

“F”

Water Availability Analysis

Contact Information	
Property Owner:	George Hendry
Owner Address:	3104 Redwood Road Napa, CA 94558
Owner Phone:	(707) 266-2130

Site Map

Please see the Use Permit Site Plan for the Hendry Winery which has been included with this submittal. The said map shows the proposed water source (existing well) and the proposed well location for the winery and their proximity to other water sources.

Narrative

This project involves an existing winery located on one parcel totaling 59.00 acres located at 3104 Redwood Road in Napa County. The winery owners are proposing to maintain their existing annual wine production at 59,000 gallons. There is one residence located on the subject property but it is served water by the Napa City Water District. There are two existing 5,000 gallon tanks and one 15,000 gallon water tank that provide both potable and fire protection water storage for the winery. All three of the tanks are filled by an existing well located on the westerly neighboring property. Said well connection is legal and only serves the winery property, see attached well use agreement included in this section. The land the well is located on is vacant with no known uses. The said well has a capacity of 17.9 gallons per minute which is equivalent to 28.87 acre feet per year. The well is located on the parcel directly west of the subject winery parcel. There are no known neighboring wells that exist within 500 feet of the subject well. The existing calculated annual water use for the winery parcel is 6.24 acre feet. Of this, 5.25 is used to irrigate vineyard the remaining 0.99 is utilized by the winery. Of this, 0.99 acre feet per year used by the winery, 0.91 is from process water, the other 0.08 acre feet per year is from domestic water. The proposed changes in visitation is expected to increase the annual water use to 6.31 acre feet. Of this 6.31 acre feet per year, 5.25 will still be used to irrigate existing vineyard while 1.06 will be utilized by the winery. Of this 1.06 acre feet, 0.91 will continue to be used for process water while the domestic water increases to 0.15 acre feet per year. It is the intention of the winery owners to drill a new well to be located on the winery property. Said proposed well will serve all the winery's water needs and the neighboring property's well will no longer be utilized. Said proposed well is not within 500' of any neighboring wells and its proposed location is shown on the included well location map as well and on the use permit site plans.

Because two parcels are involved, one being the winery property and the other being the well property, both parcels water availability were analyzed. Starting with the winery property. Using the valley floor groundwater recharge rate of 1.0 acre feet of water per acre of land the maximum allowed water use for the winery parcel would be 59.0 acre feet of water per year. Using an estimated minimum yield of 17 GPM the wells maximum annual output would be 27.42 acre feet per year. Comparing the proposed use of 6.31 acre feet per year to the above 59.0 acre feet value along with the estimated proposed well capacity value of 27.42 acre feet per year, it is clear that the subject parcel and proposed well should have more than enough capacity to serve the proposed use.

Moving on to the well property. Because this property is located outside of a defined groundwater recharge area a groundwater recharge analysis was conducted to establish the annual groundwater recharge. The details of this analysis are included in this attachment. The calculated groundwater recharge rate for this property is 0.73 acre feet of water per acre of land. Given that this parcel is 35.26

the maximum allowed water use for this well parcel would be 25.74 acre feet of water per year. Couple this with the existing 17.9 GPM well on the property it is clear that the subject parcel and well have more than enough capacity to serve the existing and/or proposed use.

Given the above it is clear that either of the subject parcels have more than enough water capacity to serve the proposed use.

Calculations

Please see the attached calculations below for details on water use and recharge rate.



A Tradition of Stewardship
A Commitment to Service

Department of Public Works

1195 Third Street, Suite 201
Napa, CA 94559-3092
www.countyofnapa.org/
publicworks
Main: (707) 253-4351
Fax: (707) 253-4627

Steve Lederer, P.E.
Director

WATER AVAILABILITY ANALYSIS - PHASE ONE STUDY

Introduction: As an applicant for a permit with Napa County, It has been determined that Chapter 13.15 of the Napa County Code is applicable to approval of your permit. One step of the permit process is to adequately evaluate the amount of water your project will use and the potential impact your application might have on the static groundwater levels within your neighborhood. The public works department requires that a Phase 1 Water Availability Analysis (WAA) be included with your application. The purpose of this form is to assist you in the preparation of this analysis. You may present the analysis in an alternative form so long as it substantially includes the information required below. Please include any calculations you may have to support your estimates.

The reason for the WAA is for you, the applicant, to inform us, to the best of your ability, what changes in water use will occur on your property as a result of an approval of your permit application. By examining the attached guidelines and filling in the blanks, you will provide the information we require to evaluate potential impacts to static water levels of neighboring wells.

Step #1:

Provide a map and site plan of your parcel(s). The map should be an 8-1/2"x11" reproduction of a USGS quad sheet (1:24,000 scale) with your parcel outlined on the map. Include on the map the nearest neighboring well. The site plan should be an 8-1/2"x11" site plan of your parcel(s) with the locations of all structures, gardens, vineyards, etc in which well water will be used. If more than one water source is available, indicate the interconnecting piping from the subject well to the areas of use. Attach these two sheets to your application. If multiple parcels are involved, clearly show the parcels from which the fair share calculation will be based and properly identify the assessor's parcel numbers for these parcels. Identify all existing or proposed wells

Step #2: Determine total parcel acreage and water allotment factor. If your project spans multiple parcels, please fill a separate form for each parcel.

Determine the allowable water allotment for your parcels:

Parcel Location Factors

The allowable allotment of water is based on the location of your parcel. There are 3 different location classifications. Valley floor areas include all locations that are within the Napa Valley, Pope Valley and Carneros Region, except for areas specified as groundwater deficient areas. Groundwater deficient areas are areas that have been determined by the public works department as having a history of problems with groundwater. All other areas are classified as Mountain Areas.

Please underline your location classification below (Public Works can assist you in determining your classification if necessary):

<u>Valley Floor</u>	1.0 acre feet per acre per year
<u>Mountain Areas</u>	0.5 acre feet per acre per year
<u>MST Groundwater Deficient Area</u>	0.3 acre feet per acre per year

Assessor's Parcel Number(s)	Parcel Size	Parcel Location Factor	Allowable Water Allotment
	(A)	(B)	(A) X (B)
035-120-031/035-120-030	59.00/35.26	1.0/0.73	59.00/25.74 AC/FT/YR

WINERY PARCEL / WELL PARCEL

Step #3:

Using the guidelines in Attachment A, tabulate the existing and projected future water usage on the parcel(s) in acre-feet per year (af/yr). Transfer the information from the guidelines to the table below.

