



Cowlitz County Health & Human Services Department

**Environmental Health Unit**  
207 Fourth Avenue North, Kelso, WA 98626  
TEL (360) 414-5599 FAX (360) 425-7531  
[www.co.cowlitz.wa.us/hhs](http://www.co.cowlitz.wa.us/hhs)

# SOILS EVALUATION CHECKLIST

Project Address (if available): 1819 Spirit Lake Hwy Parcel No.: WF0620004

Plat #: \_\_\_\_\_ Lot #: 2 of 4 Acreage 2.09 Method II Analysis Required (Indicate One):  Yes  No

Name: Salty J LLC Choose one:  Owner  Applicant  Authorized Agent

Designer: Travis Buck #Bedrooms/GPD: 3/360 Water Supply:  Public  Well (choose one)

Proposed System Type: Standard Gravity Flow

Proposed Treatment Level (choose one):  A  B  C  D  E  N

DESIGNER INITIAL	1. Completed EHU Master Application*, including parcel # and address (if available)	STAFF INITIAL
TB	2. A Cowlitz County Planning Certification form had been completed (please circle: YES or NO)	
TB	3. Name & Address of property owner and applicant on each page of submission. [WAC 246-272A-0200(1)(a)(i)]	
TB	4. Each page of submission is stamped, signed, and dated by a Washington State Professional Engineer or Onsite Wastewater Designer (RCW 18.210.130, WAC 196-33-500)	
TB	(The Soil Log/Evaluation Report may be completed by a soil scientist)	
TB	5. A site plan is attached and shows general topography and /or slope are shown on the parcel for the applicable areas	
TB	6. Site plan shows test-hole locations, primary and reserve drainfield areas, and the well or proposed well location with 100' radius around the well or proposed well.	
TB	7. Numbered Soil Log/Evaluation Report dated and attached with texture, structure, and other soil characteristics.	
TB	8. The site is ready for inspection:	
	<ul style="list-style-type: none"> <li>• Clear and concise directions to inspection site are provided (if necessary).</li> </ul>	
	<ul style="list-style-type: none"> <li>• Entrance to property is clearly marked</li> </ul>	
	<ul style="list-style-type: none"> <li>• Primary and reserve areas are labeled**</li> </ul>	
	<ul style="list-style-type: none"> <li>• Test pits are open and labeled with at least two soil logs within / immediately adjacent to the primary and reserve area; test pits match the soil log</li> </ul>	
TB		N/A

**Comments:** \_\_\_\_\_

**Permit Number (For official use) \_\_\_\_\_**

\* Not required for online application.  
\*\* If the site is constricted and horizontal setback are in question, we reserve the right to have the designer re-stake the area.

For more information, contact OMseptic@co.cowlitz.wa.us. Permit intake and issuance hours are Monday through Thursday, 7:30 am – 5:30 pm.

Last Date Revised: 04/23/2021

EHU Form: 8432



## Advanced Septic Consulting Inc.

### Site Evaluation & Soil Report for Lot 2 @ 1819 Spirit Lake Hwy.

November 4, 2024

Design Number: 24-238.2

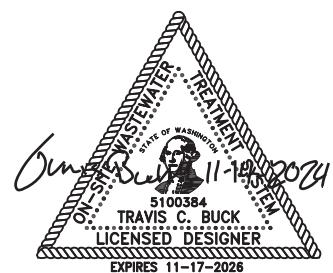
Customer: Salty J LLC, 1550 Butte Hill Rd. Woodland, Washington 98674

Project Location: 1819 Spirit Lake Hwy. Castle Rock, Washington 98611

Section: 6 Township: 9N Range: 1W Lot: 2 of 4

Parcel Number: WF0620004 Acres: 2.09 No. Bedrooms: 3

Type of Water Supply: Public Water





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Section: 6 Township: 9N Range: 1W Lot: 2 of 4

Parcel Number: WF0620004 Acres: 2.09 No. Bedrooms: 3

Type of Water Supply: Public Water

### **Site Characteristics:**

The site is located within USDA-NRCS mapping unit 148 – Olympic Silt Loam. Typical water table is greater than 80". The site is well drained in the primary septic area with no mottling noted. A restrictive was layer noted at 51" in the primary area. The reserve area has moderate mottling and a restrictive layer noted ranging from 47 to 51".

Typical slope ranges from 20 to 30%. The proposed primary septic area is on a north facing slope with a slope ranging from 12 to 16%. Vegetation in the septic area has mostly been cleared by recent land clearing activities.

