208	581	273	915	996	1,008	17,905	3,200	5,488	4,443	72	55	125	10,072	9,901	4,533	4,444	4,073	55.2%	54.5%	52.6%
31-Aug-07	16,000	208	587	291	918	977	1,005	18,004	3,250	5,486	4,394	74	62	133	10,035	9,909	4,719	4,687	4,094	54.6%	54.8%	53.1%
Total	531,649	6,440	18,781	8,864	31,250	31,474	31,305	597,984	117,350	209,731	137,059	4,555	1,494	3,871	353,723	348,449	126,911	125,821	117,836	1790.9%	1792.5%	1747.5%
Average	17,150	206	608	318	1,008	1,015	1,010	19,290	3,785	6,786	4,421	147	48	125	11,410	11,242	4,094	4,059		57.8%	57.8%	56.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

September 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS						OUTFLOW INDEX			Export/Inflow			
	Sacto R @Freeport -prev day-	BRTTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River -prev day-	Vermejo 7-day Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCC)	Byron Bayhury (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-Sep-07	16,200	208	589	310	905	962	824	18,212	3,200	5,909	4,371	80	50	130	10,522	10,061	4,490	4,688	4,490	56.6%	55.5%	54.2%
2-Sep-07	16,500	208	610	323	924	948	848	18,565	3,200	5,909	4,379	83	50	128	10,529	10,207	4,638	4,724	4,803	58.8%	55.8%	55.1%
3-Sep-07	16,800	207	610	334	971	953	899	18,924	3,150	5,988	4,367	83	50	128	10,514	10,341	5,260	4,782	4,882	54.4%	55.5%	56.0%
4-Sep-07	16,300	207	590	326	1,103	963	1,002	18,526	3,100	5,900	4,365	70	36	130	10,511	10,358	4,808	4,785	4,874	55.7%	55.2%	56.1%
5-Sep-07	16,000	207	568	318	1,008	958	891	18,099	3,050	5,991	4,350	64	34	110	10,501	10,350	4,648	4,788	4,808	56.9%	55.7%	56.2%
6-Sep-07	16,500	207	548	314	950	979	892	18,520	3,000	5,985	4,405	60	55	127	10,522	10,362	4,907	4,823	4,840	55.9%	56.1%	56.2%
7-Sep-07	16,882	206	515	291	993	997	897	18,867	2,950	5,989	4,386	62	50	127	10,513	10,369	5,405	4,921	4,921	54.7%	55.8%	58.1%
8-Sep-07	16,856	206	533	264	1,027	1,012	1,001	18,886	2,900	5,980	4,361	63	50	129	10,493	10,372	5,493	5,064	4,892	54.5%	55.9%	56.0%
9-Sep-07	17,220	206	521	236	1,035	1,022	1,005	19,218	2,900	5,989	4,406	75	38	125	10,557	10,374	5,761	5,196	5,077	53.9%	54.4%	55.9%
10-Sep-07	17,048	206	508	240	1,038	1,015	1,010	19,030	2,850	5,993	4,319	71	58	126	10,458	10,353	5,722	5,262	5,142	53.9%	54.1%	55.7%
11-Sep-07	17,106	206	505	241	1,053	1,012	1,008	19,111	2,800	5,991	4,407	66	35	124	10,523	10,369	5,758	5,383	5,198	54.2%	54.9%	55.6%
12-Sep-07	16,801	206	500	235	991	1,015	1,005	18,733	2,750	4,982	4,352	63	15	118	9,508	10,018	6,473	5,830	5,304	49.8%	52.7%	53.6%
13-Sep-07	16,049	206	474	232	970	1,009	1,001	17,931	2,700	4,982	4,358	63	51	116	9,477	9,698	5,754	5,761	5,338	51.8%	52.0%	51.9%
14-Sep-07	16,746	206	453	238	953	994	895	18,596	2,650	4,999	4,328	63	27	113	9,476	9,340	6,470	5,919	5,420	50.0%	50.5%	49.9%
15-Sep-07	16,666	206	429	235	920	916	884	18,396	2,600	4,993	4,363	59	25	115	9,504	9,344	6,292	6,033	5,478	50.7%	50.8%	49.9%
16-Sep-07	15,970	206	424	238	940	883	885	17,819	2,600	4,985	4,328	60	30	114	9,456	9,332	6,763	6,033	5,496	52.1%	50.9%	50.8%
17-Sep-07	16,318	206	399	234	1,011	980	897	18,166	2,550	4,486	4,005	55	62	117	9,601	9,053	7,015	6,218	5,585	46.4%	49.7%	48.6%
18-Sep-07	15,977	206	385	268	1,032	977	896	17,808	2,500	4,484	4,157	56	23	118	8,792	8,815	6,516	6,327	5,637	48.4%	48.9%	47.4%
19-Sep-07	15,363	206	433	141	971	972	893	17,154	2,450	4,490	4,342	56	45	120	8,963	8,655	5,741	6,222	5,642	51.2%	48.8%	48.7%
20-Sep-07	14,877	206	467	174	838	968	890	16,663	2,450	4,496	4,300	57	25	106	8,933	8,756	5,280	6,154	5,624	52.6%	50.7%	47.8%
21-Sep-07	15,828	206	447	185	928	948	886	17,582	2,400	4,495	4,356	62	3	104	9,014	8,826	6,178	6,112	5,651	50.3%	51.4%	48.3%
22-Sep-07	15,321	206	417	181	920	964	865	17,045	2,350	4,490	4,271	78	15	105	8,927	9,136	4,768	5,895	5,610	57.2%	53.3%	50.4%
23-Sep-07	14,907	206	364	190	950	976	899	16,626	1,209	5,034	4,287	79	25	100	9,478	9,311	5,941	5,920	5,625	55.9%	54.4%	51.9%
24-Sep-07	14,547	206	318	190	1,096	982	898	16,355	1,150	4,494	4,284	96	0	99	8,983	8,290	6,213	5,805	5,648	53.7%	55.8%	52.4%
25-Sep-07	14,395	206	281	186	1,139	1,012	1,001	16,207	1,100	5,499	4,325	95	15	101	10,005	9,311	5,093	5,602	5,627	60.5%	58.7%	53.1%
26-Sep-07	14,306	206	250	190	1,115	1,026	1,002	16,067	1,100	5,493	4,340	123	13	89	10,036	9,482	4,922	5,485	5,600	61.1%	58.4%	54.7%
27-Sep-07	13,848	206	278	189	1,034	1,037	1,002	15,556	1,059	5,975	4,358	147	12	107	10,577	9,897	3,920	5,291	5,538	66.4%	62.6%	56.2%
28-Sep-07	13,296	206	330	187	1,003	1,053	1,004	15,022	2,200	5,493	4,318	155	22	114	10,058	9,992	2,764	4,803	5,439	65.2%	64.2%	59.1%
29-Sep-07	11,997	206	438	185	1,051	1,081	1,008	13,877	2,150	3,868	4,300	154	20	147	8,549	9,471	3,178	4,576	5,361	59.4%	63.8%	57.1%
30-Sep-07	12,787	206	448	184	1,132	1,091	1,013	14,675	2,150	5,489	4,303	149	0	98	10,040	9,290	2,485	4,082	5,265	68.7%	63.9%	56.8%
Total	489,242	6,188	13,627	7,051	38,138	29,918	28,829	526,246	73,245	160,231	129,803	2,442	932	3,504	295,053	290,854	197,949	182,744	158,757	1668.0%	1648.3%	1600.6%
Average	15,841	206	454	235	1,005	897	894	17,342	2,441	5,341	4,327	81	31	117	9,835	9,888	5,265	5,408		55.2%	54.9%	53.4%

Table 16

U.S. Bureau of Reclamation - Central Valley Operations Office
Delta Outflow Computation (values in c.f.s.)

