

“G”

CMP Engineering Water Availability Study



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



Water Availability Analysis & Report for the Carroll Property Rezoning

1055 Monticello Road

Napa, CA 94558

APN: 049-161-009

Prepared By:

CMP Civil Engineering & Land Surveying

1607 Capell Valley Road

Napa, CA 94558

(707) 815-0988

Date: 8/30/2017



 Aug 30, 2017

CMP Civil Engineering & Land Surveying - (707) 815-0988

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Owner Information	
Property Owner:	David and Betsy Carol
Owner Address:	1055 Monticello Rd Napa, CA 94558
Owner Phone:	(707) 861-8100

Site Map

Please see the attached site map for the Carroll property which has been included with this submittal. The said map shows the proposed water source (existing well) for the existing residences. The existing well does not serve the vineyard. The vineyard is irrigated from recycled water hauled in from the Napa Sanitation District.

Narrative

This project involves a property located in the Napa County MST groundwater deficient region. The subject property is 3.94 acres in size. It contains two residences and their associated landscaping along with several accessory buildings. It also contains 2.1 acres of vineyard encompassing 2,495 vines. There are two water systems on the property. Water system number one consists of an existing well and pump with a yield of 22 gpm. See attached well yield report in exhibit "B" and the well location map in exhibit "C". Said well serves potable water to the existing residences, accessory buildings and associated landscaping through a network of water pipes. Based on the calculations attached in exhibit "A", it is estimated that the annual water usage for water system number one is 1.05 acre feet per year. Comparing this to the allowable water use of 1.18 acre feet (3.94ac x 0.3 ac-ft/ac) in this ground water deficient area, one can see that the Carrols are below the allowable ground water use threshold for this parcel.

Water system number two is completely separate and disconnected from water system number one. System two consists of two 5000 gallon water tanks which are filled with recycled water hauled in by the owners from the Napa Sanitation District (NSD). To accomplish this the owners use a mobile 1000 gallon transfer tank. During peak the peak irrigation months the owners generally have to make about 21 trips to the NSD water source. This is usually accomplished in 4 – 8 days of part time hauling within a given month. Once the recycled water is delivered to the pair of 5000 gallon tanks it is then used to irrigate the 2.1 acres of vineyard via a pump and network of irrigation piping completely separate and disconnected from the first water system. Based on the calculations attached in exhibit "A" and supported by the NSD receipts located in exhibit "D" it is estimated that the subject vineyard is using 0.32 acre feet of recycled water per year. All of this water is provided by NSD thus it has no impact on the groundwater usage for this parcel of land.

In summary and based on the above narrative and attached supporting documents it is my professional opinion that the recent addition of the existing vineyard on the subject parcel has had no measurable impact on this parcels groundwater usage. It is expected that this will remain true as long as the said vineyard continues to be irrigated by NSD recycled water when irrigation is necessary.

Attachment “A”

Water Use Calculations



CMP Civil Engineering & Land Surveying
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Cameron@CMPEngineering.com
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Water Availability Calculations for the Carroll Property Rezoning

Located at:
1055 Monticello Road
Napa, CA 94558

Date: 8/30/2017

Project # 00096

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- PHASE ONE STUDY				
WATER USE CALCULATIONS PRIOR TO VINEYARD INSTALLATION				
RESIDENTIAL	#	FACTOR	AF/YR	
PRIMARY RESIDENCES=	1	0.75	0.75	
SECONDARY RESIDENCES=	1	0.3	0.30	
FARM LBR DWELLING (# OF PPL) =	0	0.06	0.00	
		SUB TOTAL=	1.05	
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	0.0000215	0.00	
DOMESTIC AND LANDSCAPING=	0	0.000005	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=	1.05	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		
		AF/YR		
TOTAL EXISTING WATER USE=	342120	G/YR		
TOTAL EXISTING WATER USE=	1.05	AF/YR		

WATER AVAILABILTY CALCULATIONS FOR EXISTING USE			
WELL NUMBER	Q - GPM	AF/YR	
1	22	35.489	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	22	35.489	
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	5000	0.015	
2	5000	0.015	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	10000	0.031	
RESERVOIR #	GAL	AF	
1	0.000		
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
assumed worst case recharge rate =	0.30	3.94	1.18
TOTAL AVAILABLE WATER =	385129.64	G/YR	
TOTAL AVAILABLE WATER =	1.18	AF/YR	
TOTAL EXISTING WATER USE=	1.05	AF/YR	
REMAINING AVAILABLE WATER =	0.13	AF/YR	

