

Tina Kotek, Governor

September 17, 2025

Antonio Verduzco

antonio@sotervineyards.com

Soter Vineyards

PO Box 430

Carlton, OR 97111

Letter sent via email only.

**Re: Well #1 ([YAMH53009](#)), well #2 ([YAMH59102](#)), three 4,000-gal tanks, one 20,000-gal tank, pressure tanks, and UV & cartridges for secondary treatment
Soter Vineyards (PWS ID# [95701](#))
Conditional Approval ([PR#19-2023](#))**

Dear Mr. Verduzco,

Thank you for the plan review information submitted to the Oregon Health Authority's Drinking Water Services (DWS) for the water system (described below) for Soter Vineyards, which is licensed and regulated by the Oregon Dept. of Agriculture.

On March 28, 2023, our office received a schematic and list of processes. A site plan and well log were submitted on February 27, 2023. A plan review fee of \$825 was received on February 16, 2023. At that time, the project included a well (well ID YAMH 53009), drilled to a depth of 280 feet in May of 2002, two 4,000 gallon storage tanks, several pressure tanks, Harmsco filters and UV (NSF-55 Class B) for which a [Site Plan Approval letter](#) was issued by our office (signed by Carrie Gentry) on April 21, 2023.



Since that time, a second "new well" constructed in 2022 (YAMH59102) is in use and has been added to this plan review. A third 4,000-gallon tank and one 20,000-gallon tank is also now added to this plan review.

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Exemption from engineered plans:

Under OAR 333-061-0060(1)(b), submittals must be prepared by a Professional Engineer registered in Oregon, unless exempted by DWS. An exemption was granted for this submittal. **Note that by utilizing this exemption, the water system takes full responsibility for the design of the project.**

Water system classification – TNC:

Located at 10880 NE Mineral Springs Rd, Carlton, OR 97111, the Soter Vineyard tasting room (<https://www.sotervineyards.com/>) located on Mineral Springs Ranch (MSR) was activated as a new transient non-community (TNC) water system on January 27, 2023 as shown on our website at: <https://yourwater.oregon.gov/inventory.php?pwsno=95701>. This TNC classification is based on the system serving an average daily population of 80 through 2 connections.

Project description:

The project now includes a review of pre-existing facilities consisting of:

- Two wells - SRC-AA “old well” #1 - [YAMH53009](#) (5-23-02 original construction log) & [YAMH53359](#) (5-12-03 recondition) and SRC-BA “new well” #2 - [YAMH59102](#) (9-21-22 original construction log),
- Three (3) 4,000-gallon buried concrete storage tanks,
- One (1) 20,000-gallon storage tank (tank #4) – fills tanks #1, #2, and #3,
- Four (4) 4.4-gallon NSF-61 Amtrol Well-X-Trol Model #WX-102 pressure tanks,
- Four (4) 4.8-gallon diaphragm NSF-61 Jet-Rite Model #PJR-15 pressure tanks,
- Five (5) 119-gallon NSF-61 WellMate Model #WM-35WB pressure tanks,
- Six (6) Viqua/Trojan UVMax Model #F4 NSF-55 Class B UV units with lamp #602807 (secondary treatment & not approved for total coliform or 4-log viral disinfection),
- One (1) Fleck 2510SXT Digital Control Water Softening System,
Various carbon and cartridge filters (secondary treatment & not approved for pathogen removal)

Waterlines located on private property fall under local plumbing code and were not included in this review.

This project has been assigned plan review #19-2023 and can be tracked online at: <https://yourwater.oregon.gov/planreview.php?pwsno=95701>.

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Other wells in the area:

There are several wells in the area as shown below, however, this review only covers the “old” and “new” wells as shown.



Any additional wells intended for public water system sources need to be constructed in accordance with the following standards.

- 1) Oregon Administrative Rule (OAR) 333-061-0050(2), viewable online at:
<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/OAR-333-061-0050.pdf#page=2> and
- 2) Oregon Water Resources Department (OWRD) general standards for the construction and maintenance of water wells in Oregon as prescribed in OAR chapter 690, divisions 200 through 220, viewable online at:
<https://www.oregon.gov/owrd/Documents/Ch%20690%20Div%20200;%2020230206.pdf>

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Well evaluation results – SRC-AA and SRC-BA:

The following two wells were evaluated by OHA-Drinking Water Services geologist, Tom Pattee:

- SRC-AA “old well” #1 - [YAMH53009](#) (5-23-02 original construction log) & [YAMH53359](#) (5-12-03 recondition) and
- SRC-BA “new well” #2 - [YAMH59102](#) (9-21-22 original construction log),

Both wells were determined by our geologist to be adequately constructed into confined aquifers and not highly sensitive to local land use practices. However, should chemical and/or bacteria monitoring results from the wells suggest that there is a pathway for contaminants originating at the surface to enter the aquifer system, the sensitivity of the aquifer characteristics will be re-evaluated. More details regarding the well evaluations is included at the end of this letter (see pages 12 and 16).



Water rights:

Water right requirements need to be met as administered by the Oregon Water Resources Dept (OWRD). Please contact Joel Plahn (cc'd on this letter) for more information regarding water right requirements for the intended use.

Joel Plahn
District 22 Watermaster
503-508-2394 (cell)
Joel.M.PLAHN@water.oregon.gov

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Nine (9) conditions to be met for Final Approval:

The system is granted Conditional Approval, which means that for Final Approval, the following nine (9) conditions will need to be met.

Note that the following conditions are required under our construction standards as indicated in the Oregon Administrative Rules (OAR) cited as follows:

[333-061-0050\(1\) - general requirements](#) (page 1)

[333-061-0050\(2\)\(a\) – groundwater wells](#) (page 2)

[333-061-0050\(6\)\(a\) – storage tanks](#) (page 20)

[333-061-0050\(10\) – disinfection of facilities](#) (page 24), and

[333-061-0061\(2\)\(b\) – requirements for technical capacity](#) (page 273)

These OARs are viewable online at:

<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/OAR-333-061-0050.pdf>

The nine (9) conditions are listed as follows:

OAR 333-061-0050(1) – General

1. ☐ **Materials** in contact with well water are designed for potable water service and **meet NSF Standard 61 (including the UV unit, cartridge filter & pressure tanks).**

OAR 333-061-0050(2)(a) – Groundwater Wells

2. ☐ **Ownership or easement requirements are met** as required under OAR 333-061-0050(2)(a)(B), which states as follows:

(B) The area within 100 feet of the well shall be owned by the water supplier, or a perpetual restrictive easement shall be obtained by the water supplier for all land (with the exception of public rights-of-way) within 100 feet of the well. The easement shall be recorded with the county in which the well is located and with the recorded deed to the property. A certified true copy shall be filed with the Authority.

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3. ☐ **Wells are protected from contamination from the roadway (located within 100-ft of the new well) and other hazards as listed in OAR 333-061-0050(2)(a)(E).** The information submitted did not show setbacks from the wells. Specifically, please provide a statement that there are no pressure sewer lines or septic drain fields within 50 feet of the well and no gravity sewer lines, or septic tanks within 100 feet of the well. Although a roadway appears to be located within 100 feet of both wells, since the wells are drilled into confined aquifers and located near a road, OAR 333-061-0050(2)(a)(D) applies. This rule allows DWS to waive the setback requirement for a road that is located within 100' of a well. To approve this setback issue, information must be submitted that demonstrates how the well is "...protected against contamination from surface runoff or hazardous liquids which may be spilled on the roadway and is protected from unauthorized access". More information about requesting waivers from construction standards is provided following this list of conditions.
4. ☐ **Raw water (pre-treatment) sample taps** are provided at each wellhead.
5. ☐ **Raw water samples** are taken from each well, including coliform bacteria, nitrate, and arsenic.

[OAR 333-061-0050\(6\)\(a\) – Storage tanks](#)

6. ☐ If the interior surface of the buried water storage tanks has a protective coating, the coating shall meet the requirements of NSF Standard 61: Drinking Water System Components - Health Effects or equivalent.
7. ☐ The buried storage tanks are equipped with:
 - a) a **watertight roof**;
 - b) An **access hatch** to permit entry to the interior for cleaning and maintenance. When the access hatch is on the roof of the tank there shall be a curbing around the opening and a **lockable watertight cover that overlaps the curbing**;
 - c) An **internal ladder** of durable material if the only hatch is on the roof;
 - d) **One or more screened vents** shall be provided above the highest water level to permit circulation of air above the water in the tank and exclude insects, birds, and rodents;
 - e) **A drain** shall be provided at the lowest point in the bottom of the tank;
 - f) **An overflow** of sufficient diameter to handle the maximum flow into the tank shall be provided at or near the top of the sidewall.

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- g) The **outlet ends of the drain and overflow shall be fitted with angle-flap valves** or equivalent protection and shall discharge to a watercourse or storm drain capable of accommodating the flow with a vertical separation between the bottom of the pipe and top of the receiving body or structure;
- h) A **siltstop** shall be provided at the outlet pipe;
- i) Where a single inlet/outlet pipe is to remain and the tank floats on the system, provisions shall be made to insure an **adequate exchange of water** and to prevent degradation of the water quality and to assure disinfection levels are detectable throughout the distribution system;
- j) A **fence or other method of vandal deterrence** shall be provided around the tank;

OAR 333-061-0050(10) – Disinfection of Facilities

- 8. ☐ New facilities such as a new well or existing facilities if modified are **disinfected, flushed, and tested** (coliform bacteria presence/absence test) following construction in conformance with OAR 333-061-0050(10).

