June 2, 2021

Re: Sewage Disposal System
Performance Evaluation
15479 State Route 1
A.P. # 119-060-33

Dear Friend LLC and to whom it may concern:

At your request, on 5/12/21 and 5/13/21 we evaluated the performance of the referenced septic system. The purpose of the evaluation is to help facilitate approval of the existing Tomales Bay Oyster Company’s quest to amend its use permit, and a Design review amendment and coastal permit.

History:

We previously conducted a performance evaluation of the system on 4/22/10 and 5/3/10. (see attached 2 page report to EHS dated 5/11/10 showing details) The septic tank, sump, pump, electrical panel and leach trenches were located and examined in detail at that time. A retroactive permit was issued for the existing 1200 gallon fiberglass septic tank on June 8th 2010 (permit # 10-57). A certificate of Inspection from EHS for the – Septic Tank (only) Permit was issued on July 28, 2010. (see attached)

Septic Tank/ Sump Tank and Control Panel:

The 1200 ± gallon fiberglass 2 compartment septic tank has ~ 30 inches of soil covering it and is fitted with 24 inch diameter PVC risers and a short section of concrete riser and iron lids. The 4" Sch. 40 ABS inlet tee was intact. The baffle wall separating the compartments was intact and the outlet pipe was fitted with an effluent filter in good condition. The 400 +/- gallon concrete sump tank is fitted with a 12 +/- inch concrete riser and a iron lid. No root intrusion was noticed in either of the tanks. There was normal signs of deterioration for their age. The septic tank and sump were not in need of cleaning. (The owners have them pumped clean routinely) The float tree was secured properly and the on/off and alarm float were functioning. All applicable components were checked and functioning. The Dose event counter read 17826 before testing and 17836 after. We measured the dose volume per cycle to be ~ 6 inches which = ~ 40 gal./dose. There is no Elapsed Time Meter in the Orenco Control Panel. The owners continue keeping records of the dose counter by reading it routinely.
Load and Dye Test:

Approximately 240 gallons of water and 8 ounces +/- of tracing dye was introduced into the sump tank over a period of 40 minutes. The liquid level in the septic tank before testing was even with the invert of the outlet suggesting that there are no leaks below the invert of the outlet pipe. No signs of malfunction or surfacing of effluent in the area of the septic tank, sump tank or leach field or down slope in the near by Tomales Bay were noticed before or one hour after the hydraulic load and dye test. I returned on the following day to check again for any signs of tracing dye and none were found. The result of the load test was passing with a rating of “Excellent.” (see inspection report attached)

Leach Field and Future Reserve Areas:

There are 2 leach trenches in total. Details of the leach trenches are described on the 2010 report. The owners installed non permanent parking barriers to keep vehicular traffic off the leach field as recommended. (see plot plan) The leach field and future reserve areas remain in nearly the same condition as it did when we evaluated them previously in 2010 with the exception that the picnic tables nearby are now removed.

Recommendations

The following should also be considered:

1. Care should be taken to not disrupt any of the existing disposal field or possible replacement areas with construction, plantings, irrigation, vehicular traffic or drainage work without first discussing these or similar issues with us or another qualified consultant.

2. Pump the septic tank and sump every 1 - 2 years or more often if needed.

3. Installing Ultra Low-flow toilets and other water saving devices/fixtures would be helpful in conserving water usage, if not already in place. Routinely check for leaking fixtures on a daily basis and correct immediately when necessary.

4. Rinse the effluent filter clean into the first compartment of the septic tank annually.

5. Never put toxic chemicals such as paints or flush large objects like cleaning wipes, sanitary napkins or diapers into the toilets or sinks.

6. The less food scrap waste put into the system the better, as it is harder for undigested food to break down in the septic tank. It is important that food related fats, oils and grease be disposed of properly in the home’s solid waste container and not drained into the septic tank as it can lead to premature clogging of the dispersal system.

7. We encourage you to hire a qualified service provider such as us for routinely monitoring the system as well as continuing the self monitoring of the dose meter counter in the control panel monthly to help keep records of usage.
Conclusion:

The system is showing normal signs of age but is still functioning properly and in acceptable condition and based on our observations and testing, we believe that, with proper use and maintenance, it can be expected to continue to operate satisfactorily for a period of time.

No warranty or guarantee is given regarding the future life expectancy or continued function of the onsite waste water sewage treatment and disposal system.

If you have any questions, please call.

Sincerely,

Rich Lincoln

Rich and Russ Lincoln
County of Marin
Environmental Health Services
3501 Civic Center
Room 236
San Rafael, CA 94903

Attn: Armando Alegria

Re: Tomales Bay Oyster Co.
15479 SR1
Marshall

May 11, 2010

Dear Armando:

The Tomales Bay Oyster Co. harvests, washes, sorts and sells oysters in the shell at the referenced location.

