

PETITION FOR CHANGE INVOLVING WATER TRANSFERS

ATTACHMENT A

Description of Proposed Action and Alternatives

RECLAMATION

Managing Water in the West

Description of Proposed Action and Alternatives

WARREN ACT CONTRACT FOR STORAGE AND CONVEYANCE OF NON-CVP WATER FROM FORESTHILL PUBLIC UTILITY DISTRICT TO SANTA CLARA VALLEY WATER DISTRICT IN 2015



U.S. Department of the Interior

**Bureau of Reclamation
Mid-Pacific Region**

February 2015

Mission Statements

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitment to island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Table of Contents

Section 1	Introduction	1
1.1	Background	1
1.1.1	Project Background	1
1.1.2	Santa Clara Valley Water District	1
1.1.3	Foresthill Public Utility District	2
1.2	Purpose and Need	2
Section 2	Proposed Action and Alternatives	4
2.1	No Action Alternative	4
2.2	Proposed Action	4
2.2.1	Project Operations	6
Section 5	References	8

List of Acronyms

AF	acre-feet
Banks	Harvey O. Banks Pumping Plant
cfs	cubic feet per second
CVP	Central Valley Project
D-1641	State Water Resources Control Board Decision 1641
DWR	Department of Water Resources
FPUD	Foresthill Public Utility District
Reclamation	U.S. Bureau of Reclamation
SCVWD	Santa Clara Valley Water District
SFPUC	San Francisco Public Utility Commission
SWP	State Water Project
SWRCB	State Water Resources Control Board
WA	Warren Act

Section 1 Introduction

1.1 Background

1.1.1 Project Background

Dry conditions and operational constraints limited Central Valley Project (CVP) and State Water Project (SWP) deliveries to Santa Clara Valley Water District (SCVWD) this past year (see Figure 1). In 2014, SCVWD received 5 percent of its SWP supply and 50 percent of its CVP supply. In 2013, SCVWD received 35 percent of its SWP supply and 70 percent of its CVP supply.

Given very low State-wide reservoir storage levels entering into the current 2014-2015 water year, SWP and CVP contractors like SCVWD are experiencing another year of reduced water allocations. To meet demand from existing development in the SCVWD service area, water transfers have become an important component in SCVWD's water supply for distribution to 1.8 million residents (SCVWD 2015) living and working in Silicon Valley and elsewhere within SCVWD's countywide service area. Transfers from willing sellers are pursued each year to supplement reduced SWP and CVP contract deliveries when the price is reasonable.

In response to the low statewide water allocations and to move water to an area of high need, Foresthill Public Utility District (FPUD) is proposing a temporary transfer of 2,000 acre-feet (AF) of its 2014 water supplies currently stored in its Sugar Pine Reservoir on North Shirttail Canyon Creek to SCVWD for use within the SCVWD service area. To facilitate the transfer, the United States Bureau of Reclamation (Reclamation) proposes to execute a Warren Act (WA) contract authorizing a total of 2,000 AF of FPUD water to be stored and conveyed through federal facilities.

The WA (43 U.S.C. §523) of 1911 provides authorization to the Secretary of the Interior to enter into WA contracts with water purveyors to carry non-CVP water (i.e., water not developed as part of the CVP) through federal facilities. These contracts provide for the impounding, storage, and conveyance of non-CVP water for domestic, municipal, fish and wildlife, industrial, and other beneficial uses using any CVP facilities identified in the law, including Shasta Reservoir, Folsom Reservoir, Jones Pumping Plant, the Delta-Mendota Canal, San Luis Reservoir, O'Neill Forebay, and the San Luis Canal.

1.1.2 Santa Clara Valley Water District

The SCVWD formed in 1929 and serves Santa Clara County, California. The population of Santa Clara County as of January 1, 2014 was 1,868,558. Water used by the SCVWD comes from multiple sources; approximately 40 percent is conveyed through the Delta by the SWP and the CVP, 15 percent is conveyed from the Hetch Hetchy system by San Francisco Public Utility Commission (SFPUC), and 30 percent from local supplies, including local surface and groundwater. The SCVWD's service area lies in both the SWP and CVP place of use (POU)

(see Figure 1). Currently, the SCVWD has secured an additional 4,000 acre feet (AF) of outside water transfer supplies for 2015 (Kao, personal communication 2015).