OAR 333-061-0061(2)(b) – Requirements for Technical Capacity

- 9. ☐ The land use complies with local land use regulations and is approved by the local land use authority (e.g., City or Yamhill County planning dept.) as demonstrated in a Conditional Use Permit. Alternatively, the following form (provided as a linked pdf or a linked MS Word document) may be filled out and submitted to the local land use authority for their signature and then submitted to demonstrate this requirement.

- (b) Requirements for Technical Capacity.
- (A) The water system must comply with the local land use requirements of OAR 333-061-0062, including submission to the Authority of evidence of approval by the local land use authority.
 - (B) The water system must comply with plan submission and review requirements of OAR 333-061-0060, and plans submitted must comply with construction standards in OAR 333-061-0050.
 - (C) The owner of a new water system must demonstrate a valid water right permit as required and prescribed by the Oregon Water Resources Department (ORS chapter 537).
 - (D) The water system must submit initial water quality test results demonstrating compliance with applicable MCLs (OAR 333-061-0030), and applicable treatment requirements and performance standards (OAR 333-061-0032 and 0034).

Land Use Form  **PDF** or  **MSWord**

(These forms are also available on our website at:

<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Pages/index.aspx#landusestatement>)

OAR 333-061-0061(2)(b) also includes other requirements as shown below:




<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/RULES/Documents/pwsrules.pdf#page=273>

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Construction standard waiver process:

As provided under  [OAR 333-061-0055 \(end of page 26\)](#), Drinking Water Services may grant waivers from construction standards under some conditions (e.g., the absence of pressure tank bypass piping or an internal tank ladder). The construction standards waiver application is available as a  [fillable MS Word](#) or a  [PDF document](#) on our website at:

<https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Pages/index.aspx#wavier>

Steps needed to obtain Final Approval:

Until documentation showing how these conditions have been met, and Final Approval has been granted, the system is not approved for use.

To close out this project and request final approval, please fill out the Project Final Approval  [request form](#) and email it me at evan.e.hofeld@oha.oregon.gov along with any supplemental documentation showing how the above conditions have been met (be sure to reference Plan Review #19-2023 and public water system (PWS) ID #95701).

Supplemental documentation may include one or more of the following:

- ✓ Laboratory test results for arsenic, nitrate, and coliform bacteria from the wells.
- ✓ Photos of the
 - sample taps (pre- and post-treatment),
 - plans/schematics showing the tank inlet, outlet, and overflow piping,
 - the tanks showing the hatch open, closed, and locked as well as the overflow terminating in a flap valve and/or screen,
 - etc.
- ✓ A description of how new facilities were disinfected, flushed, and tested (coliform bacteria presence/absence test results) following construction in conformance with OAR 333-061-0050(10).

You may also find it helpful to refer to this guidance for assistance with disinfection:

<https://www.oregon.gov/oha/PH/HealthyEnvironments/DrinkingWater/Operations/Pages/shockchlorination.aspx>.

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Information contained on subsequent pages of this letter includes maps and photos of the water system along with:

- ✓ A general system description,
- ✓ Source information including:
 - An evaluation from our geologist for well #1 (SRC-AA – old well) and well #2 (SRC-BA – new well),
 - Well logs, and
 - Maps and photos of the wells,
- ✓ Photos of secondary treatment (UV and cartridge filters), and
- ✓ Storage tank and pressure tank information and photos.

If you have any questions, please feel free to email me at evan.e.hofeld@oha.oregon.gov or call me at 971-200-0288.

Sincerely,



Evan Hofeld, PE
Regional Engineer
Drinking Water Services

CC: Chris Fladwood, Soter Vineyards – chrisf@sotervineyards.com
Mitchell Alston, Oregon Vineyard Supply – mitchell.alston@ovs.com
Sarah Schwab, Oregon Dept of Agriculture (ODA) – Drinkingwater@oda.oregon.gov
Wyatt Faulkner, ODA - Wyatt.FAULKNER@oda.oregon.gov
Melissa Wong, Yamhill County Public Health - wongm@yamhillcounty.gov
Tommy Laird, Oregon Water Resources Dept. - Tommy.k.laird@water.oregon.gov
Travis Kelly, Oregon Water Resources Dept. - Travis.N.Kelly@water.oregon.gov
Joel Plahn, Oregon Water Resources Dept. - Joel.M.PLAHN@water.oregon.gov

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Description of facilities reviewed under Plan Review #19-2023

General water system description:

Soter Vineyard (<https://www.sotervineyards.com>) is classified as a transient non-community system, is licensed by the Oregon Dept of Agriculture and has been assigned public water system ID# 95701 as shown online at:

<https://yourwater.oregon.gov/inventory.php?pwsno=95701>

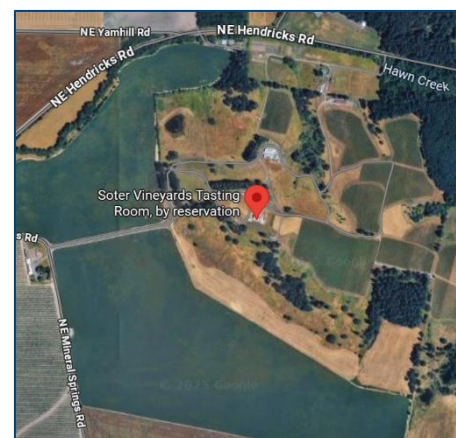
Located at 10880 NE Mineral Springs Rd, Carlton, OR 97111, the Soter Vineyard tasting room located on Mineral Springs Ranch (MSR) was activated as a new transient non-community (TNC) water system on January 27, 2023 as shown on our website at:

<https://yourwater.oregon.gov/inventory.php?pwsno=95701>.

This TNC classification is based on the system serving an average daily population of 80 through 2 connections.

The water system consists of:

- Two wells - SRC-AA “old well” #1 - [YAMH53009](#) (5-23-02 original construction log) & [YAMH53359](#) (5-12-03 recondition) and SRC-BA “new well” #2 - [YAMH59102](#) (9-21-22 original construction log),
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- One (1) 20,000-gallon storage tank (tank #4) – fills tanks #1, #2, and #3,
- Four (4) 4.4-gallon NSF-61 Amtrol Well-X-Trol Model #WX-102 pressure tanks,
- Four (4) 4.8-gallon diaphragm NSF-61 Jet-Rite Model #PJR-15 pressure tanks,
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- Six (6) Viqua/Trojan UVMax Model #F4 NSF-55 Class B UV units with lamp #602807 (secondary treatment & not approved for total coliform or 4-log viral disinfection),
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There are several wells in the area as shown below, however, this review only covers the “old” and “new” wells as shown below.

Wells in the area:



Old Well - YAMH 53009 - Log

New Well - YAMH 59102 - Log

YAMH 4933 - Log

YAMH 53008 - Log

Well information the old and new well gathering during a suvery conducted June 17, 2025 by the Oregon Dept. of Agriculture is shown at right.

| | | Well Information | | | |
|--|--|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|
| Source ID#: SRC- | | AA | | BA | |
| Source Name: | | Old Well | | New Well | |
| Well log available?* | | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| Well log ID (e.g., COLU123, L12345) | | L51957 | | L147380 | |
| | | Yes | No | Yes | No |
| Well active? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pitless adaptor? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ● Sanitary seal & casing watertight? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ● Raw water sample tap? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ● Treated water sample tap? <input type="checkbox"/> N/A | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ● If vented, properly screened? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ● Wellhead protected from flooding? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Concrete slab around casing? | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Casing height ≥12-in. above slab/grade? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Flowmeter? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pressure gauge? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pump to waste piping? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ● Well meets setbacks from hazards? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| If no, identify list of hazard(s) within the setback and the distance to the hazard..... | | <input type="text"/> | | Gravel road & pasture | |
| HAZARD: | | <input type="text"/> | | | |
| DISTANCE (ft.): | | <input type="text"/> | | 30-50' | |
| Protective housing? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If yes, does it have: | | | | | |
| Heat? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Light? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Floor drain? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Well pump removal provision? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Pump Type: (vertical turbine, submersible, centrifugal, shallow jet, deep jet) | | sub | | sub | |
| Bearing lubrication: (oil, or water)..... | | water | | water | |
| Pumping capacity (gpm)..... | | 60 | | 60 | |

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SRC-AA “Old” Well #1 L51957 Evaluation Results from OHA Geologist Tom Pattee

As Built Well Construction Evaluation for Plan Review and/or Setback Waiver:

Reviewed by: Tom Pattee, R. G.