October 2007

Estimated numbers are in bold italic print

Date	DELTA INFLOW								NDCU	DELTA EXPORTS							OUTFLOW INDEX			Export/Inflow		
	Sacto R @Freeport -prev day-	SRTP -prev wk-	Yolo + Misc -prev day-	East Side Streams -prev day-	S. Joaquin River @Vernalis -prev day-	7-day Average	Monthly Average	Total Delta Inflow		Clifton Court (CLT)	Tracy (TRA)	Contra Costa (CCO)	Byron Bethany (BBID)	NBA	Total Delta Exports	3-day Avg TRA & CLT	NDOI daily	7-day Avg	Monthly Avg	Daily (%)	3 Day (%)	14 Day (%)
1-Oct-07	12,207	206	393	180	1,166	1,107	1,248	14,152	2,150	4,487	4,322	148	0	78	9,042	8,959	2,980	3,618	2,660	82.3%	82.9%	55.8%
2-Oct-07	12,176	205	345	810	1,248	1,118	1,212	14,784	2,100	4,484	4,331	147	18	54	9,000	9,145	3,675	3,415	3,318	59.6%	62.9%	57.7%
3-Oct-07	12,011	204	300	443	1,175	1,130	1,187	14,173	2,050	3,995	4,323	104	16	66	8,472	8,654	3,651	3,223	3,420	58.6%	60.1%	55.3%
4-Oct-07	11,794	203	276	328	1,138	1,144	1,169	13,739	2,050	3,498	4,274	147	7	79	7,991	8,305	3,699	3,202	3,498	56.5%	58.3%	53.8%
5-Oct-07	11,793	202	269	310	1,113	1,149	1,149	13,667	2,009	3,498	4,263	131	24	94	7,981	7,950	3,726	3,339	3,542	56.5%	57.2%	52.4%
6-Oct-07	12,385	291	265	292	1,073	1,149	1,146	14,214	2,009	2,891	4,357	112	0	95	7,556	7,627	4,880	3,551	3,728	51.7%	54.9%	51.0%
7-Oct-07	11,917	200	395	289	1,131	1,155	1,155	13,842	1,950	2,898	4,345	111	15	75	7,513	7,484	4,379	3,821	3,821	52.9%	53.7%	50.7%
8-Oct-07	11,575	199	313	258	1,209	1,150	1,162	13,554	1,850	2,995	4,270	112	50	68	6,795	7,319	4,209	4,000	3,870	53.2%	52.6%	50.2%
9-Oct-07	11,464	199	314	250	1,209	1,145	1,160	13,498	1,850	2,982	4,276	111	0	60	7,439	7,292	4,047	4,051	3,889	54.1%	53.4%	50.7%
10-Oct-07	10,750	198	395	250	1,143	1,139	1,154	12,648	1,800	2,990	4,257	111	12	58	7,404	7,260	3,544	4,009	3,835	57.2%	54.8%	51.4%
11-Oct-07	11,540	199	286	270	1,097	1,139	1,150	13,392	302	3,498	4,259	113	8	68	7,921	7,424	4,169	4,219	3,956	57.9%	56.4%	53.2%
12-Oct-07	11,629	199	225	253	1,112	1,149	1,149	13,418	302	3,486	4,230	111	6	47	7,889	7,573	4,247	4,438	4,084	57.5%	57.5%	54.7%
13-Oct-07	10,750	199	196	264	1,145	1,182	1,165	12,554	-1,751	3,489	4,181	112	5	43	7,820	7,714	4,485	4,897	4,250	61.1%	54.7%	56.1%
14-Oct-07	10,632	199	147	265	1,356	1,211	1,183	12,599	-1,801	3,497	4,202	111	0	63	7,873	7,895	4,527	5,004	4,473	61.1%	59.8%	56.8%
15-Oct-07	10,515	199	112	255	1,412	1,238	1,197	12,493	-1,801	3,498	4,290	103	4	80	7,967	7,719	4,327	5,206	4,540	62.3%	61.5%	57.3%
16-Oct-07	9,889	199	102	252	1,400	1,268	1,207	11,833	-204	2,996	4,222	96	7	65	7,371	7,569	4,665	5,395	4,548	60.9%	61.5%	57.1%
17-Oct-07	9,558	199	88	244	1,357	1,309	1,218	11,748	-432	2,987	4,225	83	5	63	7,352	7,406	4,829	5,607	4,585	61.3%	61.5%	56.8%
18-Oct-07	10,330	199	29	250	1,384	1,378	1,228	12,183	1,372	3,489	4,212	82	8	64	7,840	7,377	2,771	5,264	4,465	63.2%	61.4%	56.8%
19-Oct-07	10,668	199	20	253	1,589	1,461	1,284	12,619	1,372	3,492	4,251	93	6	69	7,900	7,592	3,197	4,972	4,398	61.1%	61.9%	58.9%
20-Oct-07	10,175	199	0	263	1,726	1,510	1,286	12,383	1,672	2,987	4,247	93	0	72	7,398	7,560	3,393	4,530	4,348	58.5%	60.9%	59.2%
21-Oct-07	10,306	199	0	275	1,703	1,550	1,305	12,443	1,572	2,981	4,238	91	0	54	7,364	7,399	3,567	4,104	4,310	57.8%	59.2%	58.4%
22-Oct-07	10,068	199	0	277	1,688	1,591	1,323	12,232	1,800	2,960	4,209	104	0	73	7,376	7,217	3,056	3,637	4,253	58.9%	58.4%	57.4%
23-Oct-07	10,172	199	0	271	1,690	1,638	1,338	12,532	1,750	2,498	4,228	112	24	82	6,888	7,045	3,894	3,527	4,237	53.4%	56.7%	56.3%
24-Oct-07	10,401	199	0	259	1,683	1,685	1,354	12,542	1,750	2,498	4,278	128	10	91	8,984	8,896	3,808	3,381	4,219	54.0%	56.4%	55.1%
25-Oct-07	9,948	199	0	251	1,718	1,720	1,373	12,106	1,750	2,495	4,261	135	14	98	6,955	8,743	3,491	3,471	4,187	55.9%	54.3%	54.2%
26-Oct-07	9,397	199	0	269	1,834	1,752	1,395	11,899	1,790	2,495	4,253	121	8	103	6,965	6,754	3,184	3,489	4,148	56.8%	55.4%	54.8%
27-Oct-07	9,414	199	0	285	1,951	1,821	1,420	11,849	1,750	1,992	4,202	101	0	103	6,398	6,559	3,701	3,513	4,131	52.3%	54.8%	53.5%
28-Oct-07	9,385	199	0	284	2,184	1,909	1,456	12,054	1,750	1,994	4,202	114	0	95	6,405	6,379	3,899	3,563	4,123	51.4%	53.4%	52.2%
29-Oct-07	9,953	199	0	290	2,302	1,997	1,485	12,744	1,700	2,497	4,253	81	17	108	6,920	6,380	4,124	3,716	4,123	52.8%	52.2%	52.1%
30-Oct-07	9,951	199	0	283	2,304	2,063	1,572	11,737	1,700	2,498	4,257	106	13	106	6,954	6,567	3,053	3,600	4,048	57.4%	53.8%	53.8%
31-Oct-07	9,788	199	4	273	2,290	2,172	1,639	12,554	1,700	2,991	4,200	115	7	99	7,398	6,899	3,456	3,560	4,048	57.2%	55.8%	56.1%
Total	332,164	6,197	4,284	9,040	48,539	44,149	38,300	398,215	36,402	96,296	131,891	3,438	282	2,369	233,703	230,426	126,111	125,201	125,321	1774.9%	1781.8%	1698.6%
Average	10,715	200	138	292	1,501	1,424	1,288	12,846	1,239	3,106	4,255	111	9	78	7,539	7,433	4,068	4,039	4,068	57.3%	57.5%	54.8%

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

MAY 2008

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: August 18, 2008

DAY	ELEV	STORAGE		COMPUTED INFLOW C.F.S.	RELEASE - C.F.S.			PUMPING PLANT	EVAPORATION C.F.S.	PRECIP INCHES	
		1000 ACRE-Feet IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET				
1	421.43	536.8	+3.0	2,917	1,115	0	0	236	59	.21	.00
2	421.78	542.7	+2.9	2,903	1,130	0	0	243	64	.23	.00
3	422.15	545.8	+3.1	2,916	1,079	0	0	240	42	.15	.00
4	422.60	549.6	+3.8	3,194	991	0	0	245	56	.20	.00
5	422.86	551.7	+2.2	2,442	1,034	0	0	253	56	.20	.00
6	423.39	556.2	+4.5	3,660	1,111	0	0	235	60	.21	.00
7	423.97	561.1	+4.9	4,169	1,399	0	0	237	60	.21	.00
8	424.62	566.7	+5.5	3,831	733	0	0	240	63	.22	.00
9	425.01	570.0	+3.3	3,085	1,106	0	0	251	60	.21	.00
10	425.45	573.8	+3.8	3,207	976	0	0	259	63	.22	.00
11	425.88	577.5	+3.7	3,380	1,191	0	0	259	64	.22	.00
12	426.34	581.5	+4.0	3,394	1,068	0	0	253	64	.22	.00
13	426.75	585.0	+3.6	3,180	1,045	0	0	257	84	.29	.00
14	427.15	588.5	+3.5	3,146	1,028	0	0	272	90	.31	.00
15	427.47	591.3	+2.8	3,274	1,512	0	0	274	76	.26	.00
16	428.17	597.4	+6.1	4,522	1,040	0	0	284	103	.35	.00
17	428.79	602.9	+5.5	4,125	989	0	0	284	94	.32	.00
18	429.42	608.5	+5.6	4,370	1,203	0	0	296	53	.18	.00
19	429.90	612.8	+4.3	3,562	1,040	0	0	291	98	.33	.00
20	430.33	616.6	+3.8	3,290	995	0	0	276	78	.26	.00
21	430.47	617.9	+1.3	2,680	1,696	0	0	258	93	.31	.00
22	430.60	619.0	+1.2	2,344	1,394	0	0	263	99	.33	.00
23	430.64	619.4	+0.4	1,896	1,372	0	0	278	66	.22	.00
24	430.67	619.7	+0.3	1,964	1,572	0	0	244	12	.04	.05
25	430.73	620.2	+0.5	2,324	1,761	0	0	238	54	.18	.00
26	430.74	620.3	+0.1	1,873	1,515	0	0	253	60	.20	.00
27	430.78	620.6	+0.4	1,992	1,496	0	0	262	54	.18	.18
28	430.65	619.5	-1.2	1,531	1,801	0	0	254	63	.21	.00
29	430.64	619.4	-0.1	2,055	1,776	0	0	261	63	.21	.00
30	430.49	618.0	-1.3	1,796	2,135	0	0	270	69	.23	.00
31	430.38	617.1	-1.0	2,068	2,228	0	0	271	66	.22	.00
TOTALS			+80.5	91,120	40,531	0	0	8,037	2,086	7.13	.23
ACRE-Feet			+80,500	180,737	80,393	0	0	15,941	4,138		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-Feet)			PRECIPITATION	
POWER	80,393	OUTLET	0	THIS MONTH = .23
SPILL	0	TOTAL	96,334	JULY 1, 2007 TO DATE = 14.69
PUMPING PLANT	15,941			

