



March 25, 2020

Karl Bundesen
karl@bundesen.com

Re: Report of septic system evaluation at 3501 Middle Road in Petaluma, CA 94952
Assessor Parcel Number: 100-020-17

I conducted a septic system evaluation on March 25, 2020 at 12:00 p.m. I found the following:

Permit History

1. I researched online at the Marin County Environmental Health Department and couldn't find any septic record. I will follow up on researching when the county opens for business.

Site Observation

2. The septic tank and leach lines are approximately more than 100 feet away from the site water well and creek. I didn't see any drainage ditch or reservoir within 100 feet to the septic system. There isn't any obvious problem upon arrival such as surfacing sewage, odors, or recent construction in vicinity of the septic system. The house is vacant for approximately 3 months.

Septic Tank

3. The septic tank is located at the east side of the house, 14 feet away from the house and buried under 28 to 35 inches of soil cover without risers. The concrete septic tank is sized at 1200 gallons and has two compartments, inlet and outlet compartments. It was pumped by Felix Valencia from Vineyard Septic Service (707-477-0556) during my inspection. The wastewater level was normal which was at the invert of the outlet pipe prior to pumping. The concrete inlet and outlet baffles were in working condition. I didn't see a sewer cleanout in between the septic tank and house. I didn't see any evidence of past high liquid level, root intrusion or unexplained water flow such as leaking toilet in the septic tank. There is deterioration at the upper portion of the middle wall, which separates the inlet and outlet compartments, above the wastewater level; but a repair is not needed. Overall, the septic tank appeared to be in good structural condition without apparent leakage.

Leach Field

4. The leach lines were not exposed during my site visit. Therefore, the precise location, number of leach lines, and lengths of leach lines are unknown. I walked the approximate leach field based on information from the property owner. I observed and found neither sign of lush vegetation, green stripes, foul odor, wet area, nor past failure within and near the leach field. I also didn't find any erosion, cuts or fill near leach field, or vehicle paving over the leach field. I conducted a

hydraulic load test by adding approximately 150 gallons of water to the septic tank's outlet compartment which would run into the leach field. The wastewater inside the septic tank rose 0.75 inches (maximum rise is 3 inches) during the filling of water. The wastewater dropped to its original level within 11 minutes after the filling of water had stopped. There wasn't any sign of foul odor, wet area, or sewage surfacing during the test. Thus, this test is rated as satisfactory.

Reserve Area

5. There is a potential reserve area on the parcel, see attached area map. The type and size of the new septic system will depend on the current codes at the time of replacement.

Septic System Evaluation

6. The septic tank and leach lines are in functioning condition and found to be acceptable.

General Recommendations and Comments for All Septic Systems

7. The septic tank(s) should be pumped every 3-5 years to avoid solid from reaching and clogging the leach field.
8. It is important that food related grease and oils are placed in a jar or container for proper disposal and not drained into the septic tank as it can accelerate clogging to the leach field.
9. Recommended water uses:
 - a) The use of a garbage disposal is not recommended; minimize the use if you use garbage disposal.
 - b) The recommended washing machine should be a front loader or water saving top loader; use only full load, spread laundry loads throughout the week, and limit use of bleach-based detergents.
 - c) Please use gel determine dish washer because powdered detergent may add solid to the septic system.
 - d) Water softener should not be discharged into the septic system.
 - e) Large amount of water in bathtub may overload your septic system and heavy use of bath oils and soaps can impact biological activity in the septic system; avoid the uses of other appliances such as laundry machine when using the bathtub; limit amount of soils, soaps, and cleaners in bath or shower.
10. The use of chemical additives or biological additives to the septic tank are not recommended since they may be corrosive and can harm the septic tank or its normal biological processes. Studies show no significant positive effect associated with additives. (University of Minnesota Onsite Sewage Treatment Program, Manual for Septic System Professional in Minnesota, 7-41)
11. Baby wipe should not be disposed into the septic system.
12. If this report is submitted to the Sonoma County Well and Septic Section, it will require a floor plan attached to the report.
13. It is recommended that two risers should be installed on the septic tank for easy access, diagnose, and pumping.

This report describes the conditions of the septic system during the time of visit. Apex Septic Design staff has not been retained to warrant, guarantee, or certify the proper functioning of the septic system for any period of time in the future. Because of the numerous factors (usage, soil characteristics, previous failures, etc.) which may effect the proper operation of the septic system, this report shall not be construed as a warranty by our company that the system will function properly for any particular buyer. Tai Nguyen from Apex Septic Design DISCLAIMS ANY WARRANTY, either expressed or implied, arising from the inspection of the septic system or this report. We are also not ascertaining the impact the septic system is having on the environment. Because the leach lines were not exposed during the site visit, the precise location is unknown; thus the site map attached to this report only shows the approximate location of the leach lines. Apex Septic Design is not liable for the information or lack of information shown for the record documents attached to this report.

For further information or questions I can be reached at (707) 322-5827.

Respectfully,



Tai Nguyen
Registered Environmental Health Specialist #7177



Location of the Septic Tank









VINEYARD SEPTIC SERVICE

Septic Tank Pumping • 24 Hour Service

7600 Beth Court

Rohnert Park, CA 94928

(707) 795-5780 (707) 477-0556

Fax: (707) 795-1883

No. 9709

Date: 3-25-20

Name

Karl Bundesen

Address

3501 Middle Rd

City

Petaluma CA.

Phone

Cash	C.O.D.	Charge	On account
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DESCRIPTION	AMOUNT
<input checked="" type="checkbox"/> Pump Septic Tank PUMP 1200 GALLONS	
<input type="checkbox"/> Labor Septic	\$495.00
<input type="checkbox"/> Tank Locator	
<input type="checkbox"/> Pump Grease	
<input type="checkbox"/> Additional Charges 1 HR LABOR	
<input type="checkbox"/> Material For Digging UP 4'x5'	\$85.00
TOTAL	\$580.00

Paid on account

☒ Check #

☐ Cash

NOTICE: Under the Mechanics' Lien Law (California Code of Civil Procedure) any contractor, subcontractor, laborer, supplier, or other person who helps to improve your property but is not paid for his work or supplies has a right to enforce a claim against your property. This means that after a court hearing, your property could be sold by a court officer and the proceeds of sale used to satisfy your indebtedness. This can happen even if you have paid your own contractor in full, if the subcontractor, laborer, or supplier remains unpaid.

This company will not be held responsible for damage or breakage on property.
The owner assumes all responsibility.

Signature



Middle Rd

N



Middle Rd

1200-GAL
SEPTIC TANK

HOUSE

CREEK

AREA WALKED
AND OBSERVED

APPROXIMATE
LOCATION OF
LEACH FIELD
PER OWNER NOTE

POTENTIAL
RESERVE
AREA

6-7%

100'