Date: 03/09/2023

- ☒ Well/Spring meets current construction standards.
- ☐ WRD special construction standards, see well log or Comments.
- ☐ Well/Spring construction does not meet construction standards.
- ☐ Not sealed to appropriate depth. Recommended depth: _____
- ☐ Not appropriate seal materials
- ☐ Open to more than one aquifer
- ☐ Seal info missing or unknown
- ☐ Seal not constructed properly (☐ Insufficient sealant volume ☐ Insufficient annular space)
- ☐ Susceptible construction, but grandfathered source. Consider for reconstruction if nitrate $\geq 5\text{mg/L}$ or confirmed *E. coli* at source.
- ☐ Susceptible well construction, **not approved for use.**



Comments: This well was drilled to a depth of 280 ft and is cased to a depth of 102 ft. The casing seal extends to a depth of 100 ft, 11 ft into a low permeability sandstone that overlies the aquifer. A perforated liner was placed in the well to help keep the borehole open below the casing. A year later the well was reconditioned and the liner was replaced with a screened liner and sand filter pack. Water enters the well through the uncased portion of the well between 102 and 280 ft below ground. Sensitivity Analysis results suggest that well construction does not contribute to the overall sensitivity of this water source to local land use practices.

Nature of Aquifer Evaluation:

Aquifer Nature: ☒ Confined aquifer ☐ Semi-confined aquifer ☐ Unconfined aquifer

Comments: This well draws water from a deep confined sandstone aquifer. The water-bearing layer within the sandstone occurs at a depth of 154 ft and is overlain by 65 ft of sandstone of low permeability that acts as a confining layer. Water within the water-bearing sandstone layer is under pressure, rising 80 ft above the water-bearing zone to a depth of 74 ft below ground. Sensitivity Analysis results, at this time, suggest that the aquifer characteristics are not highly sensitive to local land use practices. However, no monitoring results are on record as of 03/08/2023. Should chemical and/or bacteria monitoring results suggest that there is a pathway for contaminants originating at the surface to enter the aquifer system, the sensitivity of the aquifer characteristics will be re-evaluated.

Link to WRD Well Mapping Tool:

https://apps.wrd.state.or.us/apps/gw/well_log/wl_details.aspx?wl_id=320351

Link to GoogleMaps:

<https://maps.app.goo.gl/d59Tsva2ij6km7ym6>

Link to Well Logs:

YAMH53009 (2002 original construction log)

https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=YAMH&wl_nbr=53009

YAMH53359 (2003 recondition)

https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=YAMH&wl_nbr=53359

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SRC-AA – Old Well #1 - [YAMH53009](#) (2002 original construction log) – [L51957](#)

| YAMH 53009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|--|-----------|---------------|----------------|--------------|----------------|--------------|---------|----------|---------|---------|-------|--|---------|---|--|----|----------|------|---------|--------------|----------|----|-----|--|-----------------------------|------|----|---------------|----------------------------------|----|----|---|-----------------------------|-----|-----|----|-------------------------------|--|--|--|----------------------------------|-----|-----|----|-----------------|-----|-----|--|
| State of Oregon WATER WELL REPORT (as required by ORS 537.765) | | State Well ID L51957 Start Card # 145269 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) OWNER: TONY SOTER Name: TONY SOTER Address: POB 21 City: OAKVILLE St CA Zip 94562 | | (9) LOCATION OF WELL by legal description: County YAMHILL Lat. " " " " Long. " " " Township 3 S Range 4 W NW. Section 23 SE 1/4 NE 1/4 Tax Lot 1400 Lot Block Subdivision Street Address of Well (or nearest Address) X FROM 1075 MINERAL SPRINGS RD CARLTON, OR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) TYPE OF WORK: NEW WELL | | (10) STATIC WATER LEVEL: 91 ft. below land surface. Date 05/23/02 Artesian pressure _____ lb per square in. Date _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (3) DRILL METHOD: ROTARY AIR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (4) PROPOSED USE: DOMESTIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (5) BORE HOLE CONSTRUCTION: Special Construction Approval NO _____ Depth of Compl. Well 280 ft Explosives used NO _____ Type _____ Amount _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">HOLE</th> <th colspan="2">SEAL</th> <th colspan="2"></th> </tr> <tr> <th>Diam.</th> <th>From To</th> <th>Material</th> <th>From To</th> <th>Amount</th> <th></th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0 100</td> <td>BENTONITE CHIP</td> <td>0 26</td> <td>21</td> <td>SAX</td> </tr> <tr> <td>6</td> <td>100 280</td> <td>CEMENT W/GEL</td> <td>26 100</td> <td>24</td> <td>SAX</td> </tr> </tbody> </table> Seal placement method C AND POURED Backfill: from _____ ft to _____ ft Material _____ Gravel: from _____ ft to _____ ft Size _____ | | HOLE | | SEAL | | | | Diam. | From To | Material | From To | Amount | | 10 | 0 100 | BENTONITE CHIP | 0 26 | 21 | SAX | 6 | 100 280 | CEMENT W/GEL | 26 100 | 24 | SAX | (11) WATER BEARING ZONES: Depth at which water was first found 59 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From</th> <th>To</th> <th>Est Flow Rate</th> <th>SWL</th> </tr> </thead> <tbody> <tr> <td>59</td> <td>60</td> <td>2</td> <td>NM</td> </tr> <tr> <td>154</td> <td>257</td> <td>60</td> <td>91</td> </tr> </tbody> </table> | | From | To | Est Flow Rate | SWL | 59 | 60 | 2 | NM | 154 | 257 | 60 | 91 | | | | | | | | | | | |
| HOLE | | SEAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diam. | From To | Material | From To | Amount | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 0 100 | BENTONITE CHIP | 0 26 | 21 | SAX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 100 280 | CEMENT W/GEL | 26 100 | 24 | SAX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From | To | Est Flow Rate | SWL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59 | 60 | 2 | NM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 154 | 257 | 60 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (6) CASING/LINER: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Diam.</th> <th>From To</th> <th>Gauge</th> <th>Material</th> <th>Connection</th> </tr> </thead> <tbody> <tr> <td>Casing 6</td> <td>+2 102</td> <td>.25</td> <td>STEEL</td> <td>WELDED</td> </tr> <tr> <td>Liner 4</td> <td>0 280</td> <td>SDR26</td> <td>PLASTIC</td> <td>WELDED</td> </tr> </tbody> </table> Final Location of shoe(s) 102 | | Diam. | From To | Gauge | Material | Connection | Casing 6 | +2 102 | .25 | STEEL | WELDED | Liner 4 | 0 280 | SDR26 | PLASTIC | WELDED | (12) WELL LOG: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Material</th> <th>From</th> <th>To</th> <th>SWL</th> </tr> </thead> <tbody> <tr> <td>TOP SOIL</td> <td>0</td> <td>5</td> <td></td> </tr> <tr> <td>CLAY, BROWN/RED W/SOME SAND</td> <td>5</td> <td>24</td> <td></td> </tr> <tr> <td>SANDSTONE, RED, WEATHERED W/CLAY</td> <td>24</td> <td>89</td> <td></td> </tr> <tr> <td>SANDSTONE, GRAY, FINE GRAIN</td> <td>89</td> <td>154</td> <td></td> </tr> <tr> <td>SANDSTONE, GRAY, MEDIUM GRAIN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>STRATIFIED WITH COARSE SANDSTONE</td> <td>154</td> <td>257</td> <td>91</td> </tr> <tr> <td>CLAYSTONE, GRAY</td> <td>257</td> <td>280</td> <td></td> </tr> </tbody> </table> | | Material | From | To | SWL | TOP SOIL | 0 | 5 | | CLAY, BROWN/RED W/SOME SAND | 5 | 24 | | SANDSTONE, RED, WEATHERED W/CLAY | 24 | 89 | | SANDSTONE, GRAY, FINE GRAIN | 89 | 154 | | SANDSTONE, GRAY, MEDIUM GRAIN | | | | STRATIFIED WITH COARSE SANDSTONE | 154 | 257 | 91 | CLAYSTONE, GRAY | 257 | 280 | |
| Diam. | From To | Gauge | Material | Connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Casing 6 | +2 102 | .25 | STEEL | WELDED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner 4 | 0 280 | SDR26 | PLASTIC | WELDED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material | From | To | SWL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOP SOIL | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLAY, BROWN/RED W/SOME SAND | 5 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SANDSTONE, RED, WEATHERED W/CLAY | 24 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SANDSTONE, GRAY, FINE GRAIN | 89 | 154 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SANDSTONE, GRAY, MEDIUM GRAIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STRATIFIED WITH COARSE SANDSTONE | 154 | 257 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLAYSTONE, GRAY | 257 | 280 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (7) PERFORATIONS/SCREENS: <input checked="" type="checkbox"/> Perf. Method ELECTRIC SAW <input type="checkbox"/> Screens Type _____ Material _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From</th> <th>To</th> <th>Slot Size</th> <th>Number</th> <th>Diam.</th> <th>Tele/pipe Size</th> <th>Casing/liner</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>280</td> <td>.1X7"</td> <td>72</td> <td></td> <td></td> <td>LINER</td> </tr> </tbody> </table> | | From | To | Slot Size | Number | Diam. | Tele/pipe Size | Casing/liner | 20 | 280 | .1X7" | 72 | | | LINER | DAVE PAYSINGER, BLUE WATER DRILLING CO. (503) 868-7878 Date started 05/22/02 Completed 05/23/02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From | To | Slot Size | Number | Diam. | Tele/pipe Size | Casing/liner | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 280 | .1X7" | 72 | | | LINER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (8) WELL TESTS: Minimum testing time is 1 hour Test type AIR <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Yield GPM</th> <th>Draw-down</th> <th>Drill stem at</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>60</td> <td></td> <td>280</td> <td>1 hr.</td> </tr> <tr> <td>60</td> <td></td> <td>260</td> <td>2</td> </tr> </tbody> </table> Temperature of water 54F Depth Artesian Flow Found _____ Was water analysis done? YES By whom BMD Reason for water not suitable for use MINERAL/MUDDY Depth of strata 59 | | Yield GPM | Draw-down | Drill stem at | Time | 60 | | 280 | 1 hr. | 60 | | 260 | 2 | (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief. Signed _____ WWC Number _____ Date _____ (bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief. Signed <i>David P. Paysinger</i> WWC Number 1438 Date 05/23/02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yield GPM | Draw-down | Drill stem at | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | 280 | 1 hr. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | 260 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT | | SECOND COPY - CONSTRUCTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | THIRD COPY - CUSTOMER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 9809C 10/91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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WATER RESOURCES DE
SALEM, OREGON