EXISTING USE:	WINERY PARCEL / WELL PARCEL	PROPOSED USE:	WINERY PARCEL / WELL PARCEL
Residential	<u>0 / 0</u> af/yr	Residential	<u>0 / 0</u> af/yr
Farm Labor Dwelling	<u>0 / 0</u> af/yr	Farm Labor Dwelling	<u>0 / 0</u> af/yr
Winery	<u>0.99 / 0</u> af/yr	Winery	<u>1.06 / 0</u> af/yr
Commercial	<u>0 / 0</u> af/yr	Commercial	<u>0 / 0</u> f/yr
Vineyard*	<u>5.25 / 0</u> af/yr	Vineyard*	<u>5.25 / 0</u> af/yr
Other Agriculture	<u>0 / 0</u> af/yr	Other Agriculture	<u>0 / 0</u> af/yr
Landscaping	<u>0 / 0</u> af/yr	Landscaping	<u>0 / 0</u> af/yr
Other Usage (List Separately):		Other Usage (List Separately):	
_____	_____ af/yr	_____	_____ af/yr
_____	_____ af/yr	_____	_____ af/yr
_____	_____ af/yr	_____	_____ af/yr

TOTAL: 6.24 / 0 af/yr
2033823 gallons**

TOTAL: 6.31 / 0 af/yr **TOTAL:**
TOTAL: 2056631 / 0 gallons**


Is the proposed use less than the existing usage? () Yes (X) No () Equal

Step #4:

Provide any other information that may be significant to this analysis. For example, any calculations supporting your estimates, well test information including draw down over time, historical water data, visual observations of water levels, well drilling information, changes in neighboring land uses, the usage if other water sources such as city water or reservoirs, the timing of the development, etc. Use additional sheets if necessary.

Please see attached calculations.

Conclusion: Congratulations! Just sign the form and you are done! Public works staff will now compare your projected future water usage with a threshold of use as determined for your parcel(s) size, location, topography, rainfall, soil types, historical water data for your area, and other hydrogeologic information. They will use the above information to evaluate if your proposed project will have a detrimental effect on groundwater levels and/or neighboring well levels. Should that evaluation result in a determination that your project may adversely impact neighboring water levels, a phase two water analysis may be required. You will be advised of such a decision.

Signature:  Date: 11/10/2017 Phone: 707-815-0988

WATER AVAILABILITY ANALYSIS - PHASE ONE STUDY

Attachment A: Estimated Water Use Guidelines

Typical Water Use Guidelines:

Primary Residence	0.5 to 0.75 acre-feet per year (includes some landscaping)
Secondary Residence	0.20 to 0.30 acre-feet per year
Farm Labor Dwelling	0.06 to 0.10 acre-feet per person per year

Non-Residential Guidelines:

Agricultural:

Vineyards	
Irrigation only	0.2 to 0.5 acre-feet per acre per year
Heat Protection	0.25 acre feet per acre per year
Frost Protection	0.25 acre feet per acre per year
Farm Labor Dwelling	0.06 to 0.10 acre-feet per person per year
Irrigated Pasture	4.0 acre-feet per acre per year
Orchards	4.0 acre-feet per acre per year
Livestock (sheep or cows)	0.01 acre-feet per acre per year

Winery:

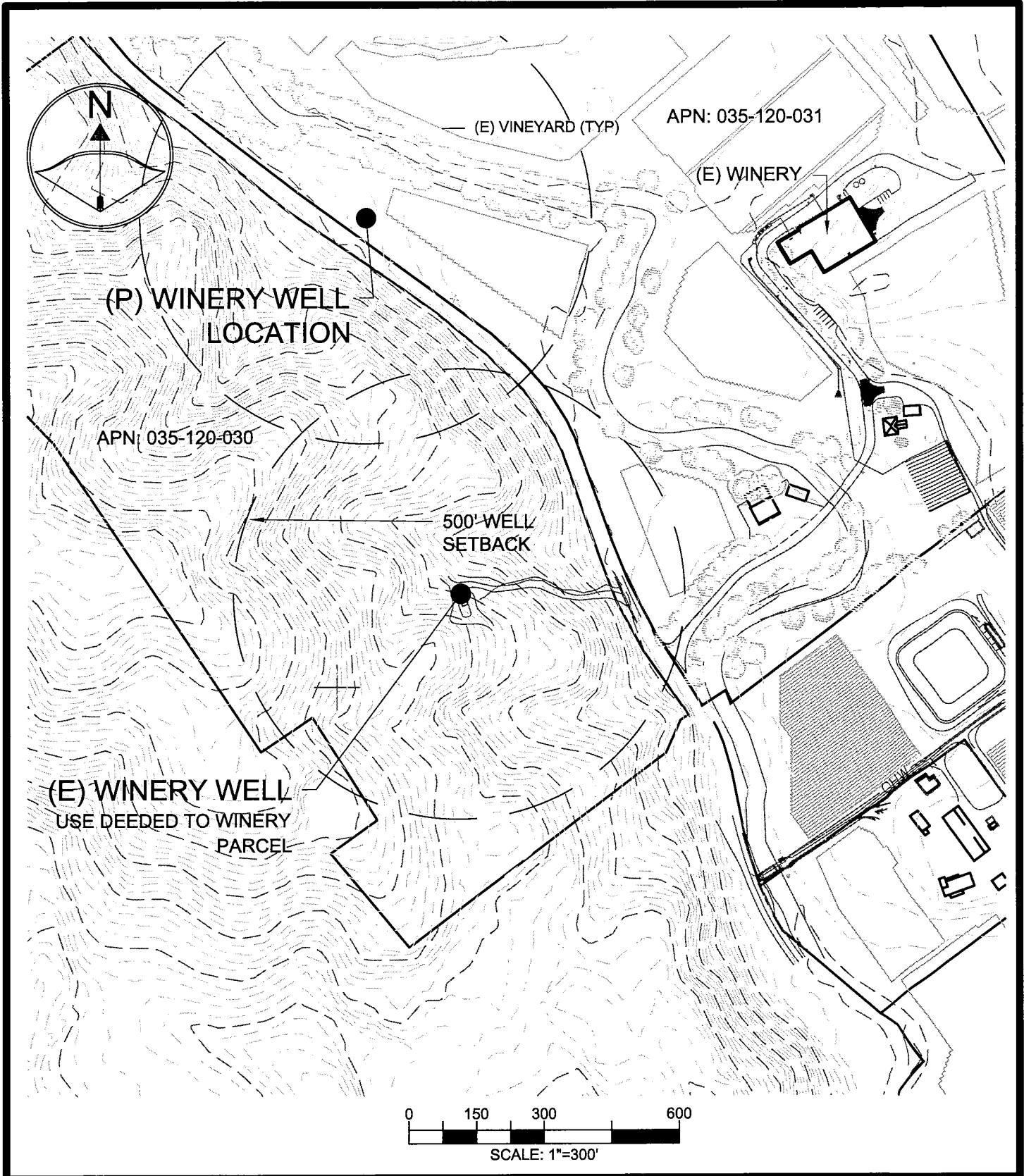
Process Water	2.15 acre-feet per 100,000 gal. of wine
Domestic and Landscaping	0.50 acre-feet per 100,000 gal. of wine

