



# Cowlitz County Health and Human Services

PHONE: 360-414-5599 FAX: 360-425-7531

WEBSITE: [www.co.cowlitz.wa.us/hhs](http://www.co.cowlitz.wa.us/hhs)

Main Campus: 1952 9th Avenue, Longview, WA 98632 [askcowlitzhealth@cowlitzwa.gov](mailto:askcowlitzhealth@cowlitzwa.gov)  
Environmental Health Unit: 207 4th Avenue North, Kelso, WA 98626 [OMSeptic@cowlitzwa.gov](mailto:OMSeptic@cowlitzwa.gov)

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## SOILS EVALUATION

Status: Approved

Date: July 23, 2025

Record Number: [EHU-07-25-0673](#)

Project Address: UNADDRESSED

Project Parcel: 411840113

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Applicant: ADVANCED SEPTIC CONSULTING  
3210 WESTSIDE HWY.  
CASTLE ROCK, WA 98611

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## GENERAL INFORMATION

Designer: TRAVIS BUCK

Business Name: ADVANCED SEPTIC CONSULTING

Phone Number: 3604335476

Email: [dirtwhisperer@gmail.com](mailto:dirtwhisperer@gmail.com)

Proposed Use: Residential

Number of Bedrooms: 2

Design Flow (GPD): 240

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## SUBDIVISION INFORMATION

This soils evaluation is intended for Large Lot subdivision China Garden View Estates.  
The proposed lot number is 13 of 45.

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## DRAINFIELD INFORMATION

### Usable Land Area

Proposed Treatment Level: B & BL2

Proposed Drainfield Type: Pressure Distribution

Usable Land Area: 5000 Sq. Ft.

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**COMMENTS**

The Cowlitz County Department of Health – Environmental Health Unit (EHU) has evaluated the soil report submitted by your on-site sewage system (OSS) designer or Engineer. The following are our findings:

The EHU has evaluated the soil log(s), texture, structure, and compaction of the Soil and Site Evaluation Report submitted by a Washington State licensed Designer or Engineer.

**This site appears to be able to, at this time, support an OSS as proposed.**

Approved Soil and Site evaluations are valid for five (5) years from the approval date. The proposed septic primary and reserve area(s) set-aside for future septic use must be protected from grading, fill, compaction, or any other alteration that may change soil characteristics. Soil and Site evaluations may be invalidated if the proposed septic area(s) are not protected.

In order to install a septic system on this property a complete OSS design, meeting the standards of the time, must be submitted to the EHU.

For future well construction: When drilled, the well must maintain a 100' setback from the approved, proposed primary and reserve septic areas or new test holes will need to be opened and evaluated.

**CONDITIONS**

- **THIS IS NOT A PERMIT TO INSTALL A SEPTIC SYSTEM**
- **THIS IS NOT A DESIGN APPROVAL**
- **THIS SOIL AND SITE APPROVAL DOES NOT GUARANTEE THE PLAUSIBILITY OF SEPTIC SYSTEM APPROVAL FOR THIS SITE**

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**This Evaluation Valid Until: 7/23/2030**

Approved By:  Date of Approval: 7/23/2025

Nic Bakotich  
Environmental Health Specialist (Agent of the Health Officer)



**Advanced Septic Consulting Inc.**

**Site Evaluation & Soil Report for Lot 13 @ Parcel Number: 411840113**

July 9, 2025

Design Number: 25-151.13

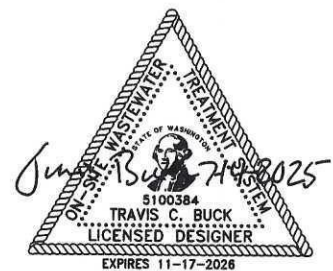
Customer: Preston Enterprises LLC, PO Box 1132 Woodland, Washington 98674

Project Location: China Garden Rd. Kalama, Washington 98625

Section: 16 Township: 6N Range: 1W Lot: 13 of 45

Parcel Number: 411840113 Acres: 2.1 +/-

Type of Water Supply: City of Kalama Public Water



**EHU 07-25-0673**



## Advanced Septic Consulting Inc.

July 9, 2025

Design Number: 25-151.13

Customer: Preston Enterprises LLC, PO Box 1132 Woodland, Washington 98674

Project Location: China Garden Rd. Kalama, Washington 98625

Section: 16 Township: 6N Range: 1W Lot: 13 of 45

Parcel Number: 411840113 Acres: 2.1 +/- Type of Water Supply: City of Kalama Public Water



