

W.C.

50000 - n 2
19 01 28 10:13

AFB

**TYPE OR PRINT
IN BLACK INK**
(For instructions, see
booklet: "How to File an
Application to
Appropriate Water in
California")



California Environmental Protection Agency

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000, Sacramento, CA 95812-2000
Tel: (916) 341-5300 Fax: (916) 341-5400
www.waterboards.ca.gov/waterrights

APPLICATION NO. A032958

APPLICATION TO APPROPRIATE WATER

1. APPLICANT/AGENT

	APPLICANT	ASSIGNED AGENT (if any)
Name		Matthew Clifford
	Peninsula Open Space Trust	Trout Unlimited
Mailing Address	222 High Street	4221 Hollis Street
City, State & Zip	Palo Alto, CA 94301	Emeryville, CA 94608
Telephone	(650) 854-7696	(520) 280-5392
Fax	(650) 854-7703	
E-mail		mclifford@tu.org

2. OWNERSHIP INFORMATION (Please check type of ownership.)

- Sole Owner
- Limited Partnership*
- Corporation
- Limited Liability Company (LLC)
- Business Trust
- Joint Venture
- General Partnership*
- Husband/Wife Co-Ownership
- Other Non-profit corporation

*Please identify the names, addresses and phone numbers of all partners.

3. PROJECT DESCRIPTION (Provide a detailed description of your project, including, but not limited to, type of construction activity, area to be graded or excavated, and how the water will be used.) Add additional pages if needed and check box below and label as an attachment.

This Application is submitted in connection with the Blue House Farm Storage and Forbearance Project, one of a series of voluntary projects to enhance streamflows for the benefit of coho salmon and steelhead, carried out through a partnership between Trout Unlimited (TU) and the San Mateo County Resource Conservation District (SMCRCD). With this application, the Applicant seeks to appropriate 19 acre feet of water to be diverted to storage annually between December 15 and March 31. Water will be stored in a new 30.5 AF offstream storage reservoir to be constructed within the footprint of an existing licensed 14 AF pond on the property. The stored water will be used to allow forbearance of existing diversions during the dry season months of August, September, and October. This project involves no expansion of the current irrigated acreage, and significantly reduces current water use via upgrades to the efficiency of the existing irrigation system. More detail is provided in Attachment 1.

For continuation, see Attachment No. 1

4. PURPOSE OF USE, DIVERSION/STORAGE AMOUNT AND SEASON

a. PURPOSE OF USE (irrigation, domestic, etc.)	DIRECT DIVERSION				STORAGE		
	AMOUNT		SEASON OF DIVERSION		AMOUNT	SEASON OF COLLECTION	
	Rate (cfs or gpd)*	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)
Irrigation					19.5	12/15	3/31
Stockwatering							
Fire Protection							
Total afa			Total afa		19.5		

See Attachment No. ____ * If rate is less than 0.025 cubic feet per second (cfs), use gallons per day (gpd).

- b. Total combined amount taken by direct diversion and storage during any one year will be **30.5 acre-feet**.
- c. Reservoir storage is: onstream offstream underground (If underground storage, attach Underground Storage Form.)
- d. County in which diversion is located: San Mateo County in which water will be used: San Mateo

5. SOURCES AND POINTS OF DIVERSION/REDIVERSION

- a. Sources and Points of Diversion (POD)/Points of Rediversion (PORD):
 - POD / PORD # San Gregorio Creek tributary to Pacific Ocean thence _____
 - POD / PORD # _____ tributary to _____
 - POD / PORD # _____ thence _____ tributary to _____
 - POD / PORD # _____ thence _____ tributary to _____

If needed, attach additional pages, check box below and label attachment

See Attachment No. ____

b. State Planar and Public Land Survey Coordinate Description:

POD/PORD #	CALIFORNIA COORDINATES (NAD 83)	ZONE	POINT IS WITHIN (40-acre subdivision)	SECTION	TOWNSHIP	RANGE	BASE AND MERIDIAN
10180	N 1,947,639 E 6,015,369	3	NE ¼ of NE ¼	15	7S	5W	Mt. Diablo
			¼ of ¼				
			¼ of ¼				
			¼ of ¼				

If needed, attach additional pages, check box below and label attachment

See Attachment No. ____

- c. Name of the post office most often used by those living near the proposed point(s) of diversion: San Gregorio Address: 7615 Stage Rd., San Gregorio, CA 94074

AB
10/10/18

6. WATER AVAILABILITY

- a. Have you attached a water availability analysis for this project? YES NO
 If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation: If needed, attach additional pages, check box below and label attachment.

See Attachment No. 2

- b. Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board (State Water Board) during your proposed season of diversion?
 YES NO
- c. In an average year, does the stream dry up at any point downstream of your project? YES NO
 If YES, during which months? Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
- d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.) If needed, attach additional pages, check box below and label attachment
 Riparian and pre-1914 water rights

See Attachment No. 2

7. PLACE OF USE

- a. The place of use identified below is for irrigation and stockwatering use.

USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Acres	Presently cultivated?
SW 1/4 of SE 1/4	10P	7S	5W	Mt. Diablo	2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SE 1/4 of SE 1/4	10P	7S	5W	Mt. Diablo	2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
NE 1/4 of NW 1/4	15P	7S	5W	Mt. Diablo	3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
NW 1/4 of NE 1/4	15P	7S	5W	Mt. Diablo	32.5	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
NE 1/4 of NE 1/4	15P	7S	5W	Mt. Diablo	4	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SE 1/4 of NW 1/4	15P	7S	5W	Mt. Diablo	3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
SW 1/4 of NE 1/4	15P	7S	5W	Mt. Diablo	18	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
1/4 of 1/4						<input type="checkbox"/> YES <input type="checkbox"/> NO
Total Acres:					64.5	

*Please indicate if section is projected with a "(P)" following the section number.

- See Attachment No. ____ Please provide the Assessor's Parcel Number(s) for the place of use:
 APN 081-250-020

8. PROJECT SCHEDULE

Project is: proposed, partially complete or complete (Year completed - _____).

Extent of completion: As of 8/22/18, grading of reservoir is approximately 2/3 complete

Estimated amount of time in years it will take for construction to be completed: 1

Estimated amount of time in years it will take for water to be put to full beneficial use: 1

9. JUSTIFICATION OF AMOUNTS REQUESTED

a. IRRIGATION: Maximum area to be irrigated in any one 64.5 acres.

CROP	ACRES	METHOD OF IRRIGATION (sprinklers, flooding, etc.)	WATER USE (Acre-foot/Yr.)	SEASON OF WATER USE	
				Beginning date (month & day)	Ending date (month & day)
Berries, vegetables	64.5	Drip, sprinkler	75	4/1	11/1

See Attachment No. _____

b. DOMESTIC: Number of residences to be served: _____ Separately owned?
 YES NO Number of people to be served: _____ Estimated daily use per person is:
 _____ gallons per day Area of domestic lawns and gardens: _____ square feet
 Incidental domestic uses:

(dust control area, number and kind of domestic animals, etc.)

a. STOCKWATERING: Kind of stock: Cattle Maximum number: 50
 Describe type of operation: Pasture (grazing on cultivated fields)
(feedlot, dairy, range, etc.)

d. RECREATIONAL: Type of recreation: Fishing Swimming Boating Other _____

e. MUNICIPAL:

POPULATION List for 5-year periods until use is completed		MAXIMUM MONTH		ANNUAL USE		
Period	Population	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita)	Acre-foot (per capita)	Total (acre-feet)

See Attachment No. _____

Month of maximum use during year: _____
 Month of minimum use during year: _____

f. HEAT CONTROL: Area to be heat controlled: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 Heat protection season will begin _____ and end _____
(month and day) (month and day)

g. FROST PROTECTION: Area to be frost protected: _____ net acres
 Type of crops protected: _____
 Rate at which water is applied to use: _____ gpm per acre
 The frost protection season will begin _____ and end _____
(month & day) (month & day)

h. INDUSTRIAL: Type of industry: _____

Basis for determination of amount of water needed: _____

- i. MINING: Name of the claim: _____ Patented Unpatented
 Nature of the mine: _____ Mineral(s) to be mined: _____
 Type of milling or processing: _____
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B. & M.
- j. POWER: Total head to be utilized: _____ feet
 Maximum flow through the penstock: _____ cfs Maximum theoretical horsepower capable of
 being generated by the works (cfs x fall ÷ 8.8): _____
 Electrical capacity (hp x 0.746 x efficiency): _____ kilowatts at: _____% efficiency
 After use, the water will be discharged into _____ (watercourse)
 in _____ 1/4 of _____ 1/4 of Section _____, T _____, R _____, _____ B&M. FERC No.: _____
- k. FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: List specific species and
 habitat type that will be preserved or enhanced: _____
- l. OTHER: Describe use: Fire protection
 Basis for determination of amount of water needed: _____

10. DIVERSION AND DISTRIBUTION METHOD

- a. Diversion will be by gravity by means of: _____
 (dam, pipe in unobstructed channel, pipe through dam; siphon, weir, gate, etc.)
- b. Diversion will be by pumping from: Screened pipe in unobstructed San Gregorio Creek channel
 (sump, offset well, channel, reservoir, etc)
 Pump discharge rate: 360,000 cfs or gpd Horsepower: 10 HP
 Pump Efficiency: 75%
- c. Conduit from diversion point to first lateral or to offstream storage reservoir:

CONDUIT (pipe or channel)	MATERIAL (type of pipe or channel lining; indicate if pipe is buried or not)	CROSS-SECTION (pipe diameter, or ditch depth and top and bottom width) (inches or feet)	LENGTH (feet)	TOTAL LIFT OR FALL		CAPACITY (cfs, gpd or gpm)
				feet	+ or -	
Pipe	PVC	6"	500	50	5	70-220

See Attachment No. _____

- d. Storage reservoirs: (For underground storage, complete and attach underground storage form)

RESERVOIR NAME OR NUMBER	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (feet)	Construction material	Length (feet)	Freeboard: dam height above spillway crest (feet)	Surface area when full (acres)	Capacity (acre-feet)	Maximum water depth (feet)
BHF Pond	N/A; off-stream reservoir				2.58	30.5	18'

See Attachment No. 5

e. Outlet pipe: Complete for storage reservoirs having a capacity of 10 acre-feet or more.

RESERVOIR NAME OR NUMBER	OUTLET PIPE				
	Diameter in inches	Length in feet	Fall: Vertical distance between entrance and exit of outlet pipe in feet	Head: Vertical distance from spillway to entrance of outlet pipe in feet	Dead Storage: Storage below entrance of outlet pipe in acre-feet
BHF Pond	N/A; reservoir design does not include an outlet pipe				

See Attachment No. 5

e. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to off-stream storage will be 0.5 cfs. Diversion to offstream storage will be made by:
 Pumping Gravity

11. CONSERVATION AND MONITORING

- a. What methods will you use to conserve water? Explain.
Irrigation efficiency upgrades were installed in 2017 in cooperation with the San Mateo RCD, NRCS, Blue House Farm and Trout Unlimited, and based on an irrigation evaluation by Power Services, Inc. With the proposed irrigation efficiency upgrades, not including reductions in leaky pipes, total water demand for a year will reduce from 113 AF to approximately 75 AF.
- b. How will you monitor your diversion to be sure you are within the limits of your water right and you are not wasting water? Weir Meter Periodic sampling Other (describe)

12. RIGHT OF ACCESS

- a. Does the applicant own all the land where the water will be diverted, transported and used?
 YES NO
 If NO, I do do not have a recorded easement or written authorization allowing me access.
- b. List the names and mailing addresses of all affected landowners and state what steps are being taken to obtain access:

- See Attachment No. _____

13. EXISTING WATER RIGHTS AND RELATED FILINGS

- a. Do you claim an existing right for the use of all or part of the water sought by this application?
 YES NO
 If YES, please specify: Riparian Pre-1914 Registration Permit License
 Percolating groundwater Adjudicated Other (specify) _____
- b. For each existing right claimed, state the source, year of first use, purpose, season and location of the point of diversion (to within quarter-quarter section). Include number of registration, permit, license, or statement of water diversion and use, if applicable.
The water sought via this Application will reduce summer diversions under S01220 (adjudicated). Licensed right A026126 will be used in conjunction with this new right to fill the new reservoir. Detail on purpose/ season/ POD location, and year of first use is provided in Attachments 1 & 3.
 See Attachment No. 1 & 3

c. List any related applications, registrations, permits, or licenses located in the proposed place of use or that utilize the same point(s) of diversion.

S01220 (riparian and pre-1914 claims), A026126

See Attachment No. 1

□□□□

14. OTHER SOURCES OF WATER

Are you presently using, or do you intend to use, purchased water or water supplied by contract in connection with this project? Yes No If yes, please explain: _____

15. MAP REQUIREMENTS

The Division cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the quarter/quarter, section, township, range, and meridian of (1) the proposed points of diversion and (2) the place of use. A copy of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from sporting goods stores or through the Internet at http://topomaps.usgs.gov. A certified engineering map is required when (1) appropriating more than three cubic feet per second by direct diversion, (2) constructing a dam which will be under the jurisdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of ten acres or (4) appropriating more than 1,000 acre-feet per annum by underground storage. See the instruction booklet for more information.

See Attachment No. 3

ENVIRONMENTAL INFORMATION

Note: Before a water right permit may be issued for your project, the State Water Board must consider the information contained in an environmental document prepared in compliance with the California Environmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet been prepared for your project, a determination must be made of who is responsible for its preparation. If the State Water Board is determined to be responsible for preparing the CEQA document, the applicant will be required to pay all costs associated with the environmental evaluation and preparation of the required documents. Please answer the following questions to the best of your ability and submit with this application any studies that have been conducted regarding the environmental evaluation of your project.

16. COUNTY PERMITS

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

Person contacted: Angela Chavez, Planner III Date of contact: Multiple
Department: Planning Telephone: (650) 599-7217
County Zoning Designation: PAD/CD

Are any county permits required for your project? YES NO If YES, check appropriate box below:

- Grading permit Use permit Watercourse Obstruction permit Change of zoning
- General plan change Other (explain):

Grading permit exemption applies via San Mateo County Resource Conservation District

b. Have you obtained any of the required permits described above? YES NO

If YES, provide a complete copy of each permit obtained.

See Attachment No. _____

17. STATE/FEDERAL PERMITS AND REQUIREMENTS

- a. Check any additional state or federal permits required for your project:
 Federal Energy Regulatory Commission U.S. Forest Service U.S. Bureau of Land Management U.S. Corps of Engineers U.S. Natural Res. Conservation Service Calif. Dept. of Fish and Game State Lands Commission Calif. Dept. of Water Resources (Div. of Safety of Dams) Calif. Coastal Commission State Reclamation Board Other (specify) NOAA consistency determination obtained to satisfy Coastal Development Permit requirement

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

AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.
CDFW	LSAA	David Hines	6/1/17	(707) 944-5528

See Attachment No. _____

- c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed, bank, or riparian habitat of any stream or lake? YES NO
 If YES, explain:

See Attachment No. _____

- b. Have you contacted the California Department of Fish and Game concerning your project?
 YES NO If YES, name, telephone number and date of contact:
David Hines (707) 944-5528 6/1/17

18. ENVIRONMENTAL DOCUMENT

- a. Has any California public agency prepared an environmental document for your project?
 YES NO
- 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. Public agency:
San Mateo Resource Conservation District
- c. If NO, check the appropriate box and explain below, if necessary:
 The applicant is a California public agency and will be preparing the environmental document.*
 I expect that the State Water Board will be preparing the environmental document.**
 I expect that a California public agency other than the State Water Board will be preparing the environmental document.* Public agency: _____
 See Attachment No. 6

* Note: When completed, submit a copy of the final environmental document (including notice of determination) or notice of exemption to the State Water Board, Division of Water Rights and proof of payment of the State Clearinghouse filing fee. Processing of your application cannot be completed until these documents are submitted.

** Note: CEQA requires that the State Water Board, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the State Water Board, Division of Water Rights.

19. WASTE/WASTEWATER

- 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? YES NO

If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control Board for the following information (See instruction booklet for address and telephone no.):

See Attachment No. ____

- b. Will a waste discharge permit be required for your project? YES NO
 Person contacted: _____ Date of contact: _____

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

See Attachment No. ____

20. ARCHEOLOGY

- a. Have any archeological reports been prepared on this project? YES NO
- b. Will you be preparing an archeological report to satisfy another public agency? YES NO
- c. Do you know of any archeological or historic sites located within the general project area?
 YES NO If YES, explain:

See attached archeological report.

See Attachment No. 7

21. ENVIRONMENTAL SETTING

Attach **two complete sets of color photographs**, clearly dated and labeled, showing the vegetation that exists at the following three locations:

- Along the stream channel immediately downstream from the proposed point(s) of diversion.
- Along the stream channel immediately upstream from the proposed point(s) of diversion.
- At the place(s) where the water is to be used.

See Attachment No. 4

SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the Streamflow Protection Standards review fee [Pub. Resources Code § 10005(a)], payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. If the application fees are not received, your application will not be accepted and will be returned to you. Please check the fee schedule for any fee changes prior to submitting the application.

DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

Signature of Applicant

Title or Relationship

Date

Signature of Co-Applicant (if any)

Title or Relationship

Date

Applications that are not completely filled out and/or do not have the appropriate fees will not be accepted. In the event that the Division has to return the application because it is incomplete, a portion of the application submittal fee will be charged for the initial review.

"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- Answer each question completely.
- Number, label and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet.
- Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation.
- Include two complete sets of color photographs of the project site.
- Enclose a check for the required fee, payable to the Division of Water Rights.
- Enclose an \$850 check for the Streamflow Protection Standards review fee, payable to the Department of Fish and Game.
- Sign and date the application.

Send the original and one copy of the entire application to:

**State Water Resources Control Board
Division of Water Rights
P.O. Box 2000
Sacramento, CA 95812-2000**

Blue House Farm Water Right Application

Attachment 1 – Project Description

Overview of Project

This Application is submitted in connection with the Blue House Farm Storage and Forbearance Project, one of a series of interrelated voluntary projects to enhance streamflows in coastal streams in San Mateo County for the purpose of enhancing streamflows for the benefit of coho salmon and steelhead, carried out through a partnership between Trout Unlimited (TU) and the San Mateo Resource Conservation District (SMRCD), with grant funding from the State Coastal Conservancy and the Integrated Regional Water Management Program.

The Applicant currently diverts water from San Gregorio Creek between April 1 and November 1 annually for irrigation under adjudicated pre-1914 and riparian rights. With this application, the Applicant seeks to appropriate 19.5 acre feet of water to be diverted to storage annually between December 15 and March 31. Water will be stored in a new 30.5 AF offstream storage reservoir to be constructed within the footprint of an existing 14 AF licensed pond on the property. The stored water will be used to allow forbearance of existing diversions during the dry season months of August, September, and October. This project involves no expansion of the current irrigated acreage, and significantly reduces current water use via upgrades to the efficiency of the existing irrigation system.