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

JUNE 2008

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: August 8, 2008

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRE-Feet IN LAKE	CHANGE			RIVER SPILL	OUTLET		C.F.S.	INCHES	
		617.1									
1	430.16	615.1	-2.0	1,736	2,389	0	0	272	69	.23	.00
2	429.92	612.9	-2.1	1,644	2,378	0	0	277	71	.24	.00
3	429.75	611.4	-1.5	1,825	2,241	0	0	269	77	.26	.00
4	429.55	609.6	-1.8	1,552	2,103	0	0	269	77	.26	.00
5	429.40	608.3	-1.3	1,788	2,103	0	0	269	89	.30	.00
6	429.12	605.8	-2.5	1,397	2,290	0	0	273	89	.30	.00
7	428.91	604.0	-1.9	1,564	2,136	0	0	281	86	.29	.00
8	428.71	602.2	-1.8	1,565	2,084	0	0	288	83	.28	.00
9	428.40	599.5	-2.7	1,571	2,562	0	0	294	94	.32	.00
10	427.90	595.1	-4.4	1,692	3,536	0	0	286	91	.31	.00
11	427.10	588.1	-7.0	1,557	4,690	0	0	283	114	.39	.00
12	426.36	581.6	-6.4	1,607	4,455	0	0	295	99	.34	.00
13	425.66	575.6	-6.1	1,290	3,952	0	0	302	86	.30	.00
14	424.88	568.9	-6.7	1,430	4,414	0	0	301	95	.33	.00
15	424.08	562.0	-6.8	1,270	4,345	0	0	292	74	.26	.00
16	423.27	555.2	-6.9	1,319	4,393	0	0	295	88	.31	.00
17	422.45	548.3	-6.9	1,153	4,262	0	0	287	79	.28	.00
18	421.58	541.0	-7.3	918	4,193	0	0	304	81	.29	.00
19	420.72	533.9	-7.1	1,282	4,496	0	0	293	83	.30	.00
20	419.90	527.2	-6.7	1,105	4,117	0	0	296	91	.33	.00
21	419.10	520.6	-6.5	1,245	4,125	0	0	308	101	.37	.00
22	418.29	514.1	-6.6	1,360	4,254	0	0	303	106	.39	.00
23	417.48	507.6	-6.5	1,155	4,050	0	0	301	84	.31	.00
24	416.87	502.7	-4.9	1,317	3,414	0	0	296	64	.24	.00
25	416.06	496.3	-6.4	841	3,749	0	0	285	45	.17	.00
26	415.42	491.3	-5.0	1,146	3,325	0	0	283	74	.28	.00
27	414.93	487.4	-3.8	1,335	2,938	0	0	298	37	.14	.00
28	414.35	482.9	-4.5	1,359	3,284	0	0	287	63	.24	.00
29	413.75	478.3	-4.6	1,178	3,168	0	0	286	68	.26	.00
30	413.04	472.8	-5.5	933	3,335	0	0	289	67	.26	.00
TOTALS			-144.2	41,134	102,781	0	0	8,662	2,425	8.58	.00
ACRE-Feet			-144.200	81,589	203,866	0	0	17,181	4,810		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-Feet)				PRECIPITATION	
POWER	203,866	OUTLET	0	THIS MONTH =	.00
SPILL	0	TOTAL	221,047	JULY 1, 2007 TO DATE =	14.69
PUMPING PLANT	17,181				

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

JULY 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: September 26, 2007

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRE-Feet IN LAKE	CHANGE			RIVER SPILL	OUTLET		C.F.S.	INCHES	
1	433.84	655.9	-7.5	1,134	4,537	0	0	282	83	.27	.00
2	432.94	648.5	-8.3	894	4,671	0	0	291	91	.30	.00
3	432.29	640.2	-5.9	1,505	4,101	0	0	296	91	.30	.00
4	431.74	634.3	-5.0	1,389	3,543	0	0	286	75	.25	.00
5	431.18	629.3	-5.1	1,551	3,714	0	0	304	84	.28	.00
6	430.65	624.2	-4.8	1,803	3,793	0	0	310	102	.34	.00
7	430.20	619.5	-4.0	1,508	3,162	0	0	303	77	.26	.00
8	429.67	615.4	-4.7	1,057	3,100	0	0	294	47	.16	.00
9	429.16	610.7	-4.5	1,378	3,327	0	0	291	47	.16	.00
10	428.77	606.2	-3.5	1,603	2,975	0	0	281	88	.30	.00
11	428.14	602.7	-5.6	1,225	3,701	0	0	262	65	.22	.00
12	427.46	597.2	-6.0	1,372	4,049	0	0	264	64	.22	.00
13	426.77	591.2	-6.0	1,160	3,867	0	0	242	87	.30	.00
14	426.17	585.2	-5.2	1,899	4,154	0	0	284	87	.30	.00
15	425.50	580.0	-5.8	1,646	4,186	0	0	284	89	.31	.00
16	424.79	574.2	-6.1	1,449	4,163	0	0	289	80	.28	.00
17	423.91	568.1	-7.5	1,136	4,574	0	0	273	71	.25	.00
18	423.28	560.6	-5.3	1,825	4,196	0	0	264	51	.18	.00
19	422.54	555.3	-6.2	1,189	4,013	0	0	262	51	.18	.00
20	421.80	549.0	-6.2	1,445	4,226	0	0	268	70	.25	.00
21	421.12	542.9	-5.6	1,610	4,113	0	0	269	75	.27	.00
22	420.39	537.2	-8.0	1,648	4,331	0	0	276	75	.27	.00
23	419.60	531.2	-6.5	1,371	4,288	0	0	276	69	.25	.00
24	418.93	524.7	-5.5	1,314	3,717	0	0	275	74	.27	.00
25	418.37	519.3	-4.5	1,532	3,486	0	0	273	54	.20	.00
26	417.88	514.7	-3.9	1,464	3,122	0	0	263	70	.26	.00
27	417.43	510.8	-3.6	1,537	3,002	0	0	270	81	.30	.00
28	416.91	507.2	-4.2	1,488	3,228	0	0	275	80	.30	.00
29	416.28	503.0	-5.0	1,137	3,297	0	0	278	80	.30	.00
30	415.72	498.0	-4.4	1,304	3,184	0	0	282	66	.25	.00
31	415.20	493.6	-4.1	1,116	2,847	0	0	270	58	.22	.00
TOTALS		489.5	-166.5	43,689	116,857	0	0	8,637	2,282	8.00	.00
ACRE-Feet			-166,500	86,657	231,389	0	0	17,131	4,526		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-Feet)		PRECIPITATION	
POWER	231,389	OUTLET	0
SPILL	0	TOTAL	248,520
PUMPING PLANT	17,131		
		THIS MONTH =	.00
		JULY 1, 2007 TO DATE =	.00

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

AUGUST 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: October 17, 2007

DAY	ELEV	STORAGE		COMPUTED* INFLOW C.F.S.	POWER	RELEASE - C.F.S.		PUMPING PLANT	EVAPORATION C.F.S.	PRECIP INCHES	PRECIP INCHES
		1000 ACRE-Feet IN LAKE	CHANGE			RIVER SPILL	OUTLET				
1	414.58	489.5	-4.8	1,370	3,439	0	0	290	81	.31	.00
2	414.03	484.7	-4.3	1,304	3,099	0	0	284	78	.30	.00
3	413.47	476.1	-4.3	1,364	3,185	0	0	280	75	.29	.00
4	412.94	472.0	-4.1	1,356	3,054	0	0	286	72	.28	.00
5	412.31	467.2	-4.8	1,144	3,202	0	0	283	82	.32	.00
6	411.65	462.2	-5.0	1,090	3,276	0	0	261	79	.31	.00
7	411.10	458.1	-4.2	1,396	3,199	0	0	249	43	.17	.00
8	410.53	453.8	-4.3	1,232	3,078	0	0	255	53	.21	.00
9	409.86	448.8	-5.0	1,131	3,349	0	0	254	50	.20	.00
10	409.26	444.3	-4.4	1,076	2,997	0	0	263	57	.23	.00
11	408.68	440.1	-4.3	1,194	3,014	0	0	265	67	.27	.00
12	408.24	436.8	-3.2	1,539	2,823	0	0	264	76	.31	.00
13	407.76	433.4	-3.5	1,452	2,889	0	0	269	56	.23	.00
14	407.29	429.9	-3.4	1,557	2,950	0	0	270	53	.22	.00
15	406.85	426.8	-3.2	1,269	2,544	0	0	267	58	.24	.00
16	406.36	423.3	-3.5	1,407	2,840	0	0	262	75	.31	.00
17	405.88	419.8	-3.4	1,139	2,539	0	0	263	65	.27	.00
18	405.42	416.6	-3.3	1,448	2,752	0	0	269	69	.29	.00
19	404.86	412.6	-4.0	1,113	2,777	0	0	272	57	.24	.00
20	404.36	409.1	-3.5	1,366	2,807	0	0	270	54	.23	.00
21	403.94	406.2	-2.9	1,483	2,637	0	0	272	54	.23	.00
22	403.47	402.9	-3.3	1,342	2,627	0	32	267	56	.24	.00
23	403.03	399.9	-3.0	1,305	2,449	0	57	271	63	.27	.00
24	402.48	396.1	-3.8	975	2,544	0	0	267	62	.27	.00
25	401.97	392.6	-3.5	1,308	2,737	0	0	266	62	.27	.00
26	401.53	389.7	-3.0	1,379	2,562	0	0	261	55	.24	.00
27	400.93	385.6	-4.0	954	2,676	0	0	267	52	.23	.00
28	400.47	382.5	-3.1	1,290	2,552	0	0	235	52	.23	.00
29	400.24	381.0	-1.5	1,906	2,358	0	0	266	56	.25	.00
30	399.75	377.8	-3.3	1,525	2,842	0	0	262	61	.27	.00
31	399.43	375.6	-2.1	1,493	2,217	0	0	274	67	.30	.00
TOTALS			-114.0	40,909	88,014	0	89	8,284	1,940	8.03	.00
ACRE-Feet			-114,000	81,143	174,576	0	177	16,431	3,848		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