### Site Characteristics:

The site is located within USDA-NRCS mapping unit 148 – Olympic Silt Loam. Typical depth to the water table is greater than 80 inches. The site is well drained in the septic area with no mottling noted and a restrictive layer noted ranging from 48 to 53 inches. Typical slope ranges from 20 to 30%. The proposed primary septic area is on a south facing slope with a slope ranging from 12 to 15%. Vegetation in the septic area mainly consists of field grass.

<u>Soil Evaluation:</u>	<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>	0-16"	Fill					
	16-28"	SiL	5	3, m, gr	10yr2/2	m/m, f	None
	28-48"	g, siCL	5	2, m, sbk	10yr3/4	m/f	None
	48-58"	Bedrock					
<b>Test Hole #2</b>	0-9"	Fill					
	9-16"	SiL	5	1, m, sbk	10yr2/2	m/f	None
	16-51"	siCL	5	2, m, sbk	10yr3/4	f/f	None
	51-60"	siCL	7	1, m, sbk	Mixed	None	Strong
<b>Test Hole #3</b>	0-24"	Fill					
	24-32"	SiL	5	3, m, gr	10yr2/2	m/f	None
	32-53"	siCL	5	2, m, sbk	10yr3/4	m/f	None
	53-62"	siCL	6	1, m, sbk	Mixed	None	None
<b>Test Hole #4</b>	0-14"	Fill					
	14-25"	SiL	5	3, m, gr	10yr2/2	m/m, f	None
	25-50"	SiL	5	2, m, sbk	10yr3/4	m/f	None
	50-64"	siCL	5	2, m, sbk	Mixed	f/f	None

### Design Requirements:

Based upon the soil evaluation performed on June 11, 2025 the soil onsite is a type 5 soil and requires a designation of 5,000 sq. ft. of usable land area available for septic designation.

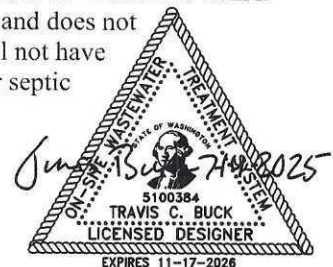
The usable land area shown is adequate for a pre-treatment level B and BL2 system followed by a pressure distribution drain field.

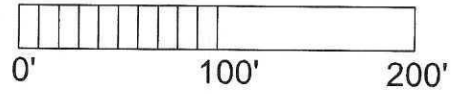
A portion of the usable land area is within the 100' setback from the downgradient bioswale for designs using this area the treatment level will need to be increased to treatment level A & BL1 to accommodate a 25' reduction to the downgradient surface water.