Elements of the Project include the following:

- Constructing a new 30.5-acre-foot off-channel storage pond within the enlarged footprint of the existing 14 acre-foot pond
- Filing this Application for a new appropriative water right authorizing diversion of 30.5 AFA to storage between Dec. 15 and March 31
- Entering a 20-year forbearance agreement with SMRCD and TU, agreeing to forbear irrigation diversion between August 1 and October 31 annually
- Replacing the existing diversion pump with a variable-rate electric pump capable of diverting at rates from 70 to 220 gallons per minute
- Installing a new variable speed drive (VFD) pump at the new the reservoir to improve efficiency.
- Upgrading the irrigation system with new *wind fighter* sprinklers to replace the older, less efficient *rain bird* sprinkler head types.

The proposed modifications to existing water diversion and management will eliminate direct diversion from San Gregorio Creek during the period of the irrigation season when stream flows are typically at their lowest (August, September, and October), providing significant benefit to summer rearing habitat for salmonids. The proposed diversion that will occur between December 15 and March 31 is anticipated to have a minimal impact on instream resources, based on the attached Water Supply Report.

Existing Water Rights

Riparian and pre-1914 rights

The property has adjudicated pre-1914 and riparian rights under Decree No. 355792 issued by the Superior Court of San Mateo County (Jan. 29, 1993). That decree provides an allotment of 240,600 gallons per day from POD #225 for irrigation use between April 1 and November 1 annually.

These rights were reported in Initial Statement of Diversion and Use S01220, filed in 1967, which lists the year of initial use as 1914. Supplemental Statements are on file through 2016.

Post-1914 rights

The existing pond was licensed in 1981 under A026126, which authorizes diversion of up to 14 acre-feet per year between December 1 and April 30 at a rate of .74 cfs for irrigation, recreation, and fire protection use and a priority date of November 8, 1979. Of the 14 AF face value, 11 AF is for initial diversion to storage, and 3 AF is for “replenishment of water withdrawn for beneficial use,” and total withdrawals from the reservoir are capped at 12 AF per year.

In 1981 a former owner of the property, Nicola Muzzi, was issued an appropriative water right permit (018342) under application A026125 for a 49-acre-foot pond that was never constructed. That permit was revoked in 2005.

Proposed Face Value, Season of Diversion, Rate of Diversion, and Bypass Flows

With this Application, the Applicant requests a new appropriative water right authorizing diversion of 19.5 AF to storage. Applicant intends to use this right, together with the existing 11 AF initial storage right under A02126, to fill the new 30.5 AF storage pond.

The applicant proposes the following terms for the new appropriative right sought via this Application:

Season of diversion: Dec. 15 – March 31

Rate of diversion/ bypass:

Streamflow*	Max. rate of diversion
> 10 cfs	.5 cfs (220 gpm)
3 cfs – 10 cfs	.15 cfs (70 gpm)
< 3 cfs	0 (no diversion)

* As measured at USGS gauge 11162500

The above terms are calculated such that the rate of diversion will remain below approximately 5% of streamflow as measured in real time, a level which is considered to be de minimis. In addition, these terms will allow the pond to be filled even in relatively dry years.

Rationale for Proposed Terms

This project is designed to improve in-stream conditions for salmon and steelhead by reducing the applicant’s existing diversions of water in the dry season when streamflows are lowest, and replacing

those diversions with water diverted and stored during the rainy season when streamflows are higher. There are two primary reasons for concluding that that winter diversion is preferable for fisheries:

- (1) Loss of rearing habitat due to low streamflow in the late summer and early fall is the primary limiting factor for salmon and steelhead populations. (Stillwater Sciences 2014)
- (2) As a percentage of flow, cumulative diversions for human use have a much greater effect on the natural hydrograph in the summer and early fall than in the winter and spring. (See Cumulative Diversion Analysis, Spreadsheet #2, filed with this application)

In order to secure the summer/fall streamflow improvements and resulting fisheries benefits from the project, it is necessary to develop water right terms – season of diversion, rate of diversion, and minimum bypass flows – that will allow the applicant to reliably fill the storage pond in both wet and dry years. The applicant’s proposed terms are discussed below.

Proposed Season of Diversion

The proposed season of diversion is the standard December 15 – March 31 season recommended in the *2002 Draft Guidelines for Maintaining Instream Flows to Protect Fisheries Resources Downstream of Water Diversions in Mid-California Coastal Streams* issued by CDFW and NMFS (the “Draft Guidelines”). Although the proposed project is south of the geographic area covered by the Draft Guidelines, the climate is similar and based on conversations with CDFW and NMFS staff, we believe they provide a sound basis for protecting fisheries resources in the project area.

Proposed Bypass Flow and Rate of Diversion

To protect anadromous fish and other public trust resources, we propose terms of bypass and rate of diversion that will ensure the proposed winter diversion does not exceed approximately 5 percent of the discharge past the proposed point of diversion. In order to meet this protective condition while simultaneously ensuring the landowner will be able to store sufficient water in the wet season to obtain the benefits of forbearing diversion during the dry season, we propose two separate rates of diversion – one that applies during periods of higher instream flow, and a second, lower rate of diversion that applies during times of lower instream flow. Specifically, these are:

High flow conditions (> 10 ft³/s): max rate of diversion = 220 gpm. We propose a maximum rate of diversion of 220 gallons per minute, or 0.5 ft³/s, when flow is at least 10 ft³/s at the Point of Diversion in San Gregorio Creek.

During its period of record, the median number of days over the winter (December through March) that the bypass flow 10 ft³/s has been exceeded at the San Gregorio Creek USGS gauge is 84 days. However, in some dry years, this bypass flow is seldom exceeded and the landowner would not get the water needed under these terms (Figure 1). For example, in a year like 2014, the San Gregorio Creek flowed at a rate greater than 10 ft³/s on nine days.

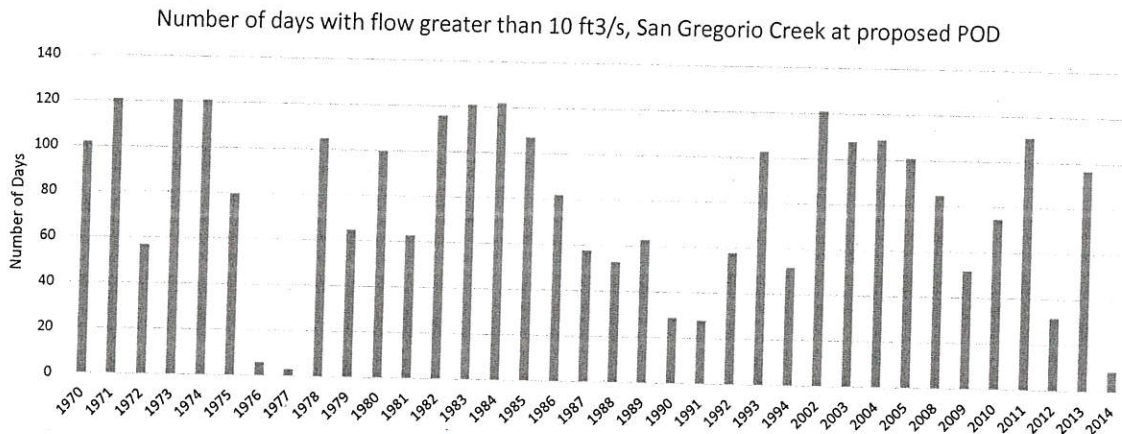


Figure 1. Number of days when streamflow at the proposed POD exceeds 10 ft³/s, based on historical streamflow records at the USGS San Gregorio Creek gauge, scaled to the POD.

Low flow conditions (between 3.0 ft³/s and 10 ft³/s): max rate of diversion = 70 gpm. We propose a maximum rate of diversion of 70 gallons per minute, or 0.15 ft³/s, when flow is between 3.0 and 10 ft³/s at the point of diversion in San Gregorio Creek.

Based on historical records, a diversion rate of 0.15 ft³/s would allow the landowner to divert water on an adequate number of days for all years other than 1977 and 2014, though those years would provide some days for diversion and meet some of the landowner’s summer water needs. Given the natural hydrologic variability in this region, these two bypass flows would provide an adequately resilient project for the landowner to meet water needs without having to divert from San Gregorio Creek in the summer dry season.

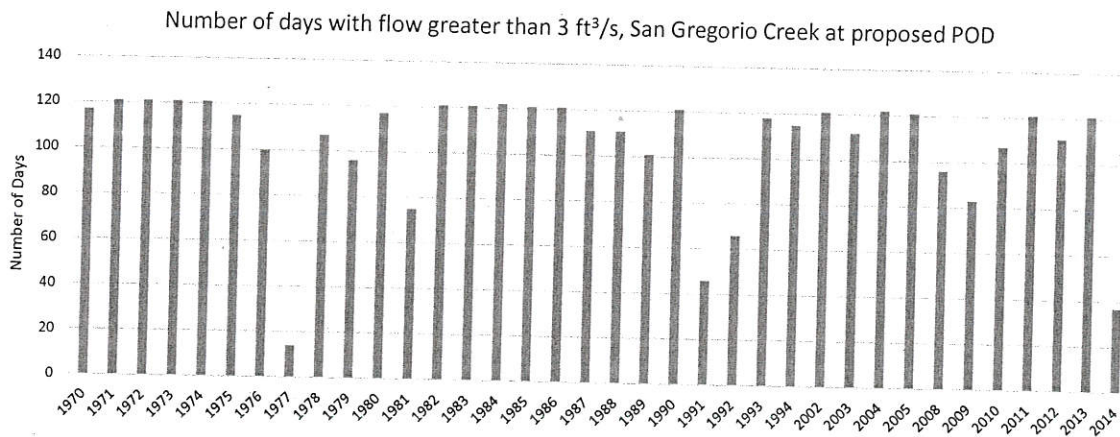


Figure 2. Number of days when streamflow at the proposed POD exceeds 3 ft³/s, based on historical streamflow records at the USGS San Gregorio Creek gauge, scaled to the POD.

Proposed Water Management Under This New Appropriative Right

Under the above proposed diversion terms, water management would be as follows. The pond would be filled during the wet season (between December 1 and April 30), using a combination of existing right A02126 and this new right. To ensure compliance with the terms of A02126, Applicant would ensure that a total of no more than 11 AF is diverted during the periods Dec. 1 – 14 and April 1 – 30, and that no more than 12 AF is withdrawn during these two periods in any calendar year.

Once the pond is filled and the irrigation season begins (approximately April 1), the storage pond would function as a regulating reservoir for irrigation. This approach would best utilize storage capacity during the wet season, and allow for smaller amounts of water to be diverted from San Gregorio Creek to meet daily irrigation needs in the spring and early summer. On August 1, diversion from the creek would cease for irrigation purposes, and irrigation water would be provided solely from the existing storage pond until the end of the forbearance period on October 31.

In addition to these measures, water management will also be subject to measures as ordered by the watermaster pursuant to the court decree governing the San Gregorio adjudication. These include “no pumping days” during low water years.

Table illustrating water management calendar

	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Fill Pond	████████████████████											
Use Pond for Regulation					████████████████████							
Rely on stored water									████████████████████			

To formalize this water management schedule, the Applicant will, prior to construction of the project enter a long-term forbearance agreement with the San Mateo Resource Conservation District and Trout Unlimited, which will be recorded and attached to the property deed. The Applicant will also enter a Lake/Streambed Alteration agreement with the state Department of Fish and Wildlife pursuant to Fish and Game Code §1600, covering water diversion.

Water Availability

Based on the seasonal unimpaired flow volume minus the total seasonal water demand of existing winter water rights, approximately 96.17% of San Gregorio Creek winter season water is currently unappropriated. The proposed new appropriative water right will increase the appropriation by 0.11%, thus increasing the cumulative level of impairment for all winter water rights from 3.83% to 3.94%, and leaving 96.06% of the unimpaired flow available instream. For more detail, see the attached Water Supply Report.

Attachment 2 -- Water Supply Report

Revised Water Supply Report
Prepared by Trout Unlimited
April 28, 2017

Water Supply Report for Blue House Farm Appropriative Water Right Application for Water from San Gregorio Creek – A03XXX

For the period December 15 to March 31

1. Introduction

This Water Supply Report is in support of an application for an appropriative water right for diversion to storage in San Gregorio Creek, near San Gregorio, San Mateo County, CA. San Gregorio Creek is a Class I stream having historically supported steelhead and coho salmon, and is identified as critical habitat for the recovery of salmonids in the Central California Coast ESU. The applicant, Peninsula Open Space Trust, requests a total water right volume of 19.5 acre-ft, diverted at a rate ranging from 0.16 to 0.5 ft³/s (diversion rate will vary with flow magnitude and water will be stored in a reservoir with capacity of 19.5 acre-ft), between December 15 and March 31. The water will be used for irrigation on the property from which water will be diverted. With this appropriative water right, the applicant will forbear summertime diversion from San Gregorio Creek pursuant to a written agreement with the San Mateo County Resource Conservation District and Trout Unlimited.

This report provides the results of an analysis to determine if there is sufficient water available to supply the proposed project. Although this project is not within the Policy for Maintaining Instream Flows in Northern California Coastal Streams, this analysis uses the methodology presented in that Policy. Accordingly, the extent of this analysis is the watershed above the most downstream Point of Diversion (POD) along the flow path from the project POD to the confluence with the Pacific Ocean. The Points of Analysis (POA) are the PODs along the flow path.

2. Data Sources

2.1 Discharge records

We used the San Gregorio Creek USGS streamflow gauge (number 11162570), located approximately 0.5 miles downstream of the proposed point of diversion on San Gregorio Creek (operated for 37 years between 1970 and 2017), to create unimpaired flows as input for the calculations.

We used GIS tools to calculate the watershed area above the San Gregorio Creek USGS streamflow gauge, the proposed Point of Diversion (POD), and each senior water right in the San Gregorio Creek watershed. We also used GIS tools to calculate average annual precipitation upstream of the San Gregorio Creek gauge, the POD, and all Points of Analysis (POAs), based on the PRISM average annual precipitation dataset (which is based on PRISM estimates of precipitation over the period 1971-2000). These data are listed in Water Supply Tables below.

2.2 Water rights

The water right data used in this analyses comes from two sources. The first is the January 29, 1993 decree of the San Mateo County Superior Court in case 355792 ("the Decree"), which adjudicated all water right claims in the stream system at that time. The second source is the eWRIMS database maintained by the SWRCB. Both sources are necessary because the eWRIMS water rights database does

not include all water rights listed in the Decree and, conversely, the Decree does not include water rights filed more recently.

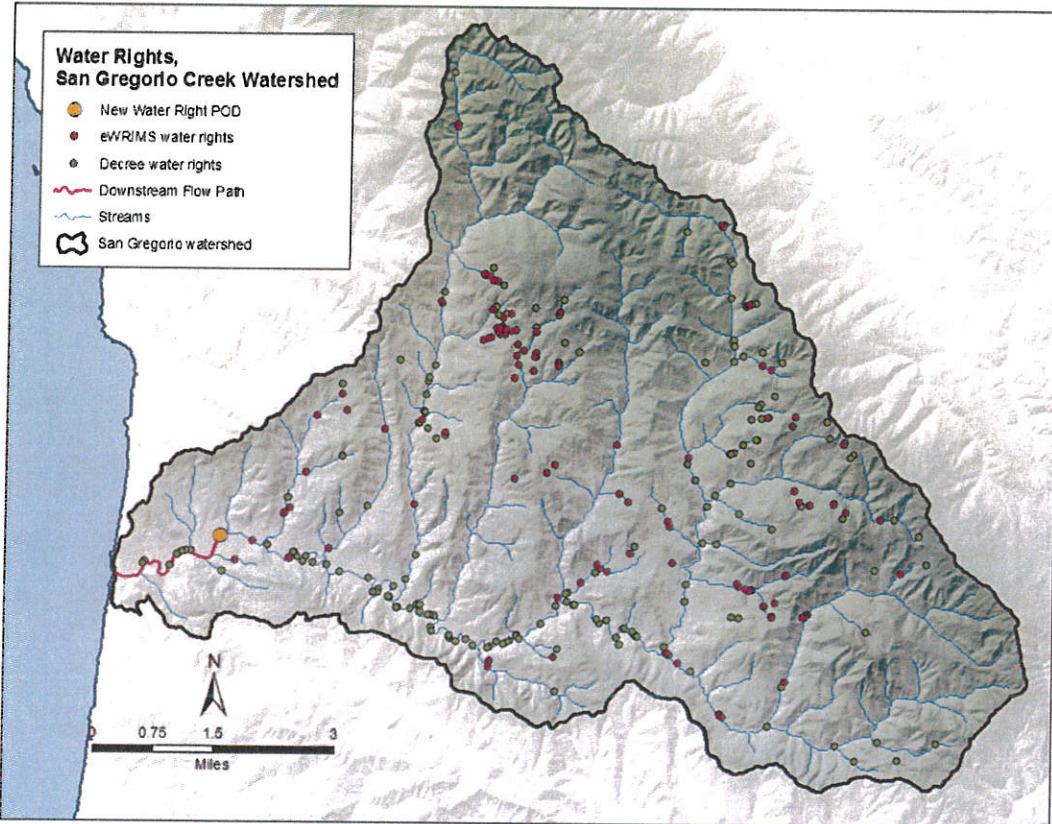


Figure 1. Senior water rights in the San Gregorio Creek watershed, and the downstream flow path from the new proposed water right.