RELEASE (ACRE-Feet)				PRECIPITATION	
POWER	174,576	OUTLET	177	THIS MONTH =	.00
SPILL	0	TOTAL	191,184	JULY 1, 2007 TO DATE =	.00
PUMPING PLANT	16,431				

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

SEPTEMBER 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: October 31, 2007

DAY	ELEV.	STORAGE		COMPUTED INFLOW C.F.S.	POWER	RELEASE - C.F.S.		PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRE-Feet IN LAKE	CHANGE			RIVER SPILL	OUTLET		C.F.S.	INCHES	
		375.6									
1	398.92	372.3	-3.4	1,411	2,761	0	0	276	69	.31	.00
2	398.33	368.4	-3.9	984	2,582	0	0	277	68	.31	.00
3	397.89	365.6	-2.9	1,211	2,308	0	0	280	68	.31	.00
4	397.51	363.1	-2.5	1,385	2,269	0	0	281	72	.33	.00
5	397.05	360.1	-3.0	1,035	2,245	0	0	251	37	.17	.00
6	396.62	357.4	-2.8	680	1,982	0	0	260	45	.21	.00
7	396.29	355.3	-2.1	1,386	2,138	0	0	255	56	.26	.00
8	395.89	352.7	-2.5	996	1,994	0	0	244	43	.20	.00
9	395.53	350.5	-2.3	1,189	2,020	0	0	255	40	.19	.00
10	395.02	347.2	-3.2	990	2,314	0	0	257	44	.21	.00
11	394.63	344.8	-2.4	891	1,843	0	0	241	36	.17	.00
12	394.49	343.9	-0.9	1,286	1,445	0	0	238	44	.21	.00
13	394.31	342.8	-1.1	925	1,243	0	0	230	19	.09	.00
14	394.04	341.1	-1.7	1,322	1,905	0	0	228	40	.19	.00
15	393.80	339.6	-1.5	1,103	1,588	0	0	228	35	.17	.00
16	393.58	338.3	-1.4	1,185	1,596	0	0	233	41	.20	.00
17	393.43	337.3	-0.9	1,173	1,364	0	0	235	41	.20	.00
18	393.12	335.4	-1.9	844	1,540	0	0	231	37	.18	.00
19	392.93	334.3	-1.2	1,152	1,475	0	0	223	43	.21	.00
20	392.77	333.3	-1.0	1,237	1,507	0	0	185	37	.18	.00
21	392.62	332.4	-0.9	1,207	1,440	0	0	191	37	.18	.00
22	392.52	331.8	-0.6	1,173	1,263	0	0	189	29	.14	.00
23	392.35	330.7	-1.0	1,034	1,356	0	0	190	10	.05	.03
24	392.12	329.3	-1.4	811	1,307	0	0	193	18	.09	.00
25	391.96	328.3	-1.0	1,051	1,318	0	0	198	26	.13	.00
26	391.87	327.8	-0.5	1,213	1,242	0	0	206	38	.19	.00
27	391.84	327.6	-0.2	1,523	1,364	0	0	210	40	.20	.00
28	391.68	326.7	-1.0	1,434	1,667	0	0	205	48	.24	.00
29	391.39	324.9	-1.7	753	1,427	0	0	187	20	.10	.04
30	391.08	323.0	-1.9	702	1,424	0	0	186	34	.17	.00
TOTALS			-52.8	33,466	51,907	0	0	6,863	1,215	5.79	.07
ACRE-Feet			-52,800	66,380	102,958	0	0	13,613	2,410		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

SUMMARY

	RELEASE (ACRE-Feet)			PRECIPITATION	
POWER	102,958	OUTLET	0	THIS MONTH =	.07
SPILL	0	TOTAL	116,571	JULY 1, 2007 TO DATE =	.07
PUMPING PLANT	13,613				

UNITED STATES DEPARTMENT OF THE INTERIOR
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

Table 11

OCTOBER 2007

FOLSOM LAKE DAILY OPERATIONS

RUN DATE: February 7, 2008

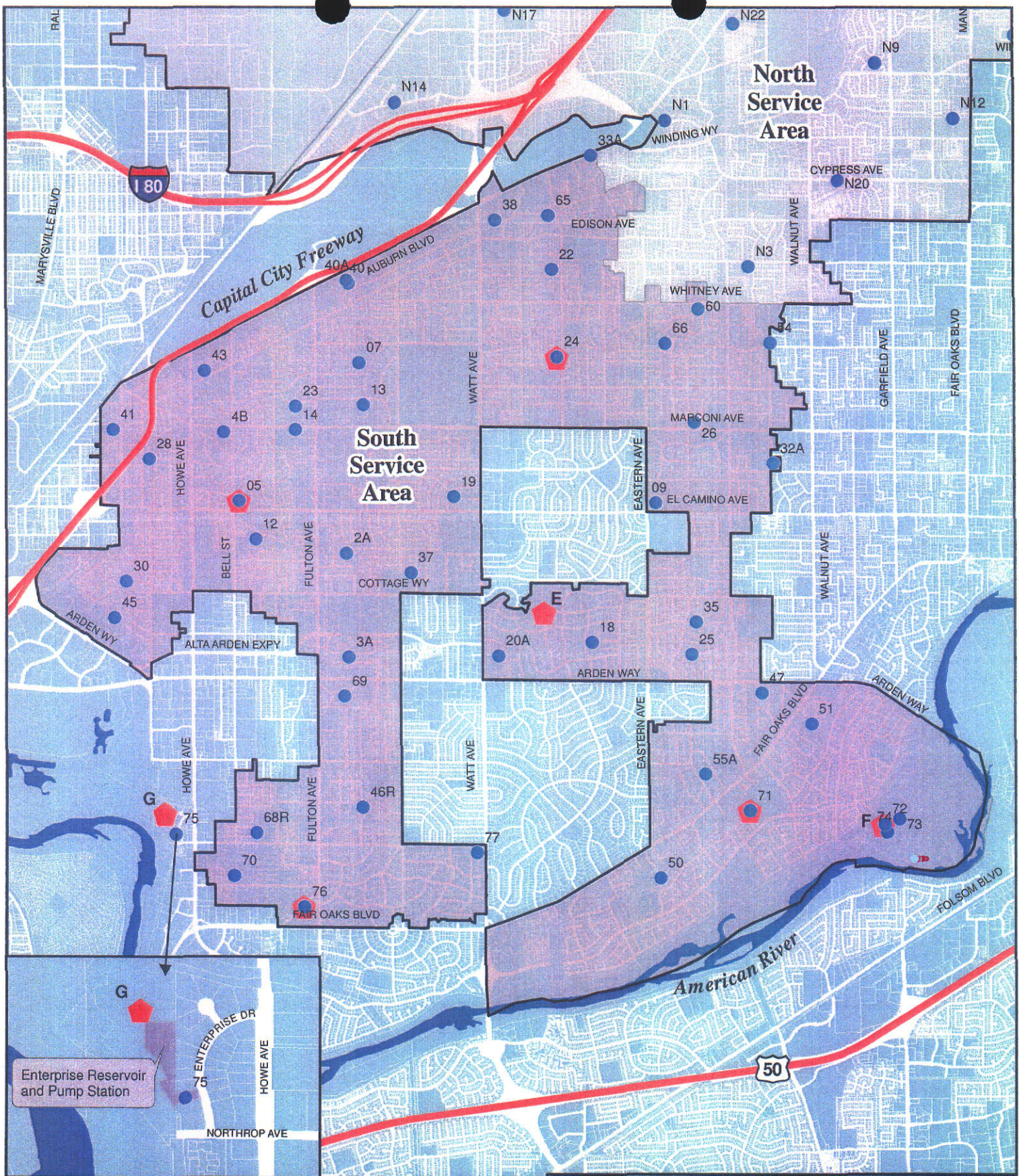
DAY	ELEV	STORAGE		COMPUTED INFLOW C.F.S.	RELEASE - C.F.S.			PUMPING PLANT	EVAPORATION		PRECIP INCHES
		1000 ACRE-Feet IN LAKE	CHANGE		POWER	RIVER SPILL	OUTLET		C.F.S.	INCHES	
		323.0									
1	390.97	322.4	-0.7	1,169	1,278	0	0	192	32	.16	.00
2	390.79	321.3	-1.1	1,071	1,392	0	0	187	32	.16	.00
3	390.52	319.7	-1.6	845	1,221	0	0	200	34	.17	.00
4	390.27	318.2	-1.5	732	1,262	0	0	186	34	.17	.00
5	390.03	316.8	-1.4	744	1,263	0	0	181	20	.10	.00
6	389.75	315.1	-1.6	800	1,424	0	0	178	29	.15	.00
7	389.47	313.5	-1.6	849	1,467	0	0	187	25	.13	.00
8	389.16	311.7	-1.8	729	1,418	0	0	199	31	.16	.00
9	388.97	310.6	-1.1	869	1,211	0	0	189	31	.16	.00
10	388.91	310.2	-0.3	1,430	1,412	0	0	164	29	.15	.00
11	388.79	309.5	-0.7	1,108	1,291	0	0	153	15	.08	.83
12	388.65	308.7	-0.8	1,136	1,375	0	0	150	21	.11	.00
13	388.48	307.7	-1.0	789	1,142	0	0	145	0	.00	.12
14	388.25	306.4	-1.3	825	1,321	0	0	146	31	.16	.00
15	387.99	304.9	-1.5	855	1,442	0	0	150	23	.12	.00
16	387.75	303.5	-1.4	960	1,494	0	0	147	13	.07	.00
17	387.39	301.4	-2.1	459	1,364	0	0	135	0	.00	.09
18	387.03	299.4	-2.1	347	1,240	0	0	128	19	.10	.01
19	386.77	297.9	-1.5	688	1,282	0	0	134	15	.08	.00
20	386.60	296.9	-1.0	950	1,291	0	0	138	6	.03	.18
21	386.44	296.0	-0.9	1,020	1,321	0	0	138	17	.09	.01
22	386.28	295.1	-0.9	944	1,238	0	0	139	24	.13	.00
23	386.01	293.6	-1.5	809	1,416	0	0	146	17	.09	.00
24	385.79	292.4	-1.2	791	1,233	0	0	150	28	.15	.00
25	385.56	291.1	-1.3	854	1,323	0	0	156	22	.12	.00
26	385.47	290.6	-0.5	1,118	1,197	0	0	153	22	.12	.00
27	385.09	288.5	-2.1	787	1,684	0	0	158	15	.08	.00
28	384.90	287.4	-1.1	938	1,289	0	0	163	17	.09	.00
29	384.73	286.5	-0.9	1,174	1,477	0	0	152	18	.10	.09
30	384.47	285.0	-1.4	773	1,337	0	0	140	18	.10	.09
31	384.31	284.2	-0.9	794	1,099	0	0	129	11	.06	.00
TOTALS			-38.8	27,157	41,204	0	0	4,913	649	3.39	1.42
ACRE-Feet			-38,800	53,866	81,728	0	0	9,745	1,287		

