

Monday, February 25, 2013

Jeff Feeney

1094 Valley View  
Saint Helena, CA 94574

*TOM  
HERE IS THE  
TEST ON THE  
WELL WATER  
Paul  
760 934-5619*

RE: Lab Order: N020444  
Project ID: HOME OWNER'S 2

Collected By: CLIENT  
PO/Contract #:

Dear Jeff Feeney:

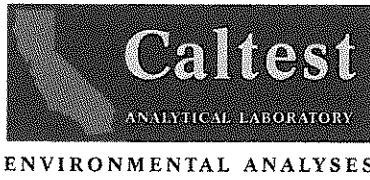
Enclosed are the analytical results for sample(s) received by the laboratory on Monday, February 11, 2013. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Enclosures

*Sara Fraley*  
Project Manager: Sara Elizabeth Fraley



**SAMPLE SUMMARY**

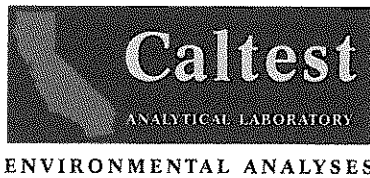
Lab Order: N020444

Project ID: HOME OWNER'S 2

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
N020444001	1000 MILLS LANE	Water	2/11/2013 12:30	2/11/2013 13:50





## NARRATIVE

Lab Order: N020444

Project ID: HOME OWNER'S 2

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### General Qualifiers and Notes

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Caltest authorizes this report to be reproduced only in its entirety. Results are specific to the sample(s) as submitted and only to the parameter(s) reported.

Caltest certifies that all test results for wastewater and hazardous waste analyses meet all applicable NELAC requirements; all microbiology and drinking water testing meet applicable ELAP requirements, unless stated otherwise.

All analyses performed by EPA Methods or Standard Methods (SM) 20th Edition except where noted (SMOL=online edition).

Caltest collects samples in compliance with 40 CFR, EPA Methods, Cal. Title 22, and Standard Methods.

Dilution Factors (DF) reported greater than '1' have been used to adjust the result, Reporting Limit (RL), and Method Detection Limit (MDL).

All Solid, sludge, and/or biosolids data is reported in Wet Weight, unless otherwise specified.

Filtrations performed at Caltest for dissolved metals (excluding mercury) and/or pH analysis were not performed within the 15 minute holding time as specified by 40CFR 136.3 table II.

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

ND - Non Detect - indicates analytical result has not been detected.

RL - Reporting Limit is the quantitation limit at which the laboratory is able to detect an analyte. An analyte not detected at or above the RL is reported as ND unless otherwise noted or qualified. For analyses pertaining to the State Implementation Plan of the California Toxics Rule, the Caltest Reporting Limit (RL) is equivalent to the Minimum Level (ML). A standard is always run at or below the ML. Where Reporting Limits are elevated due to dilution, the ML calibration criteria has been met.

J - reflects estimated analytical result value detected below the Reporting Limit (RL) and above the Method Detection Limit (MDL). The 'J' flag is equivalent to the DNQ Estimated Concentration flag.

E - indicates an estimated analytical result value.

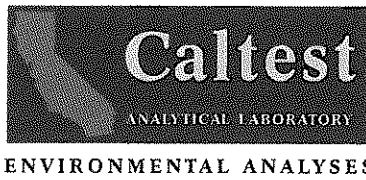
B - indicates the analyte has been detected in the blank associated with the sample.

NC - means not able to be calculated for RPD or Spike Recoveries.

SS - compound is a Surrogate Spike used per laboratory quality assurance manual.

NOTE: This document represents a complete Analytical Report for the samples referenced herein and should be retained as a permanent record thereof.