1.1.3 Foresthill Public Utility District

FPUD serves approximately 13,000 acres consisting of the unincorporated community of Foresthill in Placer County, California. FPUD's main water source is the Sugar Pine Reservoir, which has an existing storage capacity of 6,922 AF. Currently, Sugar Pine Reservoir has a surplus of water stored and not scheduled for use by FPUD. Sugar Pine Reservoir began to spill on February 10th, 2015 and is at full storage capacity. The water proposed for transfer is currently held in storage and would not be released in the absence of this transfer. Reclamation has agreed that the release of this water from storage would be non-Project water that otherwise would not be available to SCVWD. FPUD is currently proposing to transfer 2,000 AF of water to SCVWD in order to fund the planning, environmental review, and construction of facility improvements within FPUD.

1.2 Purpose and Need

Due to statewide water shortages, SCVWD does not have sufficient water to meet its current demands from existing development within its service area and faces deficits in its 2015 water supply. To reduce that deficit, SCVWD has entered into a water transfer agreement to acquire 2,000 AF of supplemental water from FPUD; this Proposed Action would allow use of CVP facilities to store and convey the 2,000 AF of non-CVP water supply to SCVWD. This transfer would assist in offsetting the water supply deficit facing SCVWD this year.



- EXISTING**
- Treated Water Facility
 - Raw Water Facility
 - ▲ Recharge Facility
 - Water Treatment Plant
 - Pumping Plant
 - Hydroelectric Facility
 - Recycled Water Facility
 - Treated Water Reservoir
- PROPOSED**
- Treated Water Facility
 - Raw Water Facility
 - △ Recharge Facility

Section 2 Proposed Action and Alternatives

2.1 No Action Alternative

Under the No Action Alternative, Reclamation would not enter into a one-year WA contract with SCVWD. Therefore, SCVWD would not receive 2,000 AF of FPUD transfer water. As a result, there would be no change to instream flow releases in North Shirttail Canyon Creek, North Fork American River, Lower American River, Sacramento River, and the Delta. Furthermore, there would be no addition to the coldwater pool in Folsom Reservoir.

2.2 Proposed Action

Reclamation proposes to enter into a one-year WA contract for storage and conveyance of up to 2,000 AF of non-CVP water through federal facilities from FPUD to SCVWD. The WA contract would authorize use of the federally owned Folsom Reservoir for storage and conveyance of the FPUD transfer water. The state-owned Banks pumping plant and South Bay Aqueduct would be utilized to convey the water to SCVWD (See Figure 2).

Under the proposed transfer, FPUD would release the 2,000 AF of transfer water from its Sugar Pine Reservoir into North Shirttail Canyon Creek which subsequently flows into the North Fork American River and to the CVP's Folsom Reservoir, from which the transfer water would either be stored and released or directly released for conveyance through the Lower American River and Sacramento River to the SWP's Harvey O. Banks Pumping Plant (referred to as Banks in this document), which would convey the FPUD water to the South Bay Aqueduct for delivery to SCVWD. The SCVWD would submit a transfer proposal to the California Department of Water Resources (DWR) State Water Project Analysis Office for a conveyance agreement allowing DWR to convey the transfer water through SWP facilities. See Figure 2 for the water transfer route and the state and federal facilities involved.

In order to refill the Sugar Pine Reservoir without injury to downstream vested water rights holders following the transfer, FPUD would enter into a refill agreement with Reclamation.

The Proposed Action would not involve construction or modification of any facilities. Only existing facilities would be utilized to divert, release, convey and redivert water. Land uses within the FPUD and SCVWD service areas would not change as a result of the transfer.

The Proposed Action can only occur after the State Water Resources Control Board (SWRCB) issues an Order to FPUD granting the requested temporary changes in place of use and points of rediversion. The temporary Order would allow the transfer water to be used in SCVWD within one year from the date of approval by the SWRCB. (Reclamation 2013, 2014)

2.2.1 Project Operations

The operations plan for transferring 2,000 AF of water from FPUD to SCVWD would be to release the 2,000 AF of currently stored water from Sugar Pine Reservoir into North Shirttail Canyon Creek, then to the North Fork American River, and subsequently into Folsom Reservoir by June 1, 2015, as shown in Figure 3. The transfer water would be released from Folsom Reservoir into Lake Natoma, which is impounded by Nimbus Dam and serves as the re-regulating afterbay for Folsom Reservoir. The transfer water would be released at a steady rate, during the period July through September 2015, from Nimbus Dam into the Lower American River, and subsequently would flow into the Sacramento River and the Delta. The transfer water would be conveyed from the Banks Pumping Plant in the southern portion of the Delta into the South Bay Aqueduct and delivered to SCVWD facilities.