**Other comments or concerns:** The minimum usable land area required is based on table IV WAC 246-272A.

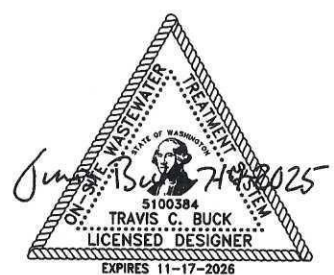
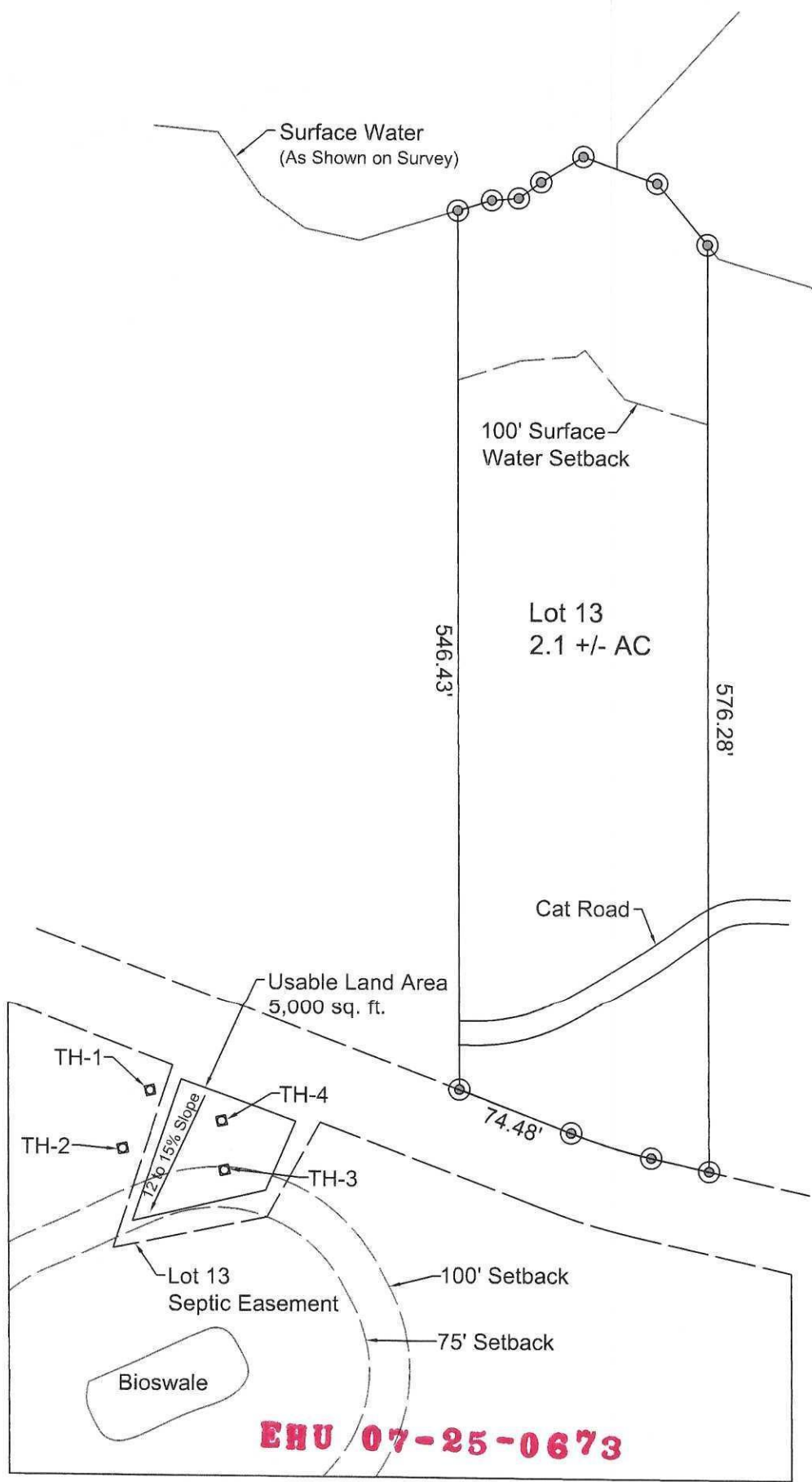
Criteria for determining useable land area is based on WAC 246-272A required setbacks and does not guarantee that future studies performed as part of the environmental planning process will not have an impact on the useable land area. For septic design purposes, the land area required for septic design approval may be smaller or larger than the area shown on this report based on the number of bedrooms and type of system designed.

