



Cowlitz County Health and Human Services

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

WEBSITE: www.co.cowlitz.wa.us/hhs

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

SOILS EVALUATION

Status: Approved

Date: July 24, 2025

Record Number: EHU-07-25-0680

Project Address: UNADDRESSED

Project Parcel: 411840113

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

GENERAL INFORMATION

Designer: TRAVIS BUCK

Business Name: ADVANCED SEPTIC CONSULTING

Phone Number: 3604335476

Email: dirtwhisperer@gmail.com

Proposed Use: Residential

Number of Bedrooms: 2

Design Flow (GPD): 240

SUBDIVISION INFORMATION

This soils evaluation is intended for Large Lot subdivision China Garden View Estates.
The proposed lot number is 20 of 45.

DRAINFIELD INFORMATION

Usable Land Area1

Proposed Treatment Level: E

Proposed Drainfield Type: Pressure Distribution

Usable Land Area: 2500Sq. Ft.

Usable Land Area2

Proposed Treatment Level: B & BL2

Proposed Drainfield Type: Sub-surface drip irrigation

Usable Land Area: 2500 Sq. Ft.

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**

This Evaluation Valid Until: 7/24/2030

Approved By: nic bakotich

Date of Approval: 7/24/2025

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



Advanced Septic Consulting Inc.

Site Evaluation & Soil Report for Lot 20 @ Parcel Number: 411840113

July 9, 2025

Design Number: 25-151.20

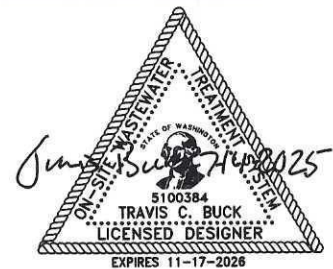
Customer: Preston Enterprises LLC, PO Box 1132 Woodland, Washington 98674

Project Location: China Garden Rd. Kalama, Washington 98625

Section: 16 Township: 6N Range: 1W Lot: 20 of 45

Parcel Number: 411840113 Acres: 1.0 +/-

Type of Water Supply: City of Kalama Public Water



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Advanced Septic Consulting Inc.

July 9, 2025

Design Number: 25-151.20

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: 20 of 45

Parcel Number: 411840113 Acres: 1.0+/- Type of Water Supply: City of Kalama Public Water



Site Characteristics:

The site is located within USDA-NRCS mapping unit 147 – Olympic Silt Loam. Typical depth to the water table is greater than 80 inches. The site is well drained in usable land area 1 with no mottling noted and a restrictive layer noted ranging from 36 to 45 inches. The reserve area has moderate mottling and a restrictive layer noted ranging from 19 to 38 inches. Typical slope ranges from 8 to 20%. The usable land area 1 is on a southwest facing slope with a slope ranging from 14 to 18%. 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>
Test Hole #1	0-15"	SiL	5	3, m, gr	10yr5/4	m/f	None
	15-38"	siCL	5	2, m, sbk	10yr4/4	m/f	None
	38-43"	siCL	7	1, m, sbk	Mixed	None	Moderate
Test Hole #2	0-11"	SiL	5	3, m, gr	10yr5/4	m/f	None
	11-23"	siCL	5	2, m, sbk	10yr4/4	m/f	None
	23-33"	siCL	7	1, m, sbk	Mixed	None	Moderate
Test Hole #3	0-8"	SiL	5	3, m, gr	10yr5/4	m/f	None
	8-21"	siCL	5	2, m, sbk	10yr4/4	m/f	None
	21-32"	siCL	7	1, m, sbk	Mixed	None	Moderate
Test Hole #4	0-4"	SiL	5	3, m, gr	10yr5/4	m/f	None
	4-19"	siCL	5	2, m, sbk	10yr4/4	m/f	None
	19-24"	siCL	7	1, m, sbk	Mixed	None	Moderate
Test Hole #5	0-16"	SiL	5	3, m, gr	10yr5/4	m/f	None
	16-45"	siCL	5	2, m, sbk	10yr4/4	m/f	None
	45-48"	siCL	6	1, m, sbk	Mixed	None	None
Test Hole #6	0-15"	g, SiL	5	3, m, gr	10yr5/4	m/f	None
	15-36"	siCL	5	2, m, sbk	10yr4/4	m/f	None
	36-45"	siCL	6	1, m, sbk	Mixed	None	None

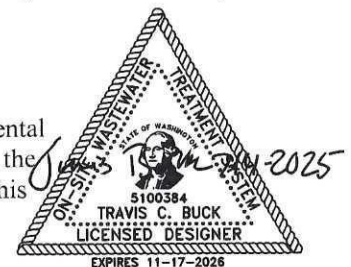
Design Requirements:

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. 2 usable land areas were established each with an area of 2,500 sq. ft. for a total of 5,000 sq. ft.