EXISTING WATER USE CALCULATIONS AFTER VINEYARD INSTALLATION				
RESIDENTIAL	#	FACTOR	AF/YR	
PRIMARY RESIDENCES=	1	0.75	0.75	
SECONDARY RESIDENCES=	1	0.3	0.30	
FARM LBR DWELLING (# OF PPL) =	0	0.06	0.00	
		SUB TOTAL=	1.05	
NON- RESIDENTIAL CALCULATIONS				
AGRICULTURAL	# ACRE	FACTOR	AF/YR	
VINEYARD IRRIGATION ONLY=	0	SEE IRRIG CALC	0.32	
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=	0.32	
WINERY	# GAL	FACTOR	AF/YR	
PROCESS WATER=	0	0.0000215	0.00	
DOMESTIC AND LANDSCAPING=	0	0.000005	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=	1.05	AF/YR		
AGRICULTURAL=	0.32	AF/YR		
WINERY=	0.00	AF/YR		
INDUSTRIAL=	0.00	AF/YR		
COMMERCIAL=	0.00	AF/YR		
OTHER USAGE (LIST BELOW)				
RECYCLED WASTE WATER =	-0.32	AF/YR		
		AF/YR		
		AF/YR		
		AF/YR		
		AF/YR		
		AF/YR		
TOTAL PROPOSED WATER USE=	342120	G/YR		
TOTAL PROPOSED WATER USE=	1.05	AF/YR		

WATER AVAILABILTY CALCULATIONS FOR PROPOSED USE			
WELL NUMBER	Q - GPM	AF/YR	
1	22	35.489	
2		0.000	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	22	35.489	
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	5000	0.015	
2	5000	0.015	
3		0.000	
4		0.000	
5		0.000	
TOTAL=	10000	0.031	
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
assumed worst case recharge rate =	0.30	3.94	1.18
TOTAL WATER AVAILABLE =	385129.64	G/YR	
TOTAL WATER AVAILABLE =	1.18	AF/YR	
TOTAL PROPOSED WATER USE=	1.05	AF/YR	
REMAINING AVAILABLE WATER =	0.13	AF/YR	



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Vineyard Recycled Water Use Calculations
for the
Carroll Property Rezoning

Located at:
1055 Monticello Road
Napa, CA 94558

Date: 8/30/2017

Project # 00096

EXISTING VINEYARD WATER USE CALCULATIONS

THE SUBJECT VINEYARD IS IRRIGATE SOLEY FROM WATER HAULED IN FROM A NAPA SANITATION DISTRICT RECYCLED WATER SOURCE. NO ONSITE GROUND WATER IS USED TO IRRIGATE THE SUBJECT VINEYARD. ALL VINEYARD WATER USE FIGURES BELOW ARE EXTRAPOLATED FROM THE HISTORICAL WATER HAULING RECORDS PROVIDED BY THE OWNERS

VINEYARD SIZE

ACRES OF VINEYARD =	2.1	AC
VINES PER ACRE =	1188.09	V/AC
TOTAL NUMBER OF VINES =	2495	VINES

IRRIGATION DATA

PEAK IRRIGATION MONTHS =	JUNE-AUG	MONTHS
NUMBER OF PEAK DAYS =	92	DAYS
OFF PEAK IRRIG. MONTHS =	MAY & SEP	MONTHS
OFF PEAK IRRIG. DAYS =	61	DAYS
DORMANT IRRIG. MONTHS =	OCT - APR	MONTHS
DORMANT IRRIG. DAYS =	212	DAYS
MAX PEAK WATER ON HAUL =	21400	GAL/MONTH
SHORTEST PEAK MONTH (JUNE) =	30	DAYS
PEAK DAILY IRRIG. WATER USAGE =	713.33	GAL/DAY
PEAK SINGLE VINE WATER USAGE =	0.29	GAL/DAY
TOTAL PEAK MONTHS WATER USE =	65626.67	GAL
TOTAL PEAK MONTHS WATER USE =	0.20	AC-FT
MAX OFF PEAK WATER ON HAUL =	19800	GAL/MONTH
SHORTEST OFF PEAK MONTH (SEP) =	30	DAYS
OFF PEAK DAILY IRRIG. WATER USAGE =	660.00	GAL/DAY
OFF PEAK SINGLE VINE WATER USAGE =	0.26	GAL/DAY
TOTAL OFF PEAK MONTHS WATER USE =	40260.00	GAL
TOTAL OFF PEAK MONTHS WATER USE =	0.12	AC-FT
DORMANT MONTHS WATER ON HAUL =	0	GAL/MONTH
SHORTEST DORMANT MONTH (FEB) =	28	DAYS
DORMANT DAILY IRRIG. WATER USAGE =	0.00	GAL/DAY
DORMANT SINGLE VINE WATER USAGE =	0.00	GAL/DAY
TOTAL DORMANT MONTHS WATER USE =	0.00	GAL
TOTAL DORMANT MONTHS WATER USE =	0.00	AC-FT