**ANALYTICAL RESULTS**

Lab Order: N020444

Project ID HOME OWNER'S 2

Lab ID: N020444001 Date Collected: 2/11/2013 12:30 Matrix: Water  
 Sample ID: 1000 MILLS LANE Date Received: 2/11/2013 13:50

Parameters	Result Units	R. L.	DF	Prepared	Batch	Analyzed	Batch	Qual
<b>pH, Electrometric Analysis</b>	<b>Analytical Method:</b> SM20-4500-H B					<b>Analyzed by:</b> CFG		
pH	7.6 pH Units		1			02/11/13 16:02	BIO 12128	
<b>Calculation, Hardness</b>	<b>Analytical Method:</b> Calculation					<b>Analyzed by:</b> LM		
Hardness Calculation	150 mg/L	0.5	1			02/14/13 00:00	CALC	
<b>Calculation, Total Anions</b>	<b>Analytical Method:</b> Calculation					<b>Analyzed by:</b> MYS		
Total Anions	4.5 meq/L		1			02/11/13 21:25	CALC	
<b>Calculation, Total Cations</b>	<b>Analytical Method:</b> Calculation					<b>Analyzed by:</b> LM		
Total Cations	4.5 meq/L		1			02/19/13 00:00	CALC	
<b>Metals Analysis by ICP</b>	<b>Prep Method:</b> EPA 200.2				<b>Prep by:</b> UK			
	<b>Analytical Method:</b> EPA 200.7					<b>Analyzed by:</b> LM		
Boron	0.29 mg/L	0.1	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
Calcium	33 mg/L	0.50	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
Iron	ND mg/L	0.05	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
Magnesium	16 mg/L	0.50	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
Manganese	0.49 mg/L	0.0050	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
Potassium	2.6 mg/L	1.0	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
Silica (as SiO2)	25 mg/L	1.0	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
Sodium	37 mg/L	1.0	1	02/13/13 00:00	MPR 11636	02/19/13 00:00	MIC 4037	
Zinc	0.33 mg/L	0.020	1	02/13/13 00:00	MPR 11636	02/14/13 00:00	MIC 4037	
<b>Metals Analysis by ICPMS</b>	<b>Prep Method:</b> EPA 200.8				<b>Prep by:</b> UK			
	<b>Analytical Method:</b> EPA 200.8					<b>Analyzed by:</b> SMD		
Arsenic	0.55 ug/L	0.50	1	02/12/13 00:00	MPR 11630	02/13/13 10:13	MMS 6689	
<b>Electrical Conductance Analysis</b>	<b>Analytical Method:</b> EPA 120.1 / SM2510B					<b>Analyzed by:</b> AS		
Conductivity	390 umhos/cm	10	1			02/19/13 11:00	WET 6944	
<b>Anions by Ion Chromatography</b>	<b>Analytical Method:</b> EPA 300.0					<b>Analyzed by:</b> MYS		
Chloride	9.5 mg/L	1	1			02/11/13 21:25	WIC 3948	
Fluoride	0.26 mg/L	0.1	1			02/11/13 21:25	WIC 3948	
Sulfate (as SO4)	13 mg/L	0.5	1			02/11/13 21:25	WIC 3948	
Nitrate, as NO3	ND mg/L	0.5	1			02/11/13 21:25	WIC 3948	
<b>Alkalinity, Total by Standard Methods</b>	<b>Analytical Method:</b> SM20-2320 B					<b>Analyzed by:</b> AS		
Alkalinity, Total (as CaCO3)	197 mg/L	10	1			02/12/13 14:58	WTI 2336	
Bicarbonate (as HCO3)	240 mg/L	12	1			02/12/13 14:58	WTI 2336	
Carbonate (as CO3)	ND mg/L	6.0	1			02/12/13 14:58	WTI 2336	
Hydroxide (as OH)	ND mg/L	1.7	1			02/12/13 14:58	WTI 2336	



ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
**WELL COMPLETION REPORT**  
Refer to Instruction Pamphlet