COMMENTS:

* COMPUTED INFLOW IS THE SUM OF CHANGE IN STORAGE, RELEASES, PUMPING AND EVAPORATION.

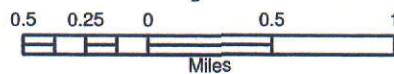
SUMMARY

RELEASE (ACRE-Feet)				PRECIPITATION	
POWER	81,728	OUTLET	0	THIS MONTH =	1.42
SPILL	0	TOTAL	91,473	JULY 1, 2007 TO DATE =	1.49
PUMPING PLANT	9,745				



Legend

- Active Well
- ◆ Proposed Groundwater Monitoring Well



**Portion of Sacramento Suburban Water District
South Service Area Active Wells and
Proposed Groundwater Monitoring Wells**



Base Data: Sacramento County Gis Base Map
 Projection: CA State Plane 2, NAD83
 Scale: Relative
 Prepared by: J.W.S. SSWD
 Sacramento, CA - April 23, 2009
 South_Service_Area_Active Wells-GMMW.mxd

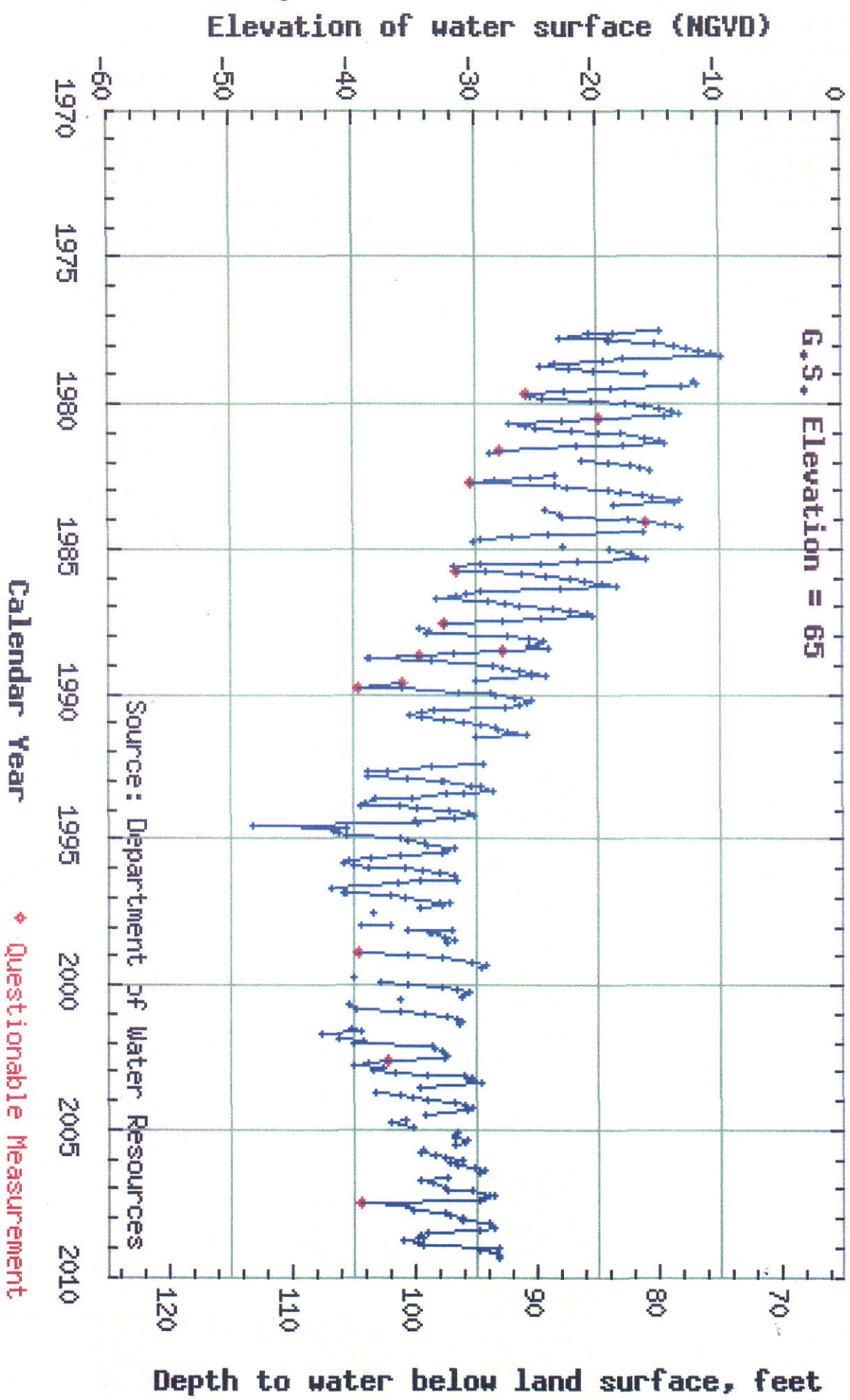
Logistical Characteristics

Well #	Well Name	Well Address	X-Coordinate (CA State Plane, Zone II, NAD 83)	Y-Coordinate (CA State Plane, Zone II, NAD 83)	DPH ID # (PS Code)
2A	El Prado/Park Estates	2250 Park Estates Dr.	6733638.55	1983395.761	3410001-001
3A	Kubel/Armstrong	1791 Kubel Circle	6733710.155	1980106.29	3410001-002
4B	Bell/Marconi	2841 Bell Street	6729768.462	1987255.953	3410001-062
5	Bell/EI Camino	2550 Bell Street	6730254.315	1985053.534	3410001-004
7	Rubicon/Seely Park	2798 Rubicon	6734057.455	1989447.561	3410001-005
12	Hemando/Santa Anita Park	6301 San Martin	6730767.525	1983830.299	3410001-010
13	Caldenwood/Marconi	2951 Caldenwood Ln.	6734195.483	1988127.74	3410001-011
14	Marconi South/Fulton	2520 Marconi Ave.	6732044.077	1987327.962	3410001-012
18	Riding Club/Ladino	4012 Riding Club Ln.	6741483.582	1980586.277	3410001-013
19	Balmoral/Yorktown	3330 Balmoral Dr.	6737079.087	1985177.003	3410001-014
20A	Watt/Arden	Arden & Watt Ave.	6738496.597	1980140.914	3410001-015
22	West/Becerra	3812 West Way	6740251.119	1992363.199	3410001-016
23	Marconi North/Fulton	2445 Marconi Ave.	6732048.056	1988077.891	3410001-017
24	Becerra/Woodcrest	3858 Woodcrest Rd.	6740395.161	1989626.474	3410001-018
25	Thor/Mercury	4420 Thor Way	6744661.041	1980191.672	3410001-019
26	Greenwood/Marconi	4501 Marconi Ave.	6744765.191	1987563.792	3410001-020
28	Red Robin/Darwin	Red Robin Lane (red)	6727394.783	1986405.069	3410001-021