ANNUAL VINEYARD WATER USE SUMMARY

TOTAL PEAK MONTHS WATER USE =	0.20	AC-FT
TOTAL OFF PEAK MONTHS WATER USE =	0.12	AC-FT
TOTAL DORMANT MONTHS WATER USE =	0.00	AC-FT
TOTAL ANNUAL VINEYARD WATER USE =	0.32	AC-FT

Attachment “B”

Well Yield Reports



Well Drilling & Pump Service
878 El Centro Ave. Napa Ca, 94558
Office 707-255-6450
Fax 707-255-6489
Lic. #396352

WELL INSPECTION REPORT FOR:

Attn: First American Title/ Ferrah Garber Date of test: March 12th, 2013

Upon your request, we have checked the well and/or pressure system at
1055 Monticello Rd., Napa Ca, 94558

Our findings are as follows:

WELL INFORMATION

Casing Size: 8" steel well casing base on casing type well estimated to be from 1970's

Static Water Level: 54' from top of well casing at time of test

Well Depth: * 297' draw down during test: 163' from top of well casing

Total water draw down level at end of flow test 109' from top of well casing

How tested: Open discharge using existing pumping equipment in well

Well yield after test: 22 gallons per minute after 2 hours @ 163' pumping level

Well comments: * approximate measurements taken with well pump inside well.

Measurements may not be accurate.

Base on well test and data collected during flow test we estimated well to yield more water approx 30 gpm with a larger pump.

WELL EQUIPMENT INFORMATION

Pump Make: N/A HP: 2 Pump Setting: * 240' top of well casing approx)

Type: Submersible Voltage: 230 Pipe Size: 1 1/4" PVC drop pipe

Pump Model: N/A Phase: 1 Wire Size: submersible pump cable #10-3/ wg

Pressure tank: 2-Well Rite 85 gallon total volume (Dated 06-13-90)

Comments: Well pump controls are dated 1996. This may also be the date code for the pump install. Both pressure tanks that are dated 1990 are bad a will have to be replaced.

Pressure system plumbing is in galvanized and may need additional parts replaced when pressure tanks are replaced. No filtration was noticed during inspection.

* Approximate / estimated measurements. taken with well pump inside well

Measurements may not be accurate.

WELL TEST INFORMATION

<u>TIME:</u>	<u>WATER LEVEL:</u>	<u>GPM:</u>	<u>COLOR:</u>	<u>PUMP AMPS</u>
<u>03-12-2013</u>				
<u>09:05a.m.</u>	<u>54'</u>	<u>24</u>	<u>cloudy</u>	<u>12.0</u>
<u>09:15</u>	<u>105'</u>	<u>23</u>	<u>cloudy</u>	<u>12.0</u>
<u>09:25</u>	<u>126'</u>	<u>22</u>	<u>cloudy</u>	<u>12.0</u>
<u>09:35</u>	<u>145'</u>	<u>22</u>	<u>cloudy</u>	<u>12.0</u>
<u>09:45</u>	<u>155'</u>	<u>22</u>	<u>cloudy</u>	<u>12.0</u>

TIME:	WATER LEVEL:	GPM:	COLOR:	PUMP AMPS
09:55	159'	22	cloudy	12.0
10:05	161'	22	cloudy	12.1
10:15	161'	22	clear	12.1
10:25	162'	22	clear	12.0
10:35	162'	22	clear	12.1
10:45	162'	22	clear	12.1
10:55	162'	22	clear	12.1
11:05	162'	22	clear	12.1

22 gallons per minute is the final well yield after 2 hours of continuous pumping. The well yield results were limited by the size of the existing pump. A larger pump would be required to determine the actual well yield. All measurements were taken to the top of wellhead using an electronic water level indicator 1-1/10th of an inch measurement.