Industrial:

Food Processing	31.0 acre-feet per employee per year
Printing/Publishing	0.60 acre-feet per employee per year

Commercial:

Office Space	0.01 acre-feet per employee per year
Warehouse	0.05 acre-feet per employee per year



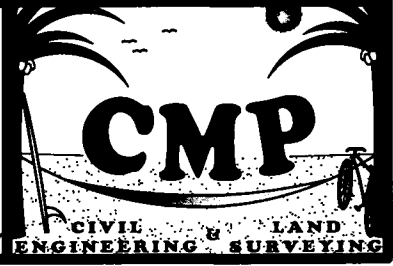
WELL LOCATION MAP

PROJECT INFO:

HENDRY WINERY
 3104 REDWOOD ROAD
 NAPA, CA 94558
 APN: 035-120-031

PREPARED BY:

CAMERON PRIDMORE PE, PLS
 1607 CAPELL VALLEY ROAD
 NAPA, CA 94558
 (707) 815-0988





CMP Civil Engineering & Land Surveying
1607 Capell Valley Road
Napa, CA 94558
(707) 815-0988
Cameron@CMPEngineering.com
CMPEngineering.com



Water Availability Calculations for the Hendry Winery Property

Located at:
3104 Redwood Road
Napa, CA 94558

Date: 4/16/2015
Rev 1: 6/21/2017
Rev 2: 11/10/2017

Project # 00067

Legend

Requires Input

Automatically Calculates

Important Value Automatically Calculates

Important Value Requires Input

Hit ctrl+alt+shift+F9 when finished to recalc a

WATER AVAILABILITY ANALYSIS CALCULATIONS

WATER USE CALCULATIONS FOR EXISTING USE

RESIDENTIAL	#	FACTOR	AF/YR
PRIMARY RESIDENCES (Well)=	0	0.6	0.00
SECONDARY RESIDENCES (Well)=	0	0.25	0.00
FARM LBR DWELLING (# OF PPL) =	0	0.08	0.00
		SUB TOTAL=	0.00

NON- RESIDENTIAL CALCULATIONS

AGRICULTURAL	# ACRE	FACTOR	AF/YR
VINEYARD IRRIGATION ONLY=	26.26	0.2	5.25
VINEYARD HEAT PROTECTION=	0	0.25	0.00
VINEYARD FROST PROTECTION=	0	0.25	0.00
IRRIGATED PASTURE=	0	4	0.00
ORCHARDS=	0	4	0.00
LIVESTOCK (SHEEP/COWS)=	0	0.01	0.00
		SUB TOTAL=	5.25
WINERY	# GAL	FACTOR	AF/YR
PROCESS WATER=	59000	SEE WW CALCS	0.91
DOMESTIC AND LANDSCAPING=	59000	SEE WW CALCS	0.08
		SUB TOTAL=	0.99
INDUSTRIAL	# EMPL	FACTOR	AF/YR
FOOD PROCESSING=	0	31	0.00
PRINTING/ PUBLISHING=	0	0.6	0.00
		SUB TOTAL=	0.00
COMMERCIAL	# EMPL	FACTOR	AF/YR
OFFICE SPACE=	0	0.01	0.00
WAREHOUSE=	0	0.05	0.00
		SUB TOTAL=	0.00

EXISTING USE TOTALS

RESIDENTIAL=	0.00	AF/YR
AGRICULTURAL=	5.25	AF/YR
WINERY=	0.99	AF/YR
INDUSTRIAL=	0.00	AF/YR
COMMERCIAL=	0.00	AF/YR
OTHER USAGE (LIST BELOW)		
		AF/YR
		AF/YR
		AF/YR
		AF/YR
		AF/YR
TOTAL EXISTING WATER USE=	2033823	G/YR
TOTAL EXISTING WATER USE=	6.24	AF/YR

WATER AVAILABILITY CALCULATIONS FOR EXISTING USE

WELL NUMBER	Q - GPM	AF/YR	
1 (on separate property)	17.9	28.875	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	17.9	28.875	
SPRING NUMBER	Q - GPM	AF/YR	
1		0.000	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	0	0.000	
TANK #	GAL	AF	
1	15000	0.046	
2	5000	0.015	
3	5000	0.015	
4		0.000	
5		0.000	
TOTAL=	25000	0.077	
RESERVOIR #	GAL	AF	
1	4561603.200	14	
2	0.000		
3	0.000		
4	0.000		
5	0.000		
TOTAL=	4561603.200	14	
GROUND WATER RECHARGE	AF/YR/ACRE	PARCEL AC	AF/YR
ALLEY FLOOR ANNUAL RECHARGE RATE =	1.00	59.00	59.00
TOTAL AVAILABLE WATER =	19223899.20	G/YR	
TOTAL AVAILABLE WATER =	59.00	AF/YR	
TOTAL EXISTING WATER USE=	6.24	AF/YR	
REMAINING AVAILABLE WATER =	52.76	AF/YR	