A picnic area is provided where some customers can shuck and consume oysters they have purchased. Six portable toilets are provided for customer use. Several faucets are located within the picnic area.

All harvesting and oyster wash/sorting is regulated by Fish & Game.

There is a small dwelling which houses a caretaker with an employee restroom attached.

The water supply is provided by hauling portable water to storage tanks. The existing well was abandoned and the system approved by Scott Callow.

Normally, about 8 employees work there but on peak days, a maximum of 15 may be working.

The estimated peak flow is:
15 workers x 15 g.p.d. = 225 g.p.d.
1 BR caretaker = 150 g.p.d.

with low-flow, 375 g.p.d. less 30% equals about 263 g.p.d. possible. Since the water supply is hauled, the actual use is expected to be less than that, say 200 g.p.d., maximum.

We conducted a performance evaluation of the system on 4/22/10 and 5/3/10. The septic tank, sump, pump, electrical panel and leach trenches were located and examined. The approximate location of all components are shown on the attached site plan provided by the owner with some features added by us.

The septic tank is a 1200 gallon fiberglass tank with a round concrete sump of about 4' in diameter. Both tanks are fitted with risers and bolted lids. Both tanks were tested for water tightness and found to be watertight after some grout work.
The pump was functioning properly with a short drawdown of about 3 inches, which is approximately 20 gallons per dose. A dose counter is being installed.

Due to the depth of the inlet of the sump, there is limited working capacity and storage. Additional storage is in the septic tank.

The septic tank is being fitted with an outlet filter, at our recommendation.

The leach field consists of two 45' long leach trenches, 4' deep, with 30" of gravel below the pipe. The soil is mixed fill of alluvial gravelly sand clay loam. Probing to the bottom of the trenches revealed minimal liquid at the bottom, less than 2 inches. The application rate on a peak day of 263 gallons with the 450 ft.³ of sidewall, would be about 0.584 gal./ft.³/day.

The tanks are located 40' from the approximate high tide level of Tomales Bay. The leach trenches are about 100' from the Bay and 35' to 45' from the adjacent creek.

There was no dye observed after the performance evaluation.

See the inspection report and sketches for more information.

The owner of the facility is as concerned about the quality of the bay water as you and I are. Every recommendation we have made has been carried out with complete cooperation.

It is my opinion that the system can accommodate the current use.

Self monitoring of the water use and reduced use during power outages should continue to insure that the system operates properly.

If you have any questions, please all.

Sincerely,

Rich Lincoln

cc. Tod Friend, T.B.O.C.
TO: Charles Friend  
PO Box 847  
Marshall, CA 94940  

In compliance with your request of 5/28/10 and subject to all of the terms, conditions and restrictions specified in Marin County Code Chapter 18.06 and the adopted “Regulations for Design, Construction and Repair of Individual Sewage Disposal System”:

<table>
<thead>
<tr>
<th>PERMISSION IS HEREBY GRANTED TO:</th>
<th>x Retroactive permit for existing fiberglass septic tank</th>
</tr>
</thead>
</table>

AND OPERATE AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM FOR: Tomales Bay Oyster Company located at 15479 State Route One, Marshall

ALL WORK TO BE DONE IN ACCORDANCE WITH PLANS ENTITLED: Partial Site Plan for Tomales Bay Oyster Co. by Rich Lincoln and Sons, plans received 5/28/10

### GENERAL REQUIREMENTS

| SEPTIC TANK: 1200 gallon capacity – fiberglass MUST BE U.P.C. APPROVED | DRAIN FIELD: Existing |
| SUMP: Existing | PUMP SPECS: Existing |

All work to be done in accordance with attached general provisions and/or the following special condition(s):

1. No construction until building permit for above residence is issued.
2. Owner to show proof of Workers’ Comp. or licensed contractor C-42, C-36, A-Engineer
3. See attached conditions and Environmental Health Services Construction Inspection Checklist.
4. A set of stamped, signed and approved plans must be on the job site at all times.
5. Two construction inspections are provided for with this permit. Any additional inspections after the first two are subject to the current inspection fee pursuant to Environmental Health Services fee resolution.

Preconstruction, construction and a final inspection of this system are required. A minimum of 48 hours advance notice must be given to schedule an inspection with staff in Environmental Health Services. For details of required inspections see Engineer/Consultant ‘Construction Inspection Schedule’.

**IMPORTANT:** This permit is valid for 24 months from the date of issuance. The permit shall become null and void under the following circumstances:

A. The work authorized has not commenced within two years after approval. The original permit may be extended for a 12 month period provided the permittee submits a written request. The request must be accompanied by a renewal fee pursuant to the current fee schedule for Environmental Health Services adopted by the Board of Supervisors. The request for an extension must be received prior to the original expiration date.