As stated above, Sugar Pine Reservoir is at capacity and began to spill on February 10th, 2015. Because the water transfer operational considerations for this Proposed Action would be over a three year period.

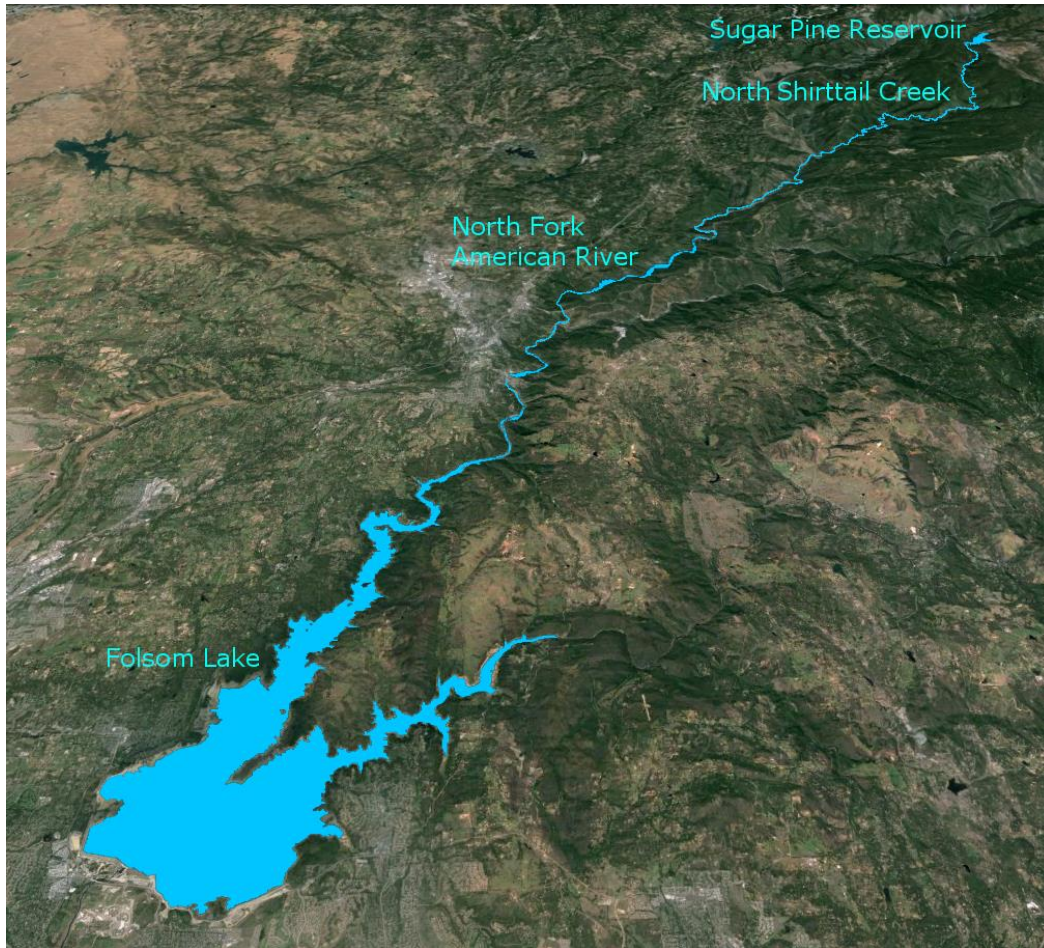


Figure 3. Delivery Route from Sugar Pine Reservoir to Folsom Reservoir

Section 5 References

Reclamation. 2013. Execution of Warren Act Contracts for Storage and Conveyance of Non-CVP Water from Placer County Water Agency to Westlands Water District. Environmental Assessment #EA-XX-XX. May 2013.