800 NE Oregon St., Ste. 640, Portland, OR 97232-2162

Voice: 971-673-0405 | Fax: 503-673-0694

www.healthoregon.org/dws

Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

SRC-AA – Old Well #1 - YAMH53359 (2003 recondition) – L51957

| YAMH 53359 | | | |
|---|--|--|--|
| State of Oregon WATER WELL REPORT (as required by ORS 537.765) | | State Well ID L51957 Start Card # 151270 | |
| Page 1 of 1 | | | |
| (1) OWNER: Well No. 2204 Name TONY SOTER Address POB 21 City OAKVILLE St CA Zip 94562 | | (9) LOCATION OF WELL by legal description: County YAMHILL Lat. ' ' ' Long. ' ' ' Township 3 S Range 4 W NW. Section 23 SE 1/4 NE 1/4 Tax Lot 1400 Lot Block Subdivision Street Address of Well (or nearest Address) NE MINERAL SPRINGS RD CARLTON, OR | |
| (2) TYPE OF WORK: RECONDITION | | (10) STATIC WATER LEVEL: 74 ft. below land surface. Date 05/12/03 Artesian pressure _____ lb per square in. Date _____ | |
| (3) DRILL METHOD: ROTARY AIR | | | |
| (4) PROPOSED USE: DOMESTIC | | | |
| (5) BORE HOLE CONSTRUCTION: Special Construction Approval NO Depth of Compl. Well 261 ft Explosives used NO Type _____ Amount _____ HOLE SEAL Diam. From To Material From To Amount _____ NA _____ Seal placement method NA Backfill: from 261 ft to 280 ft Material CAVING SLOUGH Gravel: from 95 ft to 261 ft Size 6X9 SAND | | (11) WATER BEARING ZONES: Depth at which water was first found _____ From To Est Flow Rate SWL _____ _____ _____ | |
| (6) CASING/LINER: Diam. From To Gauge Material Connection Casing _____ _____ _____ Liner 4 2 261 SDR26 PLASTIC WELDED Final location of shoe(s) _____ | | (12) WELL LOG: Material Ground elevation _____ From To SWL REMOVE EXISTING LINER AND REPLACE WITH SCREENED LINER AND SAND FILTER PACK. CLEANED AND REDEVELOPED WELL W/AIR. NO OTHER ALTERATION PERFORMED. | |
| (7) PERFORATIONS/SCREENS: [] Perf. Method _____ [X] Screens Type SLOTTED Material PVC Slot Tele/pipe From To Size Number Diam. Size Casing/liner 180 260 30 _____ 4" PS _____ LINER _____ _____ | | DAVE PAYSINGER, BLUE WATER DRILLING CO. (503) 868-7878 Date started 05/12/03 Completed 05/12/03 | |
| (8) WELL TESTS: Minimum testing time is 1 hour Test type AIR Yield GPM Draw-down at Drill stem Time 60 _____ 280 1 hr. 60 _____ 260 1 _____ _____ Temperature of water 53F Depth Artesian Flow Found _____ Was water analysis done? YES By whom TDS94dp Reason for water not suitable for use _____ Depth of strata _____ | | (unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief. Signed _____ HWC Number _____ Date _____ (bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief. Signed _____ HWC Number 1438 Date 05/12/03 | |
| ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 10/91 | | | |

800 NE Oregon St., Ste. 640, Portland, OR 97232-2162

Voice: 971-673-0405 | Fax: 503-673-0694

www.healthoregon.org/dws

Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

SRC-AA – Old Well #1 - [YAMH53359](#) (2025 survey photos) – [L51957](#)

Old Well-



Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

SRC-BA – “New” Well #2 ([YAMH59102](#)) Evaluation Results from OHA Geologist Tom Pattee

As Built Well Construction Evaluation for Plan Review and/or Setback Waiver:

Reviewed by: Tom Pattee, R. G.

Date: 09/15/2025

☒ Well/Spring meets current construction standards.

☐ WRD special construction standards, see well log or Comments.

☐ Well/Spring construction does not meet construction standards.

☐ Not sealed to appropriate depth. Recommended depth: _____

☐ Not appropriate seal materials

☐ Open to more than one aquifer

☐ Seal info missing or unknown

☐ Seal not constructed properly (☐ Insufficient sealant volume ☐ Insufficient annular space)

☐ Susceptible construction, but grandfathered source. Consider for reconstruction if nitrate $\geq 5\text{mg/L}$ or confirmed *E. coli* at source.

☐ Susceptible well construction, **not approved for use.**



Comments: This well was drilled to a depth of 260 ft and is cased to a depth of 100 ft. The casing seal extends to a depth of 90 ft, 5 ft into a low permeability siltstone that overlies the aquifer. The bottom of the hole is backfilled to a depth of 217 ft with borehole slough. A gravel filter pack was installed outside the casing from 90 to 198 ft below ground. Water can enter the well through the filter pack and the perforations in the casing that occur below the casing seal. Sensitivity Analysis results suggest that well construction does not contribute to the overall sensitivity of this water source.

Nature of Aquifer Evaluation:

Aquifer Nature: ☒ Confined aquifer ☐ Semi-confined aquifer ☐ Unconfined aquifer

Comments: This well draws water from a deep fractured siltstone aquifer. The well log identifies the water-bearing zone as occurring between 100 and 160 ft below ground. The water-bearing zone is overlain by 90 ft of siltstone, silt, and clay, all of low permeability that act as a confining layer. Water within the siltstone is under pressure, rising 39 ft above where it was first encountered to a depth of 41 ft. Sensitivity Analysis results, at this time, suggest that the aquifer characteristics are not highly sensitive to local land use practices. However, no monitoring results are on record as of 09/15/2025. Should chemical and/or bacteria monitoring results suggest that there is a pathway for chemicals originating at the surface to enter the aquifer, the sensitivity of the aquifer will be re-evaluated.

Link to WRD Well Mapping Tool:

https://apps.wrd.state.or.us/apps/gw/well_log/wl_details.aspx?wl_id=597509

Link to GoogleMaps:

<https://maps.app.goo.gl/d59Tsva2ij6km7ym6>

Link to Exempt Use Map:

https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?Type=ExemptUseOwnerMap&wl_tag_nbr=147380

Link to Well Log:

[YAMH59102](#) (2022 original construction log)

https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=YAMH&wl_nbr=59102

Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

SRC-BA – New Well #2 - [YAMH59102](#) (2022 original construction log) – [L147380](#)

Amended 11/4/2022
STATE OF OREGON
WATER SUPPLY WELL REPORT
 (as required by ORS 537.545 & 537.765 and OAR 690-205-0210)

YAMH 59102
WELL I.D. LABEL# L 147380
START CARD # 1058488
ORIGINAL LOG #

(1) LAND OWNER
 Owner Well I.D. _____
 First Name TONY Last Name SOTER
 Company SOMAR RANCHES LLC
 Address PO BOX 430
 City CARLTON State OR Zip 97111

(2) TYPE OF WORK
☐ Alteration (complete 2a & 10) ☒ New Well ☐ Deepening ☐ Conversion ☐ Abandonment (complete 5a)

(2a) PRE-ALTERATION
 Dia + From To Gauge Std Plstc Wld Thrd
 Casing: _____
 Material From To Amt sacks/bbs
 Seal: _____

(3) DRILL METHOD
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger ☐ Cable Mud
☐ Reverse Rotary ☐ Other _____

(4) PROPOSED USE
☒ Domestic ☐ Irrigation ☐ Community
☐ Industrial/Commercial ☐ Livestock ☐ Dewatering
☐ Thermal ☐ Injection ☒ Other WINE TASTING ROOM

(5) BORE HOLE CONSTRUCTION Special Standard ☐ (Attach copy)
 Depth of Completed Well 217.00 ft.
BORE HOLE

| Dia | From | To | Material | From | To | Amt | sacks/lbs |
|-----|------|-----|-----------|------|----|------------|-----------|
| 10 | 0 | 200 | Bentonite | 0 | 55 | 60 | S |
| 6 | 200 | 260 | | | | Calculated | 25.1 |
| | | | Cement | 55 | 90 | 11 | S |
| | | | | | | Calculated | 9.39 |

 How was seal placed: Method ☐ A ☐ B ☒ C ☐ D ☐ E
☒ Other BENT POURED-PROBED-HYT
 Backfill placed from 217 ft. to 260 ft. Material BOREHOLE SLOUG
 Filter pack from 90 ft. to 198 ft. Material GRAVEL Size 3/8 pea
 Explosives used: ☐ Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
 Proposed Amount _____ Actual Amount _____