30	Rockbridge/Keith	2116 Rockbridge Rd. (side)	6726644.523	1982507.971	3410001-022
32A	Eden/Root	Root Ave. & Eden Ct.	6747276.229	1986257.972	3410001-071
33A	Auburn/Norris	Auburn Blvd. & Norris	6741505.302	1995963.946	3410001-072
35	Ulysses/Mercury	4421 Ulysses Drive	6744808.915	1981217.789	3410001-025
37	Morse/Cottage Park	3169 Ellington Cir. (rear)	6735696.205	1982770.968	3410001-027
38	Watt/Auburn	3830 Watt Avenue	6738436.663	1993919.614	3410001-028
40	Auburn/Yard	2736 Auburn Blvd.	6733746.399	1991931.551	3410001-029
40A	Auburn/Yard	2736 Auburn Blvd.	6733686.632	1992019.879	3410001-073
41	Albatross/Iris	1812 Iris Avenue	6726236.51	1987337.75	3410001-030
43	Edison/Truax	3101 Truax Ct.	6729153.772	1989187.848	3410001-032
45	Jamestown/Middleberry	1848 Jamestown Drive	6726269.146	1981352.362	3410001-033
47	Copenhagen/Arden	1631 Copenhagen Way	6746887.81	1978975.238	3410001-035
55A	Stewart/Lynndale	1210 Stewart Road	6745070.897	1976357.957	3410001-074
60	Whitney/Concetta	Bet. 4528 & 4534 Whitney	6744894.116	1991119.076	3410001-042
65	Merrily/Annadale	E. end Merrily Way	6740147.067	1994070.826	3410001-051
66	Eastern/Woodside Church	3312 Eastern Ave.	6743846.458	1990039.382	3410001-052
68R	Northrop/Dornajo	227' N of Northrop, 630' W of Dornajo	6730778.264	1974488.705	3410001-054
69	Hillsdale/Cooper	2800 Hilldale Road	6733577.213	1978867.536	3410001-055
70	Sierra/Blackmer	2281 Sierra Blvd.	6730062.168	1973136.188	3410001-056
71	Rodney T. Franz	4705 American River Drive	6746491.268	1975202.794	3410001-064
72	River Walk/NETP	1000 River Walk Way	6750816.357	1974778.593	3410001-061
73	River Walk/NETP East	1000 River Walk Way	6751283.07	1974945.885	3410001-065
74	River Walk/NETP South	1000 River Walk Way	6750886.173	1974528.132	3410001-066
75	Enterprise/Northrop	917 Enterprise Drive	6728209.815	1974450.246	3410001-067
76	Larch/Northrop	870 Larch Lane	6732302.183	1972163.514	3410001-070
77	Fulton/Fair Oaks	541 Monroe Street	6737790.753	1973868.466	3410001-069

Groundwater Levels, 09N05E25J001M

Sacramento Valley (Sacramento County)

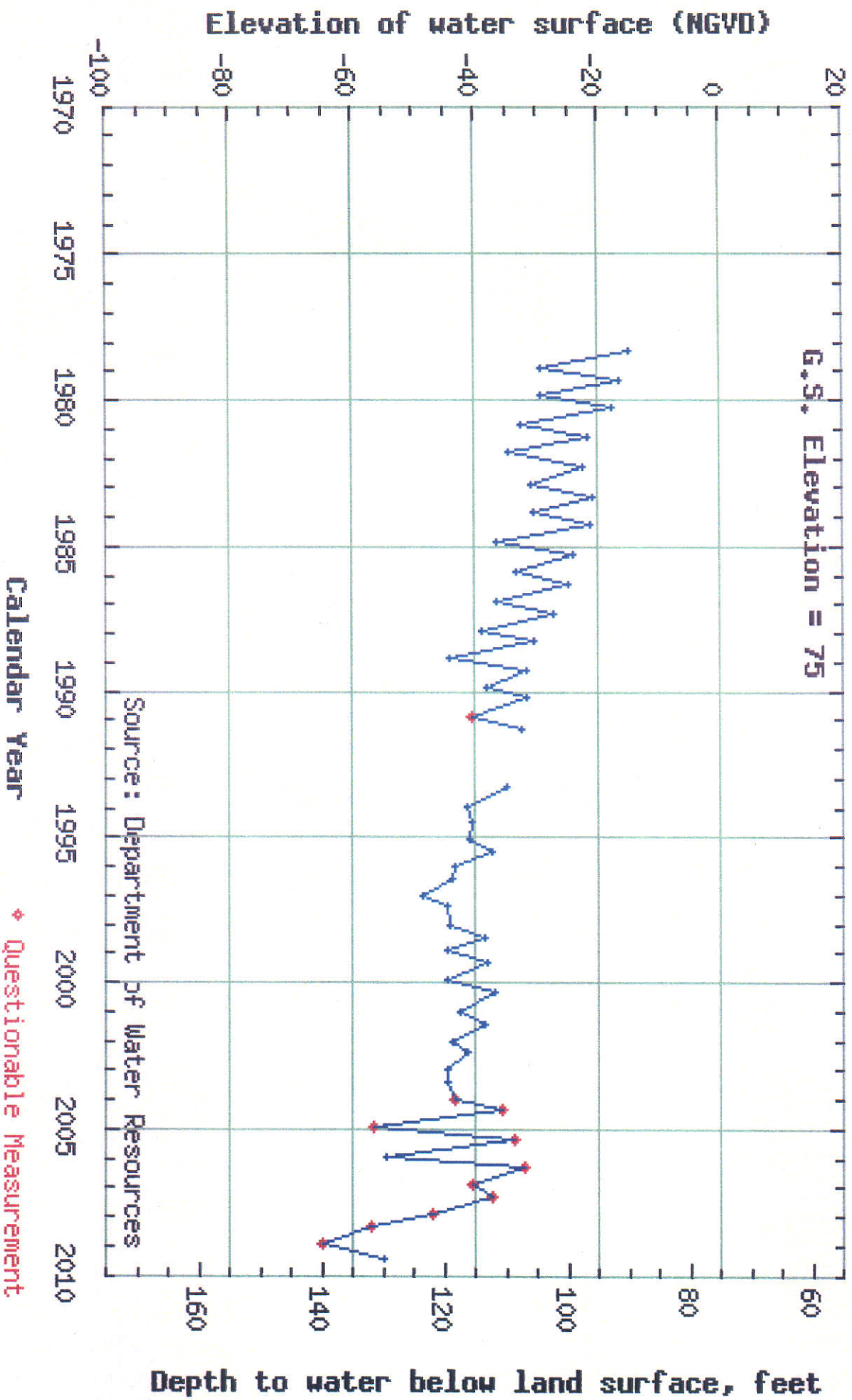
G.S. Elevation = 65



Groundwater Levels, 09N05E12L001M

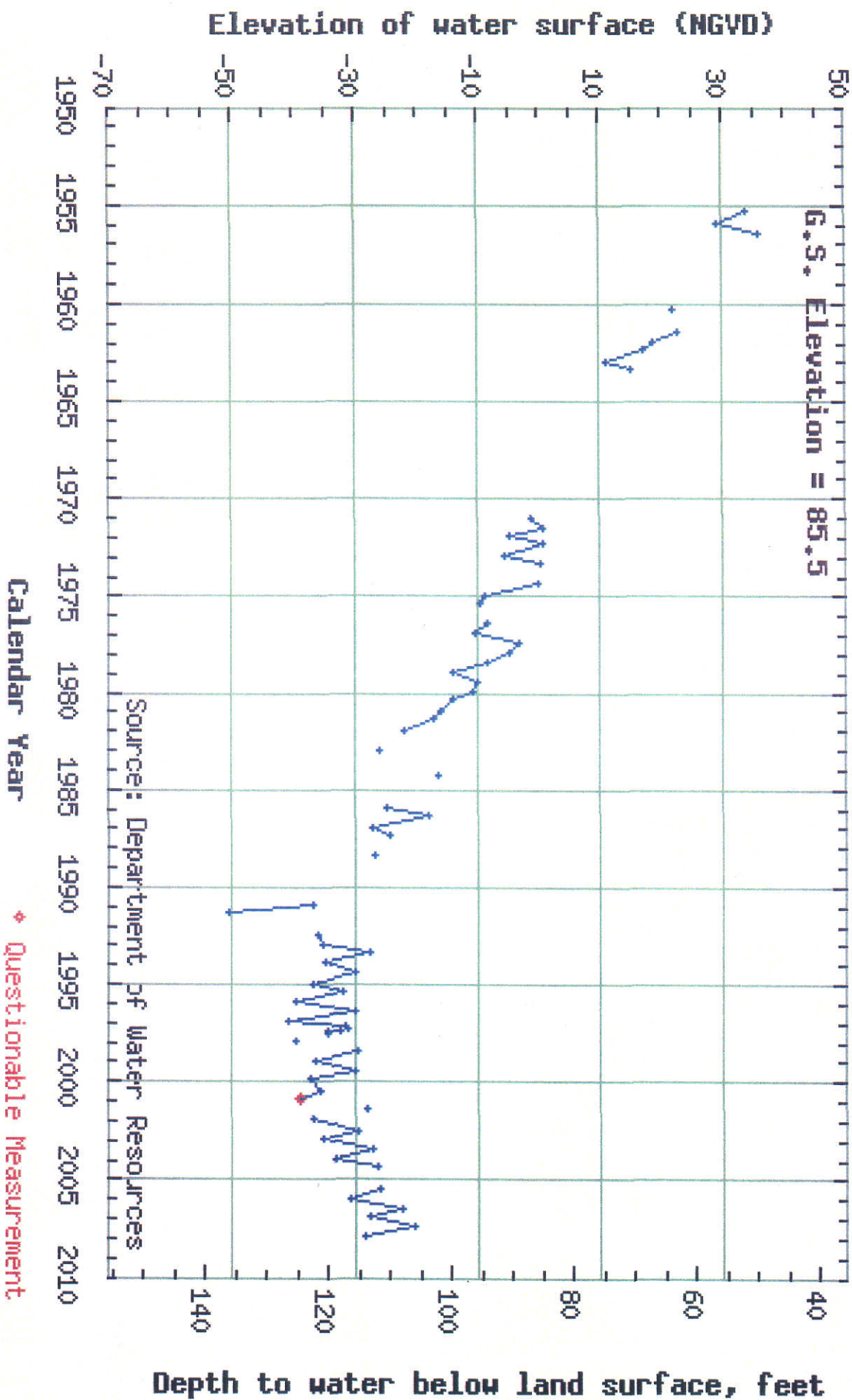
Sacramento Valley (Sacramento County)