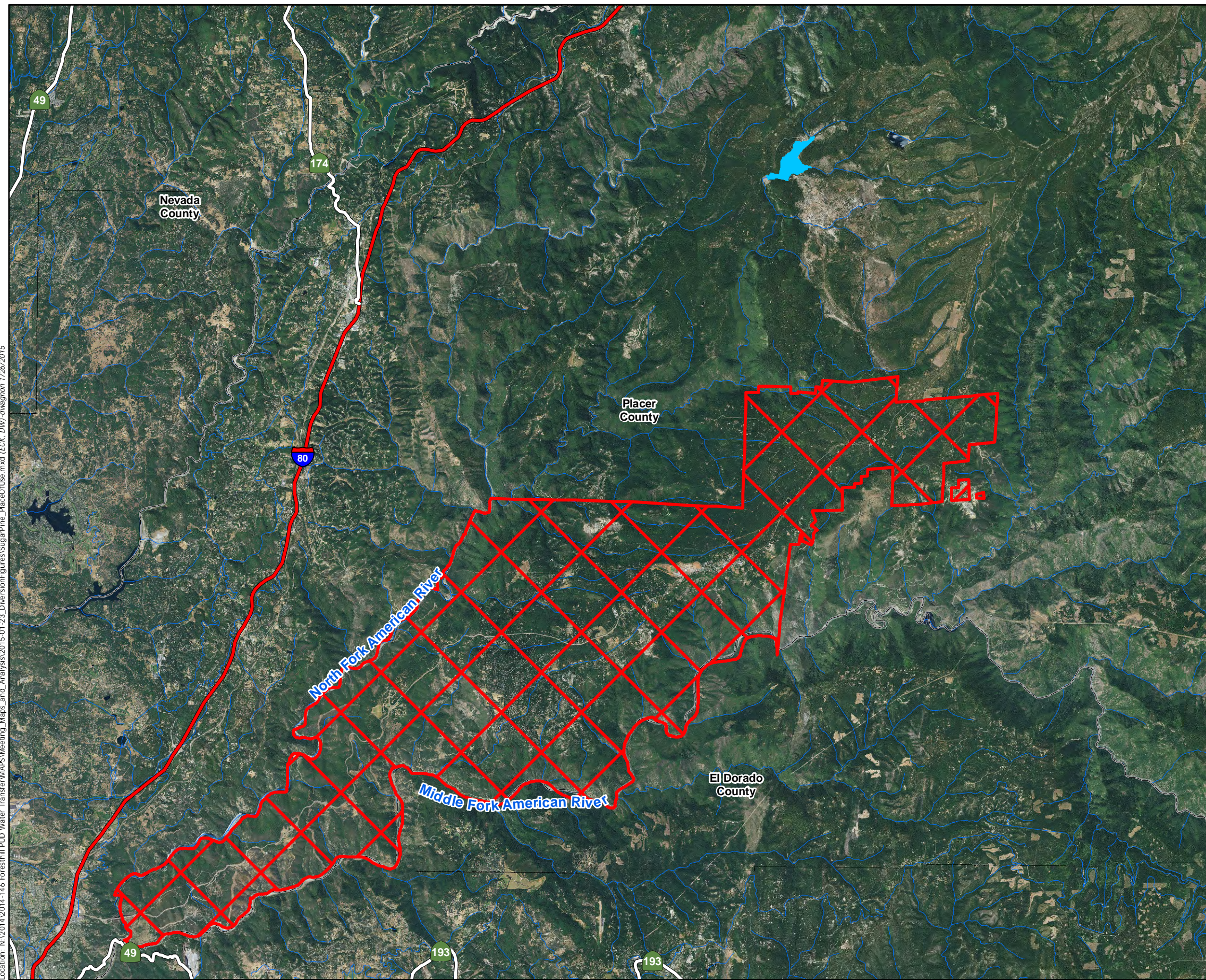
Reclamation. 2014. Warren Act Contract for Storage and Conveyance of Non-CVP Water from Placer County Water Agency to Westlands Water District in 2014. Environmental Assessment #EA-XX-XX. July 2014.

SCVWD. 2015 Santa Clara Valley Water District. <http://www.valleywater.org/about.aspx>. Accessed January 6, 2015.