(6) CASING/LINER

| Casing | Liner | Dia | + | From | To | Gauge | Std | Plstc | Wld | Thrd |
|-------------------------------------|-------------------------------------|-----|-------------------------------------|------|-----|-------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 6 | <input checked="" type="checkbox"/> | 1.5 | 198 | .250 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

 Shoe ☐ Inside ☒ Outside ☐ Other _____ Location of shoe(s) 198
 Temp casing ☒ Yes Dia 10 From + 0 To 100

(7) PERFORATIONS/SCREENS
 Perforations Method mill slotted

| Perf/Screen | Casing/Liner | Dia | From | To | Scrm/slot width | Slot length | # of slots | Tele/pipe size |
|-------------|--------------|-----|------|-----|-----------------|-------------|------------|----------------|
| Perf | Casing | 6 | 98 | 158 | .125 | 3 | 1368 | |
| Perf | Casing | 6 | 178 | 198 | .125 | 3 | 456 | |

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

| Yield gal/min | Drawdown | Drill stem/Pump depth | Duration (hr) |
|---------------|----------|-----------------------|---------------|
| 60 | | 200 | 1 |

 Temperature 52 °F Lab analysis ☐ Yes By _____
 Water quality concerns? ☐ Yes (describe below) TDS amount 110 ppm

| From | To | Description | Amount | Units |
|------|----|-------------|--------|-------|
| | | | | |

(9) LOCATION OF WELL (legal description)
 County YAMHILL Twp 3.00 S N/S Range 4.00 W E/W WM
 Sec 24 NW 1/4 of the SW 1/4 Tax Lot 1400
 Tax Map Number _____ Lot _____
 Lat _____ or 45.29601100 DMS or DD
 Long _____ or -123.13387000 DMS or DD
☒ Street address of well ☐ Nearest address
10880 NE MINERAL SPRINGS ROAD CARLTON, OR 97111

(10) STATIC WATER LEVEL

| Existing Well / Pre-Alteration | Date | SWL (psi) | + | SWL (ft) |
|--------------------------------|------------------|-----------|---|-----------|
| Completed Well | <u>9/21/2022</u> | | | <u>41</u> |

 Flowing Artesian? ☐ Dry Hole? ☐
 WATER BEARING ZONES Depth water was first found 100.00

| SWL Date | From | To | Est Flow | SWL (psi) | + | SWL (ft) |
|------------------|------------|------------|-----------|-----------|---|-----------|
| <u>9/20/2022</u> | <u>100</u> | <u>160</u> | <u>60</u> | | | <u>41</u> |

(11) WELL LOG Ground Elevation _____

| Material | From | To |
|-------------------------------------|------|-----|
| top soil clay brn | 0 | 6 |
| clay sticky brn softer | 6 | 50 |
| sandy-silty clay very soft (caving) | 50 | 85 |
| brown siltstone/claystone | 85 | 104 |
| siltstone gray firmer | 104 | 110 |
| siltstone gray | 110 | 120 |
| siltstone gray firm | 120 | 260 |

 Date Started 9/15/2022 Completed 9/21/2022

(unbonded) Water Well Constructor Certification
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
 License Number 2005 Date 9/30/2022
 Signed MICHAEL ALLENDORFER (E-filed)

(bonded) Water Well Constructor Certification
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
 License Number 1483 Date 9/30/2022
 Signed JOHN STADELI (E-filed)
 Contact Info (optional) Arrow Drilling 503-538-4422

ORIGINAL - WATER RESOURCES DEPARTMENT
 THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:
 New exempt use wells must be submitted with a map and recording fee.

800 NE Oregon St., Ste. 640, Portland, OR 97232-2162

Voice: 971-673-0405 | Fax: 503-673-0694

www.healthoregon.org/dws

Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

SRC-BA – New Well #2 - [YAMH59102 \(Exempt Use Map\)](#) – [L147380](#)

Soter Vineyards (PWS #95701)

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September 17, 2025

SRC-BA – New Well #2 - [YAMH59102](#) (2025 Survey Photos) – [L147380](#)

New well-



Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

Approximate 500-ft radius around SRC-BA (New Well)



Approximate 50- and 100-ft radii around SRC-BA (New Well)

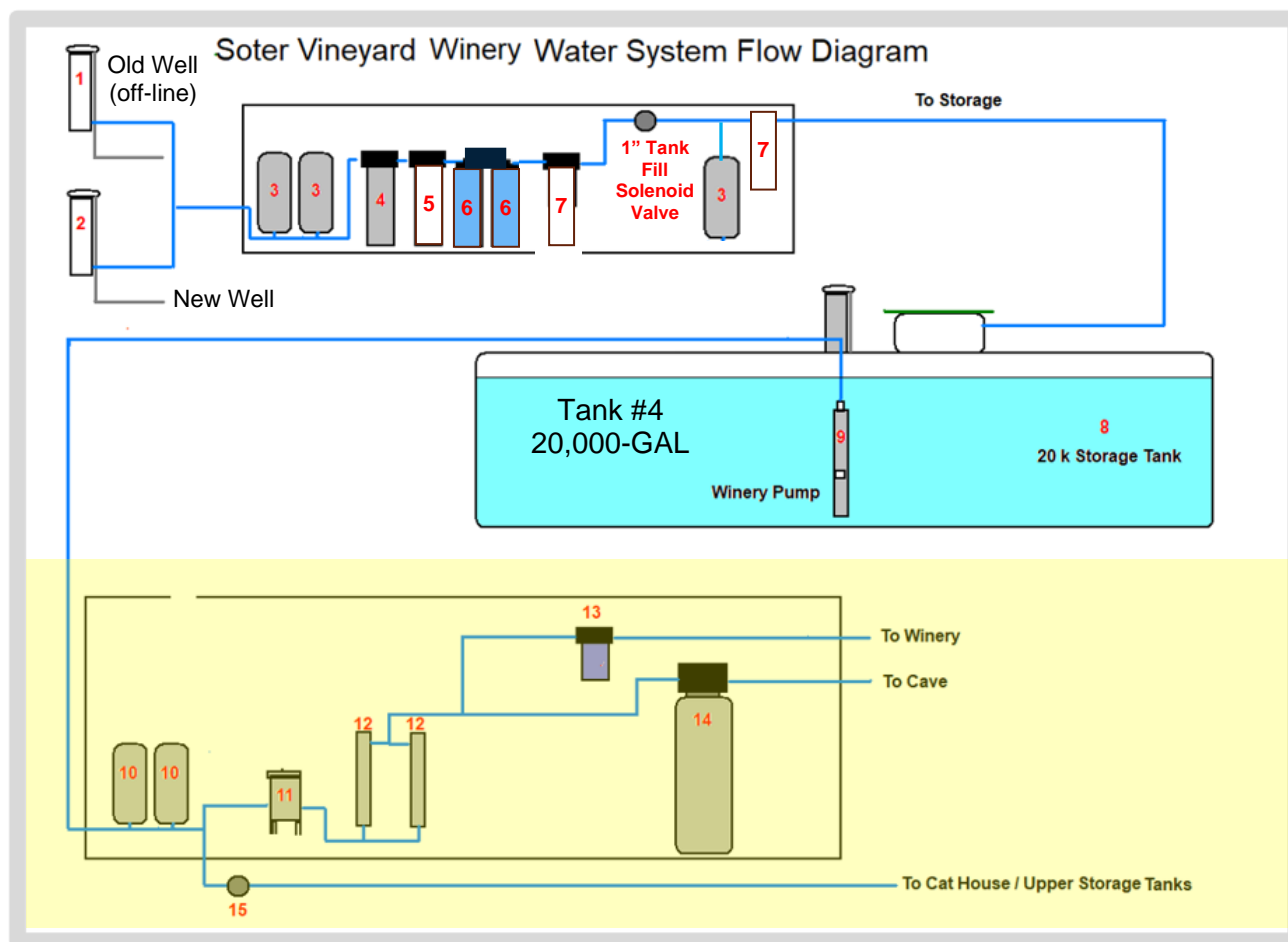


Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

Treatment System Flow Diagrams



| Sotor Winery Flow Diagram # | Component |
|-----------------------------|--|
| 1 | Old Well |
| 2 | New Well |
| 3 | Well-Mate Model 35-WB Pressure Tank |
| 4 | Carbon Filter |
| 5 | 5-micron filter |
| 6 | Fleck 2510SXT Digital Control Water Softening System |
| 7 | 1-micron cartridge filter |
| 8 | Tank #4 – 20,000-gal lower storage tank |
| 9 | 30 gpm winery pump |
| 10 | Well-Mate Model 35-WB Pressure Tank |
| 11 | Harmsco Filter |
| 12 | Trojan UV Max Model #F4 UV unit |
| 13 | Carbon filter |
| 14 | "Carbon To Cave" backwashable carbon filter |