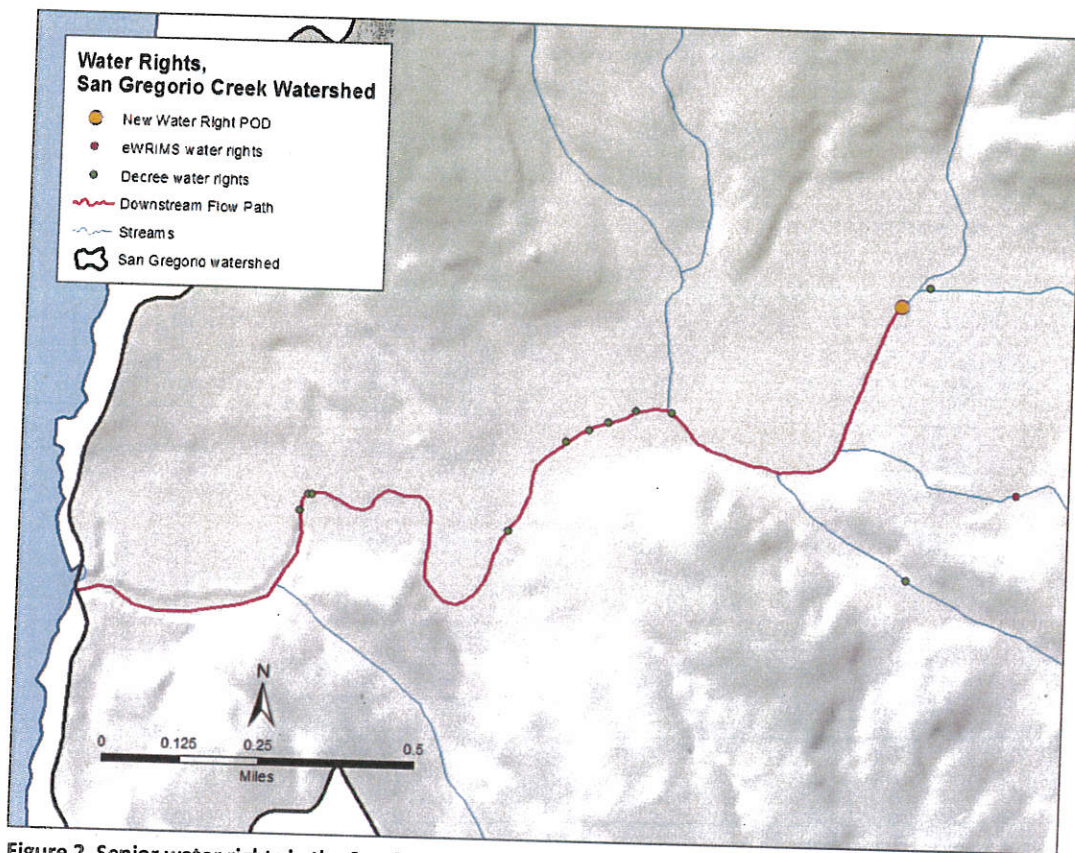


Figure 2. Senior water rights in the San Gregorio Creek watershed, focusing on the downstream flow path from the new proposed water right.

Following is a discussion of how we analyzed water right data from the two sources identified above.

2.2.1 Data from the 1993 Decree of the San Mateo County Superior Court in case 355792

For riparian/ pre-1914 claims adjudicated in the Decree, we used face values stated in schedules 3, 4, and 5. In addition, we calculated face values for appropriative water rights based on water right "amounts" listed in schedules 6 and 7.

We also calculated face values for potential diversion associated with Paragraph 21 of the Decree, which recognizes the right of irrigation claimants to divert water for incidental domestic and stockwatering use during the non-irrigation season (November 1 – April 1). Paragraph 21 sets forth a maximum rate of diversion of 0.01 cfs for these incidental use claims, but does not state a face value for them. For purposes of this Water Supply Report, we developed face values for these claims as follows:

- In the case of irrigation claimants who also have quantified daily allotments for both domestic and stockwatering use set forth in the Decree, we used these daily allotments to compute the face value of their irrigation and domestic rights for purposes of Table 1.
- In the case of irrigation claimants who do not have quantified allotments for both domestic and stockwatering use, we calculated a face value based on continuous diversion at .01 cfs. This amounts to 6,463 gallons per day, or 2.18 acre-feet over the

course of the proposed season of diversion. For these claimants, this value appears in red in Table 1.

The Decree lists both a diversion rate and a total daily allotment for each water right. For example: The Decree might allow a water right holder to have a 1 cfs diversion rate but only a 50 AF allotment through the irrigation season (rather than around 400 ac-ft, if they were to run the pump constantly). The information listed in Table 1, Table 2 and Table 3 reflects the direct diversion rates and daily allotments defined by the Decree.

2.2.2 Data obtained from the State Water Board's eWRIMS database.

We reviewed the eWRIMS water right data in June 2017 to update points of diversion filed with the SWRCB since the 1993 Decree. To create seasonal water right demand volume for each senior water right, we prorated the face amount of each senior water right to the period of analysis according to a ratio of the total number of days of diversion for the senior water right to the number of days of diversion during the proposed diversion season. For example, for the period of December 15 to March 31, a senior water right for 50 acre-ft with a year-round diversion season of January 1 to December 31 would be prorated to 50 acre-ft X (107 days from Dec 15 to Mar 31) / (365 days total) = 14.65 acre-ft. For the proposed POD and each POA (i.e., each senior water right along the downstream flow path from the proposed POD), impaired flow volume was calculated as the unimpaired flow volume during the period of analysis minus the sum of seasonal water right demand volume among all senior water rights upstream.

Table 1. List of senior water rights in the San Gregorio Creek watershed.

Note: Entries in red reflect potential off-season incidental use claims based on Paragraph 23 of the Decree.

Application ID	Type of water right	Begin diversion date	End diversion date	Use	Diversion rate, ft ³ /s	Face amount volume, acre-ft	Source	Explanation for strike outs
A005720	Appropriative	1/1	12/31	domestic and fire protection	0.0062	4.5	eWRIMS	NA
A005907	Appropriative	1/1	12/31	domestic	0.0108	3.9	eWRIMS	NA
A005907	Appropriative	1/1	12/31	domestic	0.0108	3.9	eWRIMS	NA
A006154A	Appropriative	1/1	12/31	irrigation, domestic and stockwatering	0.1263	86.9	eWRIMS	NA
A006154B	Appropriative	1/1	12/31	irrigation, domestic and stockwatering	0.0753	54.2	eWRIMS	NA
A006155	Appropriative	1/1	12/31	irrigation, domestic and stockwatering	0.05	12.2	eWRIMS	NA
A006155	Appropriative	1/1	12/31	irrigation, domestic and stockwatering	0.05	12.1	eWRIMS	NA
A006155	Appropriative	1/1	12/31	irrigation, domestic and stockwatering	0.05	12	eWRIMS	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

A006497	Appropriative	1/1	12/31	irrigation and domestic	0.007	5.087808	eWRIMS	NA
A006497	Appropriative	1/1	12/31	irrigation and domestic	0.0003	0.223314	eWRIMS	NA
A006498	Appropriative	1/1	12/31	recreational	0.08	57.9	eWRIMS	NA
A018161	Appropriative	3/1	6/1	domestic and fire protection	0.2674	20	eWRIMS	NA
A019016	Appropriative	1/1	12/31	domestic and stockwatering	0.0039	2.8	eWRIMS	NA
A020266	Appropriative	11/1	6/1	recreational, stockwatering and fire protection	0.0404	4.6	eWRIMS	NA
A021470	Appropriative	10/1	5/31	recreational, stockwatering and fire protection	0	13.6	eWRIMS	NA
A022782	Appropriative	10/1	6/1	domestic, fire protection and recreational	0	0	eWRIMS	NA
A022782	Appropriative	10/1	6/1	domestic, fire protection and recreational	0.069	15.35	eWRIMS	NA
A022782	Appropriative	10/1	6/1	domestic, fire protection and recreational	0.28	16.675	eWRIMS	NA
A022782	Appropriative	10/1	6/1	domestic, fire protection and recreational	0.2	16.675	eWRIMS	NA
A023729	Appropriative	1/1	12/31	domestic and fire protection	0.38	80	eWRIMS	NA
A023965	Appropriative	11/1	6/1	domestic, industrial, recreational and fire protection	0.18	6.3	eWRIMS	NA
A024121	Appropriative	11/1	6/1	domestic, stockwatering, recreational and irrigation	0	49	eWRIMS	NA
A024122	Appropriative	11/1	6/1	stockwatering and recreational	0	3	eWRIMS	NA
A024122	Appropriative	11/1	6/1	stockwatering and recreational	0	5	eWRIMS	NA
A024122	Appropriative	11/1	6/1	stockwatering and recreational	0	2	eWRIMS	NA
A024122	Appropriative	11/1	6/1	stockwatering and recreational	0	15	eWRIMS	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

A024123	Appropriative	11/1	6/1	stockwatering, recreational, irrigation and domestic	0	10	eWRIMS	NA
A024123	Appropriative	11/1	6/1	stockwatering, recreational, irrigation and domestic	0	10	eWRIMS	NA
A024123	Appropriative	11/1	6/1	stockwatering, recreational, irrigation and domestic	0	5	eWRIMS	NA
A024123	Appropriative	11/1	6/1	stockwatering, recreational, irrigation and domestic	0	5	eWRIMS	NA
A024123	Appropriative	11/1	6/1	stockwatering, recreational, irrigation and domestic	0	0	eWRIMS	NA
A024240	Appropriative	11/1	5/31	recreational, domestic and fire protection	0	11.5	eWRIMS	NA
A024240	Appropriative	11/1	5/31	recreational, domestic and fire protection	0	10.5	eWRIMS	NA
A024240	Appropriative	11/1	5/31	recreational, domestic and fire protection	0	8	eWRIMS	NA
A024240	Appropriative	11/1	5/31	recreational, domestic and fire protection	0	7.5	eWRIMS	NA
A024240	Appropriative	11/1	5/31	recreational, domestic and fire protection	0	7.5	eWRIMS	NA
A024240	Appropriative	11/1	5/31	recreational, domestic and fire protection	0	7.5	eWRIMS	NA
A024240	Appropriative	11/1	5/31	recreational, domestic and fire protection	0	7.5	eWRIMS	NA
A025877	Appropriative	12/1	5/1	recreational, domestic and fire protection	1	5.3	eWRIMS	NA
A025980	Appropriative	11/1	5/31	Domestic and recreational	0.035	16.7	eWRIMS	NA
A026126	Appropriative	12/1	4/30	fire protection, recreational and irrigation	0.74	14	eWRIMS	NA
A026913	Appropriative	12/1	4/30	fire protection, recreational and irrigation	0.5	42	eWRIMS	NA
A026913	Appropriative	12/1	4/30	fire protection,	4	3	eWRIMS	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

				recreational and irrigation				
A027600	Appropriative	12/1	4/30	irrigation, recreational, fire protection and stockwatering	0	14	eWRIMS	NA
A027923	Appropriative	11/1	5/31	domestic	0.0101	10	eWRIMS	NA
A027923	Appropriative	11/1	5/31	domestic	0.0101	10	eWRIMS	NA
A027923	Appropriative	11/1	5/31	domestic	0.0101	10	eWRIMS	NA
A027923	Appropriative	11/1	5/31	domestic	0.0101	10	eWRIMS	NA
A027923	Appropriative	11/1	5/31	domestic	0.0101	0	eWRIMS	NA
A028154	Appropriative	1/1	12/31	domestic and stockwatering	0.0046	3.4	eWRIMS	NA
A028359	Appropriative	1/1	12/31	irrigation, stockwatering and domestic	0.0089	4.3	eWRIMS	NA
A028366	Appropriative	11/1	4/1	stockwatering, recreational, fish and wildlife preservation and enhancement and fire protection	0.0783	1.2	eWRIMS	NA
A028366	Appropriative	11/1	4/1	stockwatering, recreational, fish and wildlife preservation and enhancement and fire protection	0.0783	1.1	eWRIMS	NA
A028376	Appropriative	11/1	3/31	fire protection, recreational, irrigation and stockwatering	0	5	eWRIMS	NA
A028376	Appropriative	11/1	3/31	fire protection, recreational, irrigation and stockwatering	0	5	eWRIMS	NA
A028377A	Appropriative	1/1	12/31	domestic, stockwatering and fire protection	0.0019	1.4	eWRIMS	NA
A028377B	Appropriative	1/1	12/31	domestic, stockwatering and fire protection	0.0027	2	eWRIMS	NA
A028377C	Appropriative	1/1	12/31	domestic, stockwatering	0.0027	2	eWRIMS	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

				and fire protection				
A028378A	Appropriative	11/1	3/31	fire protection, recreational and stockwatering	0.7	0.1	eWRIMS	NA
A028378B	Appropriative	11/1	3/31	fire protection, recreational and stockwatering	0.7	0	eWRIMS	NA
A028378B	Appropriative	11/1	3/31	fire protection, recreational and stockwatering	0.7	0.4	eWRIMS	NA
A028378B	Appropriative	11/1	4/30	fire protection, recreational and stockwatering	0	5	eWRIMS	NA
A028384	Appropriative	1/1	12/31	domestic and stockwatering	0.0119	4.5	eWRIMS	NA
A028389	Appropriative	1/1	12/31	domestic and irrigation	0.0116	5.4	eWRIMS	NA
A028389	Appropriative	1/1	12/31	domestic and irrigation	0.0062	3.9	eWRIMS	NA
A028404	Appropriative	12/1	4/1	domestic, irrigation, recreational and stockwatering	0	0.2	eWRIMS	NA
A028404	Appropriative	12/1	4/30	domestic, irrigation, recreational and stockwatering	0.223	27	eWRIMS	NA
A028423	Appropriative	11/1	4/30	irrigation and stockwatering	0.0207	1	eWRIMS	NA
A028423	Appropriative	11/1	4/30	irrigation and stockwatering	0.0207	1.5	eWRIMS	NA
A028423	Appropriative	11/1	4/30	irrigation and stockwatering	0.0207	1.5	eWRIMS	NA
A028423	Appropriative	11/1	4/30	irrigation and stockwatering	0.0207	1	eWRIMS	NA
A028423	Appropriative	11/1	4/30	irrigation and stockwatering	0.0207	4.5	eWRIMS	NA
A028423	Appropriative	11/1	4/30	irrigation and stockwatering	0.0207	4.5	eWRIMS	NA
A028424	Appropriative	11/1	4/30	irrigation, stockwatering, recreational, fire protection and fish and wildlife preservation	0	20	eWRIMS	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

				and enhancement				
A028538	Appropriative	11/1	5/31	domestic and irrigation	0.04	16.6	eWRIMS	NA
A028714	Appropriative	12/1	4/30	irrigation, stockwatering, fire protection and fish and wildlife preservation and enhancement	0.2	12	eWRIMS	NA
A028730	Appropriative	10/1	5/31	stockwatering	0	1.5	eWRIMS	NA
A028730	Appropriative	10/1	5/31	stockwatering	0	1.5	eWRIMS	NA
A028730	Appropriative	10/1	5/31	stockwatering	0	1.5	eWRIMS	NA
A028730	Appropriative	10/1	5/31	stockwatering	0	1.5	eWRIMS	NA
A028796	Appropriative	10/1	5/31	stockwatering	0	2	eWRIMS	NA
A028796	Appropriative	10/1	5/31	stockwatering	0	2	eWRIMS	NA
A028808	Appropriative	11/1	3/31	fish and wildlife preservation and enhancement, stockwatering and fire protection	0	0.6	eWRIMS	NA
A029255	Appropriative	12/1	4/30	stockwater and irrigation	0	25	eWRIMS	NA
A029257	Appropriative	12/1	4/30	stockwater and irrigation	0	25	eWRIMS	NA
A029540	Appropriative	11/1	4/30	irrigation, heat control and frost protection	0.0186	5.6	eWRIMS	NA
A030757	Appropriative	11/1	4/30	irrigation, stockwatering, fire protection, recreational and fish and wildlife preservation and enhancement	0.0152	1.25	eWRIMS	NA
A030757	Appropriative	11/1	4/30	irrigation, stockwatering, fire protection, recreational and fish and wildlife preservation and enhancement	0.0152	1.25	eWRIMS	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

A030757	Appropriative	11/1	4/30	irrigation, stockwatering, fire protection, recreational and fish and wildlife preservation and enhancement	0.0152	1.25	eWRIMS	NA
A030757	Appropriative	11/1	4/30	irrigation, stockwatering, fire protection, recreational and fish and wildlife preservation and enhancement	0.0152	1.25	eWRIMS	NA
A030757	Appropriative	11/1	4/30	irrigation, stockwatering, fire protection, recreational and fish and wildlife preservation and enhancement	0.0152	1.25	eWRIMS	NA
A030757	Appropriative	11/1	4/30	irrigation, stockwatering, fire protection, recreational and fish and wildlife preservation and enhancement	0.0152	1.25	eWRIMS	NA
A030757	Appropriative	11/1	4/30	irrigation, stockwatering, fire protection, recreational and fish and wildlife preservation and enhancement	0.0152	1.25	eWRIMS	NA
A032701	Appropriative	12/15	3/31	Irrigation and domestic	0.5	14.1	eWRIMS	NA
C000104	Stockpond	11/1	4/30	stockwatering	0	1.3	eWRIMS	NA
C000104	Stockpond	11/1	4/30	stockwatering	0	1.4	eWRIMS	NA
C003209	Stockpond	11/1	4/30	stockwatering	0	5	eWRIMS	NA
C003210	Stockpond	11/1	4/30	stockwatering	0	2	eWRIMS	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