### **Soil Evaluation:**

	<b>Depth</b>	<b>Soil</b>	<b>Type</b>	<b>Structure</b>	<b>Color</b>	<b>Roots</b>	<b>Mottling</b>
<b>Test Hole #1</b>	0-10"	SiL	5	3, m, gr	10yr4/4	m/f	None
	10-40"	siCL	5	2, m, sbk	10yr5/4	f/f	None
	40-49"	siCL	5	2, m, sbk	7.5yr4/6	f/f	None
<b>Test Hole #2</b>	0-16"	SiL	5	3, m, gr	10yr4/4	m/f	None
	16-51"	siCL	5	2, m, sbk	10yr5/4	f/f	None
	51-56"	Decomposed Rock					
<b>Test Hole #3</b>	0-15"	SiL	5	3, m, gr	10yr4/4	m/f	None
	15-47"	siCL	5	2, m, sbk	10yr5/4	f/f	None
	47-53"	siCL	7	2, m, sbk	Mixed	None	Moderate
<b>Test Hole #4</b>	0-22"	Fill					
	22-34"	SiL	5	3, m, gr	Mixed	m/m, f	None
	34-55"	siCL	5	2, m, sbk	10yr5/4	m/f	None
	55-61"	Decomposed Rock					

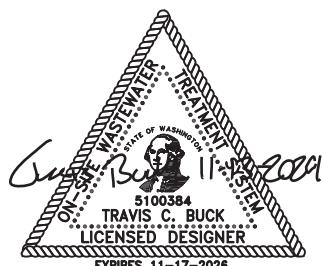
### **Design Requirements:**

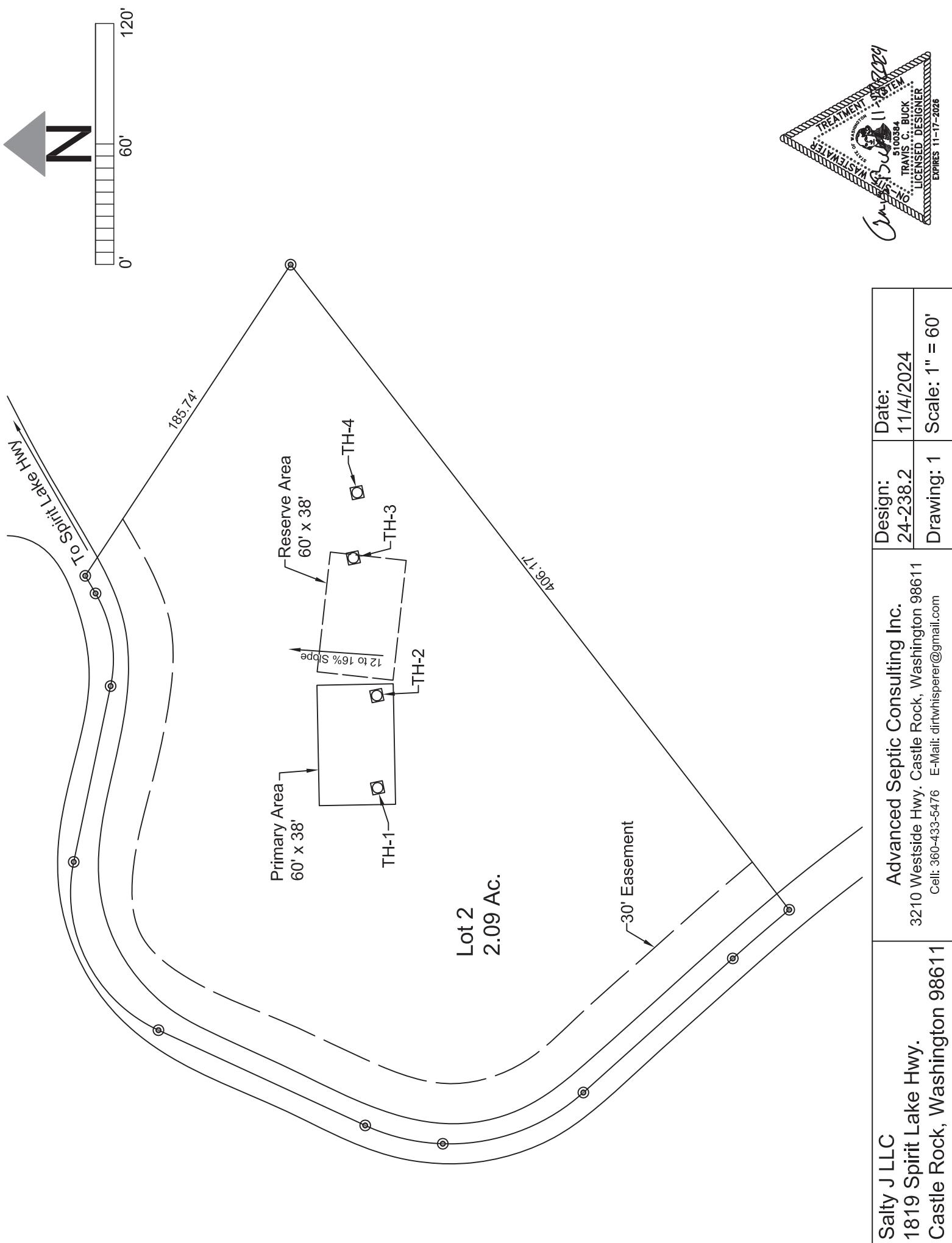
Based upon the evaluation performed on October 8, 2024 it is my determination that the primary area is adequate for the use of a Standard Gravity Flow system meeting Treatment Level E to service the on-site septic needs of the future home.