FILTRATION

No filtration equipment was noticed at the time of the inspection.

BACTERIAL

A bacteria sample was collected and taken to be analyzed. Please see results below. Water results show present for total Coliform and absent for E. Coli.

RECOMMENDATIONS

- 1-System is old and will require immediate repair for proper function of the system. The pressure tanks are bad and need to be replaced immediately to prevent potential failure of the controls or well pump due to short cycling approx cost \$ 1,688.80 (5 year warranty). Customer should be aware that equipment may need repair or replacement in the near future based on condition and pumps age (expectancy equip met life average 14 years).
- 2- Well should be shock chlorinated in an attempt to disinfect it from bacterial present. Well is disinfected by pumping heavy chlorine and water in to well. After 12-24 hours Contac hours chlorine is pump out of well a water sample is collected and taking to the lab 7 days later chlorination to be check for bacteria. Approx cost 450.00
- 3- Install a UV disinfection system and 5 micron paper filter for house water disinfection only at the house point of connection approx cost \$1,800.00 to 2,100.00 depending on location of unite and electrical to power UV.

FINAL COMMENTS

Please note that flow test results by McLean and Williams Inc. represents the well water yield and system condition for the time of the test only. Please call us or email if you have any questions.

Thank you, 

Gonzalo Salinas
McLean & Williams Inc.
Gonzalo.mwinc@sbcglobal.net

CUSTOMER #: C389
NAME: Carroll, Dave
STREET: 1055 Monticello Rd
CITY: Napa
WELL LOCATION:

HOME PHONE:
WORK PHONE:
OTHER PHONE:

McLEAN & WILLIAMS INC.
878 EL CENTRO AV.
NAPA CA 94558

COMMENTS:
May be able to yield 30gpm with bigger pump per flow test 4-12-13

WELL #: A P #:
CLASS: DEPTH: 297 (03-02-13)
CASING SIZE AND TYPE: 8" steel
CASING DEPTH:
PERF: SEAL:
STATIC LEVEL: 66' (10-21-14)
DRAWDOWN: 109' AFTER: 2hrs
YIELD: 22gpm TESTED:
TEST PIPE SETTING: Open Discharge
EQUIPMENT:
WELL DRILLED DATE:
WELL CLEANED DATE:
CLEANED WELL FROM:
BOOSTER PUMP: N/A
STORAGE TANK: N/A

PUMP MAKE: N/A
PUMP TYPE: Sumpersilble
PUMP MODEL N/A
H P: 2 VOLT 230 PH: 1
PUMP SERIAL #: N/A
WARRANTY: N/A
PUMP INSTALL DATE: 1996 (date on control box)
PUMP SETTING: N/A
CHECK VALVE(S): 1
PUMP SAVER: None
PIPE SIZE: 1 1/4 TYPE / SCH: PVC
WIRE: #10w/g
PRESSURE TANK: 2 Flexcon 85 gal
TANK INSTALL DATE: 4-14-13
OPEN DISCHARGE DATE: 4-12-13
LAB WORK B/T 4-12-13

BACKFLOW MAKE
BF SERIAL #:

PSI:
BF MODEL:

METER #:
BF SIZE:

LOCATION:

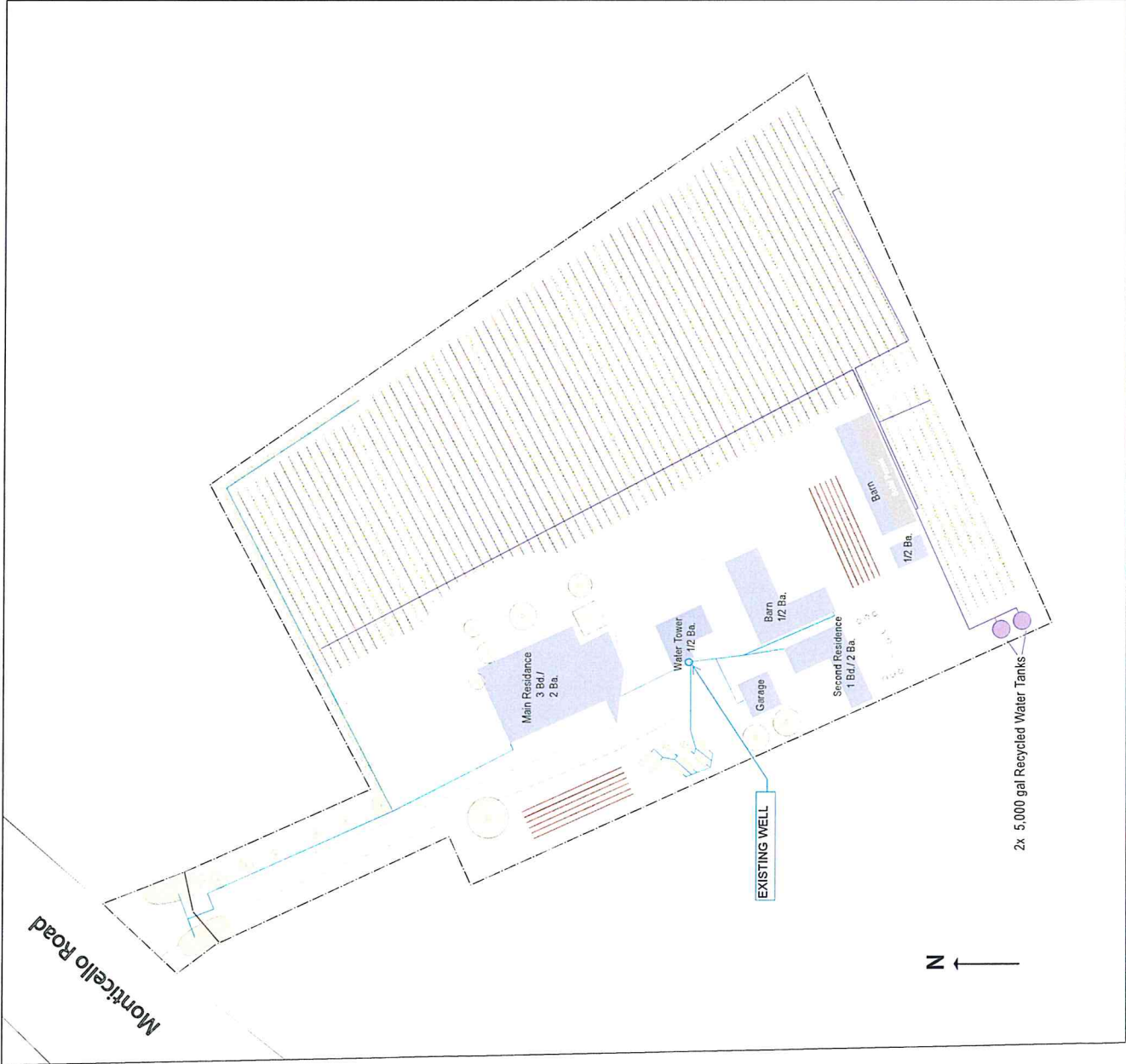
PURPOSE:
WELL LOG:

GENERAL INFORMATION:

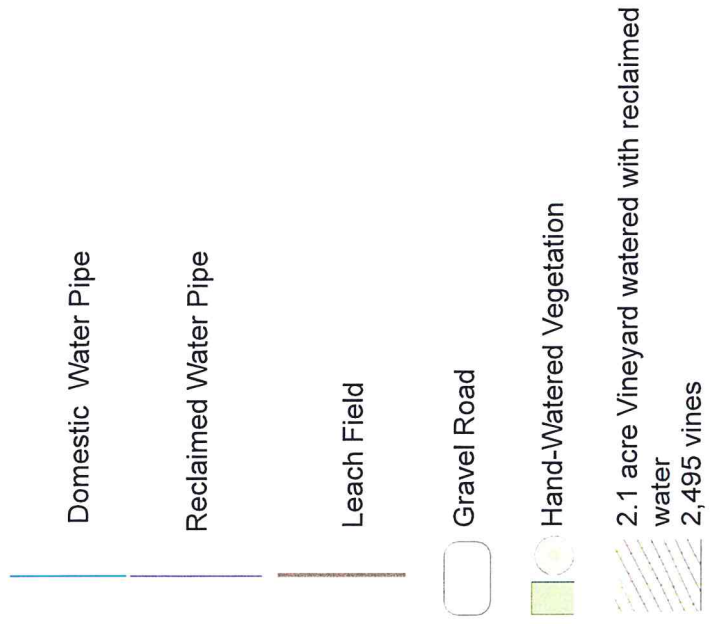
04-05-13 Flush well, connect to system, flush system, remove
temp water wagon & pump
04-12-13 Draw & deliver sample
04-14-13 Chlorinate well, connect 1000G water wagon & pump
to provide water during work
04-14-13 Install 2 new tank
4-8-14 Connect new water line to pressure system, replac gate
valve.
10-21-14 Check water level indicator, check pressure tanks. Install
copper air vent at well head.