PETITION FOR CHANGE INVOLVING WATER TRANSFERS



ATTACHMENT B

Foresthill Public Utility District Place of Use

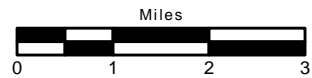


Sugar Pine Reservoir Place of Use

Map Features

-  Place of Use - P#15375 (36,152 ac.)
-  Sugar Pine Reservoir

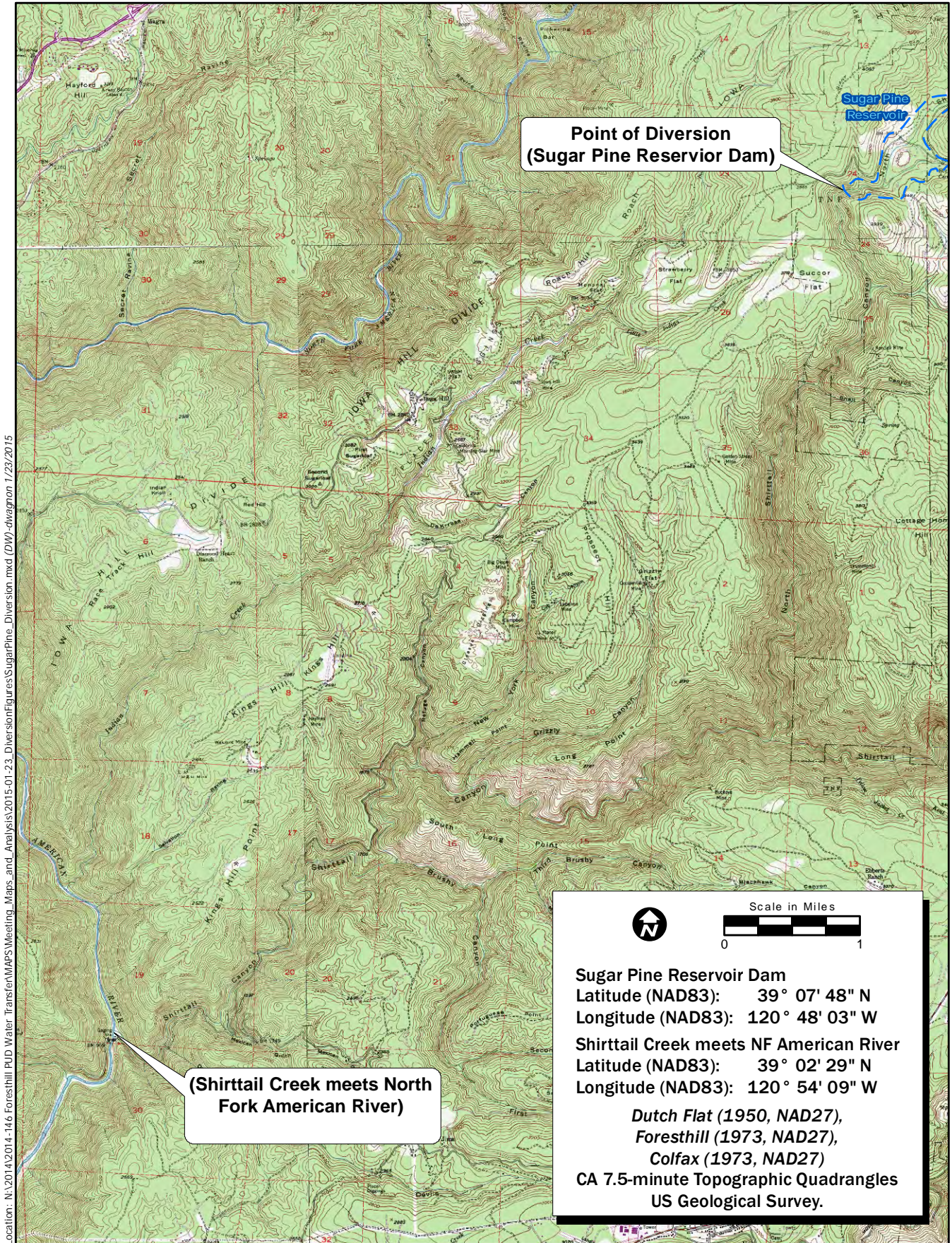
Location: N:\2014\2014-146 Foresthill PUD Water Transfer\MAPS\Working_Maps_and_Analysis\2015-01-23_DiversionFigures\SugarPine_PlaceOfUse.mxd (Eck, DW) - dwagmon 1/26/2015