**EHU 07-25-0673**





**APPROVED**  
JUL 23 2025  
COWLITZ COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH



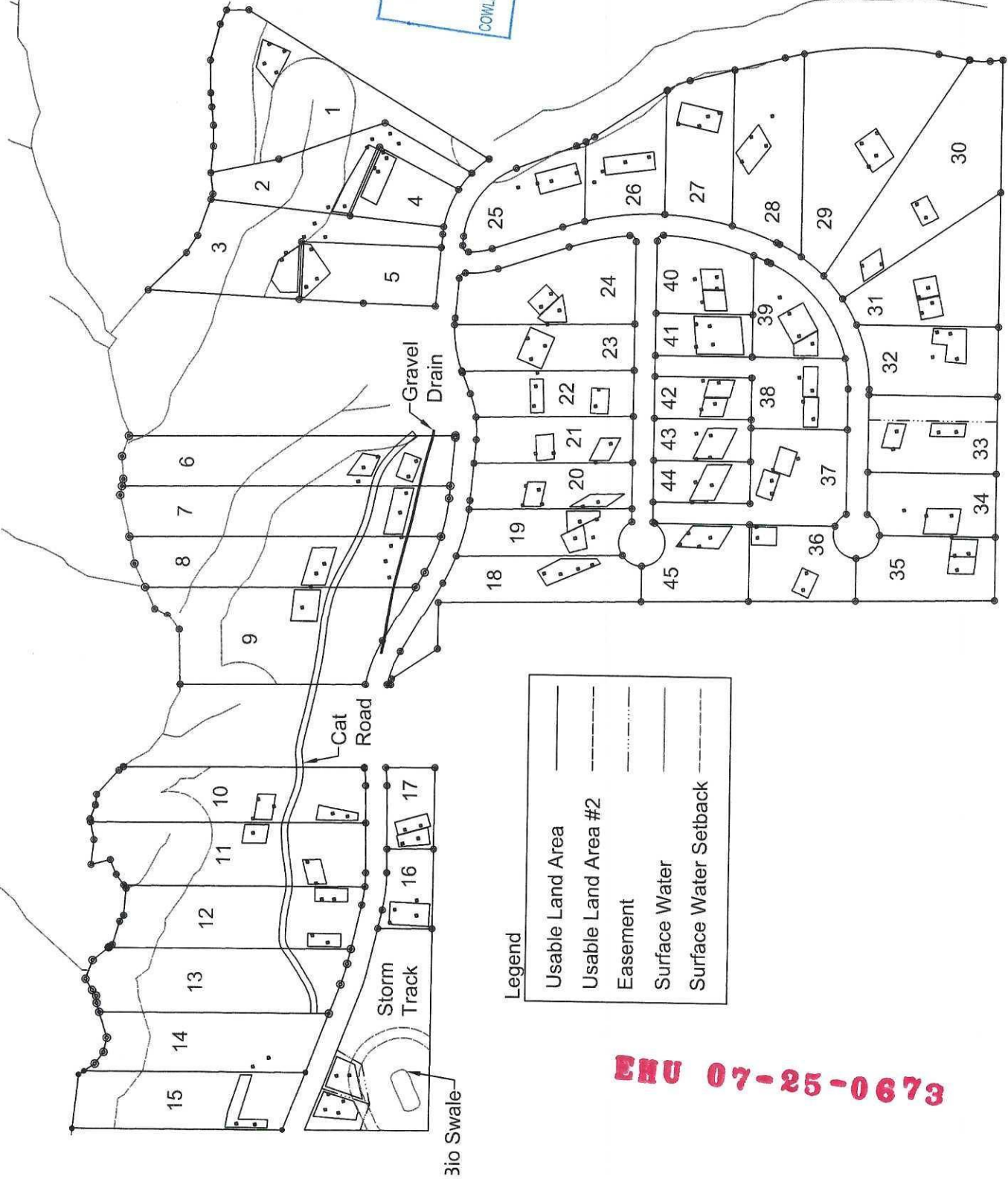
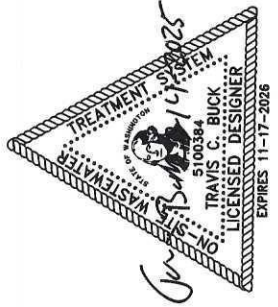
Preston Enterprises LLC  
Parcel Number: 411840113  
Kalama, Washington 98625

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

Design: 25-151.13	Date: 7/9/2025
Drawing: 1	Scale: 1" = 100'



**APPROVED**  
**JUL 23 2025**  
 COWLITZ COUNTY HEALTH DEPARTMENT  
 ENVIRONMENTAL HEALTH



**Legend**

Usable Land Area	———
Usable Land Area #2	-----
Easement	.....
Surface Water	~~~~~
Surface Water Setback	- - - - -

**ENU 07-25-0673**

Preston Enterprises LLC Parcel Number: 411840113 Kalama, Washington 98625	Advanced Septic Consulting Inc. 3210 Westside Hwy. Castle Rock, Washington 98611 Cell: 360-433-5476 E-Mail: dirtwhisperer@gmail.com	Design: 25-151 Drawing: 2	Date: 7/11/2025 Scale: 1" = 350'
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