G.S. Elevation = 75



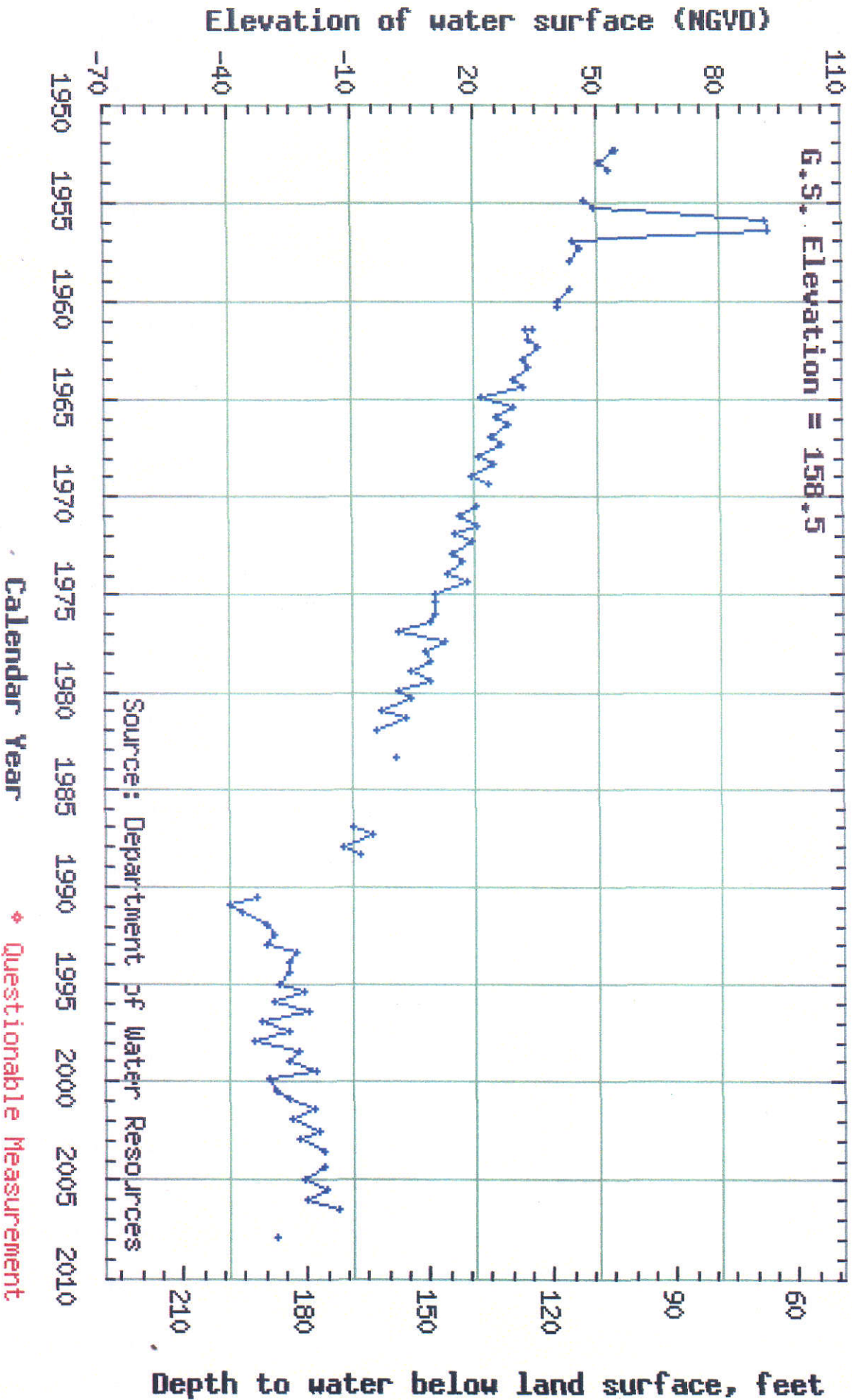
Groundwater Levels, 10N05E140002M

Sacramento Valley (Sacramento County)



Groundwater Levels, 10N06E21F002M

Sacramento Valley (Sacramento County)



**SACRAMENTO GROUNDWATER AUTHORITY
GROUNDWATER MANAGEMENT PLAN**

**Table 4. SGA Total Municipal and Industrial Water Deliveries in the SGA Area
2003-2007 (Calendar Years)**

WATER PURVEYOR	YEAR	Surface Water (AF/year)	Ground Water (AF/year)	Total Water Deliveries (AF/year)
California American Water	2007	384	17,669	18,053
	2006	1,024	17,973	18,997
	2005	0	17,968	17,968
	2004	0	19,784	19,784
	2003	0	19,240	19,240
Carmichael Water District	2007	9,509	2,868	12,377
	2006	8,971	3,519	12,490
	2005	9,722	2,347	12,069
	2004	9,843	3,836	13,679
	2003	9,358	3,265	12,623
Citrus Heights Water District	2007	16,237	98	16,335
	2006	18,736	100	18,836
	2005	18,994	100	19,094
	2004	19,753	1,347	21,100
	2003	17,938	573	18,511
Del Paso Manor Water District	2007	0	1,638	1,638
	2006	0	1,654	1,654
	2005	0	1,657	1,657
	2004	0	1,747	1,747
	2003	0	1,477	1,477
Fair Oaks Water District	2007	11,533	899	12,432
	2006	11,178	845	12,023
	2005	12,282	172	12,454
	2004	13,629	312	13,941
	2003	12,333	240	12,573
Folsom, City of	2007	1,820	0	1,820
	2006	1,695	0	1,695
	2005	1,561	0	1,561
	2004	1,415	0	1,415
	2003	1,107	0	1,107
Golden State Water Company	2007	0	1,252	1,252
	2006	0	1,296	1,296
	2005	0	1,248	1,248
	2004	0	1,372	1,372
	2003	0	1,311	1,311
Orange Vale Water Company	2007	4,452	0	4,452
	2006	3,642	0	3,642
	2005	3,376	0	3,376
	2004	4,165	0	4,165
	2003	3,816	0	3,816

SACRAMENTO GROUNDWATER AUTHORITY
GROUNDWATER MANAGEMENT PLAN

Table 4. SGA Total Municipal and Industrial Water Deliveries in the SGA Area (Continued)
2003-2007 (Calendar Years)

WATER PURVEYOR	YEAR	Surface Water (AF/year)	Ground Water (AF/year)	Total Water Deliveries (AF/year)
Rio Linda/Elverta CWD	2007	109	3,305	3,414
	2006	0	3,378	3,378
	2005	0	3,209	3,209
	2004	0	3,407	3,407
	2003	0	3,163	3,163
Sacramento, City of	2007	25,431	18,618	44,049
	2006	22,560	20,917	43,477
	2005	25,213	19,415	44,628
	2004	42,804	20,339	63,143
	2003	31,594	22,621	54,215
Sacramento, County of	2007	0	5,353	5,353
	2006	0	5,133	5,133
	2005	0	5,111	5,111
	2004	0	5,691	5,691
	2003	0	5,034	5,034
Sacramento Suburban WD	2007	7,544	37,932	45,476
	2006	13,345	26,559	39,904
	2005	14,364	26,830	41,194
	2004	15,338	33,261	48,599
	2003	15,214	32,494	47,708
San Juan Water District	2007	4,213	0	4,213
	2006	4,038	0	4,038
	2005	3,839	0	3,839
	2004	4,379	0	4,379
	2003	4,261	0	4,261
Total for SGA Area	2007	81,232	89,632	170,864
	2006	84,165	81,374	165,539
	2005	89,351	78,057	167,408
	2004	111,326	91,096	202,422
	2003	95,621	89,418	185,039

Notes: This data does not include agricultural surface water supplies delivered by Natomas Central Mutual Water Company and groundwater extraction by agricultural and self-supplied users. It also does not include surface water supplies for portions of the San Juan Water District and the City of Folsom that are not within the SGA boundaries.



Agenda Item: 8

Date: November 6, 2008

Subject: Biennial Groundwater Elevations Report

Staff Contact: Dan York, Manager Field Operations

The following information provides a summary of the standing water levels collected at designated well sites throughout the District. The standing water levels are collected in the spring and fall of each year. By collecting the standing water levels in spring, the data shows the groundwater is usually replenished through the winter months. By collecting the standing water levels in the fall, the data shows the groundwater is depleted through the summer months.

Groundwater levels are monitored as a water management tool designed to help local purveyors implement best management practices on a regional basis. This tool also assists staff in monitoring the location of the well pump with respect to the standing/pumping water levels to avoid loss of pump suction.