C003609	Stockpond	11/1	4/30	stockwatering	0	5	eWRIMS	NA
C003610	Stockpond	11/1	4/30	stockwatering	0	3.2	eWRIMS	NA
C003637	Stockpond	11/1	4/30	stockwatering	0	1.6	eWRIMS	NA
C003638	Stockpond	11/1	4/30	stockwatering	0	2.9	eWRIMS	NA
C003640	Stockpond	11/1	4/30	stockwatering	0	6	eWRIMS	NA
C003643	Stockpond	11/1	4/30	stockwatering	0	3	eWRIMS	NA
C003970	Stockpond	11/1	4/30	stockwatering	0	1.2	eWRIMS	NA
C005723	Stockpond	1/1	12/31	stockwatering	0	3	eWRIMS	NA
D030342	Domestic Registration	11/1	5/31	domestic	0	5.2	eWRIMS	NA
L031287	Livestock Registration	12/1	5/14	stockwatering	0	0.5	eWRIMS	NA
L031341	Livestock Registration	11/1	4/1	stockwatering	0	3	eWRIMS	NA
S002076	Statement of Div and Use	1/1	12/31	irrigation	0.0222	0.4	eWRIMS	NA
S002568	Statement of Div and Use	11/1	4/30	stockwater and irrigation	0	0	eWRIMS	NA
S002568	Statement of Div and Use	11/1	4/30	stockwater and irrigation	0	0	eWRIMS	NA
S013894	Statement of Div and Use	1/1	12/31	domestic	0.0016	1.12	eWRIMS	NA
S014406	Statement of Div and Use	4/1	11/1	domestic, irrigation and stockwatering	0.15	20	eWRIMS	NA
S014747	Statement of Div and Use	1/1	12/31	irrigation and stockwatering	0	0	eWRIMS	NA
S019751	Statement of Div and Use	6/1	9/30	domestic and fire protection	0.0657	2.3	eWRIMS	NA
#1	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#2	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	No longer listed in water master or judge's records
#4	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#5	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#5	Riparian	4/1	11/1	Irrigation	0.0014	0.84 0.625	1993 Decree	Revised based on new information (irrigation not relevant for this water right)
#5	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#6	Domestic Registration	1/1	12/31	domestic	0.01	2.24	1993 Decree	NA
#6	Riparian	4/1	11/1	Irrigation	0.01	1.63	1993 Decree	NA
#6	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#7	Domestic Registration	1/1	12/31	domestic	0.1	0.56	1993 Decree	NA
#8	Domestic Registration	1/1	12/31	domestic	0.0108	7.84	1993 Decree	NA
#9	Domestic Registration	1/1	12/31	domestic	0.01	7.84	1993 Decree	NA
#9	Domestic Registration	1/1	12/31	domestic	0.0108	0	1993 Decree	NA
#10	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#11	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#12	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#12A	Domestic Registration	1/1	12/31	domestic	0.0015	1.12	1993 Decree	NA
#12A	Riparian	4/1	11/1	Irrigation	0.1128	50	1993 Decree	Corrected based on updated information from water master or judge
#12A	Livestock Registration	11/1	3/31	stockwatering	0.0051	3.01	1993 Decree	NA
#13	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#15	Domestic Registration	1/1	12/31	domestic	0.01	5.8	1993 Decree	NA
#15	Riparian	4/1	11/1	Irrigation	0.0116	6.53	1993 Decree	NA
#15	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#17	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#17	Livestock Registration	1/1	12/31	stockwatering	0.0081	5.88	1993 Decree	NA
#18	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#18	Riparian	4/1	11/1	Irrigation	0.0058	3.15	1993 Decree	NA
#18	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#19	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#19	Livestock Registration	1/1	12/31	stockwatering	0.0022	1.57	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#20	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#22	Domestic Registration	1/1	12/31	domestic	0.01	0.19	1993 Decree	NA
#22	Livestock Registration	1/1	12/31	stockwatering	0.0009	0.64	1993 Decree	NA
#25	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#26	Livestock Registration	1/1	12/31	stockwatering	0.0004	0.84	1993 Decree	NA
#27	Livestock Registration	1/1	12/31	stockwatering	0.01	0.67	1993 Decree	NA
#28	Domestic Registration	11/1	3/31	domestic	0.01	3.01	1993 Decree	NA
#28	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#28	Riparian	4/1	11/1	Irrigation	0.0231	12.95	1993 Decree	NA
#28	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#29	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#29	Livestock Registration	1/1	12/31	stockwatering	0.0004	0.28	1993 Decree	NA
#30	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#30	Livestock Registration	1/1	12/31	stockwatering	0.0004	0.28	1993 Decree	NA
#30A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#31	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#31	Riparian	4/1	11/1	Irrigation	0.0072	4.03	1993 Decree	NA
#31	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#32	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#32	Riparian	4/1	11/1	Irrigation	0.0008	0.64	1993 Decree	NA
#32	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#33	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#33	Riparian	4/1	11/1	Irrigation	0.0009	3.09	1993 Decree	NA
#33	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#33A	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#34	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#36	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#36A	Domestic Registration	1/1	12/31	domestic	0.01	0.11	1993 Decree	NA
#37	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#41	Livestock Registration	1/1	12/31	stockwatering	0.0008	0.56	1993 Decree	NA
#41	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#44	Domestic Registration	1/1	12/31	domestic	0.01	0.37	1993 Decree	NA
#44	Domestic Registration	1/1	12/31	domestic	0.0005	0.37	1993 Decree	NA
#45	Domestic Registration	1/1	12/31	domestic	0.0005	0.56	1993 Decree	NA
#47	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#47	Riparian	4/1	11/1	Irrigation	0.0363	17.14	1993 Decree	NA
#48	Livestock Registration	1/1	12/31	stockwatering	0.01	1.9	1993 Decree	NA
#49	Domestic Registration	1/1	12/31	domestic	0.01	0.56 listed zero	1993 Decree	Now listed in records as zero
#52	Domestic Registration	1/1	12/31	domestic	0.01	8.4	1993 Decree	NA
#52	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#53	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#53	Riparian	4/1	11/1	Irrigation	0.0029	2.8	1993 Decree	NA
#55	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#55	Riparian	4/1	11/1	Irrigation	0.0028	1.58	1993 Decree	NA
#55	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#59	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	No longer listed in water master or judge's records
#60	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#60	Riparian	4/1	11/1	Irrigation	0.0014	0.7	1993 Decree	NA
#60	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#61	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#61	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#62	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#62	Riparian	4/1	11/1	Irrigation	0.0028	1.58	1993 Decree	NA
#62	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#63	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#63	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#64	Domestic Registration	1/1	12/31	domestic	0.01	0.2	1993 Decree	NA
#64	Riparian	4/1	11/1	Irrigation	0.0005	1.58	1993 Decree	NA
#64	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#65	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#65	Riparian	4/1	11/1	Irrigation	0.0028	1.58	1993 Decree	NA
#65	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#66	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#66	Riparian	4/1	11/1	Irrigation	0.0057	3.15	1993 Decree	NA
#66	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#67	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#67	Riparian	4/1	11/1	Irrigation	0.0057	3.15	1993 Decree	NA
#67	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#69	Domestic Registration	1/1	12/31	domestic	0.01	25.2	1993 Decree	NA
#71	Domestic Registration	1/1	12/31	domestic	0.01	25.2	1993 Decree	NA
#74	Domestic Registration	1/1	12/31	domestic	0.01	0.37	1993 Decree	NA
#74	Riparian	1/1	12/31	Industrial	0.0005	0.37	1993 Decree	NA
#74A	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#75	Domestic Registration	1/1	12/31	domestic	0.01	0.37	1993 Decree	NA
#75	Riparian	1/1	12/31	Industrial	0.0005	0.37	1993 Decree	NA
#75A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#75A	Riparian	4/1	11/1	Irrigation	0.0009	3.09	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#75A	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#75B	Domestic Registration	1/1	12/31	domestic	0.01	14.45 15.00	1993 Decree	Corrected based on updated information from water master or judge
#76	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#76	Riparian	4/1	11/1	Irrigation	0.0289	16.22	1993 Decree	NA
#76	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#78	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#78	Riparian	4/1	11/1	Irrigation	0.029	16.78	1993 Decree	NA
#79	Riparian	4/1	11/1	Irrigation	0.029	0	1993 Decree	NA
#79	Livestock Registration	1/1	12/31	stockwatering	0.01	0.045	1993 Decree	NA
#79	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#80	Domestic Registration	1/1	12/31	domestic	0.01	1.34	1993 Decree	NA
#81	Domestic Registration	11/1	3/31	domestic	0.01	3.01	1993 Decree	NA
#81	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#81	Riparian	4/1	11/1	Irrigation	0.0289	16.22	1993 Decree	NA
#81	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#83	Domestic Registration	1/1	12/31	domestic	0.01	0.18	1993 Decree	NA
#83	Riparian	1/1	12/31	Industrial	0.0003	0.74	1993 Decree	NA
#84	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#84	Riparian	4/1	11/1	Irrigation	0.0057	3.27	1993 Decree	NA
#84	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#87	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#88	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#88	Riparian	4/1	11/1	Irrigation	0.0005	0.23	1993 Decree	NA
#88	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#90	Domestic Registration	1/1	12/31	domestic	0.01	2.24	1993 Decree	NA
#90	Riparian	4/1	11/1	Irrigation	0.1532	7.2	1993 Decree	NA
#90	Livestock Registration	1/1	12/31	stockwatering	0.01	1.68	1993 Decree	NA
#92	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#93	Domestic Registration	1/1	12/31	domestic	0.01	17.8	1993 Decree	NA
#93	Riparian	4/1	11/1	Irrigation	0.0155	43.46	1993 Decree	NA
#93	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#96	Domestic Registration	1/1	12/31	domestic	0.01	50 32.18	1993 Decree	Corrected based on updated information from water master or judge
#96	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#97	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#98	Riparian	4/1	11/1	Irrigation	0.007	2.83	1993 Decree	NA
#98	Livestock Registration	1/1	12/31	stockwatering	0.01	0.9	1993 Decree	NA
#98A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#99	Domestic Registration	1/1	12/31	domestic	0.01	5.9	1993 Decree	NA
#99	Riparian	4/1	11/1	Irrigation	0.0139	7.76	1993 Decree	NA
#99	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#100	Domestic Registration	1/1	12/31	domestic	0.01	3.92	1993 Decree	NA
#100	Riparian	4/1	11/1	Irrigation	0.0028	1.58	1993 Decree	NA
#100A	Domestic Registration	1/1	12/31	domestic	0.01	0.11	1993 Decree	NA
#100A	Riparian	4/1	11/1	Irrigation	0.0116	6.59	1993 Decree	NA
#100A	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#101	Domestic Registration	1/1	12/31	domestic	0.01	0.73	1993 Decree	NA
#101	Riparian	4/1	11/1	Irrigation	0.0038	5.48	1993 Decree	NA
#101	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#102	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#102	Riparian	4/1	11/1	Irrigation	0.0002	8.17	1993 Decree	NA
#102	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#102A	Domestic Registration	1/1	12/31	domestic	0.01	0.66	1993 Decree	NA
#102A	Riparian	4/1	11/1	Irrigation	0.0015	0.88	1993 Decree	NA
#102A	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#104	Domestic Registration	1/1	12/31	domestic	0.01	0.89	1993 Decree	NA
#104	Riparian	4/1	11/1	Irrigation	0.01	0.38	1993 Decree	NA
#104	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#104A	Domestic Registration	1/1	12/31	domestic	0.01	0.61	1993 Decree	NA
#104A	Riparian	4/1	11/1	Irrigation	0.0014	0.88	1993 Decree	NA
#104A	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#105	Domestic Registration	1/1	12/31	domestic	0.01	3.47 4.40	1993 Decree	Corrected based on updated information from water master or judge
#106	Domestic Registration	1/1	12/31	domestic	0.01	0	1993 Decree	NA
#106	Livestock Registration	1/1	12/31	stockwatering	0.0015	1.12	1993 Decree	NA
#112	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#112	Riparian	4/1	11/1	Irrigation	0.0625	28.58	1993 Decree	NA
#112	Livestock Registration	1/1	12/31	stockwatering	0.0625	6.75 3.36	1993 Decree	Corrected based on updated information from water master or judge
#114	Domestic Registration	1/1	12/31	domestic	0.01	5.04	1993 Decree	NA
#114	Riparian	4/1	11/1	Irrigation	0.0104	2.82	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#114	Livestock Registration	1/1	12/31	stockwatering	0.0104	6.75 3.36	1993 Decree	Corrected based on updated information from water master or judge
#115	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#115	Livestock Registration	1/1	12/31	stockwatering	0.0023	1.68	1993 Decree	NA
#116	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#116	Riparian	4/1	11/1	Irrigation	0.0022	1.17	1993 Decree	NA
#116	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#117	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#118	Livestock Registration	1/1	12/31	stockwatering	0.0002	0.17	1993 Decree	NA
#119	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#119	Riparian	4/1	11/1	Irrigation	0.0173	9.68	1993 Decree	NA
#119	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#120	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#120	Riparian	4/1	11/1	Irrigation	0.0006	0.41	1993 Decree	NA
#120	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#121	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#123	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#123	Riparian	4/1	11/1	Irrigation	0.1219	59.85	1993 Decree	NA
#123	Livestock Registration	1/1	12/31	stockwatering	0.01	0.56	1993 Decree	NA
#125	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#125	Riparian	4/1	11/1	Irrigation	0.0087	29.23	1993 Decree	NA
#125	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#125A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#125A	Riparian	4/1	11/1	Irrigation	0.0543	25.73	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#125A	Livestock Registration	1/1	12/31	stockwatering	0.01	3.36 -1.68	1993 Decree	Corrected based on updated information from water master or judge
#126	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#127	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#128	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#128	Riparian	4/1	11/1	Irrigation	0.0221	10.85	1993 Decree	NA
#128	Livestock Registration	1/1	12/31	stockwatering	0.01	0.12	1993 Decree	NA
#128	Domestic Registration	11/1	4/1	domestic	0.01	3.01	1993 Decree	NA
#129	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#129	Riparian	4/1	11/1	Irrigation	0.0116	6.53	1993 Decree	NA
#129	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#130	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#131	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#131	Livestock Registration	1/1	12/31	stockwatering	0.0133	0.12	1993 Decree	NA
#132	Domestic Registration	1/1	12/31	domestic	0.0133	4.78	1993 Decree	NA
#132	Riparian	4/1	11/1	Irrigation	0.0133	0.78	1993 Decree	NA
#132	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#133	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#133	Riparian	4/1	11/1	Irrigation	0.058	28.58	1993 Decree	NA
#133	Livestock Registration	1/1	12/31	stockwatering	0.01	0.12	1993 Decree	NA
#133B	Domestic Registration	11/1	3/31	domestic	0.01	3.01	1993 Decree	NA
#133B	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#133b	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#133b	Riparian	4/1	11/1	Irrigation	0.1156	54.6	1993 Decree	NA
#134	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#134	Riparian	4/1	11/1	Irrigation	0.0692	38.85	1993 Decree	NA
#134	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#135	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#136	Livestock Registration	1/1	12/31	stockwatering	0.01	0.11	1993 Decree	NA
#137	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#137	Riparian	4/1	11/1	Irrigation	0.0231	12.95	1993 Decree	NA
#137	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#138	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#138	Riparian	4/1	11/1	Irrigation	0.0289	16.28	1993 Decree	NA
#138	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#138A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#138A	Riparian	4/1	11/1	Irrigation	0.0347	17.12	1993 Decree	NA
#138A	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#139	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#139	Riparian	4/1	11/1	Irrigation	0.0067	2.82	1993 Decree	NA
#139	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01 0.67	1993 Decree	Corrected based on updated information from water master or judge
#140	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#140	Livestock Registration	1/1	12/31	stockwatering	0.0003	0.22	1993 Decree	NA
#140A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#140A	Livestock Registration	1/1	12/31	stockwatering	0.0014	0.73	1993 Decree	NA
#141	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#141	Riparian	4/1	11/1	Irrigation	0.01	0.46	1993 Decree	NA
#141	Livestock Registration	1/1	12/31	stockwatering	0.01	0.23	1993 Decree	NA
#143	Domestic Registration	1/1	12/31	domestic	0.01	1.12 1.64	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#143	Riparian	4/1	11/1	Irrigation	0.0495	24.31	1993 Decree	NA
#143	Livestock Registration	1/1	12/31	stockwatering	0.01	0.23	1993 Decree	NA
#148A	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#148A	Riparian	1/1	12/31	Fire	0.0019	1.38	1993 Decree	NA
#148A	Riparian	4/1	11/1	Irrigation	0.01	22.85	1993 Decree	NA
#148A	Livestock Registration	1/1	12/31	stockwatering	0.01	1.01	1993 Decree	NA
#161	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#161	Riparian	4/1	11/1	Irrigation	0.058	28.52	1993 Decree	NA
#161	Livestock Registration	1/1	12/31	stockwatering	0.01	0.23	1993 Decree	NA
#162	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#162	Livestock Registration	1/1	12/31	stockwatering	0.0004	0.56	1993 Decree	NA
#163	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#163	Livestock Registration	1/1	12/31	stockwatering	0.0004	0.56	1993 Decree	NA
#164	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#164	Riparian	4/1	11/1	Irrigation	0.0057	3.27	1993 Decree	NA
#164	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#165	Domestic Registration	1/1	12/31	domestic	0.01	0.36	1993 Decree	NA
#165	Riparian	4/1	11/1	Irrigation	0.0173	58.45	1993 Decree	NA
#165	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#165A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#165A	Riparian	4/1	11/1	Irrigation	0.0019	1.05	1993 Decree	NA
#165A	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#166	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#166	Livestock Registration	1/1	12/31	stockwatering	0.0001	0.06	1993 Decree	NA
#166A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#166A	Riparian	4/1	11/1	Irrigation	0.0317	14.99	1993 Decree	NA
#166A	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#167	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#167	Livestock Registration	1/1	12/31	stockwatering	0.0002	0.11	1993 Decree	NA
#168	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#168	Riparian	4/1	11/1	Irrigation	0.0031	1.75	1993 Decree	NA
#168	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#169	Domestic Registration	1/1	12/31	domestic	0.01	2.24	1993 Decree	NA
#169	Riparian	4/1	11/1	Irrigation	0.4178	241.98	1993 Decree	NA
#169	Livestock Registration	1/1	12/31	stockwatering	0.01	3.36 1.12	1993 Decree	Revised based on new information (listed as the same claim as POD #182)
#169A	Domestic Registration	1/1	12/31	domestic	0.0015	0.56	1993 Decree	NA
#169A	Riparian	1/1	12/31	domestic	0.0015	0.56	1993 Decree	NA
#170	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#170_2	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#170_2	Riparian	1/1	12/31	domestic	0.0008	0	1993 Decree	NA
#170_3	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#170_3	Riparian	1/1	12/31	domestic	0.0008	0	1993 Decree	NA
#170_4	Domestic Registration	1/1	12/31	domestic	0.001	0.56	1993 Decree	NA
#170_4	Riparian	1/1	12/31	domestic	0.0008	0	1993 Decree	NA
#172	Domestic Registration	1/1	12/31	domestic	0.01	1.4	1993 Decree	PODs 172, 173 are listed as the same claim in the Decree, listed as 2.8 af/yr total (between two)
#173	Domestic Registration	1/1	12/31	domestic	0.01	1.4	1993 Decree	
#175	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#175	Riparian	4/1	11/1	Irrigation	0.289	68.31	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#175	Livestock Registration	1/1	12/31	stockwatering	0.0015	1.12	1993 Decree	NA
#176	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#176	Riparian	4/1	11/1	Irrigation	0.289	68.31	1993 Decree	NA
#176	Livestock Registration	1/1	12/31	stockwatering	0.0015	1.12	1993 Decree	NA
#177	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#177	Livestock Registration	1/1	12/31	stockwatering	0.0015	1.12	1993 Decree	NA
#180	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#182	Domestic Registration	1/1	12/31	domestic	0.0051	0.56 2.24	1993 Decree	Revised based on new information (combined under the same claim as POD 169, should be a total of 2.24 af/yr)
#182	Riparian	4/1	11/1	Irrigation	0.0347	16.33	1993 Decree	NA
#182	Livestock Registration	11/1	3/31	stockwatering	0.0051	3.01 1.12	1993 Decree	Revised based on new information (combined under the same claim as POD 169, should be a total of 2.24 af/yr)
#183	Livestock Registration	1/1	12/31	stockwatering	0.0015	3.36	1993 Decree	NA
#184	Domestic Registration	1/1	12/31	domestic	0.01	1.12 0	1993 Decree	All values for #184 are listed as zero
#184	Riparian	4/1	11/1	Irrigation	0.2771	155.63 0	1993 Decree	All values for #184 are listed as zero
#184	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01 0	1993 Decree	All values for #184 are listed as zero
#185	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#185	Riparian	4/1	11/1	Irrigation	0.0003	0.23	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#185	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#186	Domestic Registration	1/1	12/31	domestic	0.01	0.11	1993 Decree	NA
#187	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#187	Riparian	4/1	11/1	Irrigation	0.5202	246.11	1993 Decree	NA
#187	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#188	Domestic Registration	1/1	12/31	domestic	0.01	0.11	1993 Decree	NA
#189	Riparian	1/1	12/31	Industrial	0.0025	0.73	1993 Decree	NA
#190	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#191	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#192	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#193	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#194	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#195	Domestic Registration	1/1	12/31	domestic	0.01	0	1993 Decree	No longer listed in Decree
#195A	Domestic Registration	1/1	12/31	domestic	0.01	1.68	1993 Decree	NA
#195A	Livestock Registration	1/1	12/31	stockwatering	0.01	0.17	1993 Decree	NA
#196	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#196	Riparian	4/1	11/1	Irrigation	0.01	2.14	1993 Decree	NA
#196	Livestock Registration	1/1	12/31	stockwatering	0.0043	1.84	1993 Decree	NA
#197	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#197	Riparian	4/1	11/1	Irrigation	0.0309	20.3	1993 Decree	NA
#197	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#198	Domestic Registration	1/1	12/31	domestic	0.01	0.56 0.67	1993 Decree	Corrected based on updated information from water master or judge
#198	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#199	Riparian	4/1	11/1	Irrigation	0.0309	20.3	1993 Decree	NA
#199	Livestock Registration	1/1	12/31	domestic	0.01	3.01 0.67	1993 Decree	Listed in Decree as the same claim as POD 198, stock watering is listed
#200	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#200	Riparian	4/1	11/1	Irrigation	0.0289	16.28	1993 Decree	NA
#200	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#201	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#201	Livestock Registration	1/1	12/31	stockwatering	0.0175	7.47	1993 Decree	NA
#202	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#202	Riparian	4/1	11/1	Irrigation	0.0289	16.28	1993 Decree	NA
#202	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#203	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#203	Riparian	4/1	11/1	Irrigation	0.0175	7.35	1993 Decree	NA
#203	Livestock Registration	1/1	12/31	stockwatering		0.112	1993 Decree	Stock value identified in the Decree
#204	Domestic Registration	1/1	12/31	domestic	0.01	32 1.12	1993 Decree	Revised based on Decree information. Decree value is 1000 gpd or 1.12 af/yr
#204	Riparian	4/1	11/1	Irrigation	0.5202	257.02	1993 Decree	NA
#205	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#205	Livestock Registration	1/1	12/31	stockwatering	0.5202	0.51	1993 Decree	NA
#206	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#206	Riparian	4/1	11/1	Irrigation	0.5202	0	1993 Decree	NA
#206/ A03XXXX	Appropriative	12/15	3/31	Irrigation/ Domestic	0.5	20	eWRIMS	NA
#206A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#206B	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#206B	Livestock Registration	1/1	12/31	stockwatering	0.0011	0.84	1993 Decree	NA
#207	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#207	Riparian	4/1	11/1	Irrigation	0.0061	2.83	1993 Decree	NA
#207	Livestock Registration	1/1	12/31	stockwatering	0.01	0.28	1993 Decree	NA
#208	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#208	Riparian	4/1	11/1	Irrigation	0.0011	0.37	1993 Decree	NA
#208	Livestock Registration	1/1	12/31	stockwatering	0.01	0.28	1993 Decree	NA
#209	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#209	Riparian	4/1	11/1	Irrigation	0.0289	14.29	1993 Decree	NA
#209	Livestock Registration	1/1	12/31	stockwatering	0.01	0.51 0.03	1993 Decree	Revised to reflect value listed in Decree
#211 (c1)	Domestic Registration	1/1	12/31	Domestic	0.01	0.56	1993 Decree	NA
#211 (c1)	Riparian	4/1	11/1	Irrigation	0.0659	14.4	1993 Decree	NA
#211 (c1)	Livestock Registration	1/1	12/31	stockwatering	0.01	0.11	1993 Decree	NA
#211 (c2)	Domestic Registration	1/1	12/31	Domestic	0.01	0.56	1993 Decree	NA
#211 (c2)	Riparian	4/1	11/1	Irrigation	0.01	14.4	1993 Decree	NA
#211 (c2)	Livestock Registration	1/1	12/31	stockwatering	0.01	3.01	1993 Decree	NA
#212	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#212	Riparian	4/1	11/1	Irrigation	0.0037	2.04	1993 Decree	NA
#212	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#213	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#213	Riparian	4/1	11/1	Irrigation	0.0136	7.64	1993 Decree	NA
#213	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#214	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#214	Riparian	4/1	11/1	Irrigation	0.1615	68.87	1993 Decree	NA
#214	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#215A	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#215A	Riparian	4/1	11/1	Irrigation	0.0087	4.32	1993 Decree	NA
#215A	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#216	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#216	Livestock Registration	1/1	12/31	stockwatering	0.007	5.04	1993 Decree	NA
#217	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#219D	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#219D	Riparian	4/1	11/1	Irrigation	0.1	34.3	1993 Decree	NA
#219D	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#219E	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#220	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#221	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#221	Riparian	4/1	11/1	Irrigation	0.4935	357	1993 Decree	NA
#221	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#225 (c1)	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#225 (c1)	Riparian	4/1	11/1	Irrigation	0.5203	65.13	1993 Decree	NA
#225 (c1)	Livestock Registration	1/1	12/31	stockwatering	0.01	1.01	1993 Decree	NA
#225 (c2)	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#225 (c2)	Riparian	4/1	11/1	Irrigation	0.5203	155.11	1993 Decree	NA
#225 (c2)	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#226	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#198	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#227	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#227	Riparian	4/1	11/1	Irrigation	0.0116	5.72	1993 Decree	NA
#227	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#229	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#229	Riparian	4/1	11/1	Irrigation	0.0289	20.94	1993 Decree	NA