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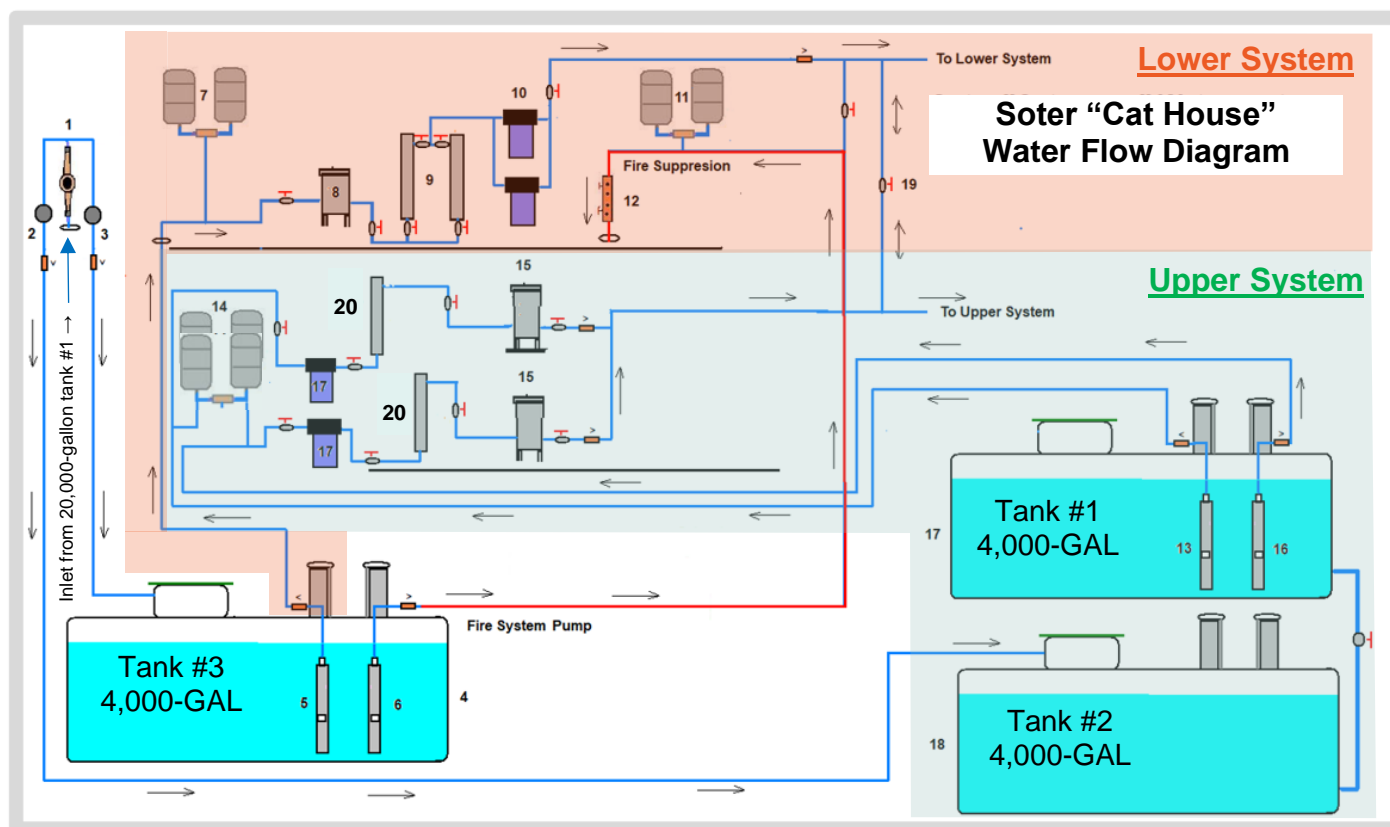
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| Soter "Cat House" Diagram # | Component |
|-----------------------------|---|
| 1 | 2" Master Meter Flow Register |
| 2 | Tank Fill Solenoid "Upper System" – 1 house, 2 cabins, & tasting room |
| 3 | Tank Fill Solenoid "Lower System" – 1 House at 10600 NE Hendricks Rd |
| 4 | Existing Storage Tank "For Lower Farm" |
| 5 | 30-gpm submersible pump "For Lower Farm" |
| 6 | 30-gpm submersible pump "For Fire Suppression" |
| 7 | Two (2) 4.4-gallon Amtrol Well-X-Trol Model #WX-102 Pressure tanks |
| 8 | Harmsco HUR-40 cartridge filter |
| 9 | Trojan UV Max Model #F4 UV unit |
| 10 | CF-92N filter in RFC BB20 housings |
| 11 | Two (2) 4.4-gallon Amtrol Well-X-Trol Model #WX-102 pressure tanks |
| 12 | 2" double check valve for "fire suppression system" |
| 13 | 40-gpm submersible pump "for upper system/tasting room" |
| 14 | Four (4) 4.8-gallon Jet-Rite Model #PJR-15 pressure tanks |
| 15 | Harmsco HUR-40 cartridge filter |
| 16 | 40-gpm submersible pump "for upper system/tasting room" |
| 17 | 4,000-gallon Upper Storage Tank #1 ("potable") |
| 18 | 4,000-gallon Upper Storage Tank #2 ("potable") |
| 19 | Emergency cross-over valve |
| 20 | Trojan UV Max Model #F4 UV unit |

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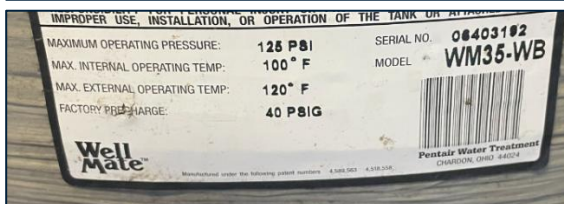
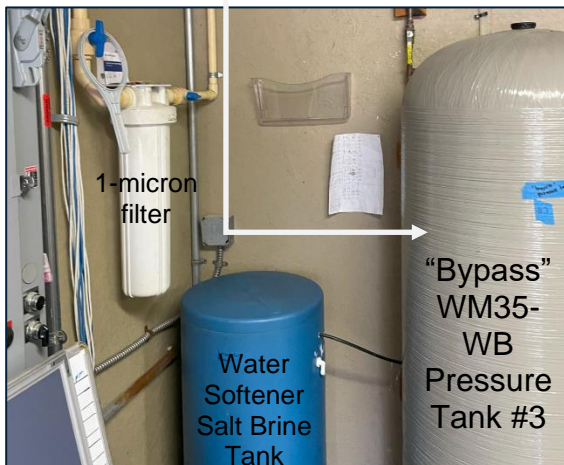
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Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

Winery treatment - wells feed into pressure tanks, filters, and UV units (secondary treatment) that then serves the 20,000-gallon tank.



Soter Vineyards (PWS #95701)

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TYPE: Classic

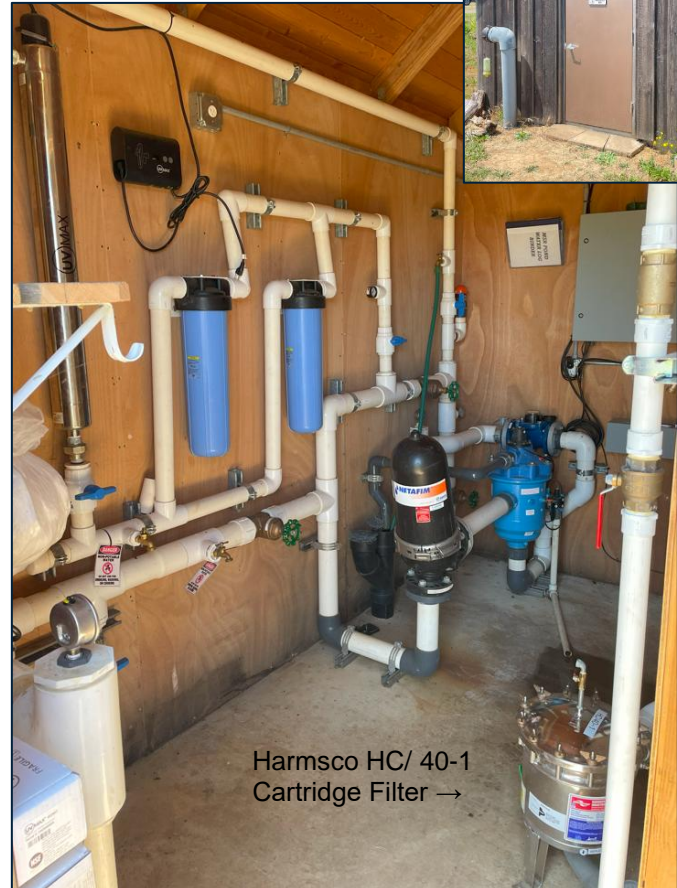
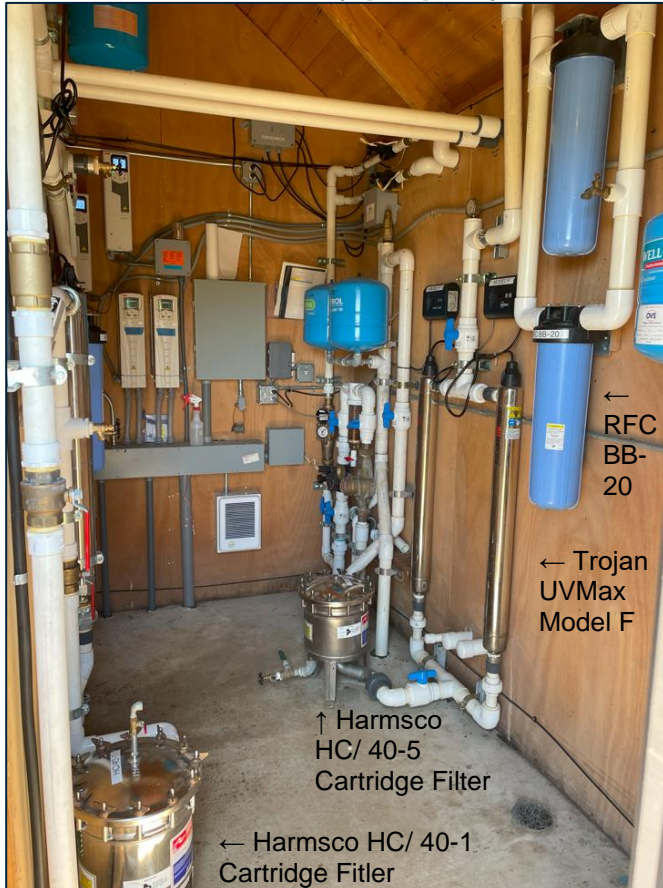
| ITEM # | CAPACITY | MAXIMUM OPERATING PRESSURE | DRAWDOWN IN | DIAMETER INCH CM | OVERALL HEIGHT INCH CM | HEIGHT INLET OUTLET TO FLOOR | CONNECTIONS | ASSEMBLY WEIGHT |
|------------------|-------------|----------------------------------|----------------|---------------------|------------------------------|---------------------------------------|-----------------|--------------------|
| WM-35WB WM0450 C | 119.7 / 453 | 125 / 862 / 8.6 | 37.0 / 140.1 | 24 / 61 | 74 1/4 / 189 | 2 1/4 / 5.7 | 1 1/4" male NPT | 102 / 46.4 |