WATER USE CALCULATIONS FOR PROPOSED USE			
RESIDENTIAL	#	FACTOR	AF/YR
PRIMARY RESIDENCES (Well)=	0	0.6	0.00
SECONDARY RESIDENCES (Well)=	0	0.25	0.00
FARM LBR DWELLING (# OF PPL) =	0	0.08	0.00
		SUB TOTAL=	0.00
NON- RESIDENTIAL CALCULATIONS			
AGRICULTURAL	# ACRE	FACTOR	AF/YR
VINEYARD IRRIGATION ONLY=	26.26	0.2	5.25
VINEYARD HEAT PROTECTION=	0	0.25	0.00
VINEYARD FROST PROTECTION=	0	0.25	0.00
IRRIGATED PASTURE=	0	4	0.00
ORCHARDS=	0	4	0.00
LIVESTOCK (SHEEP/COWS)=	0	0.01	0.00
		SUB TOTAL=	5.25
WINERY	# GAL	FACTOR	AF/YR
PROCESS WATER =	59000	SEE WW CALC	0.91
DOMESTIC WATER =	59000	SEE WW CALC	0.15
		SUB TOTAL=	1.06
INDUSTRIAL	# EMPL	FACTOR	AF/YR
FOOD PROCESSING=	0	31	0.00
PRINTING/ PUBLISHING=	0	0.6	0.00
		SUB TOTAL=	0.00
COMMERCIAL	# EMPL	FACTOR	AF/YR
OFFICE SPACE=	0	0.01	0.00
WAREHOUSE=	0	0.05	0.00
		SUB TOTAL=	0.00
PROPOSED USE TOTALS			
RESIDENTIAL=	0.00	AF/YR	
AGRICULTURAL=	5.25	AF/YR	
WINERY=	1.06	AF/YR	
INDUSTRIAL=	0.00	AF/YR	
COMMERCIAL=	0.00	AF/YR	
OTHER USAGE (LIST BELOW)			
		AF/YR	
		AF/YR	
		AF/YR	
		AF/YR	
		AF/YR	
TOTAL PROPOSED WATER USE=	2056631	G/YR	
TOTAL PROPOSED WATER USE=	6.31	AF/YR	

WATER AVAILABILITY CALCULATIONS FOR PROPOSED USE

WELL NUMBER	Q - GPM	AF/YR	ESTIMATED FLOW
1 (PROPOSED WELL ON WINERY PARCEL)	17	27.423	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	17	27.423	
SPRING NUMBER	Q - GPM	AF/YR	
1		0.000	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	0	0.000	
TANK #	GAL	AF	
1	15000	0.046	
2	5000	0.015	
3	5000	0.015	
4		0.000	
5		0.000	
TOTAL=	25000	0.077	
RESERVOIR #	GAL	AF	
1	4561603.2	14.000	
2	0		
3	0		
4	0		
5	0		
TOTAL=	4561603.2	14.000	
GROUND WATER RECHARGE	AF/YR/ACRE	PARCEL AC	AF/YR
ALLEY FLOOR ANNUAL RECHARGE RATE =	1.00	59.00	59.00
TOTAL WATER AVAILABLE = 19223899.20 G/YR			
TOTAL WATER AVAILABLE =		59.00	AF/YR
TOTAL PROPOSED WATER USE=		6.31	AF/YR
REMAINING AVAILABLE WATER =		52.69	AF/YR



CMP Civil Engineering & Land Surveying
1607 Capell Valley Road
Napa, CA 94558
(707) 815-0988
Cameron@CMPEngineering.com
CMPEngineering.com



Ground Water Recharge Analysis
 for the
Hendry Winery Well Property

Located at:
 APN: 0350-120-030, Redwood Road
 Napa, CA 94558

Date: 11/9/2017

Project # 00067

Legend

Requires Input

Automatically Calculates

Important Value Automatically Calculates

Important Value Requires Input

Hit ctrl+alt+shift+F9 when finished.

GROUND WATER RECHARGE CALCULATIONS

PARCEL VARIABLES

Parcel size =	35.26	ac
Average annual rainfall (P) =	29.00	in (from napa county RSS)
Total parcel average rainfall volume =	85.21	ac-ft/yr

EVAPOTRANSPIRATION (E)

Crop Type	Area (ac)	E (ac-ft)	
Vineyard =			
Orchard =			
Hay =			
Other Crops =			
Totals =	0.00	0.00	
Native plants area =	35.26	ac	
Native plants estimated coefficient =	0.35	coefficient	
Plant density =	90%	percent	
Native Plant Growth Cycle Factor =	0.70	factor	
Grass refernce ETo =	45.34	in (from Zone 8 ITRC value typ yr)	
Native plant ETc =	11.11	in	
Total annual native plant E =	29.38	ac-ft	
Total annual E for parcel =	29.38	ac- ft	

