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STATE WATER RESOURCES CONTROL BOARD
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DIV OF WATER RIGHTS
SACRAMENTO

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. A031978

APPLICATION TO APPROPRIATE WATER

1. APPLICANT/AGENT

	APPLICANT	ASSIGNED AGENT (if any)
Name	Thomas E. Bickell	
Mailing Address	24547 N. Hwy. 1	
City, State & Zip	Fort Bragg, CA 95437	
Telephone		
Fax		
E-mail		

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 Conservation Easement

*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.

Three earthen dams constructed circa 1965 prior to my ownership. The reservoirs collect runoff from an upstream channel during rain season and water gradually returns to the streams in the summer months by underground seepage. The spillways are unobstructed and water is not removed from the reservoirs for other purposes except emergency fire suppression and return to the down stream flow. The attached maps, photos and reports were prepared by SWRCB.

☒ *For continuation, see Attachment No.* 1

R'cvd
chk 931 for $ 1,321
chk 932 for $ 850
9/24/12
CM

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)
Reservoir 1	~~Unk~~	~~4.8~~	~~Jan 1~~	~~Dec 31~~	4.8	Jan 1 First rain	Dec 31 Last rain
Reservoir 2	~~Unk~~	~~20.3~~	~~Jan 1~~	~~Dec 31~~	20.3	Jan 1 First rain	Dec 31 Last rain
Reservoir 3	Unk	~~6.3~~	~~Jan 1~~	~~Dec 31~~	6.3	Jan 1 First rain	Dec 31 Last rain
	Total afa	~~31.4~~		Total afa	31.4		

ANJ 4/10/13

☒ *See Attachment No.* 2 * 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 31.4 acre-feet.

c. Reservoir storage is: ☒ onstream ☐ offstream ☐ underground (If underground storage, attach Underground Storage Form.)

d. County in which diversion is located: Mendocino County in which water will be used: Mendocino

5. SOURCES AND POINTS OF DIVERSION/REDIVERSION

a. Sources and Points of Diversion (POD)/Points of Rediversion (PORD):

☒ POD / ☐ PORD # Unnamed Stream - Reservoir 1 tributary to an unnamed stream

thence Rancheria Creek thence Navarro River

☒ POD / ☐ PORD # Unnamed Stream - Reservoir 2 tributary to an unnamed stream

thence Rancheria Creek thence Navarro River

☒ POD / ☐ PORD # Unnamed Stream - Reservoir 3 tributary to

Rancheria Creek thence Navarro River

ANJ 4/10/13

☐ POD / ☐ PORD # _____ tributary to

_____ thence _____

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	TOWN-SHIP	RANGE	BASE AND MERIDIAN
1	N 2,066,228 E 6,209,013	II	NE ¼ of SW ¼	6	T11N	R12W	MDB&M
2	N 2,065,760 E 6,209,781	II	NW ¼ of SW ¼	6	T11N	R12W	MDB&M
3	N 2069,322 E 6,208,625	II	NE ¼ of NW ¼	6	T11N	R12W	MDB&M
			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: Yorkville, 95494

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.
The 1998 Declaration of Fully Appropriated Streams does not have Rancheria Creek listed.

☒ *See Attachment No.* 3

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
None

☐ *See Attachment No.* ___

7. PLACE OF USE

In-situ

a.

USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Acres	Presently cultivated?
NE ¼ of SW ¼	6	T11N	R12W	MDB&M	0	☐ YES ☐ NO
NW ¼ of SE ¼	6	T11N	R12W	MDB&M	0	☐ YES ☐ NO
NE ¼ of NW ¼	6	T11N	R12W	MDB&M	0	☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
				Total Acres:	0	

ANT per Map, Errors and application

*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: 049-450-20

8. PROJECT SCHEDULE

Project is: ☐ proposed, ☐ partially complete or ☒ complete (Year completed - Circa 1965).

Extent of completion: ___

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

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

9. JUSTIFICATION OF AMOUNTS REQUESTED

a. ☐ IRRIGATION: Maximum area to be irrigated in any one year: _____ acres.

