



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): 1811 Spirit Lake Hwy Parcel No.: WF0620103

Plat #: \_\_\_\_\_ Lot #: 1 of 4 Acreage 8.42 Method II Analysis Required (Indicate One):  Yes  No

Name: JCP LLC Choose one:  Owner  Applicant  Authorized Agent

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

Proposed System Type: Pre-Treatment Followed by Pressure Distribution

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

DESIGNER INITIAL		STAFF INITIAL
TB	1. Completed EHU Master Application*, including parcel # and address (if available)	
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)	
	(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 1 @ 1811 Spirit Lake Hwy.

November 13, 2024

Design Number: 24-237.1

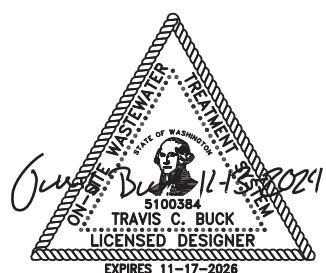
Customer: JCP LLC, 1500 Butte Hill Rd. Woodland, Washington 98674

Project Location: 1811 Spirit Lake Hwy. Castle Rock, Washington 98611

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

Parcel Number: WF0620103 Acres: 8.42 No. Bedrooms: 3

Type of Water Supply: Public Water





## Advanced Septic Consulting Inc.

November 4, 2024

Design Number: 24-237.1

Customer: JCP LLC, 1500 Butte Hill Rd. Woodland, Washington 98674

Project Location: 1811 Spirit Lake Hwy. Castle Rock, Washington 98611

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

Parcel Number: WF0620103 Acres: 8.42 No. Bedrooms: 3

Type of Water Supply: Public Water

### **Site Characteristics:**

The site is located within USDA-NRCS mapping unit 192- Seaquest Silt Loam. Typical depth to the water table is greater than 80". The site however, is moderately well drained in the septic areas with moderate mottling and a restrictive layer noted ranging from 28 to 34 inches (measured from native soil to restrictive layer after fill is removed). Typical slope ranges from 0 to 8%. The proposed septic areas are on a north facing slope with a slope ranging from 0 to 4%. Vegetation in the septic area mainly consists of field grass.

### **Soil Evaluation:**

	<u>Depth</u>	<u>Soil</u>	<u>Type</u>	<u>Structure</u>	<u>Color</u>	<u>Roots</u>	<u>Mottling</u>
<b>Test Hole #1</b>	0-18"	Fill					
	18-44"	siCL	5	2, m, sbk	10yr4/6	f/f	None
	44-52"	siC	7	Massive	Mixed	None	Moderate
<b>Test Hole #2</b>	0-8"	SiL	5	3, m, gr	10yr3/3	m/f	None
	8-30"	siCL	5	2, m, sbk	10yr4/4	c/f	None
	30-38"	siCL	7	Massive	Mixed	None	Moderate
<b>Test Hole #3</b>	0-11"	SiL	5	3, m, gr	10yr3/3	m/f	None
	11-34"	siCL	5	2, m, sbk	10yr4/4	c/f	None
	34-42"	siCL	7	Massive	Mixed	None	Moderate
<b>Test Hole #4</b>	0-9"	SiL	5	3, m, gr	10yr3/3	m/f	None
	9-30"	siCL	5	2, m, sbk	10yr4/4	c/f	None
	30-33"	siCL	7	Massive	Mixed	None	Moderate

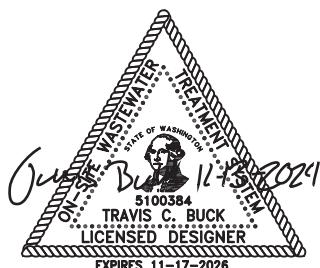
### **Design Requirements:**

Based upon the evaluation performed on October 8, 2024 it is my determination that the primary area is adequate for the use of a Pre-Treatment Level B system followed by a Pressure Distribution system 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 Pre-Treatment Level B system followed by a Pressure Distribution system and will require 900 sq. ft. of drain field and 2,250 sq. ft. of land area.

**Other comments or concerns:** A concurrence with Cowlitz County EHU Health officers Brian Hetland and Nic Bakotich was performed at the time the test holes were dug.





240'  
120'  
0'

Spirit Lake Hwy

1,075.63'

Lot 1  
8.42 Ac.

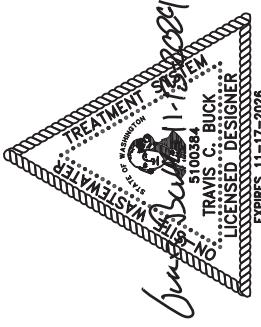
Reserve Area  
60' x 38'  
TH-4  
TH-3  
TH-2  
TH-1  
Primary Area  
60' x 38'

100' Surface  
Water Setback

Surface Water  
(As mapped  
By EPIC)

483.25'  
30' Easement

346.50'



JCP LLC 1811 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	Design: 24-273.1 Date: 11/4/2024 Drawing: 1 Scale: 1" = 120'
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510384  
TRAVIS C. BUCK  
LICENSED DESIGNER  
EXPIRES 11-17-2026