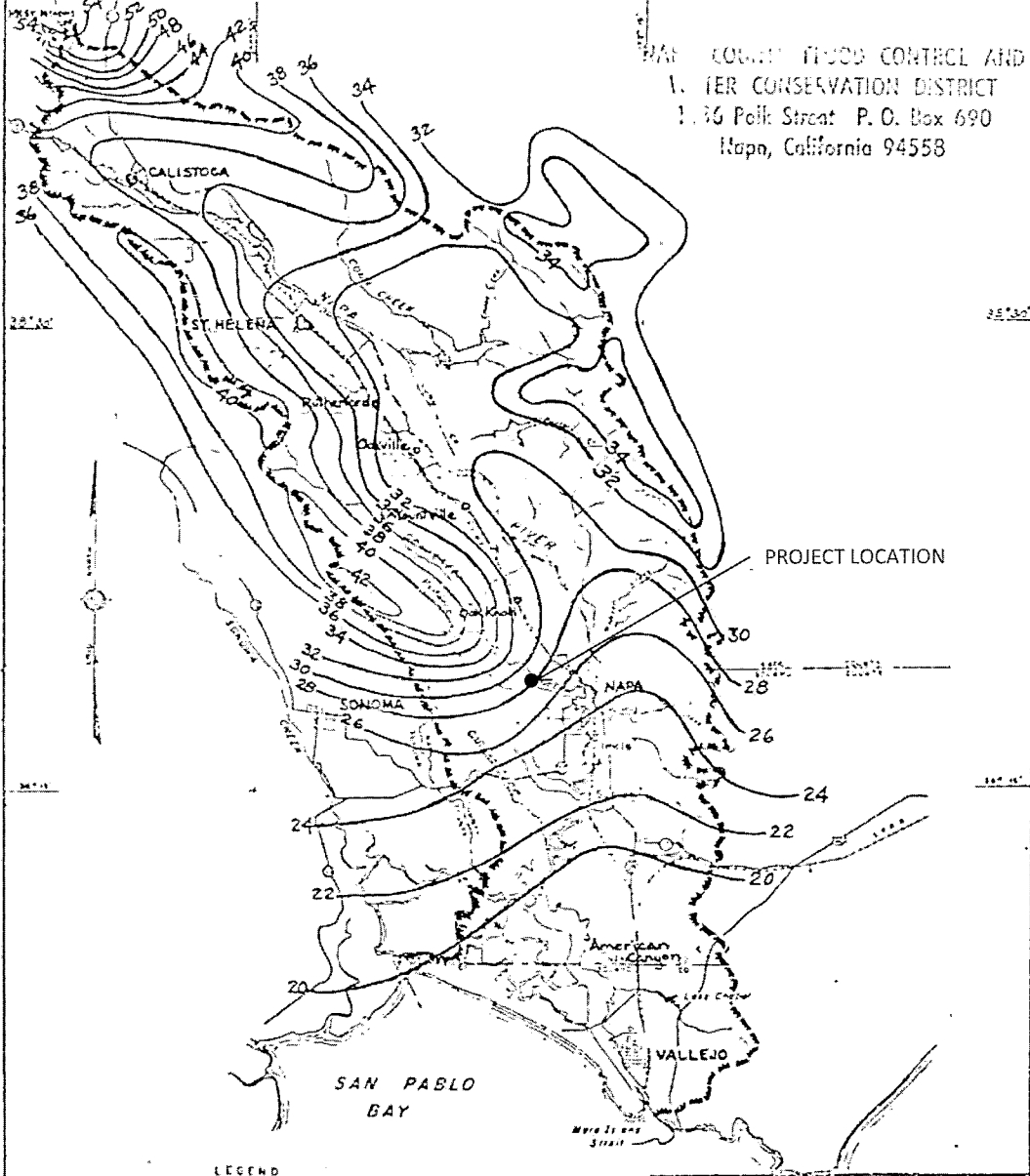
RUNOFF (R)

Average runoff relief coefficient =	24%	%
Average runoff soil coefficient =	7%	%
Average runoff vegetation coefficient =	5%	%
Average runoff surface coefficient =	8%	%
Total Runoff Coefficient =	44%	%
Average annual rainfall =	85.21	ac-ft
Runoff producing rainfall =	80%	%
Total Annual Runoff (R) =	29.99	ac-ft

ANNUAL GROUND WATER RECHARGE STORAGE (S) = P-(R+E)

Total Annaul Precipitation (P) =	85.21	ac-ft
Total Annual Runoff (R) =	29.99	ac-ft
Total Annual Evapotranpiration (E) =	29.38	ac-ft
Total Annual Ground Recharge (S) =	25.84	ac-ft
Annual Recharge Rate Per Acre =	0.73	ac-ft / yr / ac

NAPA COUNTY FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
136 Polk Street P. O. Box 690
Napa, California 94558



LEGEND

County Boundaries	---
U.S. Highways	—○—
State Highways	—○—
Railroads	—+—
Contours of Drainage Basin 100 feet in inches	—20—

REVIEW REPORT FOR FLOOD CONTROL
AND ALLIED PURPOSES
NAPA RIVER BASIN
HYDROLOGY AND HYDRAULIC
NORMAL ANNUAL
PRECIPITATION 1906-1956

117 SHEETS SHEET NO 2
U.S. ARMY ENGINEER DIST SAN FRANCISCO, CALIF.
DRAWN D. E. B. FILE NO.
TR-CEJ. TO ACCOMPANY REPORT
CHECKED W. B. T. DATED: FEB. 57

RUN-OFF PRODUCING CHARACTERISTICS OF WATERSHEDS SHOWING
FACTORS FOR EACH CHARACTERISTIC FOR VARIOUS WATERSHED TYPES

WATERSHED TYPES AND FACTORS				
Run-off Producing Features	Extreme	High	Normal	Low
Relief	0.28-0.36 Steep, rugged terrain, with average slopes above 30%.	0.20 - 0.28 Rolling, with average slopes of 10 to 30%.	0.14 - 0.20 Rolling, with average slopes of 5 to 10%.	0.08 - 0.14 Relatively flat land, with average slopes of 0 to 5%.
Soil Infiltration	0.12 - 0.16 No effective soil cover either rock or thin soil mantle of negligible infiltration capacity.	0.08 - 0.12 Slow to take up water; clay or shallow loam soils of low infiltration capacity imperfectly or poorly drained.	0.06 - 0.08 Normal; well drained light and medium textured soils sandy loams, silt, and silt loams.	0.04 - 0.06 High; deep sand or other soil that takes up water readily; very light, well drained soils.
Vegtal Cover	0.12-0.16 No effective plant cover; bare or very sparse cover.	0.08-0.12 Poor to fair; clean cultivation crops or poor natural cover; less than 20% of drainage area under good cover.	0.06-0.08 Fair to good; about 50% of area in good grassland or woodland; not more than 50% of area in cultivated crops.	0.04-0.06 Good to excellent; about 90% of drainage area in good grassland, woodland, or equivalent crop.
Surface	0.10-0.12 Negligible; surface depressions, few and shallow; drainageways steep and small; no marshes.	0.08 - 0.10 Low; well-defined system of small drainageways; no ponds or marsh.	0.06 - 0.08 Normal; considerable surface depression storage; lakes, ponds, and marshes	0.04 - 0.06 High; surface storage high; drainage system not sharply defined; large floodplain storage or large number of ponds or marshes.