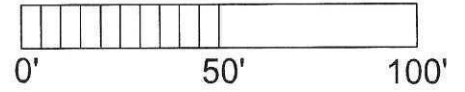
Usable land area 1 is adequate for a standard pressure distribution system meeting treatment level E.

Usable land area 2 has been designated using a pre-treatment level B and BL2 system followed by a sub-surface drip irrigation drain field.

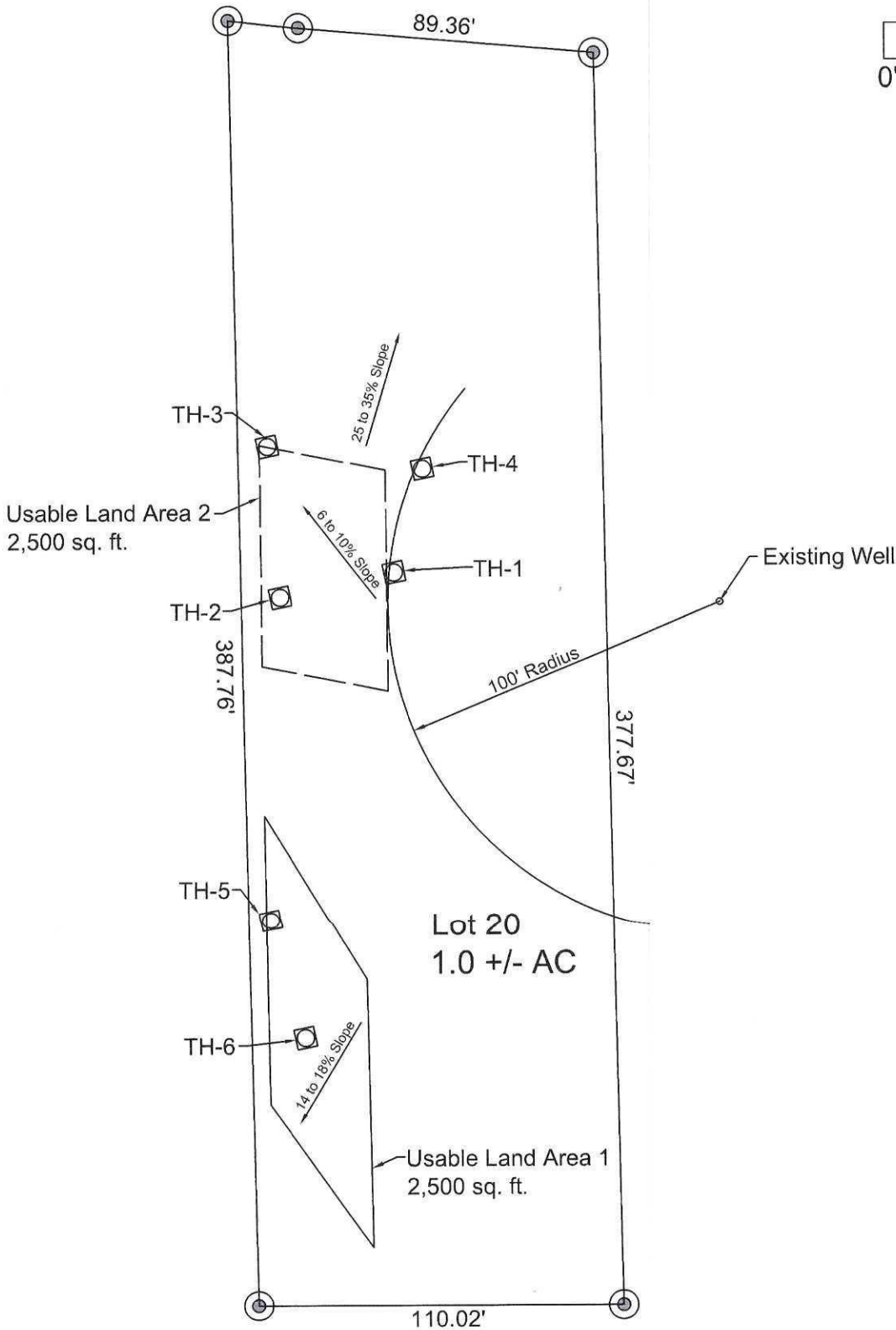
Other comments or concerns: The minimum usable land area required is based on table IV WAC 246-272A. Criteria for determining useable land area is based on WAC 246-272A required setbacks and does not guarantee that future studies performed as part of the environmental planning process will not have an 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 07-25-0680