Standing Water Levels, April / October, In feet Below Ground Level

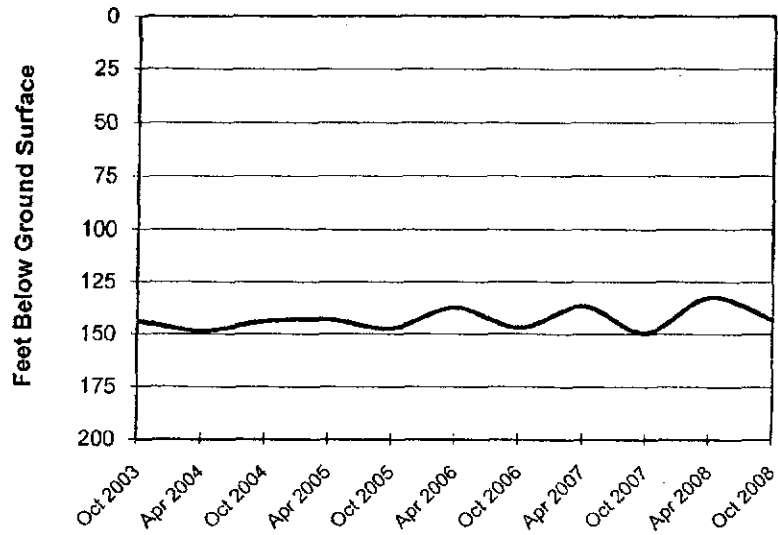
Sacramento Suburban Water District ~ North Service Area

Well Name	Well #	Oct 2003	Apr 2004	Oct 2004	Apr 2005	Oct 2005	Apr 2006	Oct 2006	Apr 2007	Oct 2007	Apr 2008	Oct 2008
Melrose / Channing	27	135	136	134	129	126	117	131	123	137	129	138
Watt / Elkhorn	31A	127	119	128	100	118	101	128	104	127	107	115
La Cieniga / Melrose	34	124	124	124	121	116	107	120	116	124	116	127
Thomas / Elkhorn	39	133	134	136	94	87	118	N/A	N/A	N/A	N/A	N/A
Gilman / SMUD Station	44	141	140	138	131	134	125	138	132	142	130	140
Weddigen / Gothberg	52	140	143	142	137	143	122	140	131	143	52	140
Fairbain / Karl	56A	144	146	141	132	138	128	134	127	147	132	141
Thirty Second / Elkhorn	58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bainbridge / Holmes	59A	155	151	155	143	152	143	148	134	158	150	N/A
Galbraith / Antelope Woods	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McClellan Park	MC10	113	114	117	110	115	109	113	103	116	110	115
Capehart	MC-C1	139	137	134	111	116	110	130	118	140	125	129
Capehart	MC-C2	117	115	116	131	134	118	132	105	113	108	114
Capehart	MC-C3	N/A	122	118	106	110	104	104	108	110	112	112
Evergreen	N1	107	104	108	101	106	98	105	96	103	98	96
Engle	N3	109	139	138	103	134	126	107	98	136	139	132
Hillsdale	N5	177	181	167	163	188	180	182	173	168	190	168
Palm	N6	N/A	N/A	124	144	122	112	117	112	124	116	122
Rosebud	N7	122	118	123	113	119	111	140	133	123	119	121
Field	N8	N/A	N/A	134	122	130	120	118	120	132	125	133
Cameron	N9	N/A	N/A	N/A	120	127	118	116	117	126	122	126
Walnut	N10	150	N/A	N/A	155	149	151	146	139	155	144	149
St. John	N12	143	172	144	N/A	N/A	N/A	N/A	N/A	N/A	136	139
Orange Grove	N14	113	111	114	108	113	106	112	105	112	108	112
Cabana	N15	153	150	N/A	137	144	138	139	133	150	140	147
Oakdale	N17	129	125	129	122	127	120	126	118	125	121	126
Cypress	N20	153	152	154	145	152	143	148	142	150	148	146
River College	N22	134	132	134	125	132	122	129	122	133	127	131
Freeway	N23	139	133	137	128	135	125	131	124	135	128	133
Don Julio	N24	174	164	198	161	163	151	162	154	173	160	180
Sutter	N25	164	161	164	168	163	160	198	158	172	155	165
Monument	N26	N/A	336	N/A	330	444	342	395	340	350	190	199
Jamestown	N27	142	137	142	134	140	133	141	137	144	140	140
Merrill	N29	144	139	142	133	139	132	136	132	143	135	136
Parkoaks	N30	142	137	138	133	136	133	152	116	137	126	136
Barrett Meadows	N31	159	155	157	145	155	147	150	153	165	150	152
Poker	N32A	176	174	177	169	176	170	175	170	184	170	177
Poker	N32B	177	174	180	172	176	171	175	170	184	172	178
Poker	N32C	178	174	179	169	175	170	175	170	184	173	218
Walerga	N33	N/A	162	172	163	170	159	165	158	175	164	172
Cottage	N34	162	160	163	156	162	153	158	142	164	158	164
North Antelope	N35	173	173	175	167	171	162	166	162	174	167	171
Average Standing Water Level		144	148	144	143	147	137	147	137	149	132	143

Sacramento Suburban Water District - South Service Area

Well Name	Well #	Oct 2003	Apr 2004	Oct 2004	Apr 2005	Oct 2005	Apr 2006	Oct 2006	Apr 2007	Oct 2007	Apr 2008	Oct 2008
El Prado / Park Estates	2A	92	89	92	84	91	77	81	N/A	82	89	86
Kubel / Armstrong	3A	106	100	107	102	107	90	94	94	74	101	104
Bell / Marconi	4B	75	81	69	95	110	98	88	133	139	94	84
Bell / El Camino	5	99	95	98	98	97	82	86	87	N/A	96	93
Rubicon / Seely	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ravenwood / Eastern	9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hernando / Santa Anita	12	80	79	84	83	85	70	74	77	72	83	83
Calderwood / Marconi	13	112	108	112	106	110	93	100	98	108	111	108
Marconi South / Fulton	14	129	129	134	102	109	90	96	98	108	124	111
Riding Club / Ladino	18	100	101	104	99	102	N/A	103	103	102	97	100
Balmoral / Yorktown	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Watt / Arden	20A	106	92	110	105	114	102	106	108	112	102	104
West / Becerra	22	141	136	137	138	136	133	140	135	138	N/A	N/A
Marconi North / Fulton	23	132	156	141	132	140	116	124	123	134	135	133
Beccerra / Woodcrest	24	121	117	127	115	116	110	119	110	114	117	116
Thor / Mercury	25	131	126	134	116	132	109	120	115	129	106	108
Greenwood / Marconi	26	N/A	N/A	N/A	121	125	N/A	N/A	N/A	N/A	N/A	N/A
Red Robin / Darwin	28	113	109	113	106	111	95	98	98	108	108	106
Rockbridge / Keith	30	75	71	74	70	72	68	61	60	72	N/A	73
Eden / Root	32A	143	145	128	117	126	115	118	133	N/A	123	126
Auburn / Norris	33A	113	105	113	102	110	97	111	96	102	97	105
Ulysses / Mercury	35	135	140	134	135	131	131	141	133	137	133	134
Morse / Cottage Park	37	82	80	83	79	84	68	74	72	82	78	78
Watt / Auburn	38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	129	62	N/A
Auburn Yard	40	N/A	118	122	119	122	100	106	106	116	109	106
Auburn Yard	40A	142	148	103	106	112	103	115	110	121	100	152
Albatros / Iris	41	103	103	106	106	110	100	100	98	N/A	90	N/A
Beccerra / Marconi	42	118	135	119	115	120	110	118	112	117	126	N/A
Edison / Truax	43	97	100	100	95	101	83	98	89	97	94	91
Jamestown / Middleberry	45	74	71	74	72	73	57	62	61	72	67	64
Jonas / Sierra Mills	46	76	71	75	72	74	58	62	62	54	70	73
Copenhagen / Arden	47	109	110	126	145	126	117	122	N/A	124	114	123
Columbia / Fair Oaks	50	85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	84	83	84
Sudbury / Elsdon	51	N/A	N/A	N/A	N/A	N/A	N/A	130	124	52	N/A	N/A
Stewart / Lynndale	55A	102	103	107	113	102	115	N/A	113	100	95	106
Whitney / Concetta	60	119	122	118	127	130	N/A	126	N/A	125	123	121
Merrily / Annadale	65	141	136	132	67	133	121	130	127	N/A	N/A	N/A
Eastern / Woodside Church	66	130	132	128	131	129	127	136	129	136	144	135
Northrop / Dormajo	68	46	43	80	54	58	45	44	42	73	51	58
Hillsdale / Cooper	69	75	53	57	71	74	58	66	56	105	69	72
Sierra / Blacmer	70	52	50	52	52	56	52	40	44	71	49	47
Rodney T. Franz	71	82	79	88	73	76	62	103	64	78	74	71
River Walk / North	72	N/A	N/A	76	67	86	64	72	67	75	87	74
River Walk / East	73	122	115	76	66	82	61	71	60	69	70	68
River Walk South	74	82	88	76	70	79	62	103	64	78	68	77
Enterprise / Northrop	75	59	58	60	58	68	51	60	55	55	65	58
Fulton / Fair Oaks	76	57	54	54	54	57	51	44	45	52	55	52
Larch / Northrop	77	81	57	85	81	83	76	72	75	74	53	79
Average Standing Water Level		101	100	100	95	101	88	95	92	97	93	

**SSWD North Service Area
Average Biennial
Static Well Water Level**



**SSWD South Service Area
Average Biennial
Static Well Water Level**