THE RUNOFF FACTOR IS DETERMINED BY THE SUM OF THE FACTORS FOR RELIEF INFILTRATION, COVER, AND SURFACE. NOT APPLICABLE TO BUILT UP AREAS.

FIGURE 3



CMP Civil Engineering & Land Surveying
1607 Capell Valley Road
Napa, CA 94558
(707) 815-0988
Cameron@CMPEngineering.com
CMPEngineering.com



Water Availability Calculations
 for the
Hendry Winery Well Property

Located at:
 APN: 035-120-030, Redwood Road
 Napa, CA 94558

Date: 11/10/2015

Project # 00067

<u>Legend</u>
Requires Input
Automatically Calculates
Important Value Automatically Calculates
Important Value Requires Input

Hit ctrl+alt+shift+F9 when finished to recalc a

WATER AVAILABILITY ANALYSIS CALCULATIONS

WATER USE CALCULATIONS FOR EXISTING USE

RESIDENTIAL	#	FACTOR	AF/YR
PRIMARY RESIDENCES (Well)=	0	0.6	0.00
SECONDARY RESIDENCES (Well)=	0	0.25	0.00
FARM LBR DWELLING (# OF PPL) =	0	0.08	0.00
		SUB TOTAL=	0.00

NON- RESIDENTIAL CALCULATIONS

AGRICULTURAL	# ACRE	FACTOR	AF/YR
VINEYARD IRRIGATION ONLY=	0	0.2	0.00
VINEYARD HEAT PROTECTION=	0	0.25	0.00
VINEYARD FROST PROTECTION=	0	0.25	0.00
IRRIGATED PASTURE=	0	4	0.00
ORCHARDS=	0	4	0.00
LIVESTOCK (SHEEP/COWS)=	0	0.01	0.00
		SUB TOTAL=	0.00
WINERY	# GAL	FACTOR	AF/YR
PROCESS WATER=	0	NA	0.00
DOMESTIC AND LANDSCAPING=	0	NA	0.00
		SUB TOTAL=	0.00
INDUSTRIAL	# EMPL	FACTOR	AF/YR
FOOD PROCESSING=	0	31	0.00
PRINTING/ PUBLISHING=	0	0.6	0.00
		SUB TOTAL=	0.00
COMMERCIAL	# EMPL	FACTOR	AF/YR
OFFICE SPACE=	0	0.01	0.00
WAREHOUSE=	0	0.05	0.00
		SUB TOTAL=	0.00

EXISTING USE TOTALS

RESIDENTIAL=	0.00	AF/YR
AGRICULTURAL=	0.00	AF/YR
WINERY=	0.00	AF/YR
INDUSTRIAL=	0.00	AF/YR
COMMERCIAL=	0.00	AF/YR
OTHER USAGE (LIST BELOW)		
		AF/YR
		AF/YR
		AF/YR
		AF/YR
		AF/YR
TOTAL EXISTING WATER USE=	0	G/YR
TOTAL EXISTING WATER USE=	0.00	AF/YR

WATER AVAILABILITY CALCULATIONS FOR EXISTING USE

WELL NUMBER	Q - GPM	AF/YR	
1	17.9	28.875	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	17.9	28.875	
SPRING NUMBER	Q - GPM	AF/YR	
1		0.000	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	0	0.000	
TANK #	GAL	AF	
1	15000	0.046	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	15000	0.046	
RESERVOIR #	GAL	AF	
1	0.000	0	
2	0.000		
3	0.000		
4	0.000		
5	0.000		
TOTAL=	0.000	0	
GROUND WATER RECHARGE	AF/YR/ACRE	PARCEL AC	AF/YR
LC'D HILLSIDE ANNUAL RECHARGE RATE =	0.73	35.26	25.74
TOTAL AVAILABLE WATER =	8386768.15	G/YR	
TOTAL AVAILABLE WATER =	25.74	AF/YR	
TOTAL EXISTING WATER USE=	0.00	AF/YR	
REMAINING AVAILABLE WATER =	25.74	AF/YR	

WATER USE CALCULATIONS FOR PROPOSED USE			
RESIDENTIAL	#	FACTOR	AF/YR
PRIMARY RESIDENCES (Well)=	0	0.6	0.00
SECONDARY RESIDENCES (Well)=	0	0.25	0.00
FARM LBR DWELLING (# OF PPL) =	0	0.08	0.00
		SUB TOTAL=	0.00
NON- RESIDENTIAL CALCULATIONS			
AGRICULTURAL	# ACRE	FACTOR	AF/YR
VINEYARD IRRIGATION ONLY=	0	0.2	0.00
VINEYARD HEAT PROTECTION=	0	0.25	0.00
VINEYARD FROST PROTECTION=	0	0.25	0.00
IRRIGATED PASTURE=	0	4	0.00
ORCHARDS=	0	4	0.00
LIVESTOCK (SHEEP/COWS)=	0	0.01	0.00
		SUB TOTAL=	0.00
WINERY	# GAL	FACTOR	AF/YR
PROCESS WATER =	0	NA	0.00
DOMESTIC WATER =	0	NA	0.00
		SUB TOTAL=	0.00
INDUSTRIAL	# EMPL	FACTOR	AF/YR
FOOD PROCESSING=	0	31	0.00
PRINTING/ PUBLISHING=	0	0.6	0.00
		SUB TOTAL=	0.00
COMMERCIAL	# EMPL	FACTOR	AF/YR
OFFICE SPACE=	0	0.01	0.00
WAREHOUSE=	0	0.05	0.00
		SUB TOTAL=	0.00
PROPOSED USE TOTALS			
RESIDENTIAL=	0.00	AF/YR	
AGRICULTURAL=	0.00	AF/YR	
WINERY=	0.00	AF/YR	
INDUSTRIAL=	0.00	AF/YR	
COMMERCIAL=	0.00	AF/YR	
OTHER USAGE (LIST BELOW)			
		AF/YR	
		AF/YR	
		AF/YR	
		AF/YR	
		AF/YR	
TOTAL PROPOSED WATER USE=	0	G/YR	
TOTAL PROPOSED WATER USE=	0.00	AF/YR	