APPROVED
 JUL 24 2025
 COWLITZ COUNTY HEALTH DEPARTMENT
 ENVIRONMENTAL HEALTH



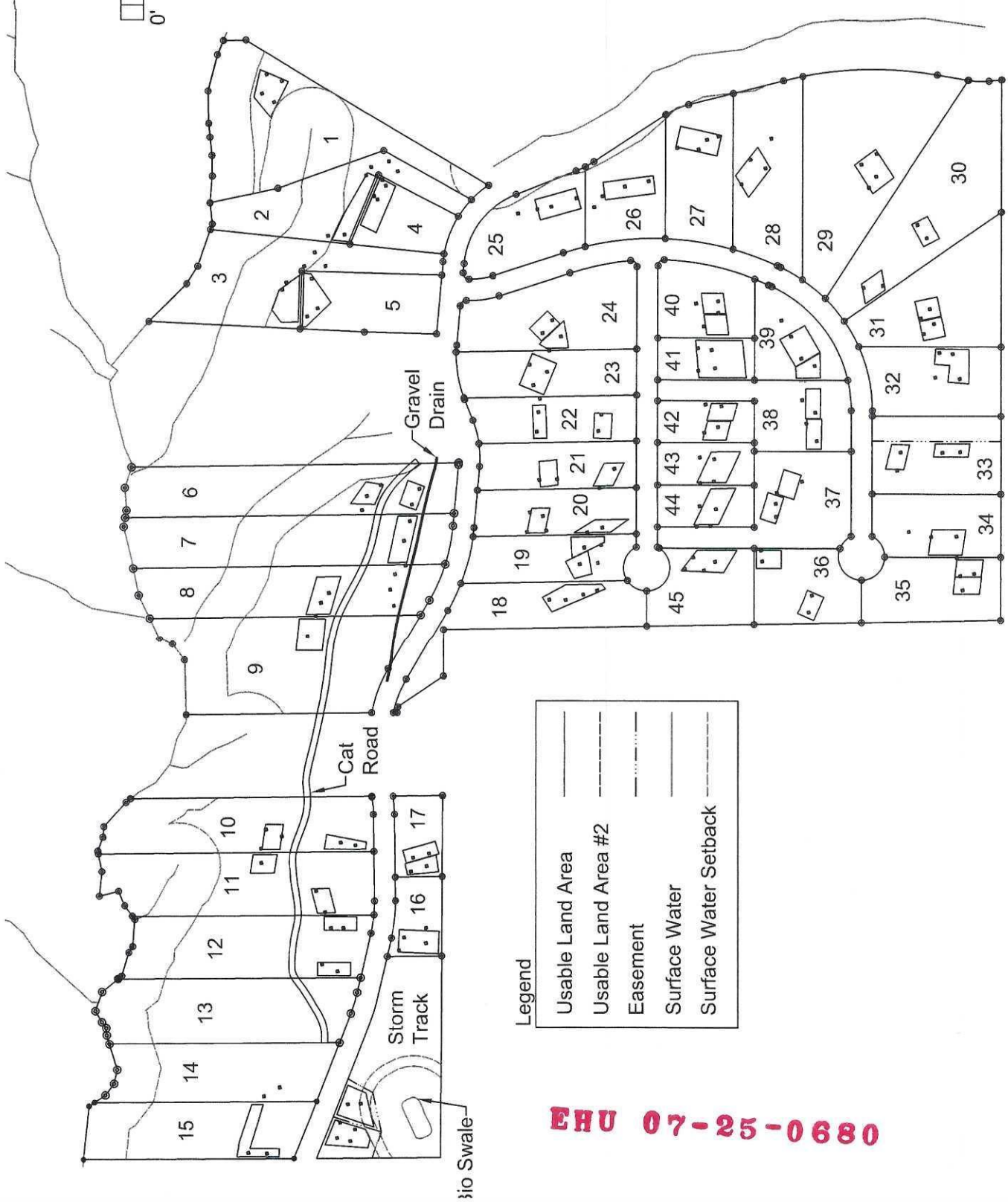
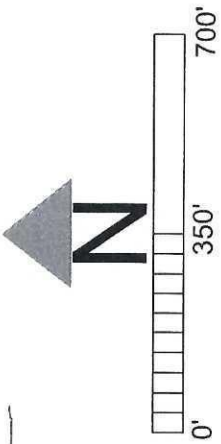
EHU 07-25-0680

Travis C. Buck 7/9/2025
 5100384
 TRAVIS C. BUCK
 LICENSED DESIGNER
 EXPIRES 11-17-2026

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: 25-151.20	Date: 7/9/2025
Drawing: 1	Scale: 1" = 50'

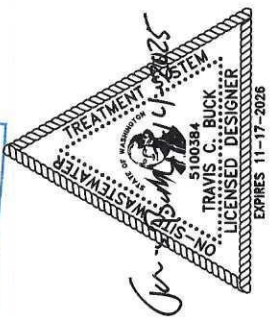


Legend

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

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APPROVED
JUL 24 2025
 COWLITZ COUNTY HEALTH DEPARTMENT
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<p>Advanced Septic Consulting Inc. 3210 Westside Hwy. Castle Rock, Washington 98611 Cell: 360-433-5476 E-Mail: dirtwhisperer@gmail.com</p>	<p>Design: 25-151 Drawing: 2</p>	<p>Date: 7/11/2025 Scale: 1" = 350'</p>
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Preston Enterprises LLC
 Parcel Number: 411840113
 Kalama, Washington 98625