PETITION FOR CHANGE INVOLVING WATER TRANSFERS

ATTACHMENT C

Point of Diversion



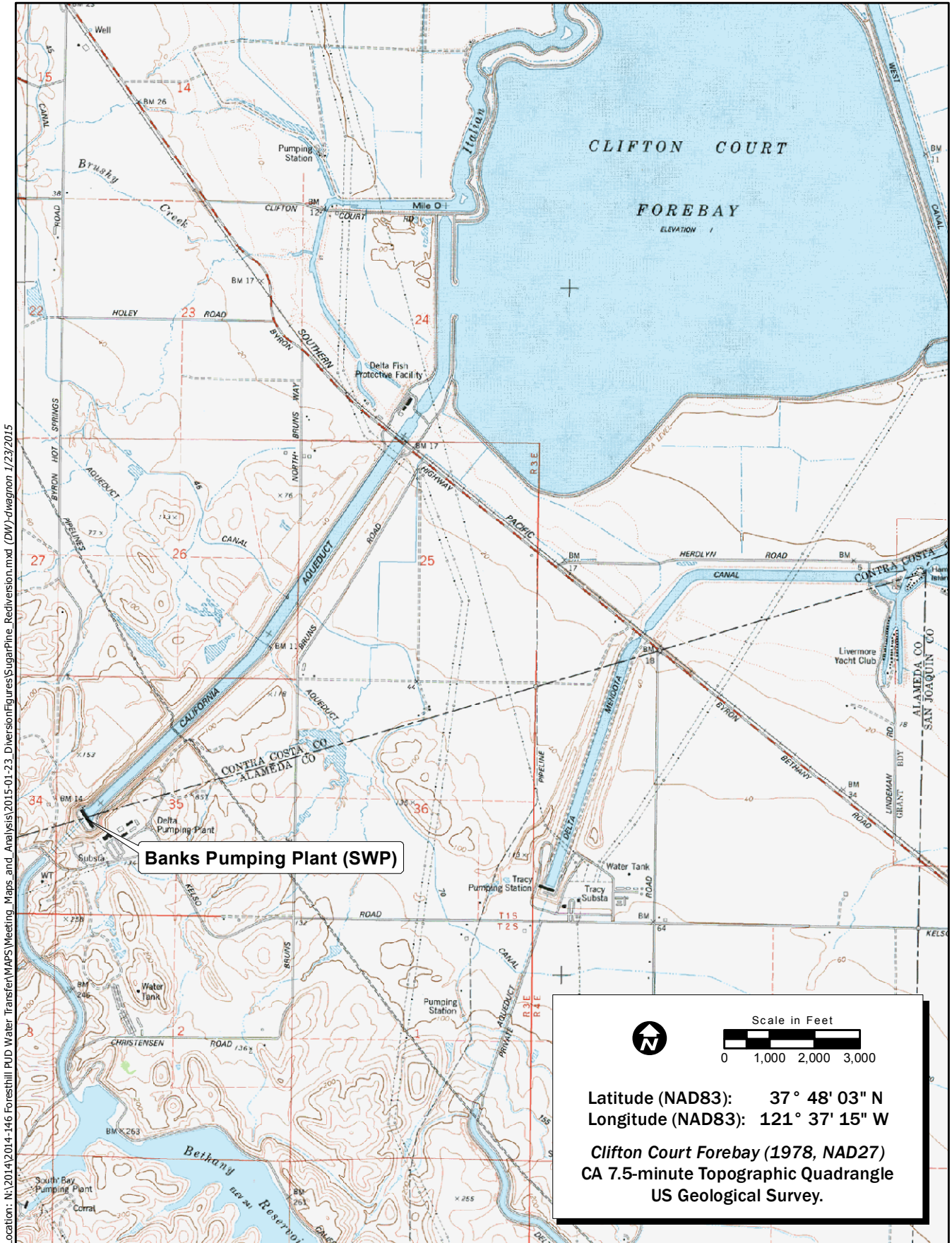
Location: N:\2011A\2014-146 Foresthill PUD Water Transfer\MAPS\Meeting_Maps_and_Analysis\2015-01-23_Diversion\Figures\SugarPine_Diversion.mxd (DW) - dwagon 1/23/2015