WATER AVAILABILITY CALCULATIONS FOR PROPOSED USE

WELL NUMBER	Q - GPM	AF/YR	
1	17.9	28.875	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	17.9	28.875	
SPRING NUMBER	Q - GPM	AF/YR	
1		0.000	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	0	0.000	
TANK #	GAL	AF	
1	15000	0.046	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	15000	0.046	
RESERVOIR #	GAL	AF	
1	0		
2	0		
3	0		
4	0		
5	0		
TOTAL=	0	0.000	
GROUND WATER RECHARGE	AF/YR/ACRE	PARCEL AC	AF/YR
ALLEY FLOOR ANNUAL RECHARGE RATE =	0.73	35.26	25.74
TOTAL WATER AVAILABLE =	8386768.15	G/YR	
TOTAL WATER AVAILABLE =	25.74	AF/YR	
TOTAL PROPOSED WATER USE=	0.00	AF/YR	
REMAINING AVAILABLE WATER =	25.74	AF/YR	

Test of Hendry Ranch Well

Date: 5/24/2000

Pump: Grainger 4P865

Pump Inlet: 162'

Horse Power: 1.5

Capacity: 27gpm @ 105' lift
20gpm @ 160' lift

Reservoir: 272" x 152"
rectangular tank
(179 gal/in)

Operator: Mike Hendry

Time	water height (in reservoir) (inches)	gallons	galons increase	gpm	depth to water (in well) (feet)
2:15					
2:45	8.25	1477			105
3:00	10.38	1857	380	25.4	128
3:15	12.50	2238	380	25.4	149
3:30	14.38	2573	336	22.4	154
3:45	16.38	2931	358	23.9	161
4:00	17.88	3200	269	17.9	161

depth to water stabalized so test was stopped

PETTIT & MARTIN
STEVEN G. MARGOLIN
101 California Street, 35th Floor
San Francisco, California 94111
Telephone: (415) 434-4000

ENDORSED

FILED MAR 27 1992

Attorneys for Petitioner
George Orr Hendry

(This is a true copy of the record. If it bears the seal, imprinted in purple ink, the date of issuance and an original signature.

Dated 3-27-92
Janice F. Norton, Court Executive
Officer Napa County, California



JANICE F. NORTON
COURT EXECUTIVE OFFICER
J. MILES

By J. F. Norton
Deputy

SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF NAPA

In the matter of the)	No. 23785
ESTATE OF)	ORDER AUTHORIZING PAYMENT
MARGARET MUNN HENDRY,)	OF STATUTORY ATTORNEYS'
Deceased.)	FEEES AND FOR FINAL
)	DISTRIBUTION ON WAIVER
)	OF ACCOUNT
)	HEARING DATE:
)	MARCH 20, 1992

Petitioner, George Orr Hendry, Executor of the Will of Margaret Munn Hendry, deceased, having filed his PETITION FOR PAYMENT OF STATUTORY ATTORNEYS' FEES AND FOR FINAL DISTRIBUTION ON WAIVER OF ACCOUNT, and the same coming on regularly to be heard this day,

THE COURT FINDS:

1. Notice of Hearing

Notice of hearing has been given as required by law.

2. Date of Death.

Decedent died testate on April 8, 1991, a

1 resident of the County of Napa, California.

2 3. Will Admitted to Probate; Letters Issued.

3 The decedent's Will dated August 23, 1972, was
4 admitted to probate by this Court's order dated May 21, 1991.
5 Letters Testamentary were issued to George Orr Hendry on May 22,
6 1991, and at all times since that date Petitioner has been, and
7 is now, the duly qualified personal representative of the estate.

8 4. Independent Administration of Estates Act.

9 Petitioner was granted independent authority to
10 administer this estate, and such authority has not been
11 revoked. Pursuant to this authority, Petitioner has performed
12 the following acts without Court approval:

13 Paid debts and funeral expenses of decedent; and

14 Paid taxes and assessments and expenses incurred in
15 the collection, care and administration of the estate.

16 No notice of any such action was required by the
17 Independent Administration of Estates Act.

18 5. Creditors' Claims.

19 Notice to Creditors has been regularly given as
20 required by law, and the time for filing claims has expired.
21 There were no known or reasonably ascertainable creditors of the
22 estate described in Probate Code §9050 to whom notice was
23 required to be sent. No claims have been timely filed in these
24 proceedings. Certain debts and funeral expenses were paid for
25 which no claims were filed. All such debts and funeral expenses
26 were justly due and paid in good faith. The amounts paid were
27 the true amounts over and above all payments or setoffs.

28 ///

1 6. Compliance with Probate Code §§9201 and 9202.

2 Notice to the Director of Health Services is not
3 required under Probate Code §9202, because decedent did not
4 receive any Medi-Cal benefits. The estate is not required to
5 notice any "public entity" described in Probate Code §9201.

6 7. Statement Re Conservatorship.

7 Decedent was not a conservatee; therefore, the
8 estate is not liable for assessment pursuant to Probate
9 Code §1851.5.

10 8. Character of Property.

11 All property of the estate was decedent's
12 separate property.

13 9. Inventory and Appraisement.

14 The Complete Inventory and Appraisement was filed
15 with this Court on February 21, 1992, showing assets with a
16 total value of \$1,472,566.41.

17 10. Prior Distributions.

18 There have been no prior distributions of the
19 assets of this estate.

20 11. Personal Property Taxes.

21 No personal property taxes are payable by the
22 estate.

23 12. Income Taxes.

24 All California and Federal income taxes due and
25 payable by decedent and estate have been paid or are adequately
26 secured. The certificate of the California Franchise Tax Board
27 required under §19263 of the Revenue and Taxation Code is on
28 file with this Court.

1 13. Federal and California Estate Tax.

2 Federal and California estate tax returns have
3 been filed and the amounts of taxes shown thereon have been
4 paid. The returns have not been audited. Although decedent's
5 Will provides for a proration of estate tax between the two
6 beneficiaries, Petitioner George Orr Hendry has personally paid
7 all estate taxes and has waived any rights to reimbursement from
8 this estate or from Andrew Munn Hendry.