B. Construction of the approved system is commenced but subsequently abandoned for a continuous period of 90 days.

C. Construction of the approved system is not proceeding in accordance with the terms of approval.

cc: Rich Lincoln and Sons  

[Signature]

Armando C. Alegria, Supervising R.E.H.S.
July 28, 2010

PROPERTY OWNER(S):  
Charles Friend  
Tomales Bay Oyster Company, Inc.  
PO Box 847  
Marshall, CA 94950

PERMITTEE(S):  
Charles Friend

CERTIFICATE OF INSPECTION – SEPTIC TANK (ONLY) PERMIT  
NO. 10-57  AT  15479 State Route One, Marshall  
APN 119-060-33

A final inspection of the individual sewage disposal system authorized for the referenced address has been made to determine if all work has been performed in accordance with the permit issued pursuant to Marin County Code, Chapter 18.06. As all work was found to comply, this letter shall constitute the "Certificate of Inspection" specified in Marin County Code, Section 18.06.090.

The responsibility for the maintenance and operation for this system rests with the property owner. Any questions regarding operation, maintenance or repairs should be directed to this office.

Before any additional bedrooms may be added, contact Environmental Health Services.

It is highly recommended that the septic tank be pumped every three (3) to five (5) years (depending on use). This should help prolong the life of the system.

[Signature]
Armando C. Alegria, Supervising R.E.H.S  
Environmental Health Services

cc: Recorder  
Rich Lincoln and Sons
Residential On-Site Sewage Disposal System
INSPECTION REPORT

PROPERTY ADDRESS: 15479 STATE HWY 1, MAINE
ASSESSOR'S PARCEL NUMBER: 119-060-33
PROPERTY OWNER'S NAME: FRIEND LLC (Tomales Bay Oyster Company)
OWNER'S MAILING ADDRESS: PO BOX 847, MAIN, CA 94940
OWNER'S TELEPHONE NUMBER: 115-662-1242

INSPECTOR: [Signature] REHS 3135
INSPECTOR CREDENTIALS (E.G. COUNTY OF MARIN REGISTRATION NUMBER OR REGISTRATION, LICENSE TYPE, CERTIFICATION)

TO BE COMPLETED BY QUALIFIED INSPECTOR:

Records Check:
Residential Sewage Disposal Permit(s) located? [ ] YES [ ] NO
If yes, complete the following section.

System sized and permitted for how many bedrooms? NO. of Bedrooms: [ ] 1 + WORKERS

Type of system: [ ] STANDARD W/PUMP

Is there a designated replacement area (a.k.a. "fail-safe" area)? [ ] YES [ ] NO

Domestic water source (check one): [ ] Public [ ] Private Well [ ] Small Water System

Is residence currently occupied? [ ] YES [ ] NO

Comments regarding above information: [ ] POTABLE WATER IS BEING DELIVERED

Inspection Checklist: DATE OF INSPECTION: 6/10/21 & 6/10/22

Is system within 100' of a water body (creek, bay, wetlands, or reservoir)? [ ] YES [ ] NO

Obvious Problems Upon Arrival
Surfacing sewage, alarms sounding, odors, recent construction in vicinity of system? [ ] YES [ ] NO

If yes, explain:

Septic Tank(s)

Structural:

Tank(s) accessible? [ ] YES [ ] NO

Approximate septic tank capacity: (number of gallons) No. of gallons: 1200

Tank constructed of approved material? [ ] YES [ ] NO

Tank has risers? [ ] YES [ ] NO

Riser lids properly bolted? [ ] YES [ ] NO

Effluent screen missing? [ ] YES [ ] NO

Effluent screen needed cleaning? [ ] YES [ ] NO

Inlet/Outlet sanitary T's missing? [ ] YES [ ] NO

Internal baffle missing or in very poor condition? [ ] YES [ ] NO

Liquid level below invert of outlet? [ ] YES [ ] NO

*Contact EHS to verify if retrofitting risers and effluent screen is required.

Comments:

WHITE COPY – EHS YELLOW COPY – CONTRACTOR PINK COPY – OWNER
Is there evidence of root intrusion? | YES □ | NO □
Unexplained water flow into tank (e.g., leaking toilets)? | YES □ | NO □
Tank condition poor (damage, deterioration)? | YES □ | NO □
Side seepage, cracks, penetrations, or other evidence tank is not watertight? | YES □ | NO □
Is tank is in need of replacement? | YES □ | NO □

Note: Tanks made of unapproved material* cannot be repaired; must be replaced under permit.
*Redwood, metal, plastic, cinder block, etc.