Attachment “C”

Well Location Map



Dave and Betsy Carroll
 1055 Monticello Road Napa, California 94558
 Parcel #049-161-009-000
 3.94 ac.
 scale 1"=50'



Attachment “D”

**Napa Sanitation District
Documentation**

Napa Sanitation District

INVOICE

Invoice # 13832
 Account # C1146
 Date 06-30-2017
 Due By 06-30-2017
 Terms On Receipt

Napa Sanitation District
 1515 Soscol Ferry Road
 Napa, CA 94558

707-258-6032
 707-258-6048
 Dmannon@napasan.com

Bill To

David Carroll
 1055 Monticello Road
 Napa, CA 94558

Ship To

David Carroll
 1055 Monticello Road
 Napa, CA 94558

Code	Description	QTY	Rate	Amount
47110	Reclaimed Water - Peak - June 2017	21.4	\$1.62	\$34.67
Notes Due and payable upon receipt. Past due invoices are subject to a service charge of 1% per month.				
Payment Details				

Subtotal	\$34.67
Tax	\$0.00
Total	\$34.67
Balance Due	\$34.67

For questions contact Donell @ 707-258-6032 or dmannon@napasan.com

**NapaSan**

Napa Sanitation District
1515 Soscol Ferry Road
Napa, CA 94558

707-258-6032
707-258-6048
Dmannon@napasan.com

INVOICE

Invoice # I3625
Account # C1146
Date 03-31-2017
Due By 03-31-2017
Terms On Receipt

Bill To

David Carroll
1055 Monticello Road
Napa, CA 94558

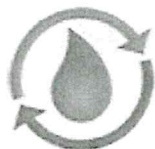
Ship To

David Carroll
1055 Monticello Road
Napa, CA 94558

Code	Description	QTY	Rate	Amount
47110C	Reclaimed Water - March	2.0	\$1.09	\$2.18
Notes				
Due and payable upon receipt. Past due invoices are subject to a service charge of 1% per month.				
Payment Details				

Subtotal	\$2.18
Tax	\$0.00
Total	\$2.18
Balance Due	\$2.18

For questions contact Donell @ 707-258-6032 or dmannon@napasan.com

**NapaSan**

Napa Sanitation District
1515 Soscol Ferry Road
Napa, CA 94558

Bill To

David Carroll
1055 Monticello Road
Napa, CA 94558

707-258-6032
707-258-6048
Dmannon@napasan.com

Ship To

David Carroll
1055 Monticello Road
Napa, CA 94558

INVOICE

Invoice # 13806
Account # C1146
Date 05-31-2017
Due By 05-31-2017
Terms On Receipt

Code	Description	QTY	Rate	Amount
47110	Reclaimed Water - Peak - May 2017	8.9	\$1.62	\$14.42
Notes				
Due and payable upon receipt. Past due invoices are subject to a service charge of 1% per month.				
Payment Details				

Subtotal	\$14.42
Tax	\$0.00
Total	\$14.42
Balance Due	\$14.42

For questions contact Donell @ 707-258-6032 or dmannon@napasan.com

TRUCKED RECYCLE WATER USE PERMIT

This use permit must be available for inspection at all times. The reclaimed water Distributor shall carry a copy in the tanker truck at all times and be prepared to present it to the producer (NSD) for water pickups.