Page 1 of 1

Owner's Well No. Well #1-04

No. **e013584**

Date Work Began 6/9/2004 Ended 6/18/2004

Local Permit Agency Napa County Environmental Mgmt

Permit No. 96-12592 Permit Date 2/13/2004

OWNER USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/RS/OTHER

ORIENTATION (°)		DRILLING METHOD	FLUID	DESCRIPTION
VERTICAL HORIZONTAL ANGLE (SPECIFY)		ROTARY	BENTONITE	Describe material, grain, size, color, etc.
DEPTH FROM SURFACE	FL	TO	FL	
0	3			BROWN CLAY
3	40			SAND & GRAVEL
40	55			BROWN CLAY
55	60			SAND & GRAVEL
60	120			BROWN CLAY
120	140			SAND & GRAVEL
140	160			BROWN CLAY
160	220			SAND & GRAVEL
220	235			BROWN CLAY
235	300			SAND & GRAVEL
300	320			BROWN CLAY
320	350			SAND & GRAVEL
350	360			BROWN CLAY
360	380			SAND & GRAVEL
380	420			GREEN CLAY
420	440			GREEN SANDY CLAY
440	460			GREEN CLAY
460	520			GREEN SANDY CLAY
CONTINUED CASING LAYOUT				
300	320			BLANK PVC 6"
320	380			SCREEN PVC 6" .032 SLOT
380	400			BLANK PVC 6"

**WELL OWNER**

Name Quixote Winery

Mailing Address 6126 Silverado Trail CA 94558

Napa STATE CA ZIP 94558

CITY

**WELL LOCATION**

Address 584 Mills Lane

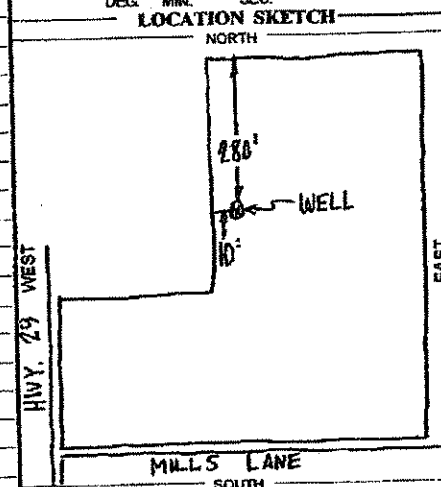
City St. Helena CA

County Napa

APN Book 09 Page 070 Parcel 33

Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_

Latitude \_\_\_\_\_



**ACTIVITY (✓)**

NEW WELL

**MODIFICATION/REPAIR**

Deepen

Other (Specify) \_\_\_\_\_

**DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")**

\_\_\_\_\_

**PLANNED USES (✓)**

**WATER SUPPLY**

Domestic  Public

Irrigation  Industrial

**MONITORING** \_\_\_\_\_

**TEST WELL** \_\_\_\_\_

**CATHODIC PROTECTION** \_\_\_\_\_

**HEAT EXCHANGE** \_\_\_\_\_

**DIRECT PUSH** \_\_\_\_\_

**INJECTION** \_\_\_\_\_

**VAPOR EXTRACTION** \_\_\_\_\_

**SPARGING** \_\_\_\_\_

**REMEDATION** \_\_\_\_\_

**OTHER (SPECIFY)** \_\_\_\_\_

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

**WATER LEVEL & YIELD OF COMPLETED WELL**

DEPTH TO FIRST WATER N/A (FL) BELOW SURFACE **1**

DEPTH OF STATIC WATER LEVEL 26 (FL) & DATE MEASURED 6/18/2004

ESTIMATED YIELD 75 (GPM) & TEST TYPE AIR LIFT

TEST LENGTH 3 (hrs.) TOTAL DRAWDOWN N/A (FL)

May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BORE HOLE DIA. (Inches)	CASING (S)							
		TYPE (✓)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)			
FL	TO	BLANK	SCREEN	CON-DUCTOR	FILL PIPE				
0	420	12							
420	520	9							
0	120		✓			PVC F480	6	SDR-21	
120	220			✓		PVC F480	6	SDR-21	.032
220	240			✓		PVC F480	6	SDR-21	
240	300				✓	PVC F480	6	SDR-21	.032

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
FL	TO	FL	TO	
0	65	✓		CONCRETE
65	400		✓	#5 SAND
400	520		✓	CUTTINGS

**ATTACHMENTS (✓)**

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analysis

Other \_\_\_\_\_

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

**CERTIFICATION STATEMENT**

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME HUCKFELDT WELL DRILLING

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

Address 2110 Penny Lane Napa CA 94559

CITY STATE ZIP

Signed [Signature] DATE SIGNED 06/25/04 439-746 C-57 LICENSE NUMBER

WELL DRILLER/AUTHORIZED REPRESENTATIVE

2261648