Soter Vineyards (PWS #95701)

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“Cat House” treatment building w/ pressure tanks, filters and UV units (secondary treatment) that supplies the tasting room, tasting room cabins, and a home on the winery property.



Two (2) 4.4-gallon Amtrol Well-X-Trol Model #WX-102 pressure tanks:



WELLXTROL

Next Generation Well Tanks Featuring Antimicrobial Protection

Specifications

| Model Number | Tank Volume (Gallons) | Max. Acceptance Factor | Dimensions | | System Conn. (Inches) | Drawdown (Gallons) | | | Shipping Weight (lbs.) |
|--------------|-----------------------|------------------------|---------------------|-------------------|-----------------------|--------------------|--------------|--------------|------------------------|
| | | | A Diameter (Inches) | B Height (Inches) | | 30/50 (psig) | 40/60 (psig) | 50/70 (psig) | |
| WX-101 | 2.0 | 0.45 | 8 | 13 | ¾ NPTM | 0.6 | 0.6 | 0.5 | 5 |
| WX-102 | 4.4 | 0.55 | 11 | 15 | ¾ NPTM | 1.4 | 1.2 | 1.0 | 9 |
| WX-103 | 6.7 | 0.40 | 11 | 20 | ¾ NPTM | 2.1 | 1.8 | 1.6 | 15 |
| WX-104 | 10.3 | 1.00 | 15 | 18 | 1 NPTM | 3.2 | 2.8 | 2.4 | 20 |
| WX-200 | 14.0 | 0.81 | 15 | 22 | 1 NPTM | 4.3 | 3.8 | 3.3 | 22 |
| WX-201 | 14.0 | 0.81 | 15 | 25 | 1 NPTF | 4.3 | 3.8 | 3.3 | 25 |
| WX-202 | 20.0 | 0.57 | 15 | 32 | 1 NPTF | 6.2 | 5.4 | 4.7 | 32 |
| WX-202XL | 26.0 | 0.44 | 15 | 39 | 1 NPTF | 8.0 | 7.0 | 6.1 | 39 |
| WX-203 | 32.0 | 0.35 | 15 | 47 | 1 NPTF | 9.9 | 8.8 | 7.6 | 47 |
| WX-205 | 34.0 | 1.00 | 22 | 30 | 1 ¼ NPTF | 10.5 | 9.1 | 8.0 | 57 |
| WX-250 | 44.0 | 0.77 | 22 | 36 | 1 ¼ NPTF | 13.6 | 11.8 | 10.4 | 65 |
| WX-251 | 62.0 | 0.55 | 22 | 47 | 1 ¼ NPTF | 19.2 | 16.6 | 14.6 | 87 |
| WX-255 | 81.0 | 0.41 | 22 | 57 | 1 ¼ NPTF | 25.0 | 21.7 | 19.1 | 108 |
| WX-302 | 86.0 | 0.54 | 26 | 47 | 1 ¼ NPTF | 26.6 | 23.0 | 20.3 | 106 |
| WX-350 | 119.0 | 0.39 | 26 | 62 | 1 ¼ NPTF | 36.8 | 31.9 | 28.1 | 146 |

Stainless Steel System Connection.

Maximum Working Pressure: All models: 150 psig. Factory Precharge: 38 psig.

Drawdown can be affected by various ambient and system conditions, including temperature and pressure.

WX-101 through WX-200

WX-201 through WX-350

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Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

Four (4) 4.8-gallon Jet-Rite Model #PJR-15 pressure tanks:

**Description**

Jet-Rite (PJR) tanks are a diaphragm type, pre-charged hydro-pneumatic tank designed for residential and commercial water well, pressure booster, and irrigation systems.

Shell: Drawn steel w/ polyurethane paint finish

Diaphragm: Butyl rubber w/ copolymer polypropylene liner

Connection: Stainless steel nipple
(PJR 6-PJR25S-3/4" nipple)
(PJR 44-PJR66S- 1" nipple)

Ratings

Max. Working Pressure: 125 PSI

Max. Working Temp: 140 F

Pre-Charge (adjustable): 28 PSI

**Tank Specifications**

| Model | Diameter (inches) | Height (inches) | System Connection (inches) | Volume (gallons) | Drawdown (gallons) | | | Weight (lbs) |
|----------|-------------------|-----------------|----------------------------|------------------|--------------------|-------|-------|--------------|
| | | | | | 20/40 | 30/50 | 40/60 | |
| PJR 6 | 8.0 | 12.0 | 3/4 | 2.1 | .8 | .7 | .6 | 5.0 |
| PJR 15 | 11.0 | 14.5 | 3/4 | 4.8 | 1.7 | 1.5 | 1.3 | 10.0 |
| PJR 20S | 11.4 | 13.5 | 3/4 | 5.3 | 1.9 | 1.6 | 1.4 | 13.3 |
| PJR25 | 12.5 | 18.9 | 3/4 | 9.0 | 3.1 | 2.6 | 2.3 | 15.4 |
| PJR 25S | 12.5 | 18.9 | 3/4 | 9.0 | 3.1 | 2.6 | 2.3 | 15.4 |
| PJR 44IL | 16.3 | 19.75 | 1 | 14.0 | 5.1 | 4.3 | 3.8 | 23.3 |
| PJR 44S | 16.3 | 20.8 | 1 | 14.0 | 5.1 | 4.3 | 3.8 | 27.0 |
| PJR 66S | 16.3 | 28.5 | 1 | 20.0 | 7.6 | 6.5 | 5.5 | 38.0 |



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NSF-55 Class A Trojan UV Max Model #D Controller & Model #F4 UV system (lamp model #602807)

To find out what model you have, look at the label on the side of the controller as depicted below:

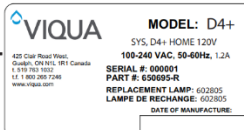
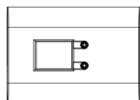


Figure 2 Model D/E/F- Controller Components

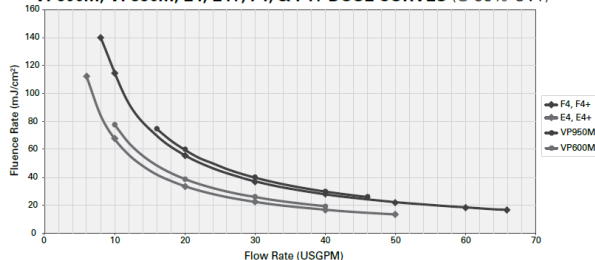
| Operating Parameters | D4 Premium/D4+/D4-V/D4-V | E4/E4+/E4-V/E4-V+/E4-50+ | F4/F4+/F4-V/F4-V+/F4-50+ |
|-------------------------|--------------------------|--------------------------|--------------------------|
| No-tools maintenance | Yes | Yes | Yes |
| Locking Lamp Connector | Yes | Yes | Yes |
| LCD Colour Display | Yes | Yes | Yes |
| Sensor status indicator | D4+, D4-V+ | E4-V+, E4+, E4-50+ | F4-V+, F4+, F4-50+ |
| Sensor | D4+, D4-V+ | E4-V+, E4+, E4-50+ | F4-V+, F4+, F4-50+ |
| Lamp timer display | Yes | Yes | Yes |
| Lamp timer reset button | Yes | Yes | Yes |
| Mute button | Yes | Yes | Yes |
| Solenoid valve | Optional | Optional | Optional |
| External control relay | Optional | Optional | Optional |