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

#229	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#230	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#231	Domestic Registration	1/1	12/31	domestic	0.001	0.56	1993 Decree	NA
#231	Riparian	4/1	11/1	Irrigation	0.0014	0.7	1993 Decree	NA
#231	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#232	Domestic Registration	1/1	12/31	domestic	0.01	1.12	1993 Decree	NA
#232	Riparian	4/1	11/1	Irrigation	0.1561	79.39	1993 Decree	NA
#232	Livestock Registration	11/1	4/1	stockwatering	0.01	3.01	1993 Decree	NA
#233	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#234	Domestic Registration	1/1	12/31	domestic	0.1	0.56	1993 Decree	NA
#234	Riparian	4/1	11/1	Irrigation	0.4006	169.22	1993 Decree	NA
#234	Livestock Registration	1/1	12/31	stockwatering	0.01	0.8	1993 Decree	NA
#235	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#235	Riparian	4/1	11/1	Irrigation	0.0693	50.18	1993 Decree	NA
#235	Livestock Registration	11/1	3/31	stockwatering	0.01	3.01	1993 Decree	NA
#238	Domestic Registration	1/1	12/31	domestic	0.01	0.56	1993 Decree	NA
#238	Riparian	4/1	11/1	Irrigation	0.1	5.75	1993 Decree	NA
#238	Livestock Registration	1/1	12/31	stockwatering	0.1	9.81	1993 Decree	NA
#1000	Domestic Registration	1/1	12/31	domestic	0.01	0.47	1993 Decree	NA
#100A	Domestic Registration	1/1	12/31	domestic	0.01	0.33	1993 Decree	NA
#1001	Domestic Registration	1/1	12/31	domestic	0.01	0.23	1993 Decree	NA

3. Methods

The period used in determining average seasonal unimpaired flow is the diversion season requested in Application A0XXX (December 15 to March 31). Unimpaired flow is the total volume of water, on average, that would flow past the POD/POA on a seasonal basis if no diversion (impairment) was taking place in the watershed above the POD/POA.

3.1 Water Supply Table

Streamflow at each POA is estimated based on a proration of USGS streamflow data, using the gauge on San Gregorio Creek located approximately 0.5 miles downstream of the proposed point of diversion on San Gregorio Creek (USGS 11162570). In this analysis, we estimated unimpaired flow volume during the period of analysis based on historical streamflow data from the San Gregorio Creek USGS streamflow gauge. We calculated average flow volume during the period of analysis (the proposed Dec. 15 – Mar. 31 diversion season) from daily-scale data rather than monthly because the proposed diversion season does not cover the entire month of December. This average seasonal flow volume was scaled to the proposed POD and each senior water right along the downstream flow path (referred to below as Points of Analysis, or POAs) by a ratio of watershed area and average annual rainfall in the upstream watershed according to the equation in the Policy, Appendix B.2.1.3:

$$Q_{POA} = Q_{gauge} * (DA_{POA} / DA_{gauge}) * (P_{POA} / P_{gauge})$$

Where:

Q_{POA} = discharge estimated at the Point of Analysis, in cubic-feet per second;

Q_{gauge} = unimpaired discharge recorded at the gauge, in cubic-feet per second;

DA_{POA} = drainage area at the POA, in square miles;

DA_{gauge} = drainage area at gauge, in square miles;

P_{POA} = average annual precipitation of the POA, in inches; and

P_{gauge} = average annual precipitation of the gauge, in inches.

The scaling ratio of watershed area and precipitation from a historical USGS gauge to a POA is referred to henceforth as Ratio 1. The resulting flow value was used as the Unimpaired Seasonal Flow Volume for each senior water right along the downstream flow path from the proposed POD.

3.2 Flow Frequency

The frequency of occurrence of the average seasonal unimpaired flow is determined using the Weibull formula:

$$F = 1 - (m / (N + 1))$$

Where:

F = the frequency of occurrence

m = the rank of the average seasonal unimpaired flow volume, with the largest value receiving m = 1

n = the length of the gage data record, in years

The analysis was performed at the POD(s) of the proposed project as well as the senior PODs at which the percentage calculated in A.1.2(3) (the estimate of unimpaired flow) is the lowest. Graphs of the frequency of occurrence plotted against the season unimpaired flow at the POD, and the senior POAs at which the percentage calculated in A.1.2(3) (the estimate of unimpaired flow) is the lowest, are shown in the following section. We did not include graphs for all downstream POAs because the ratio of unimpaired discharge is above 90% for all downstream POAs.

4. Unappropriated Water Available & Calculations

Table 2 lists the senior diverters along the downstream flow path from the application POD. Table 2 shows the POAs season of diversion, rate, seasonal demand volume, and purpose of use. This information was used in our unappropriated water availability analysis.

Table 2. Senior diverters on downstream flow path.

Water Right ID	Direct Diversion			Storage			Purpose of Use
	Season	Rate	Seasonal Water Right demand volume, ac-ft	Season	Rate	Amount (AF)	
#235	Jan 1 to Dec 31	0.01 cfs	0.16				Irrigation, stockwatering, domestic
#234	Jan 1 to Dec 31	0.1 cfs	0.16				Irrigation, stockwatering, domestic
#233	Jan 1 to Dec 31	0.01 cfs	2.53				Stockwatering
#232	Jan 1 to Dec 31	0.16 cfs	2.89				Irrigation, stockwatering, domestic
#231	Jan 1 to Dec 31	0.001 cfs	2.72				Irrigation, stockwatering, domestic
S010071 (#230)	Jan 1 to Dec 31	0.01 cfs	0.16				Domestic
#229	Jan 1 to Dec 31	0.01 cfs	2.36				Irrigation, stockwatering, domestic
#227	Jan 1 to Dec 31	0.01 cfs	2.72				Irrigation, stockwatering, domestic
A026126				Dec/1 - 4/30	0.74 cfs	9.99	Irrigation, fire, recreation
A03XXXX				Dec/15 - 3/31	0.5 cfs when flow is >10 cfs; 0.16 cfs when flow is between 3 and 10 cfs	19.5	Irrigation, domestic

4.1 Calculation Results – Unappropriated Water Available

Using the method identified in section 3.1, Table 3 lists the average seasonal unimpaired flow calculated at each POA. To estimate the percent of unappropriated water available at the POA the demand is subtracted from the supply, then divided by the supply (results show in Table 3).

Table 3. Water Supply Table in support of water right A03XXX, from San Gregorio creek, for the diversion season December 15 to March 31.

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

POD (Application ID)	Watershed area above POD, acres	AVG Annual precip of wshd above POD (in)	Ratio1	Seasonal Unimpaired flow volume, ac-ft	Seasonal Water Right demand volume, ac-ft	Senior Demand Volume Along Path (af)	Remaining unimpaired discharge, ac-ft, BEFORE NEW WATER RIGHT	Percentage of remaining unappropriated water BEFORE NEW WATER RIGHT	Additional impairment caused by new water right, ac-ft	Remaining unimpaired discharge, ac-ft, AFTER NEW WATER RIGHT	Percentage of remaining unappropriated water AFTER NEW WATER RIGHT	Percent change caused by new water right
#235	33,001	33.92	1.02	19,301	0.16	739.12	18,561.99	96.17%	19.50	18,542.49	96.07%	-0.10%
#234	32,997	33.94	1.02	19,311	0.16	738.96	18,571.89	96.17%	19.50	18,552.39	96.07%	-0.10%
#233	32,997	33.95	1.02	19,317	0.33	738.79	18,578.17	96.18%	19.50	18,558.67	96.07%	-0.10%
#232	32,725	33.97	1.01	19,170	0.33	736.26	18,433.94	96.16%	19.50	18,414.44	96.06%	-0.10%
#231	32,680	33.99	1.01	19,155	0.16	733.75	18,421.54	96.17%	19.50	18,402.04	96.07%	-0.10%
S010071 (#230)	32,647	34.01	1.01	19,148	0.16	731.41	18,416.44	96.18%	19.50	18,396.94	96.08%	-0.10%
#229	32,635	34.03	1.01	19,153	0.16	731.24	18,421.39	96.18%	19.50	18,401.89	96.08%	-0.10%
#227	32,629	34.05	1.01	19,161	0.16	728.88	18,431.97	96.20%	19.50	18,412.47	96.09%	-0.10%
A026126	31,587	34.16	0.98	18,605	9.99	726.54	17,878.69	96.09%	19.50	17,859.19	95.99%	-0.10%
A03XXXX	31,350	34.17	0.98	17,822	19.5	716.55	17,821.83	96.13%	19.50	17,802.33	96.03%	-0.11%

4.1 Flow Frequency Analysis

Section A.1.2(6) of the Instream Flow Policy states that a set of flow frequency analyses of average seasonal unimpaired flow shall be provided at:

- The POD(s) of the proposed project
- The senior POAs at which the percentage calculated in A.1.2(3) (the estimate of unimpaired flow) is the lowest
- Any other senior PODs at which the ratio is less than 50%, if any

Historical records from the San Gregorio Creek gauge were scaled to the proposed POD and the location of water right A029910 on the San Gregorio Creek - the senior POD where the percentage of remaining unimpaired discharge is lowest.

During the Policy season, the ratio of unimpaired discharge is above 90% for all senior POAs along the downstream flow path. Average unimpaired flows during the Policy diversion season for each year were ranked from high to low, and the frequency of occurrence was calculated using the Weibull formula (Policy Section B.2.2).

The results of the flow frequency analysis shows that 79% of the time the remaining unimpaired flow is greater than 90% after the proposed POD, during the diversion period December 15 to March 31; and 89% of the time the remaining unimpaired flow is greater than 85% after the proposed POD.

Table 4. Flow frequency analysis for the proposed POD and the POA at A026126 in the San Gregorio Creek drainage network, based on San Gregorio Creek streamflow data during the period December 15 to March 31.

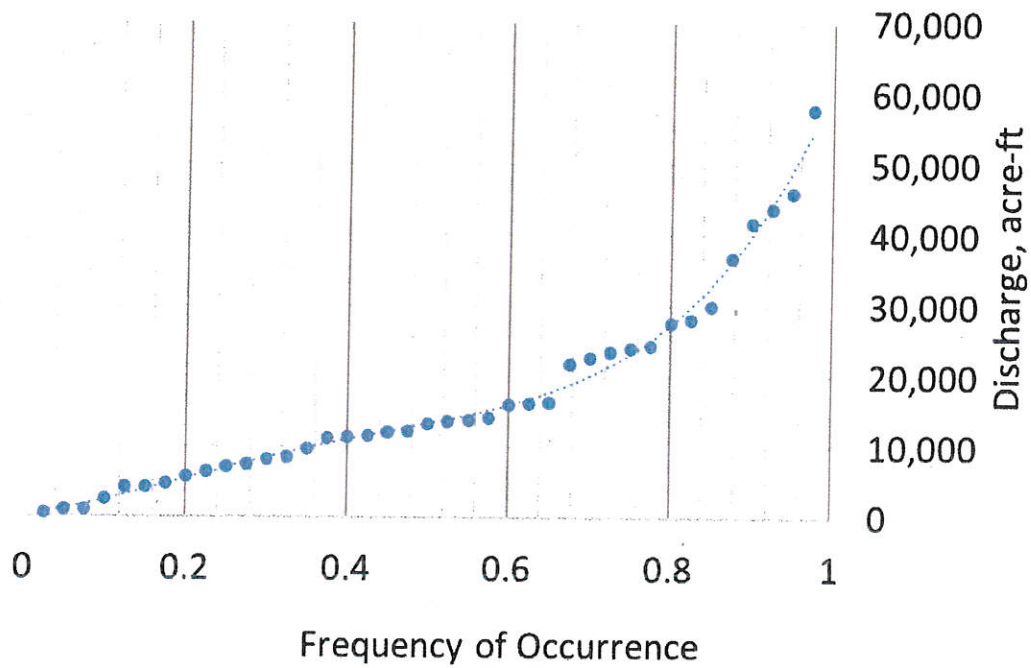
Discharge, acre-feet, at proposed POD	Discharge, acre-feet, at water right , A026126	Rank	Frequency
62,475	62,929	1	0.975
47,292	49,988	2	0.950
45,053	47,635	3	0.925
39,667	45,379	4	0.900
32,286	39,955	5	0.875
30,283	32,520	6	0.850
29,745	30,502	7	0.825
26,263	29,961	8	0.800
25,360	26,453	9	0.775
17,628	26,190	10	0.750
17,399	25,544	11	0.725
14,934	24,647	12	0.700
14,671	23,778	13	0.675
13,142	17,756	14	0.650
10,518	17,525	15	0.625
9,076	17,320	16	0.600

Proposed San Gregorio Creek water right: Water Supply Report for the diversion season December 15 – March 31

7,605	15,279	17	0.575
6,951	15,043	18	0.550
6,282	14,777	19	0.525
5,160	14,350	20	0.500
4,541	13,238	21	0.475
4,458	13,159	22	0.450
2,734	12,519	23	0.425
1,010	12,390	24	0.400
554	12,159	25	0.375
10,594	10,594	26	0.350
9,141	9,141	27	0.325
8,849	8,849	28	0.300
8,013	8,013	29	0.275
7,661	7,661	30	0.250
7,001	7,001	31	0.225
6,328	6,328	32	0.200
5,198	5,198	33	0.175
4,574	4,574	34	0.150
4,490	4,490	35	0.125
2,754	2,754	36	0.100
1,017	1,017	37	0.075
1,009	1,009	38	0.050
558	558	39	0.025