USER/DISTRIBUTOR INFORMATION

NAME OF USER: David Canole PHONE: 831-818-2472

ADDRESS: 1055 Monticello Rd. CONTACT PERSON: _____

TRUCK SIZE, GALS. 1,000

NAME OF DISTRIBUTOR: _____ PHONE: _____
(IF DIFFERENT FROM USER)

ADDRESS: _____ CONTACT PERSON: _____

The recycled water available to User is located at the Napa Sanitation District Socal Plant. This water is dispensed through a high pressure line and hydrant (approximately _____ p.s.i.) The User shall use the hydrant with caution and at its own risk. User releases, holds harmless and indemnifies the District, its officers, officials, employees and agents from and against any and all injury or damages resulting from User's use of the subject hydrant and line.

TRUCK SIZE, GALS. 1,000

USER AND DISTRIBUTORS SHOULD FOLLOW THE ATTACHED GUIDELINES FOR WORKER PROTECTION

TYPE OF USE (check all that apply)

APPLICATION METHOD ☒ TRUCK ☐ SPRAY ☐ OTHER (DESCRIBE) _____

USE OF WATER: ☐ SOIL COMPACTION ☐ DUST CONTROL ☐ STREET CLEANING

☐ PESTICIDE DILUTION ☐ HERBICIDE DILUTION

☒ NONRESIDENTIAL LANDSCAPE ☐ OTHER (DESCRIBE) _____

WHERE APPLIED: ☒ CITY/COUNTY OF NAPA ☐ OTHER _____

PRODUCER INFORMATION (DISTRICT USE ONLY)

LEVEL OF TREATMENT: ☐ TERTIARY (2.2MPN)

CARD NUMBER(S) _____

VOLUME OF RECYCLED WATER AUTHORIZED PER DAY: _____ GALS.

FEE SCHEDULE:	DESCRIPTION	AMOUNT
	PERMIT FEE	\$50.00
		100.

CARD FEE (\$20.00 EACH, NONREFUNDABLE) _____

\$50 - 10/17 C/C #3512
\$50 - 17/18 7/3/17

TRUCKED RECYCLE WATER USE PERMIT

This use permit must be available for inspection at all times. The reclaimed water Distributor shall carry a copy in the tanker truck at all times and be prepared to present it to the producer (NSD) for water pickups.

USER/DISTRIBUTOR INFORMATION

NAME OF USER: David Carroll PHONE: 831-818-2472

ADDRESS: 1055 Monticello Rd. CONTACT PERSON: _____

TRUCK SIZE, GALS. 1000

NAME OF DISTRIBUTOR: _____ PHONE: _____

(IF DIFFERENT FROM USER)

ADDRESS: _____ CONTACT PERSON: _____

The recycled water available to User is located at the Napa Sanitation District Socal Plant. This water is dispensed through a high pressure line and hydrant (approximately _____ p.s.i.) The User shall use the hydrant with caution and at its own risk. User releases, holds harmless and indemnifies the District, its officers, officials, employees and agents from and against any and all injury or damages resulting from User's use of the subject hydrant and line.

TRUCK SIZE, GALS. 1000

USER AND DISTRIBUTORS SHOULD FOLLOW THE ATTACHED GUIDELINES FOR WORKER PROTECTION

TYPE OF USE (check all that apply)

APPLICATION METHOD ☒ TRUCK ☐ SPRAY ☐ OTHER (DESCRIBE) _____

USE OF WATER: ☐ SOIL COMPACTION ☐ DUST CONTROL ☐ STREET CLEANING

☐ PESTICIDE DILUTION ☐ HERBICIDE DILUTION

☒ NONRESIDENTIAL LANDSCAPE ☐ OTHER (DESCRIBE) _____

WHERE APPLIED: ☒ CITY/COUNTY OF NAPA ☐ OTHER _____

PRODUCER INFORMATION (DISTRICT USE ONLY)

LEVEL OF TREATMENT: ☐ TERTIARY (2.2MPN)

CARD NUMBER(S) _____

VOLUME OF RECYCLED WATER AUTHORIZED PER DAY: _____ GALS.

FEE SCHEDULE: DESCRIPTION
PERMIT FEE

AMOUNT
\$50.00

pot: 7/14/15 OK# 3454

CARD FEE (\$20.00 EACH, NONREFUNDABLE) _____