**Replacement Parts**

| | |
|--|--|
| 602806 – UV lamp for E4 & E4+ | 602733 – quartz sleeve for E4 & E4+ |
| 602807 – UV lamp for F4 & F4+ | 602734 – quartz sleeve for F4 & F4+ |
| S600RL-HO – UV lamp for VP600 & VP600M | BA-ICE-C – controller for VP600 & VP950 |
| S950RL-HO – UV lamp for VP950 & VP950M | BA-ICE-CM – controller for VP600M & VP950M |
| QSO-600 – quartz sleeve for VP600 & VP600M | 650713-007 – controller E4, E4+, F4 & F4+ |
| QSO-950 – quartz sleeve for VP950 & VP950M | 650703 – sensor for E4+ & F4+ |

Water Quality Parameters

Hardness: < 7 grains (120 mg/L)
Iron: < 0.3 mg/L
Tannins: < 0.1 mg/L

VP600M, VP950M, E4, E4+, F4, & F4+ DOSE CURVES (@ 95% UVT)

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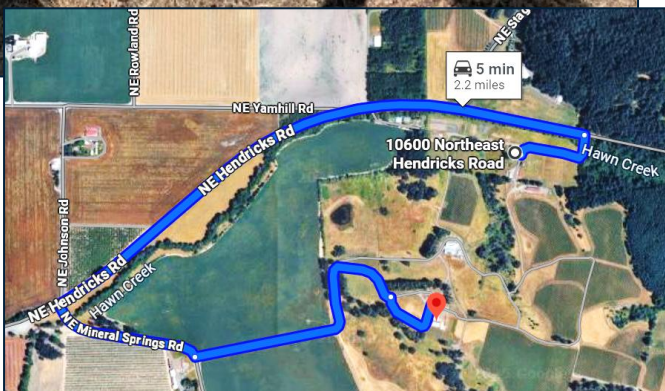
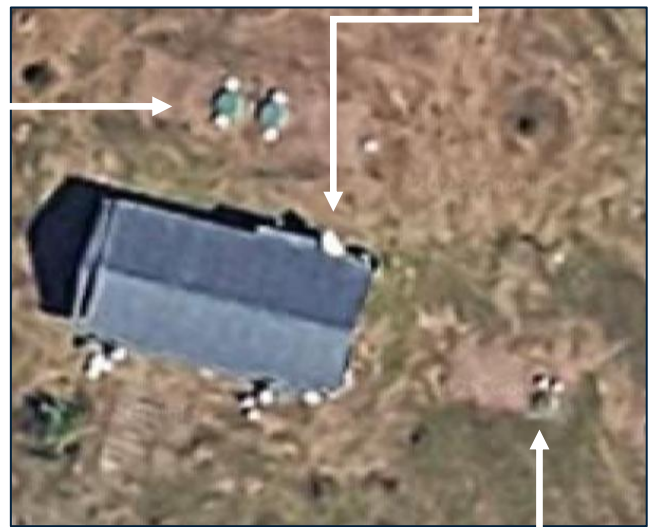
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Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

4,000-gallon storage tanks #1, #2 & #3



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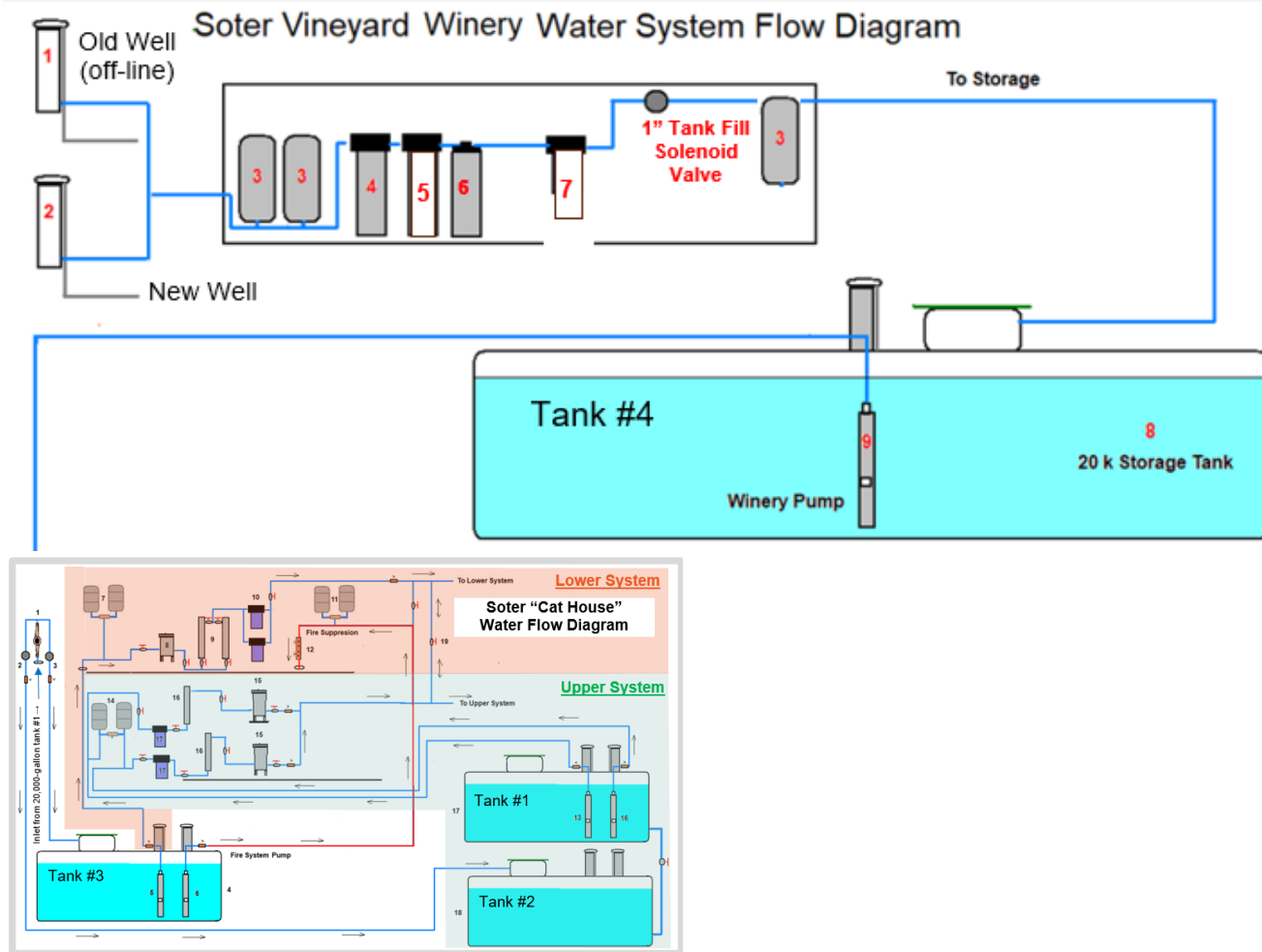
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Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

One (1) 20,000-gallon storage tank (tank #4, ca. 2003) – fills tanks #1, #2, and #3




Soter Vineyards (PWS #95701)

Conditional Approval PR #19-2023 – 2 wells, storage tanks, UV & cartridge (secondary treatment)

September 17, 2025

Storage tank information gathered during a water system survey on June 17, 2025 conducted by the Oregon Dept. of Agriculture is shown below.

|  | | Soter Vineyards Water System | | PWS ID: 41 95701 | | | | | | | |
|---|-----------------|--|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | Water System Survey OHA Drinking Water Services | | Survey Date: 06/17/25 | | | | | | | |
| Page 13 of 16 | | | | | | | | | | | |
| Storage and Pressure Tanks | | | | | | | | | | | |
| Number | Name | Tank Type (G)round, (E)levated, (P)ressure | Tank Material (Concrete, Steel, Redwood, Plastic, Other) | Year Built | Volume (gal.) | | | | | | |
| 1 | Storage Tank #1 | G | Concrete | 2022 | 4,000 | | | | | | |
| 2 | Storage Tank #2 | G | Concrete | 2022 | 4,000 | | | | | | |
| 3 | Storage Tank #3 | G | Concrete | unk | unk | | | | | | |
| 4 | Storage Tank #4 | G | Plastic | 2003 | 20,000 | | | | | | |
| | | | | | Total Volume: 28,000 plus | | | | | | |
| Reservoir Features | | Reservoir Number: 1 | | 2 | | 3 | | 4 | | | |
| | | Yes | No | Yes | No | Yes | No | Yes | No | Yes | No |
| Fence/gate? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ● Hatch secured (e.g. locked, bolted, etc.)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ● All tank access points watertight? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ● Screened vent? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Overflow? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ● Overflow protected (screen/flap/valve)? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Drain to daylight? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Water level gauge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Bypass piping? (● if used for contact time) | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Alarm for high or low levels? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Separate inlet/outlet? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Approved interior coating? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Exterior in good condition? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Annual interior/exterior inspection? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cleaning schedule? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Continuously disinfected? (● post '81 redwood) | | na | <input type="checkbox"/> | na | <input type="checkbox"/> | na | <input type="checkbox"/> | na | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pressure Tanks | | 1,2,3 | | 4,5,6 | | 7,8,9 | | 10,11 | | 12, 13 | |
| Accessible for maintenance? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Bypass piping? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Drain? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Pressure relief device? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Air bladder/diaphragm? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Valve for adding air? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Comments | | | | | | | | | | | |
| The system has four underground storage tanks and 13 pressure tanks. | | | | | | | | | | | |