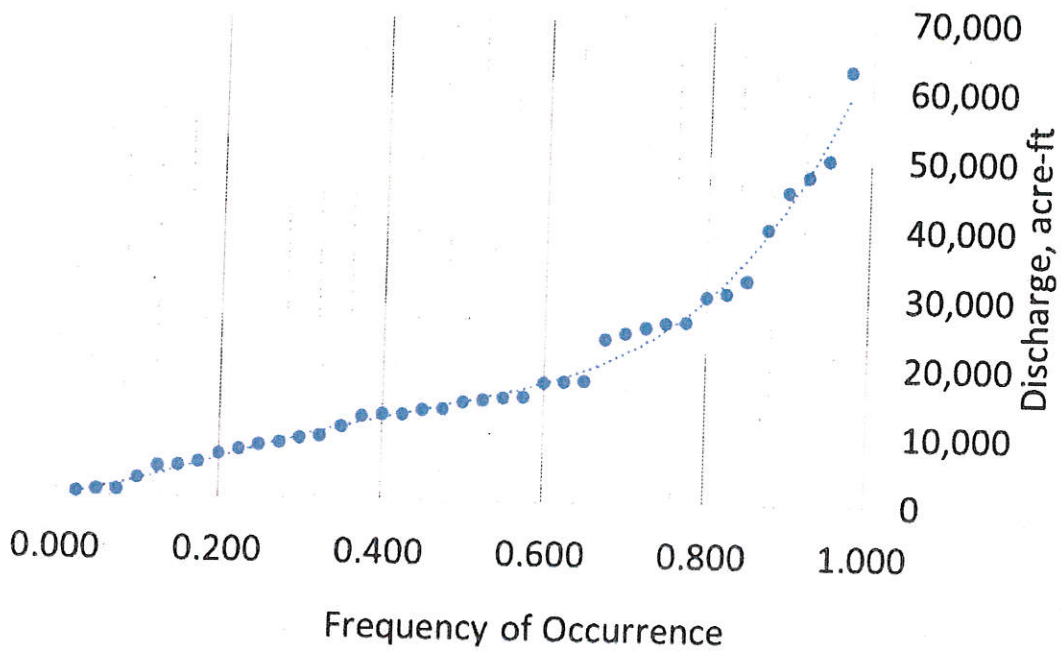
Flow frequency analysis for San Gregorio Creek at proposed POD, Dec 15 - Mar 31

$$y = 219390x^4 - 361528x^3 + 199670x^2 - 34131x + 1598.2$$
$$R^2 = 0.9521$$



Flow frequency analysis for San Gregorio Creek at A026126, Dec 15 - Mar 31

$$y = 219390x^4 - 361528x^3 + 199670x^2 - 34131x + 1598.2$$
$$R^2 = 0.9521$$



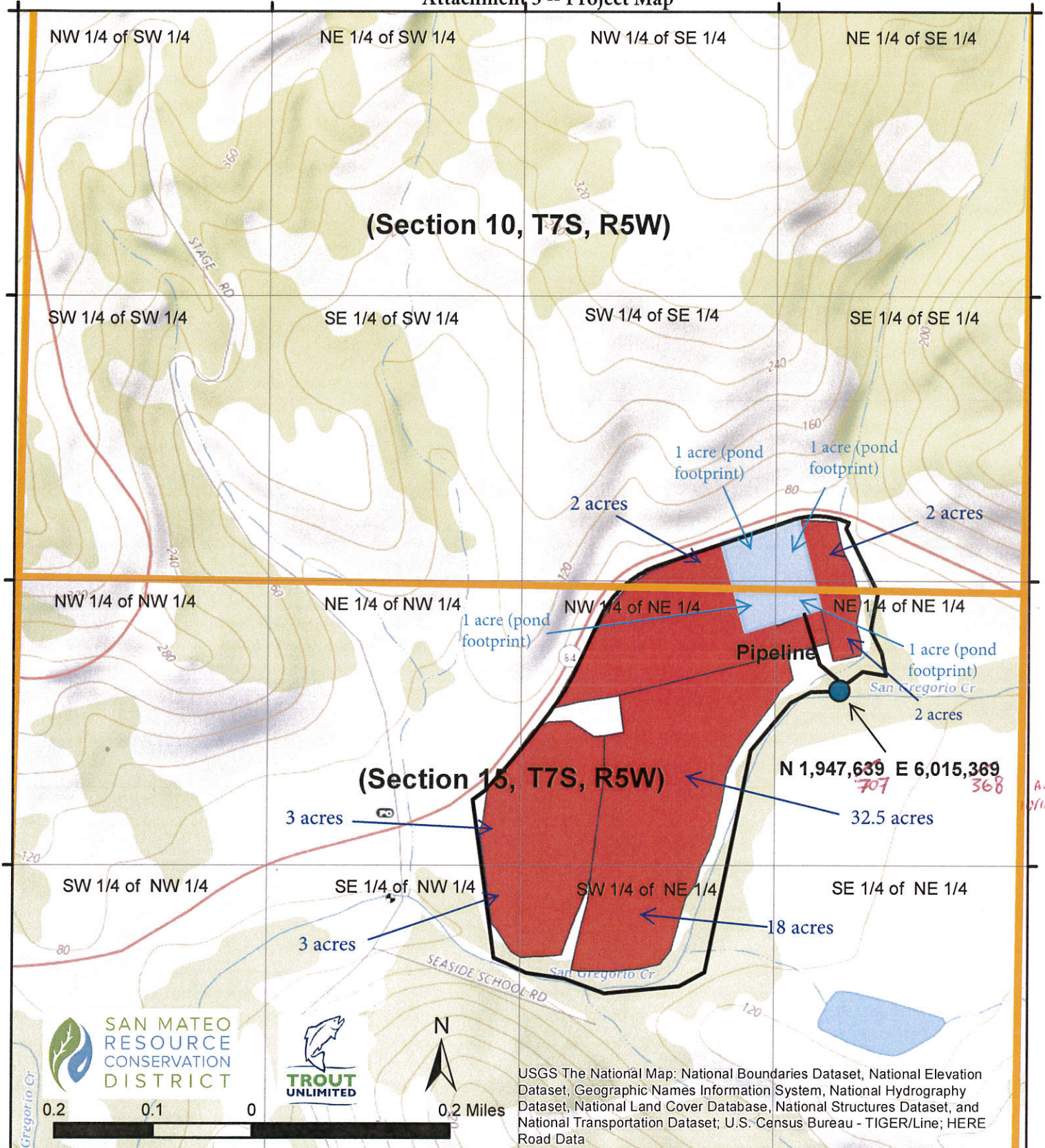
5. Results (description of Computations)

Table 3 indicates that existing water rights in the watershed represent less than 5 percent of the average estimated unimpaired flow volume (scaled from historical streamflow data recorded at the San Gregorio Creek USGS gauge) at the San Gregorio Creek POAs during the proposed diversion season. Before the proposed water right, 96.17 percent of unappropriated water remain instream. The addition of water right A03XXX would change the percentage of remaining unimpaired flow at each POA downstream of the proposed POD by 0.11 percent.






Results from the flow frequency analysis show that the ratio of unimpaired discharge is above 90% at the proposed POD and at the location of water right A026126 on the San Gregorio Creek - the senior POD where the percentage of remaining unimpaired discharge is lowest. During the Policy season, the ratio of unimpaired discharge is above 90% for all senior POAs along the downstream flow path.

These results suggest that additional appropriation during the period December 15 to March 31 has no negative impact on senior water right holders; there is water available for appropriation from San Gregorio Creek at the proposed location during the policy diversion season.

Attachment 3 -- Project Map



A-B
01/01/18

-  Point of diversion
-  Sections (within Mt. Diablo B&M)
-  Blue House Farms Parcel
-  Pond footprint (place of use - stockwatering)
-  Place of use - irrigation

Blue House Farms Project Site

Created by:
 Jarrad Fisher
 Conservation Project Manager
 San Mateo RCD
 Date: 08/17/2018

Attachment 4 - Photos



Photo #1 place of use

Blue House Farms Application to Appropriate Water



Photo # 2 – proposed pond site (enlarging footprint of existing pond)



Photo # 3 point of diversion

Blue House Farms Application to Appropriate Water



Photo # 4 San Gregorio stream channel at POD looking upstream

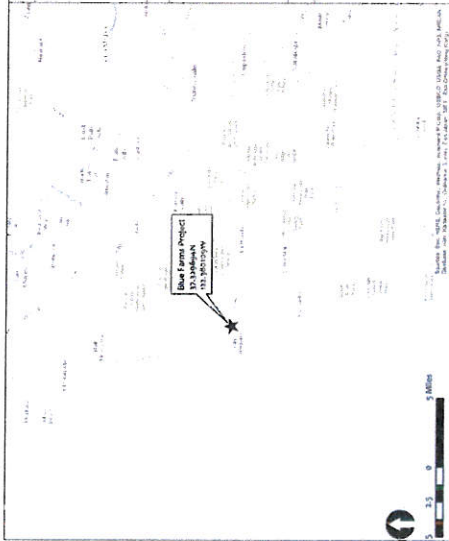


Photo #5 San Gregorio stream channel at POD looking upstream

BLUE HOUSE FARM
 950 LA HONDA ROAD
 SAN GREGORIO, CA 94074

SAN GREGORIO CREEK STREAMFLOW ENHANCEMENT PROJECT - BLUE HOUSE FARM

EARTHEN RESERVOIR GRADING FEBRUARY 2018



VICINITY MAP

SHEET INDEX	
C-1	TITLE
C-1	EXISTING CONDITIONS
C-2	OVER-EXCAVATION
C-3	RESERVOIR GRADING
C-5	NOTES
C-6	DETAILS

OWNER	
PENINSULA OPEN SPACE TRUST 222 HIGH STREET PALO ALTO, CA 94301 (650) 854-7696 APN: 081-250-020	

PROJECT COLLABORATORS	
CALIFORNIA WATER PROJECT TROUT UNLIMITED 8845 CRYSTAL STREET BERKELEY, CA 94708 (510) 549-9927	SAN MATEO COUNTY RESOURCE CONSERVATION DISTRICT 625 MARINOTTES ST., SUITE 103 PALO ALTO, CA 94301 (650) 712-7765

Project Overview: The purpose of this construct a new off-stream reservoir to maintain the property owner's agricultural water storage needs supplied by existing in-stream water diversions to enable water diversions in the winter when flows are high rather than in the summer when flows are low. This individual project is part of a larger assemblage of stream modification projects intended to restore base flows during summer months for fish habitat improvement.

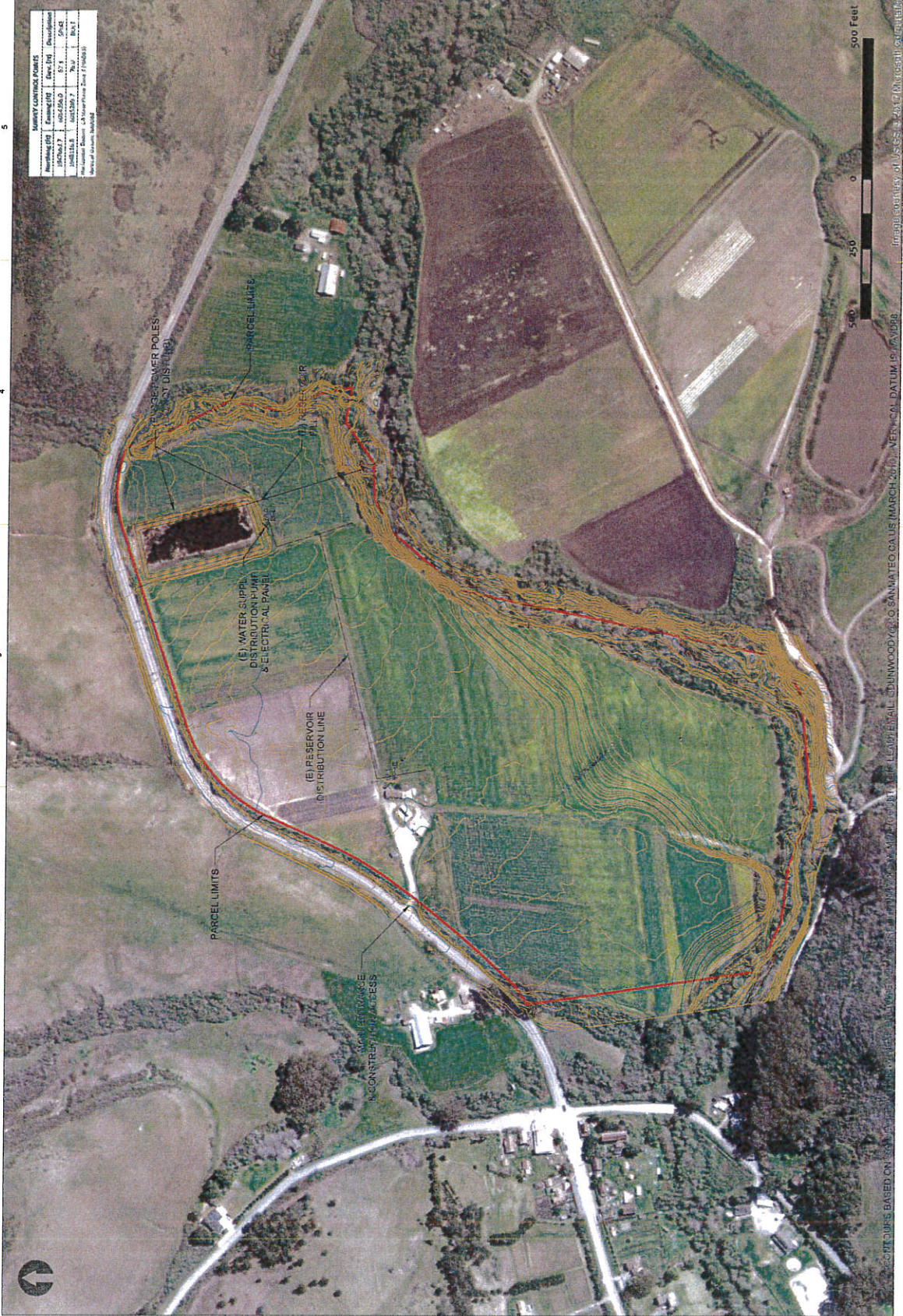


SITE MAP

<table border="1"> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	DATE	DESCRIPTION									<table border="1"> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	DATE	DESCRIPTION									<table border="1"> <tr> <th>REVISION BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISION BY	DATE									<table border="1"> <tr> <th>FILE NAME</th> <th>FILE NUMBER</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	FILE NAME	FILE NUMBER									<table border="1"> <tr> <th>PROJECT NO.</th> <th>CONTRACT NO.</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	PROJECT NO.	CONTRACT NO.									<table border="1"> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	DATE	DESCRIPTION								
DATE	DESCRIPTION																																																																
DATE	DESCRIPTION																																																																
REVISION BY	DATE																																																																
FILE NAME	FILE NUMBER																																																																
PROJECT NO.	CONTRACT NO.																																																																
DATE	DESCRIPTION																																																																

(510) 549-9927 154 LAMSON ROAD KILMINGTON, CA 94707	SAN GREGORIO CREEK STREAMFLOW ENHANCEMENT PROJECT, BLUE HOUSE FARM SAN GREGORIO, CA 94074

SHEET IDENTIFICATION
G-1
 SHEET 1 OF 6



SAFETY CONTINGENCY TABLE

Item	Location	Remarks
1
2
3
4
5
6
7
8
9
10

1 2 3 4 5



A B C D

				<p>STONING CONSULTING 1000 LAMAR AVENUE, SUITE 200 SAN FRANCISCO, CA 94102 (415) 774-1111</p>		<p>EXISTING CONDITIONS SAN Geronimo, CA 94974 SAN Geronimo, CA 94974</p>		<p>SHEET IDENTIFICATION C-1 SHEET 2 OF 6</p>	
DATE:	DESIGNED BY:	PROJECT NO.:	CLIENT:	DATE:	DESIGNED BY:	PROJECT NO.:	CLIENT:	DATE:	DESIGNED BY:

CONTOUR LINES BASED ON 2010 AERIAL PHOTOGRAPHY. ELEVATIONS ARE IN FEET. ALL ELEVATIONS ARE TO SANMATEO CALIF. MARCH 2010. METRIC DATUM IS NAVD83.