Septic tank needs the following repairs:

Comments:

<table>
<thead>
<tr>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids &amp; liquid at high level?</td>
</tr>
<tr>
<td>Evidence of past high liquid level in tank or risers?</td>
</tr>
<tr>
<td>Excessive solids?</td>
</tr>
<tr>
<td>Blockages?</td>
</tr>
<tr>
<td>Washing machine, showers, tubs, sinks discharge to tank?</td>
</tr>
</tbody>
</table>

Comments:

Leaky fixtures noted? | YES □ | NO □ |
Tank in need of pumping? | YES □ | NO □ |
Was septic tank pumped as part of this inspection? | YES □ | NO □ |

Hydraulic Load Test and Dye Test (see our published guidelines)
Effluent from leachfield flows back into tank? | YES □ | NO □ |
Dye or discharge observed in any area (e.g., down slope, cut banks, nearby watercourses, ditches and storm drains)? | YES □ | NO □ |
Rate septic tank response to hydraulic loading (see page 5 for definitions):

<table>
<thead>
<tr>
<th>EXCELLENT</th>
<th>GOOD</th>
<th>SATISFACTORY</th>
<th>MARGINAL</th>
<th>POOR</th>
<th>FAILED</th>
</tr>
</thead>
</table>

Pumps & Dosing Siphons (if applicable)
Pump tank is accessible! | YES □ | NO □ |
Constructed of approved material! | YES □ | NO □ |
Material: **Concrete**
Pump tank has riser? | YES □ | NO □ |
Riser material: **Concrete**
Riser lids properly secured? | YES □ | NO □ |
Inlet sanitary T in place? | YES □ | NO □ |
Evidence of root intrusion? | YES □ | NO □ |
Side seepage, cracks, penetrations, or other evidence tank is not watertight? | YES □ | NO □ |
Pump tank is in need of replacement? | YES □ | NO □ |

Comments:

Expected effluent clarity? | YES □ | NO □ |
Signs of past pump failure, e.g., scum lines above normal operation? | YES □ | NO □ |
Pump effluent screen clogged? | YES □ | NO □ |
Wiring corrosion or cracked piping observed? | YES □ | NO □ |

Electrical
Extension cords utilized? | YES □ | NO □ |
Unsafe wiring? | YES □ | NO □ |

WHITE COPY – EHS  YELLOW COPY – CONTRACTOR  PINK COPY – OWNER
## Electrical continued...

<table>
<thead>
<tr>
<th>Description</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarms sounding/alarm light on/alarm light missing?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm float tested and found to be operational?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control Panel:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug-in type (hard wired):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If control panel is present, record data:

| Event Counter: | 5/12/21 17826 AND 17836 ARM Testing | Elapsed Time Meter: | N/A |

## Leachfield

<table>
<thead>
<tr>
<th>Description</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sewage effluent or dye observed on the surface of ground/overt signs of failure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall appearance questionable (erosion, newly made cuts/fill in area of leachfield)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Structures, parking, paving or vehicular traffic noted over portions of the septic system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Structures, parking, paving and/or vehicular traffic noted over portions of the designated reserve area</td>
<td></td>
<td></td>
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<tr>
<td>Area of the leachfield or downslope was observed to be nearly saturated and/or overgrown with hydrophilic vegetation</td>
<td></td>
<td></td>
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<tr>
<td>Odors discerned!</td>
<td></td>
<td></td>
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<tr>
<td>Discharge pipes of unknown origin?</td>
<td></td>
<td></td>
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<tr>
<td>Selective fertility (e.g. green stripes in lawn)?</td>
<td></td>
<td></td>
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</table>

If yes to any of the above questions, comment here: _There is some packing on one of the future designated reserve expansion areas, (see plot plan)_

<table>
<thead>
<tr>
<th>Description</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trench inspection ports available?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If yes, report measured depths from surface to water:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If groundwater monitoring wells are available, report measured depths to water:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is surface drainage and roof downspout system diverted away from absorption field?</td>
<td></td>
<td></td>
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<tr>
<td>Dual system?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diversion valve located, accessible and functional?</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

## Summary

Record any pumping, cleaning, or minor fixes to this system:

Record any necessary substantial repairs requiring a permit:

Inspector’s Signature: [Signature]

Date: 6/12/21

## Groundwater Section

Some inspections require the following information. This section is to be filled out by a Registered Civil Engineer (RCE) or Registered Environmental Health Specialist (REHS). Contact Marin County Environmental Health Services (415-499-6907) if you have questions.

<table>
<thead>
<tr>
<th>Description</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is adequate expansion area available?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Identify area on plot plan.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is this system in contact with groundwater?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inches from trench bottom to groundwater or evidence of seasonal saturation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments: **[Hand-Augered Bore hole between Leach Trenches to 78" with no cap/voice]**

RCE or REHS Signature: [Signature]

Date: 6/12/21

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WHITE COPY - EHS  YELLOW COPY - CONTRACTOR  PINK COPY - OWNER