CROP	ACRES	METHOD OF IRRIGATION (sprinklers, flooding, etc.)	WATER USE (Acre-feet/Yr.)	SEASON OF WATER USE	
				Beginning date (month & day)	Ending date (month & day)

☐ *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: _____ Maximum number: _____
Describe type of operation: _____
(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)
Present						

☐ *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 _____ ¼ of _____ ¼ 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 _____ ¼ of _____ ¼ 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: Duck nesting of mallard, wood and others. River otters birth and raise pups. in reservoir 1 & 2

l. ☒ OTHER: Describe use: Emergency fire suppression by CalFire
Basis for determination of amount of water needed: _____

10. DIVERSION AND DISTRIBUTION METHOD

a. Diversion will be by gravity by means of: Earthen dams with unobstructed spillways
(dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)

b. Diversion will be by pumping from: No pumping
(sump, offset well, channel, reservoir, etc)
Pump discharge rate: _____ ☐ cfs or ☐ gpd Horsepower: _____
Pump Efficiency: _____

c. Conduit from diversion point to first lateral or to offstream storage reservoir: None, In-situ

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 -	

☐ *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)
1	16.6 ft.	Earthen Dam	49	14.8	0.68	4.8	10
2	24.0 ft.	Earthen Dam	62	2.6	1.83	20.1	18
3	23.5 ft.	Earthen Dam	44	22.0	0.45	6.3	20

☒ *See Attachment No. 4*

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
2	3	120	20	10	Approx. 8

☐ *See Attachment No. ___*

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 _____ 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.
Water will not be removed from reservoir other than into stream bed.

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)
N/A

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.

☐ *See Attachment No. ___*

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.

☐ *See Attachment No. ___*

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. 5*

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: Mr. Fred Tarr Date of contact: 05-02-12
Department: Mendocino County Planning Telephone: (707) 463-4281
County Zoning Designation: RL160

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):
Dams constructed prior to January 1, 1974 are exempt

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)

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

AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.

☐ *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:
The alteration occurred when the dams were constructed in the 1960s. Since I acquired the property in 1991 there has been no significant alteration that I am aware of.

☐ *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:
Ms. Jane Arnold, Water Rights Coordinator, 707-441-5671, May 1, 2012

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:

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. ___*

* 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 Attachment No. ___*

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. ___*

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.

Thomas E. Bidwell	owner	9-20-12
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

Attachment 1. Project Description

The entire property where the dams are located was placed in a conservation easement in 2008 with the Andersen Valley Land Trust. The designation numbers given to the reservoirs in this application are taken from the SWRCB Report UN00221

Attachment 2. Purpose of Use, Diversion/Storage Amount and Season

The acre-feet per annum was based on the capacity of the reservoir since any amount in excess flows directly into stream flow. No water is removed and any amount in excess flows over the spillway into the creek. The rate is very difficult to estimate or measure accurately, depending upon whether or not it is raining, time since the last rain etc. Usually surface drainage stops within 5 day of the end of a rain. During the summer months Reservoir 1 and 3 seep underground into the streambed below the dams, losing about 90% of their volume of water. By use of the drain pipe in Reservoir# 2, that capacity drops to about 50%.

Attachment 3. Water Availability

The 1998 Declaration of Fully Appropriated Streams did not have Rancheria Creek listed. All of the drainage area into the reservoirs is on my property so there will be no other demand on the water.

Attachment 4. Diversion and Distribution Method: d. Storage Reservoirs

There is a difference between the WRCB Field report on Reservoir 2 in regards to depth and capacity and what I have recorded in this section. During the field inspection I was asked what I thought the depth was and I guessed at 30'. Subsequently I took a boat out on the lake when it was full and plumbed the depth using a flexible survey tape with a weight. I took 15 measurements from the dam itself to the upper end. The deepest portion was 18 " 6". In determining the volume I used the formula in the guide, depth x surface area x .7. Because the upper 1/3 of the lake is 6' or less I feel certain that the volume is less than what I have indicated, but I do not feel that it would reduce the volume below the level to qualify for Small Domestic Pond use.