NO.	DATE	DESCRIPTION



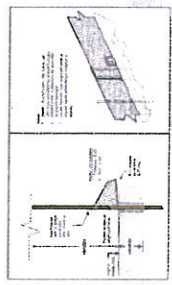
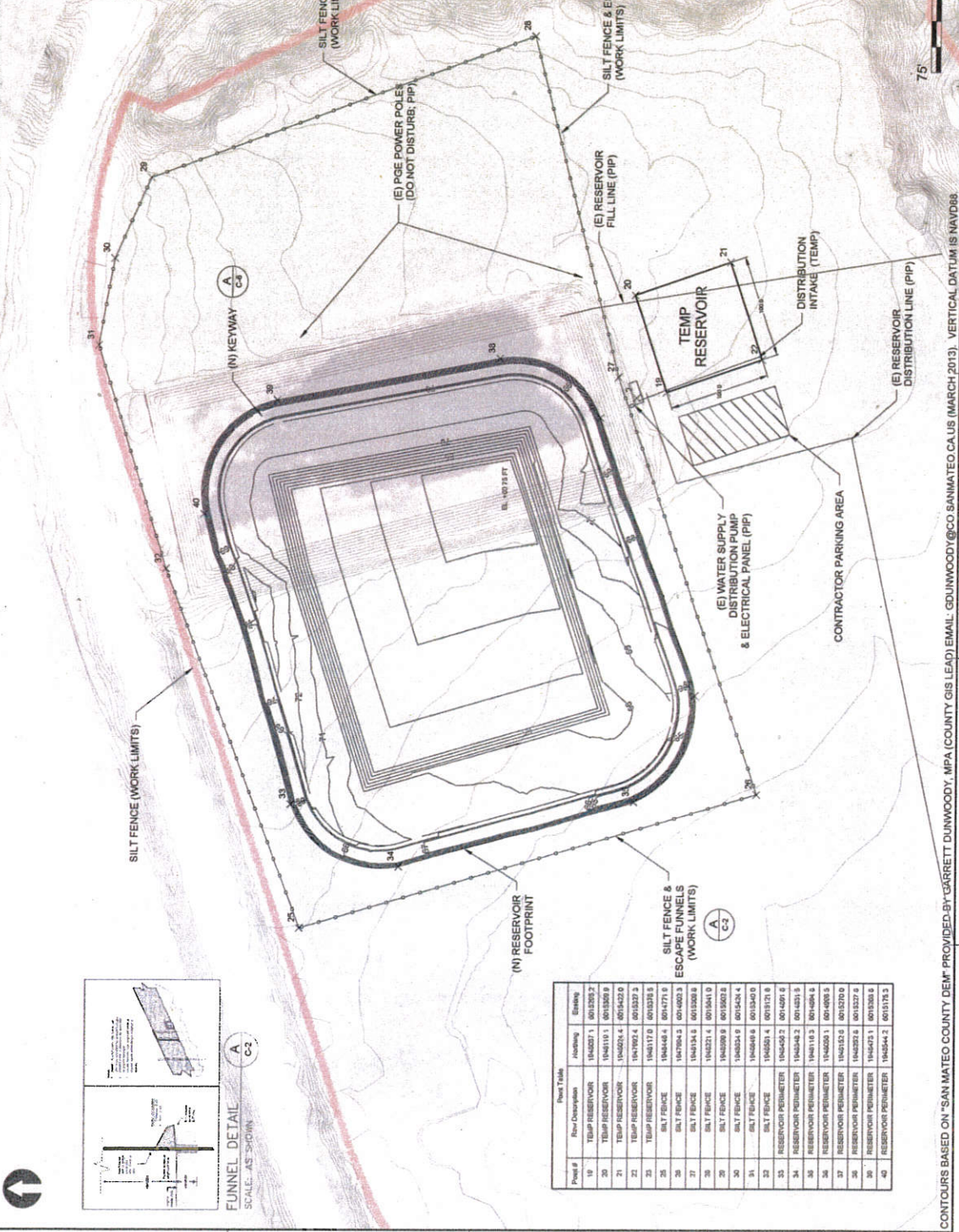
DATE	
REVISION BY	
CONTRACT NO.	
PROJECT NO.	
CLIENT	
PROJECT NAME	
PLANT SCALE	
DATE	

OVER-EXCAVATION
 SAN JOAQUIN COUNTY
 SAN Geronimo, CA 94974
 5400 KENNEDY BLVD. SUITE 200
 SAN FRANCISCO, CA 94134

SHEET IDENTIFICATION
C-2
 SHEET 3 OF 6

NO.	DATE	DESCRIPTION

Item	Quantity	Unit



Point #	Flow Description	Flowing	Elmty
19	TEMP RESERVOIR	194027.1	801329.2
20	TEMP RESERVOIR	194111.9	801329.9
21	TEMP RESERVOIR	194027.4	801422.0
22	TEMP RESERVOIR	194792.4	801327.2
23	TEMP RESERVOIR	194117.0	801325.5
24	SILT FENCE	194144.8	801271.6
25	SILT FENCE	194794.5	801402.3
26	SILT FENCE	194734.5	801329.9
27	SILT FENCE	194221.4	801361.0
28	SILT FENCE	194209.9	801362.8
29	SILT FENCE	194834.9	801342.4
30	SILT FENCE	194849.9	801340.0
31	SILT FENCE	194851.4	801317.8
32	RESERVOIR PERIMETER	194452.2	801420.7
33	RESERVOIR PERIMETER	194119.2	801420.6
34	RESERVOIR PERIMETER	194119.2	801420.6
35	RESERVOIR PERIMETER	194025.1	801408.5
36	RESERVOIR PERIMETER	194212.5	801327.0
37	RESERVOIR PERIMETER	194221.5	801327.0
38	RESERVOIR PERIMETER	194215.1	801326.9
39	RESERVOIR PERIMETER	194215.1	801326.9
40	RESERVOIR PERIMETER	194244.2	801317.3

CONTOURS BASED ON "SAN MATEO COUNTY DEM" PROVIDED BY GARRETT DUNWOODY, MPA (COUNTY GIS LEAD) EMAIL: GOUNWOODY@CO.SANMATEO.CA.US (MARCH 2013). VERTICAL DATUM IS NAVD83.

NO.	DATE	DESCRIPTION	BY



PROJECT NAME: STORSTAD CONSULTING
PROJECT NO.: 194 LAMSON ROAD
DATE: 03/15/2013
SCALE: 1" = 40'

RESERVOIR GRADING
 SAN GABRIEL CREEK WATERSHED
 SAN GABRIEL CREEK WATERSHED
 SAN GABRIEL CREEK WATERSHED

SHEET IDENTIFICATION
C-3
 SHEET 4 OF 6

NO.	DATE	DESCRIPTION	BY

NO.	DATE	DESCRIPTION	BY



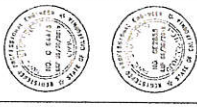
Point	Spot Elevation	Spot Elevation
41	SPILLWAY	154.200
42	SPILLWAY	154.200
43	SPILLWAY	154.200
44	SPILLWAY	154.200
45	RESERVOIR-FIT	154.200
46	RESERVOIR-FIT	154.200
47	RESERVOIR-FIT	154.200
48	RESERVOIR-FIT	154.200
49	RESERVOIR-FIT	154.200
50	RESERVOIR-FIT	154.200
51	RESERVOIR-FIT	154.200
52	RESERVOIR-FIT	154.200
53	RESERVOIR-FIT	154.200

DECONSTRUCT (E) EMBANKMENT TO BLEND <UNDER DIRECTION OF OWNER'S REPRESENTATIVE>
 GRADE ACCESS
 EMERGENCY SPILLWAY
 (N) RESERVOIR FOOTPRINT
 (E) PGE POWER POLES (DO NOT DISTURB, PIP)
 (E) RESERVOIR FILL LINE
 (E) RESERVOIR DISTRIBUTION LINE (PIP)

GRADING NOTES:
 (1) IN-SITU SOILS ARE 10-15% OVER OPTIMUM, MOISTURE CONDITIONING IS EXPECTED.
 (2) CREST ELEVATION = +42.75 FT
 (3) MAXIMUM WATER SURFACE ELEVATION = +42.75 FT
 (4) RESERVOIR MINIMUM BOTTOM ELEVATION = +42.75 FT
 (5) INTERIOR SLOPE = 3H TO 1V
 (6) EXTERIOR SLOPE = 3H TO 1V
 (7) CREST WIDTH = 14 FT
 (8) RESERVOIR STORAGE (@ MAX WATER SURFACE EL) = 30.5 AF
 (9) COMPACT EMBANKMENT TO A MIN OF 90% R.C. (ASTM D1557)
 (10) RESERVOIR FOOTPRINT (2D) IS 4.3 ACRES
 (11) STRAW WATTLE LENGTH: ~2,800 FT
 (12) SEED EXTERIOR EMBANKMENT SLOPE (~45,000 SF)

CONTOURS BASED ON "SAN MATEO COUNTY DEW" PROVIDED BY GARRETT DUNWOODY, MPA (COUNTY GIS LEAD) EMAIL: GDUNWOODY@CO.SANMATEO.CA.US (MARCH 2013). VERTICAL DATUM IS NAVD83.

NO.	DATE	DESCRIPTION



DATE	
ENGINEER BY	
CONTRACT NO.	
PROJECT NAME	
SCALE	
PROJECT NO.	

NOTES

ENHANCEMENT PROJECT BLUE HOUSE EXAM
SAN Geronimo, CA 94724

SHEET IDENTIFICATION
C-4
SHEET 5 OF 8

GENERAL NOTES:

- CONTRACTOR SHALL SUPPLY ALL MATERIALS, LABOR AND EQUIPMENT TO CONSTRUCT THE FEATURES SHOWN ON THESE PLANS AND TO MAINTAIN ACCESS TO THE NATURE OF THE GROUND AND OTHER EXISTING CONDITIONS PRIOR TO BIDDING THE WORK. NO ADJUSTMENTS WILL BE MADE TO ACCEPTED CONSTRUCTION PRACTICES WITH GENERAL CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF THE WORKERS AND THE PUBLIC. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND INDICATION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE ARCHAEOLOGICAL AND HISTORICAL DEPARTMENT OF TRANSPORTATION AND PUBLIC UTILITIES, CONTACT THE DEPARTMENT OF TRANSPORTATION AND PUBLIC UTILITIES IN ANY EVENT. THE OWNER AND/OR CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER UPON DISCOVERING DISCREPANCIES. THE OWNER SHALL HAVE THE PLANS REVISED TO CLARIFY IDENTIFIED DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNDERGROUND SERVICE ALERT (U.S.A.), TOLL FREE AT 1-800-645-2444, AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL UNCOVER RELEVANT UTILITIES TO VERIFY THEIR LOCATION. UNEXPECTED OR UNEXPECTED OR CONFLICTING UTILITIES ARE ENCOUNTERED DURING EXCAVATION, NOTIFY U.S.A., THE UTILITY OWNER INCLUDE BUT ARE NOT LIMITED TO WATER, ELECTRICAL, GAS, TELEPHONE AND CABLE/TV.
- IN THE EVENT CULTURAL RESOURCES (I.E. HISTORICAL, ARCHEOLOGICAL AND PALEONTOLOGICAL RESOURCES, AND ARCHAEOLOGICAL REMAINS) ARE DISCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE ARCHAEOLOGICAL CENTER SHALL BE NOTIFIED AT (707) 464-0880. A QUALIFIED EVALUATION SHALL BE CONSULTED FOR AN ON-SITE EVALUATION AND RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, STOP WORK IMMEDIATELY AND NOTIFY THE COUNTY CORNER, MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS. STOP WORK IN THE AFFECTED AREA AND CONTACT 911 OR THE LOCAL LAW ENFORCEMENT AGENCY FOR FURTHER INSTRUCTION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. BEFORE RECONSTRUCTION AND GRADING SHALL BE INSPECTED AND APPROVED BY THE ARCHAEOLOGICAL CENTER. THE CONTRACTOR SHALL CONSULT THE PROJECT JOB CARD FOR COORDINATION OF INSPECTION REQUESTS.

COMMON ABBREVIATIONS

- AC ACRES
- CL CENTER LINE
- E EXISTING
- EG EXISTING GRADE
- EL ELEVATION
- FL FEET
- FT FEET
- H HORIZONTAL
- INT INTERSECTION
- PI POINT OF INTERSECTION
- PIP PROTECT IN PLACE
- SE SOUTH EAST
- UC UNDEVELOPED GROUND
- V VERTICAL



EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

- PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, APPLICABLE COUNTY REGULATIONS, AND SECTION 20 OF THE CALTRANS STANDARD SPECIFICATIONS.
 - THE APPROVED PLANS SHALL CONFORM WITH THE EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES CONTAINED IN THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS OR AN EQUIVALENT BEST MANAGEMENT PRACTICE:
 - EROSION AND SEDIMENT CONTROL FIELD MANUAL BY THE SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD;
 - MANUAL OF STANDARDS FOR EROSION & SEDIMENT CONTROL MEASURES BY THE ASSOCIATION OF BAY AREA GOVERNMENTS;
 - CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK BY CALTRANS;
 - SLOWWATER BEST MANAGEMENT PRACTICE HANDBOOK BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.
 - IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIALS REFERENCED HEREIN OR MANUFACTURER'S RECOMMENDATIONS, THEN THE MOST PROTECTIVE SHALL APPLY.
 - THE OWNER IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CAS000002 WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY, DISTURBING AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT INCLUDE BUT ARE NOT LIMITED TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT.
 - PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE.
 - THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE. THE CONTRACTOR MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 - APRIL 15).
 - EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR BEFORE FORECASTED STORM EVENTS AND AFTER ACTUAL STORM EVENTS, TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. STORM EVENTS PRODUCE AT LEAST 1 INCH OF PRECIPITATION IN A 24 HOUR PERIOD. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
 - CONTRACTOR IS RESPONSIBLE FOR DEVELOPMENT AND IMPLEMENTATION OF AN APPROPRIATE STORM WATER POLLUTION PREVENTION PLAN. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS. CHANGES SHALL BE NOTED ON THE PLAN WHEN MADE.
 - DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE EXTENT PRACTICABLE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY.
 - ENTRANCE(S) TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY.
 - WHENEVER IT IS NOT POSSIBLE TO UTILIZE EROSION PREVENTION MEASURES, EXPOSED SLOPES SHALL EMPLOY SEDIMENT CONTROL DEVICES, SUCH AS FIBER ROLLS AND SILT FENCES. FIBER ROLLS AND SILT FENCES SHALL BE TRENCHED AND KEVED INTO THE SOIL AND INSTALLED ON CONTOUR.
 - EVENLY APPLY SEED MIX TO THE EXPOSED SLOPE. THE SEEDING SHALL OCCUR BY MANUALLY APPLYING THE SEEDS IN THE RATES INDICATED. NO FERTILIZER SHALL BE USED. APPLICATIONS SHALL BE BROADCAST MECHANICALLY OR MANUALLY AT THE RATES SPECIFIED BELOW. SEED MIX SHALL BE WORKED INTO THE SOIL BY ROLLING OR TAMPING.
- | MATERIALS | APPLICATION RATE (POUNDS/ACRE) |
|----------------------------------------|--------------------------------|
| SEED MIX | 40 |
| HILL VIEW MIX (LE BALLISTER'S) | |
| Bromus carinatus (CALIFORNIA BROME) | |
| Elymus glaucus (BLUE WILD RYE) | |
| Hordeum brachyantherum (MEADOW BARLEY) | |
| Triticum widedonit (TOM CAT CLOVER) | |
| Hordeum (COMMON BARLEY) | 80 |
| EQUIVALENT MATERIAL | PER MANUFACTURER |
- SOIL AND MATERIAL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.
 - SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY, OR AS NECESSARY, AND REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE ARRANGED.
 - A CONCRETE WASHOUT AREAS, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS (AS REQUIRED). AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER COUNTY WATERWAYS SUCH AS CREEKS OR STORM DRAINS.
 - PROPER APPLICATION, CLEANING AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE CONDUCTED TO PREVENT THE DISCHARGE OF POLLUTANTS.
 - WHEN UTILIZED, TEMPORARY RESTROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED TO PREVENT THE DISCHARGE OF POLLUTANTS.
 - APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.

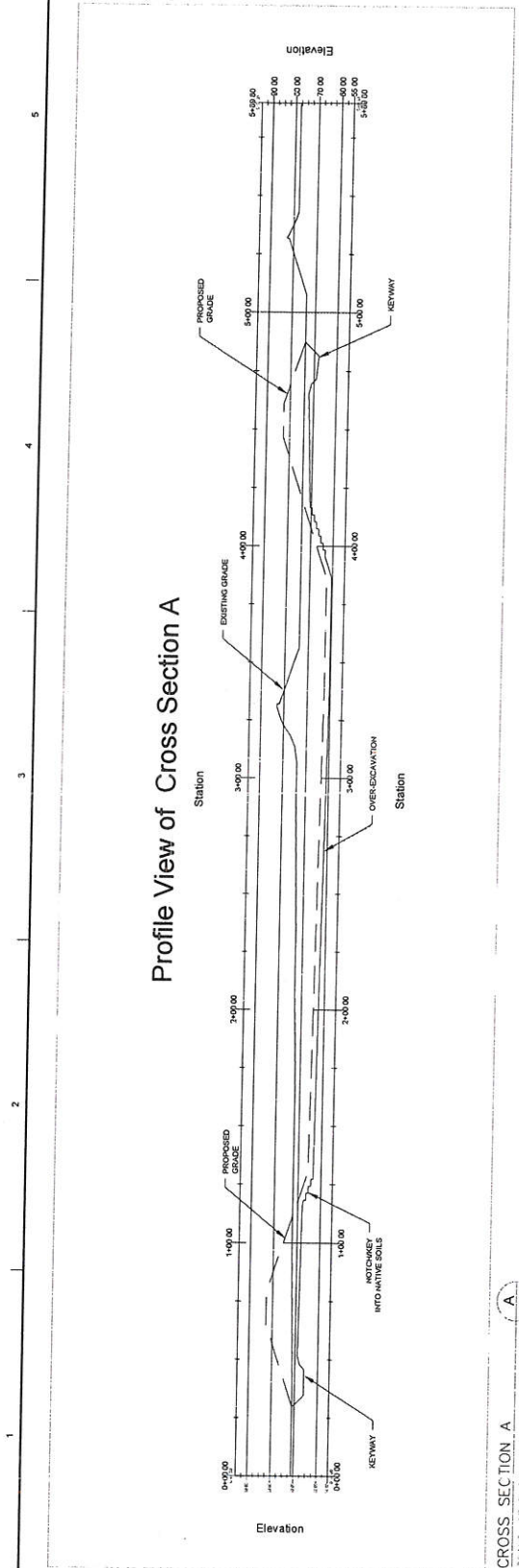
NO.	DESCRIPTION	DATE	BY
1	CONSTRUCTION DRAWINGS		
2	REVISIONS		



DESIGNED BY	DATE
DRAWN BY	CAD BY
CHECKED BY	CONTRACT NO.
PROJECT SCALE	PROJECT DATE
PROJECT NAME	PAGE NUMBER

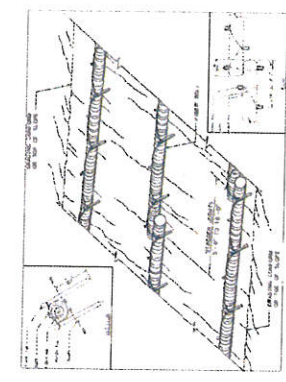
DETAILS
 SAN JOAQUIN CREEK STRAWLEW
 SAN JOAQUIN, CA 94924
 ENHANCEMENT PROJECT, BLUE HOUSE PARK

SHEET IDENTIFICATION
C-5
 SHEET 6 OF 6

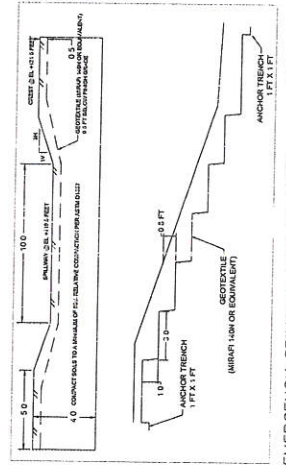


Profile View of Cross Section A

CROSS SECTION A
 SCALE: AS SHOWN



STRAW WATTLE DETAILS (TYP)
 SCALE: AS SHOWN



EMERGENCY SPILLWAY DETAILS (TYP)
 SCALE: AS SHOWN



SILT FENCE DETAILS (TYP)
 SCALE: AS SHOWN

Attachment 6 -- Notice of CEQA Exemption

Notice of Exemption

2018038164

Appendix E

To: Office of Planning and Research
P.O. Box 3044, Room 113
Sacramento, CA 95812-3044
County Clerk
County of: San Mateo
555 County Circle
Redwood City, CA 94068

From: (Public Agency):
San Mateo Resource Conservation District
625 Miramontes St. Ste. 103 Half Moon Bay CA 94019
(Address)

Project Title: San Gregorio Creek Streamflow Enhancement Project, Blue House Farm

Project Applicant: San Mateo Resource Conservation District

Project Location - Specific:
950 La Honda Rd., adjacent to San Gregorio Creek and Highway 84

Project Location - City: San Gregorio Project Location - County: San Mateo

Description of Nature, Purpose and Beneficiaries of Project:

Please see attached document.