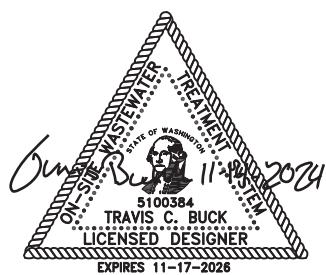
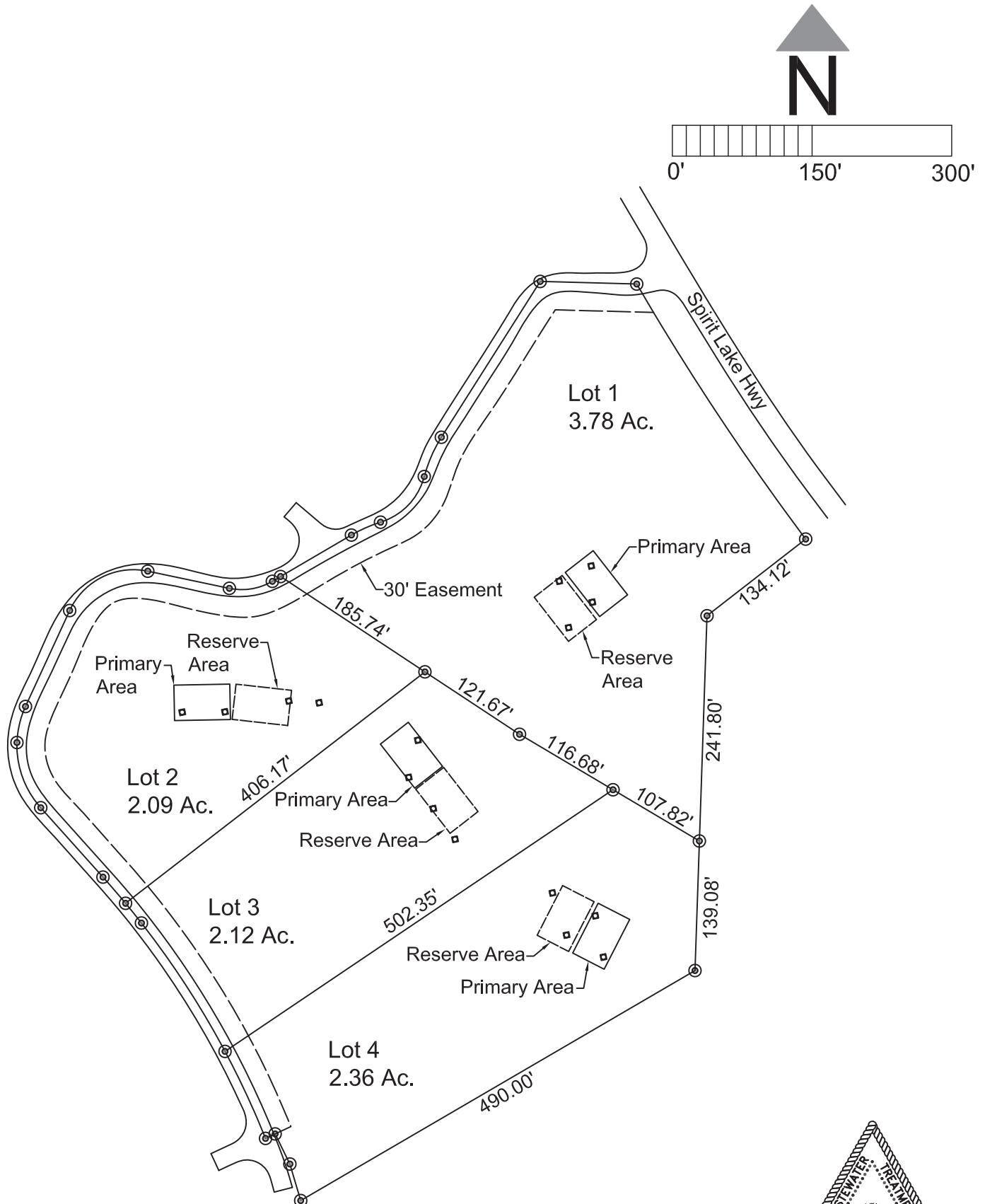
The primary area will require 900 sq. ft. of drain field and 2,250 sq. ft. of land area.

The reserve area has been designated for the use of a Standard Pressure Distribution system meeting Treatment Level E and will require 900 sq. ft. of drain field and 2,250 sq. ft. of land area.

### **Other comments or concerns:**







Salty J LLC  
 1819 Spirit Lake Hwy.  
 Castle Rock, Washington 98611

Advanced Septic Consulting Inc.  
 3210 Westside Hwy. Castle Rock, Washington 98611  
 Cell: 360-433-5476 E-Mail: [dirtwhisperer@gmail.com](mailto:dirtwhisperer@gmail.com)

Design:  
 24-238

Date:  
 11/14/2024

Drawing: 2

Scale: 1" = 150'  
 EXP 11-17-2026