Map Date: 1/23/2015

PETITION FOR CHANGE INVOLVING WATER TRANSFERS

ATTACHMENT D

Point of Rediversion



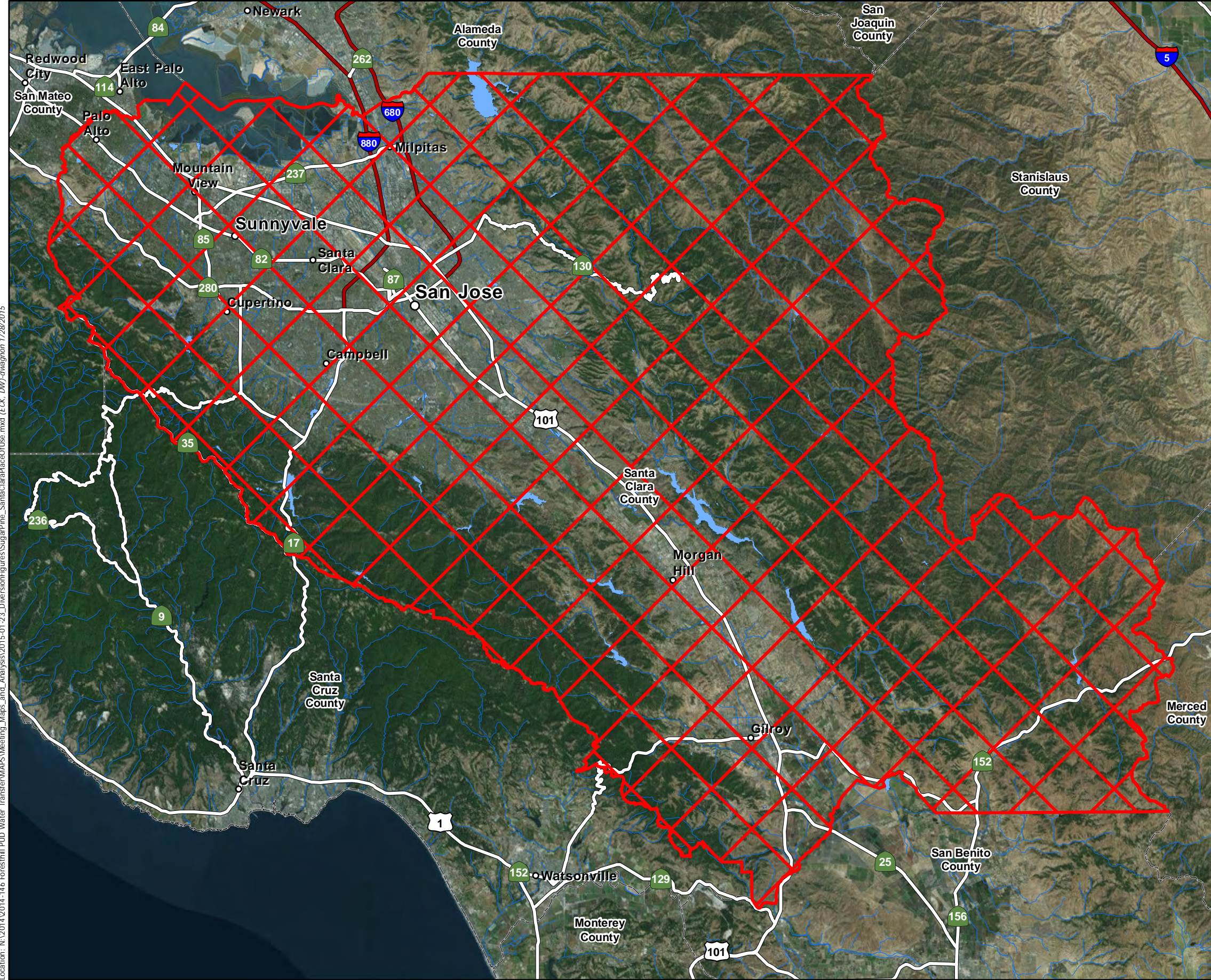
Location: N:\2014\146 Foresthill PUD Water Transfer\MAPS\Meeting_Maps_and_Analysis\2015-01-23_Diversion\Figures\Sugar\Pine_Rediversion.mxd (DW)-dwagon 1/23/2015

Map Date: 1/23/2015

PETITION FOR CHANGE INVOLVING WATER TRANSFERS


ATTACHMENT E

Santa Clara Valley Water District Place of Use



Santa Clara Valley Water District Place of Use

Map Features

 Place of Use - SCVWD (77,595 ac.)

Location: N:\2014\2014-146 Foresthill PUD Water Transfer\MAPS\Meeting_Maps_and_Analysis\2015-01-23_DiversionFigures\SugarPine_SantaClaraPlaceOfUse.mxd (ECK, DW)-dwagnon 1/28/2015