Name of Public Agency Approving Project:

Name of Person or Agency Carrying Out Project: San Mateo Resource Conservation District

Exempt Status: (check one):

- Ministerial (Sec. 21080(b)(1); 15268);
- Declared Emergency (Sec. 21080(b)(3); 15269(a));
- Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
- Categorical Exemption. State type and section number: Classes 4 & 33 [Sections 15304 & 15333]
- Statutory Exemptions. State code number:

Reasons why project is exempt:

Please see attached document.

Lead Agency Contact Person: Joe Issel Area Code/Telephone/Extension: (650)712-7765x106

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: [Signature] Date: 03/08/2018 Title: Natural Resource Specialist

Signed by Lead Agency Signed by Applicant

Authority cited: Sections 21083 and 21110, Public Resources Code.
Reference: Sections 21106, 21152, and 21152.1, Public Resources Code.

Date Received for filing at DPR: [Stamp]

MAR 08 2018

STATE CLEARINGHOUSE

REMARKS:

This project aims at improving water security and water use efficiency, while improving instream flow conditions for salmonids and other species that may spawn, nest, forage or transit the project vicinity. Collectively, the areas directly impacted during construction of the project would encompass less than 5 acres. Designated areas within the regularly farmed agricultural footprint will be used temporarily to store and dry excavated soils. A 100 ft² temporary reservoir will also be built, using material from the existing 11 AF pond, to ensure that the farmer has ample water storage for use during construction of the 30AF pond. As described below, the project meets the CEQA criteria for exemption from environmental review under Class 4 (15304) and Class 33 (15333).

Project Description

The proposed project would replace an existing irrigation pond with a new pond, approximately 4.3 acres in size. This new pond would be used as a regulating reservoir from April-July, which would reduce the instantaneous rate of diversion from San Gregorio Creek. Under the proposed project, late summer and early fall all diversions from the creek would cease, with the reservoir and wells supplying the remaining irrigation needs for the growing season.

The new pond would be situated in the same location as the existing pond, which consists of an actively farmed field that is regularly disturbed with farm equipment and personnel (Figure 1). The existing pond would be drawn down and dried prior to construction activities. The reservoir would then be decommissioned, and the new pond would be constructed over the existing reservoir footprint using grading equipment and personal from a qualified construction firm. Construction activities would occur between April 15, 2018 and October 31, 2018 and would last approximately 32 weeks. Access to and from the project site would be along existing farm roads. Temporary storage of construction material, vehicles and equipment would be located in previously disturbed areas used for on-going agricultural activities.

The proposed pond project and previously installed irrigation upgrades (installed summer 2017 by NRCS) would reduce total annual water demand to 74.65 AF for a net savings of approximately 38 AF per year. The elimination of irrigation withdrawals during the forbearance period (August, September, and October) would increase streamflow by up to 220 gallons per minute (gpm) (0.5 cubic feet per second [cfs]) over current conditions. The reduction of diversion during the low-flow season will enhance streamflow by 25% over the observed minimum instream flow rate of 2 cfs. The proposed season of direct diversion represents a substantial improvement over existing conditions by providing for complete forbearance of diversion during the months when streamflow is typically lowest. In addition, diversions would continue to be limited based on real-time streamflow information and water diversion activities, which are also subject to the court decree governing the San Gregorio Creek adjudication and "no pumping day" restrictions implemented by the watermaster during low water years (Still Water Sciences 2014). This, combined with the maximum 70 gpm rate of diversion, would ensure that the effects of diversion during the period April 1 – July 31 are less than significant, and a substantial improvement over existing conditions.

Class 4 (CEQA State Guidelines, Section 15304)

Class 4 consists of minor public or private alterations in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees except for forestry or agricultural purposes. Examples include, but are not limited to:

(a) Grading on land with a slope of less than 10 percent, except that grading shall not be exempt in a waterway, in any wetland, in an officially designated (by federal, state, or local government action) scenic area, or in officially mapped areas of severe geologic hazard such as an Alquist-Priolo Earthquake Fault Zone or within an official Seismic Hazard Zone, as delineated by the State Geologist.

2018038164

(c) *Filling of earth into previously excavated land with material compatible with the natural features of the site.*

The proposed project would consist of a minor alteration to an agricultural field with a slope of less than 10%. The existing pond would be drawn down and dry prior to excavation. The existing pond would then be excavated to create the new pond. The project site is not located in a scenic area, and area of severe geologic hazard, or in an official Seismic Hazard Zone, as mapped by the State Geologist.

Class 33 (CEQA State Guidelines, Section 15333)

This section of the CEQA guidelines describes Small Habitat Restoration Projects that do not exceed 5 acres in size and are constructed for the purpose of maintenance, restoration, enhancement, or protection of habitat for fish, plants or wildlife. The purpose of the project is to enhance and/or improve natural creek function for the recovery of coho salmon and native steelhead trout. In addition, implementation of the proposed project would also improve aquatic conditions in San Gregorio Creek for the federally threatened California red legged frog (*Rana draytonii*) and San Francisco garter snake (*Thamnophis sirtalis tetrataenia*).

(a) *There would be no significant adverse impact on endangered, rare or threatened species or their habitat pursuant to section 15065.*

Project activities would not result in a significant impact on endangered, rare or threatened species or their habitat. The project footprint is located in an existing water storage pond and surrounded by an actively managed agricultural field. Implementation of the proposed project would improve aquatic and riparian habitat conditions for species that may spawn, forage, or transit the project vicinity, particularly fish species that may use San Gregorio Creek (steelhead) and aquatic species associated with adjacent riparian habitats (California red-legged frog, San Francisco garter snake). To the extent possible, temporary and localized impacts to sensitive habitats would be minimized by using hand labor, observing in-water work windows, and implementing construction-related best management practices. Construction would occur between April 15 and October 15. Construction during the dry season would also minimize the potential for erosion and any construction-related effects on aquatic species. Pre-construction surveys for sensitive species that may occur in the vicinity, including California red-legged frog, San Francisco garter snake, western pond turtle (*Actinemys marmorata*). The RCD would implement all conservation measures required in project permits.

The project does not have the potential to degrade the quality of the environment and would not substantially reduce the habitat or threaten to eliminate a plant or animal community; substantially reduce the number or restrict the range of any endangered, rare or threatened species; or eliminate important examples of the major periods of California history or prehistory.

(b) *There are no hazardous materials at or around the project site that may be disturbed or removed.*

No hazardous materials are known to the project site or project vicinity.

(c) *The project will not result in impacts that are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.*

The proposed project would not result in adverse impacts that are significant when viewed in connection with effects of past, current and probable future projects because all such projects would comply with requirements of regulatory permits issued for the purpose of protecting natural resources. There are no overlapping projects in the vicinity that would have environmental impacts to which the proposed project would contribute to a cumulative adverse impact. Short-term construction related impacts would last approximately 32 weeks during the spring and summer months. As noted above, best management practices would be implemented to avoid construction-related impacts on sensitive resources. The project would not adversely affect farmland,

2018038164

public services, geologic stability, soils, or increase health risks. Overall, the project would result in cumulatively beneficial impact on hydrologic function in San Gregorio Creek.

(d) An example of a small restoration project that qualifies for Class 33 Exemption (as provided in the 2018 CEQA guidelines): (3) stream or river bank revegetation, the primary purpose of which is to improve habitat for amphibians or native fish

The project would be exempt under *Class 33* as it restores streamflows in San Gregorio Creek during summer and fall, when low flows are a principal limiting factor to the recovery of coho salmon and native steelhead trout. In addition, implementation of the proposed project would improve stream conditions for California red-legged frog, San Francisco garter snake, western pond turtle and riparian bird species.

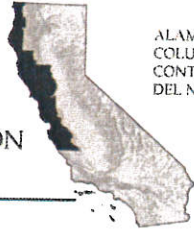
CEQA State Guidelines Section 15300.2 states that a categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances. As described above, there are no unusual circumstances surrounding the proposed project that would suggest a reasonable possibility of a significant environmental effect.

REFERENCES:

Bell, E., & Alford, C. (2014). Ecological Assessment of Flows in San Gregorio Creek.

Attachment 7 -- Archaeological Report

CALIFORNIA
HISTORICAL
RESOURCES
INFORMATION
SYSTEM



ALAMEDA
COLUSA
CONTRA COSTA
DEL NORTE

HUMBOLDT
LAKE
MARIN
MENDOCINO
MONTEREY
NAPA
SAN BENITO

SAN FRANCISCO
SAN MATEO
SANTA CLARA
SANTA CRUZ
SOLANO
SONOMA
YOLO

Northwest Information Center
Sonoma State University
150 Professional Center Drive, Suite E
Rohnert Park, California 94928-3609
Tel: 707.588.8455
nwic@sonoma.edu
<http://www.sonoma.edu/nwic>

April 3, 2018

NWIC File No.: 17-2262

Naftali Moed
Conservation Project Coordinator
San Mateo Resource Conservation District

Re: Record search results for the proposed Blue House Farm Irrigation Efficiency and Pond Project located at 950 La Honda Rd., San Gregorio, San Mateo County, CA.

Project Description: construction of a new 30.5-acre foot pond structure on the property, retiring existing pond and updating irrigation infrastructure.

Dear Naftali Moed:

Per your request received by our office on March 15, 2018, a records search was conducted for the above referenced project by reviewing pertinent Northwest Information Center (NWIC) base maps that reference cultural resources records and reports, historic-period maps, and literature for San Mateo County. Please note that use of the term cultural resources includes both archaeological resources and historical buildings and/or structures.

Review of this information indicates that there have been no cultural resource studies that cover the Blue House Farm Irrigation Efficiency and Pond Project area. This project area contains no recorded archaeological resources. The State Office of Historic Preservation Historic Property Directory (OHP HPD) (which includes listings of the California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and the National Register of Historic Places) lists no recorded buildings or structures within or adjacent to the proposed project area. In addition to these inventories, the NWIC base maps show no recorded buildings or structures within the proposed project area.

At the time of Euroamerican contact the Native Americans that lived in the area were speakers of the Ramaytush language, part of the Costanoan language family (Levy 1978 1978:485). There is one Native American resource in or adjacent to the proposed project

area referenced in the ethnographic literature [the area of the Olxon, or Oljon (Levy 1978:485, Milliken 1995)].

Based on an evaluation of the environmental setting and features associated with known sites, Native American resources in this part of San Mateo County have been found in areas marginal to the coast, and inland near intermittent and perennial watercourses. The Blue House Farm Irrigation Efficiency and Pond Project area is located within the San Gregorio Valley approximately one mile from the coast. The project area is located at the hill to valley interface adjacent to a secondary creek just north of its confluence with San Gregorio Creek. Given the similarity of one or more of these environmental factors, there is a moderate to high potential for unrecorded Native American resources in the proposed Blue House Farm Irrigation Efficiency and Pond Project area.

Review of historical literature and maps indicated the possibility of historic-period activity within the Blue House Farm Irrigation Efficiency and Pond Project area. San Mateo County historic literature indicated that the San Gregorio Valley was known as a fertile farming region (San Mateo County 1984: 3). The 1902 Santa Cruz USGS 30-minute topographic quadrangle indicates only the adjacent road, and the 1940 Half Moon Bay USGS 15-minute topographic quadrangle depicts a pond within the project area. With this in mind, there is a moderate potential for unrecorded historic-period archaeological resources in the proposed project area.

The 1961 Half Moon Bay USGS 15-minute topographic quadrangle depicts a structured pond within the Blue House Farm Irrigation Efficiency and Pond project area. This unrecorded structure meets the Office of Historic Preservation's minimum age standard that buildings, structures, and objects 45 years or older may be of historical value.

RECOMMENDATIONS:

1) There is a moderate to high potential of identifying Native American archaeological resources and a moderate potential of identifying historic-period archaeological resources in the project area. We recommend a qualified archaeologist conduct further archival and field study to identify cultural resources. Field study may include, but is not limited to, pedestrian survey, hand auger sampling, shovel test units, or geoarchaeological analyses as well as other common methods used to identify the presence of archaeological resources. Please refer to the list of consultants who meet the Secretary of Interior's Standards at <http://www.chrisinfo.org>.

2) We recommend the lead agency contact the local Native American tribe(s) regarding traditional, cultural, and religious heritage values. For a complete listing of tribes in the vicinity of the project, please contact the Native American Heritage Commission at 916/373-3710.

3) The 1961 Half Moon Bay USGS 15-minute topographic quadrangle depicts a structured pond within the Blue House Farm Irrigation Efficiency and Pond project area. This unrecorded structure meets the Office of Historic Preservation's minimum age standard that buildings, structures, and objects 45 years or older may be of historical value. Therefore, it is recommended that this resource be assessed by a professional familiar with the architecture and history of San Mateo County. Please refer to the list of consultants who meet the Secretary of Interior's Standards at <http://www.chrisinfo.org>.

4) Review for possible historic-period buildings or structures has included only those sources listed in the attached bibliography and should not be considered comprehensive.

5) If archaeological resources are encountered **during construction**, work should be temporarily halted in the vicinity of the discovered materials and workers should avoid altering the materials and their context until a qualified professional archaeologist has evaluated the situation and provided appropriate recommendations. Project personnel should not collect cultural resources. Native American resources include chert or obsidian flakes, projectile points, mortars, and pestles; and dark friable soil containing shell and bone dietary debris, heat-affected rock, or human burials. Historic-period resources include stone or adobe foundations or walls; structures and remains with square nails; and refuse deposits or bottle dumps, often located in old wells or privies.

6) It is recommended that any identified cultural resources be recorded on DPR 523 historic resource recordation forms, available online from the Office of Historic Preservation's website: http://ohp.parks.ca.gov/default.asp?page_id=1069

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are

available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the California Historical Resources Information System (CHRIS) Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

The California Office of Historic Preservation (OHP) contracts with the California Historical Resources Information System's (CHRIS) regional Information Centers (ICs) to maintain information in the CHRIS inventory and make it available to local, state, and federal agencies, cultural resource professionals, Native American tribes, researchers, and the public. Recommendations made by IC coordinators or their staff regarding the interpretation and application of this information are advisory only. Such recommendations do not necessarily represent the evaluation or opinion of the State Historic Preservation Officer in carrying out the OHP's regulatory authority under federal and state law.

Thank you for using our services. Please contact this office if you have any questions, (707) 588-8455.

Sincerely,

A handwritten signature in cursive script that reads "Jillian Guldenbrein".

Jillian Guldenbrein
Researcher

LITERATURE REVIEWED

In addition to archaeological maps and site records on file at the Northwest Information Center of the Historical Resources Information System, the following literature was reviewed:

- Barrows, Henry D., and Luther A. Ingersoll
2005 *Memorial and Biographical History of the Coast Counties of Central California*.
Three Rocks Research, Santa Cruz (Digital Reproduction of The Lewis Publishing
Company, Chicago: 1893.)
- Bowman, J.N.
1951 *Adobe Houses in the San Francisco Bay Region*. In *Geologic Guidebook of the San
Francisco Bay Counties*, Bulletin 154. California Division of Mines, Ferry Building,
San Francisco, CA.
- Brabb, Earl E., Fred A. Taylor, and George P. Miller
1982 *Geologic, Scenic, and Historic Points of Interest in San Mateo County, California*.
Miscellaneous Investigations Series, Map I-1257-B, 1:62,500. Department of the
Interior, United States Geological Survey, Washington, D.C.
- Department of Environmental Management
1980 *Coastside Cultural Resources*. Planning Division, San Mateo County, Redwood
City, CA.
- Gudde, Erwin G.
1969 *California Place Names: The Origin and Etymology of Current Geographical
Names*. Third Edition. University of California Press, Berkeley and Los Angeles.
- Hart, James D.
1987 *A Companion to California*. University of California Press, Berkeley and Los
Angeles.
- Helley, E.J., K.R. Lajoie, W.E. Spangle, and M.L. Blair
1979 *Flatland Deposits of the San Francisco Bay Region - Their Geology and
Engineering Properties, and Their Importance to Comprehensive Planning*.
Geological Survey Professional Paper 943. United States Geological Survey and
Department of Housing and Urban Development.
- Hoover, Mildred Brooke, Hero Eugene Rensch, and Ethel Rensch, revised by William N. Abeloe
1966 *Historic Spots in California*. Third Edition. Stanford University Press, Stanford, CA.
- Hoover, Mildred Brooke, Hero Eugene Rensch, and Ethel Rensch, William N. Abeloe, revised by
Douglas E. Kyle
1990 *Historic Spots in California*. Fourth Edition. Stanford University Press, Stanford,
CA.
- Kroeber, A.L.
1925 *Handbook of the Indians of California*. Bureau of American Ethnology, Bulletin 78,
Smithsonian Institution, Washington, D.C. (Reprint by Dover Publications, Inc., New
York, 1976)

Levy, Richard

1978 Costanoan. In *California*, edited by Robert F. Heizer, pp. 485-495. Handbook of North American Indians, vol. 8, William C. Sturtevant, general editor. Smithsonian Institution, Washington, D.C.

Milliken, Randall

1995 *A Time of Little Choice: The Disintegration of Tribal Culture in the San Francisco Bay Area 1769-1810*. Ballena Press Anthropological Papers No. 43, Menlo Park, CA.

Postel, Mitchell P.

1994 *San Mateo, A Centennial History*. Scottwall Associates, San Francisco, CA.

Roberts, George, and Jan Roberts

1988 *Discover Historic California*. Gem Guides Book Co., Pico Rivera, CA.

San Mateo County Historic Resources Advisory Board

1984 *San Mateo County: Its History and Heritage*. Second Edition. Division of Planning and Development Department of Environmental Management.

San Mateo County Planning and Development Department

n.d. "Historical and Archaeological Resources, Section 5" from the *San Mateo County General Plan*.

State of California Department of Parks and Recreation

1976 *California Inventory of Historic Resources*. State of California Department of Parks and Recreation, Sacramento.

State of California Department of Parks and Recreation and Office of Historic Preservation

1988 *Five Views: An Ethnic Sites Survey for California*. State of California Department of Parks and Recreation and Office of Historic Preservation, Sacramento.

State of California Office of Historic Preservation **

2012 *Historic Properties Directory*. Listing by City (through April 2012). State of California Office of Historic Preservation, Sacramento.

Williams, James C.

1997 *Energy and the Making of Modern California*. The University of Akron Press, Akron, OH.

Works Progress Administration

1984 *The WPA Guide to California*. Reprint by Pantheon Books, New York. (Originally published as *California: A Guide to the Golden State* in 1939 by Books, Inc., distributed by Hastings House Publishers, New York.)

**Note that the Office of Historic Preservation's *Historic Properties Directory* includes National Register, State Registered Landmarks, California Points of Historical Interest, and the California Register of Historical Resources as well as Certified Local Government surveys that have undergone Section 106 review.