9 14. Names and Residences of Heirs and Beneficiaries:

10 The names and addresses of those persons whose
11 interests in the estate are affected by this Petition are:

<u>Name and Address</u>	<u>Relationship</u>	<u>Age</u>
13 George Orr Hendry 14 3104 Redwood Road 14 Napa, CA 94558	Son	Adult
15 Andrew Munn Hendry 16 #17 - 53106 Range Road 264 16 Spruce Grove 17 Alberta, CANADA 17 T7X3G5	Son	Adult

18 15. Investment of Cash.

19 During the period of administration of this
20 estate, the Executor has invested in interest-bearing accounts
21 all cash on hand, except cash currently needed for the costs of
22 administration of the estate.

23 16. Waiver of Accounting.

24 The residuary beneficiary of this estate has
25 agreed to distribution of the assets without the requirement of
26 an accounting by the Executor. A Waiver of Accounting is on
27 file with this Court.

28 ///

1 17. Statutory Fees and Commissions.

2 A computation of statutory fees and commissions
3 is set forth on Exhibit A of the Petition on file with this
4 Court. Petitioner has waived his commission for his services as
5 Executor.

6 Petitioner has requested payment of \$25,876 to
7 Pettit & Martin as its statutory fee for ordinary legal services
8 rendered to Petitioner and to the estate.

9 18. No Reserve Requested.

10 Petitioner has agreed to assume liability for
11 payment of any additional taxes, expenses, or fees which may be
12 due from this estate and, therefore, requests complete and final
13 distribution of all assets of the estate, with no reserve to be
14 set aside.

15 19. Request for Special Notice.

16 No one has filed a Request for Special Notice.

17 IT IS THEREFORE, ORDERED, ADJUDGED AND DECREED THAT:

18 1. The administration of this estate be, and hereby
19 is, brought to a close, without the requirement of an accounting.

20 2. All of the acts and proceedings of Petitioner as
21 Executor be, and hereby are, confirmed and approved.

22 3. Petitioner be, and hereby is, directed and
23 authorized to pay to Pettit & Martin statutory fees in the
24 amount of \$25,876 for ordinary legal services to Petitioner and
25 to the estate.

26 4. Distribution of the estate in Petitioner's hands
27 and of any other assets not now known or to be discovered be, and
28 hereby is made to the persons entitled thereto, as follows:

1 In compliance with Article Third of decedent's
2 Will, all of decedent's jewelry, clothing, household furniture
3 and furnishings, personal automobiles and other tangible
4 articles of a household or personal nature in equal shares to
5 George Orr Hendry and Andrew Munn Hendry.

6 In compliance with Article Fourth, paragraph A,
7 of decedent's Will, to George Orr Hendry that real property
8 improved with a ranch house, commonly known as 3104 Redwood
9 Road, Napa, California, more fully described as:

10 Commencing at the most southern corner of the 42 acre
11 tract of land described in the deed to GEORGE ORR
12 HENDRY of record in book 749 of Official Records, page
13 298, Napa County Records; running thence along the
14 southwestern line of said 42 acre tract 1254 feet,
15 more or less, to the most western corner thereof;
16 thence northwesterly along the northeastern line of
17 the 140.54 acre tract of land described in the decree
18 terminating joint tenancy in the matter of the Estate
19 of G. W. HENDRY of record in book 218 of Official
20 Records, Page 464, said Napa County Records; 736 feet,
more or less; thence southwesterly along the
northwestern line of said 140.54 acre tract 1,450 feet
more or less to the centerline of Redwood Road; thence
southeasterly along the centerline of Redwood Road as
it exists on August 1, 1972, 2,025 feet, more or less,
to the southeastern line of said 140.54 acre tract;
thence northeasterly along the southeastern line of
said 140.54 acre tract 1,200 feet, more or less, to
the point of commencement. Containing 60 acres of
land, more or less.

21 APN 035-120-031

22 In compliance with Article Fourth, paragraph B,
23 of decedent's Will, to Andrew Munn Hendry that real property
24 located in the City and County of Napa, California, being a
25 portion of that property commonly known as 3104 Redwood Road,
26 more fully described as:

27 Commencing at the most southern corner of the 140.54
28 acre tract of land described in the decree terminating
joint tenancy in the matter of the Estate of G. W.

1 HENDRY, of record in book 218 of Official Records,
2 Page 464, Napa County Records: running thence along
3 the southwestern line of said 140.54 acre tract 2,038
4 feet, more or less, to the most western corner of said
5 140.54 acre tract; thence along the northwestern line
6 of said 140.54 acre tract 848 feet more or less to the
7 centerline of Redwood Road; thence southeasterly along
8 the centerline of Redwood Road as it exists on
9 August 1, 1972, 2,025 feet more or less, to the
10 southeastern line of said 140.54 acre tract; thence
11 southwesterly along said southeastern line of the
12 140.54 acre tract 839 feet more or less to the point
13 of commencement.

14 Excepting therefrom the .73 acre parcel of land
15 described in the deed to the City of Napa of record in
16 Book 626 of Official Records, Page 688, Napa County
17 Records.

18 Containing 39.78 acres of land, more or less.

19 APN 035-120-030

20 In further compliance with Article Fourth,
21 paragraph A, to George Orr Hendry the right to use any and all
22 water on the real property given to Andrew Munn Hendry, together
23 with any and all water improvements that George Orr Hendry may
24 construct on said property, for any use which George Orr Hendry
25 may in his absolute discretion determine, and the complete right
26 of entry to said property appropriate for the enjoyment of said
27 use.

28 In compliance with Article Fifth of decedent's
29 Will, the residue of decedent's estate, after payment of any
30 expenses or costs of administration, including but not limited
31 to the assets set forth below, to Andrew Munn Hendry:

32 Balance, if any, in C/A #00316-02155
33 Bank of America
34 Napa, California
35 (Current balance is approximately \$30,000, most
36 of which will be expended in payment of
37 attorneys' fees, accountants' fees and closing
38 costs of administration);

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

1,350 shares Value Line Income Fund;
877 shares Putnam Investors Fund;
2,312 shares Affiliated Fund;
400 shares Portland General Electric;
50 shares Bank of America;

Any additional dividend, shares or interest accrued since the date of death; and

Any other assets, whether now known or to be discovered.

Dated: 3/20/92

W. SCOTT SNOWDEN
Judge of the Superior Court

6834v