



Cowlitz County Health and Human Services

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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: November 19, 2025

Record Number: [EHU-11-25-1057](#)

Project Address: 11869 LEWIS RIVER RD, ARIEL, WA 98603

Project Parcel: EM2402010

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 2575.08.
The proposed lot number is 2 of 4.

DRAINFIELD INFORMATION

Usable Land Area

Proposed Treatment Level: E
Proposed Drainfield Type: Equal Distribution
Usable Land Area: 3333 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: 11/19/2030

Approved By: Nic Bakotich

Date of Approval: 11/19/2025

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



Advanced Septic Consulting Inc.

Site Evaluation & Soil Report for Lot 2 of Parcel Number: EM2402010

November 3, 2025

Design Number: 25-268.1

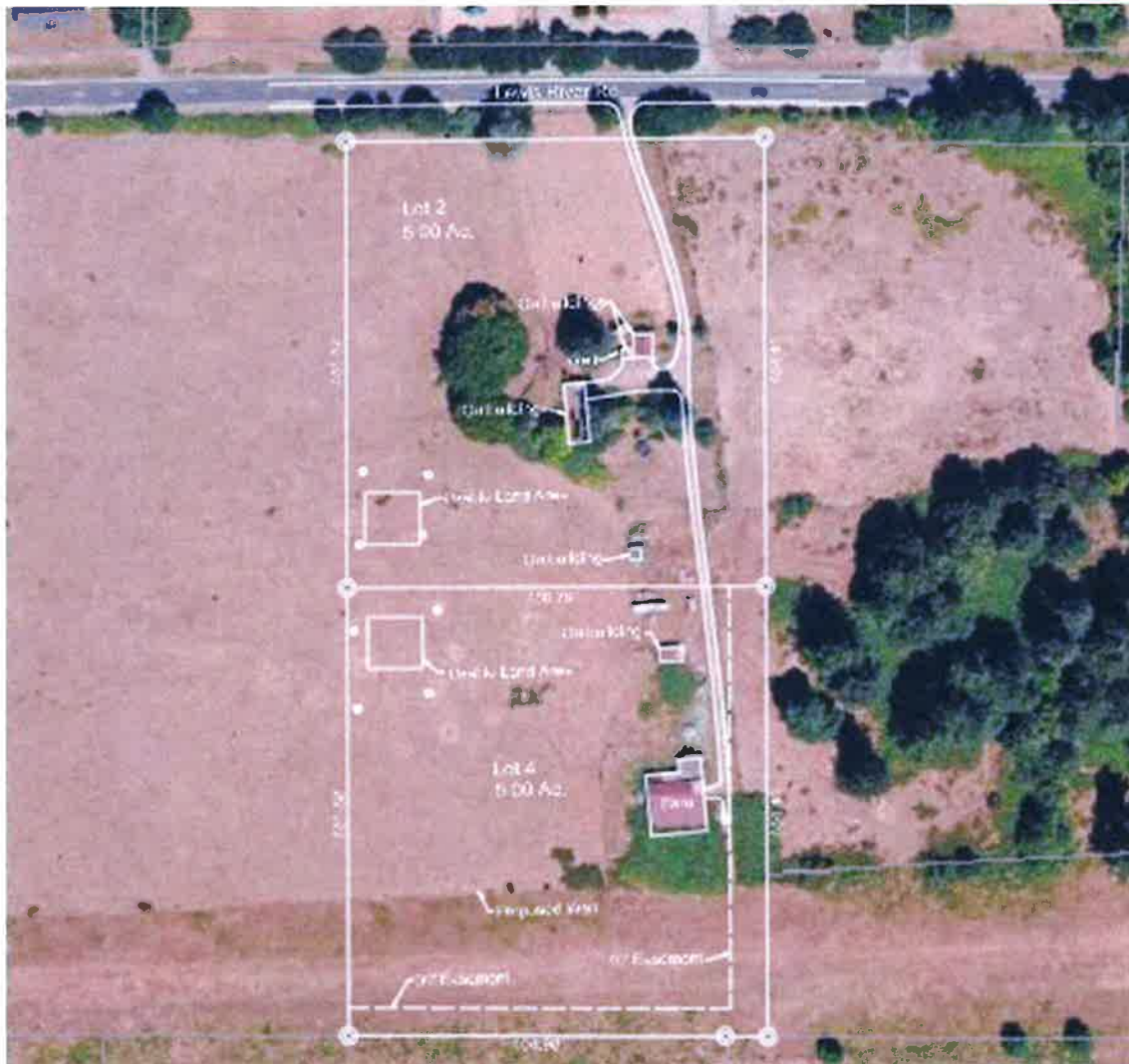
Customer: Broken Box C LLC, 1760 Down River Dr. Woodland, Washington 98674

Project Location: Lewis River Rd. Ariel, Washington 98603

Section: 24 Township: 6N Range: 3E

Parcel Number: EM2402010 Acres: 5.00 Lot: 2 of 4

Type of Water Supply: Existing Well



ENU 11-25-1057





Advanced Septic Consulting Inc.

October 16, 2025

Design Number: 25-268.1

Customer: Broken Box C LLC, 1760 Down River Dr. Woodland, Washington 98674

Project Location: Lewis River Rd. Ariel, Washington 98603

Section: 24 Township: 6N Range: 3E

Parcel Number: EM2402010 Acres: 5.00 Lot: 2 of 4

Distance to Water Supply: Existing Well 290' Northeast of Usable Land Area



Site Characteristics:

The site is located within USDA-NRCS mapping unit 25 – Cinebar Silt Loam. Typical depth to the water table is greater than 80 inches. The site is well drained in the usable land area with no mottling or restrictive layer noted to 62 inches. Typical slope ranges from 0 to 5%. The proposed usable land area is on a southwest facing slope with a slope ranging from 0 to 1%. 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>
Test Hole #1	0-15"	L	4	3, m, gr	10yr3/3	m/f	None
	15-67"	sL	4	2, m, sbk	10yr5/4	c/f	None
Test Hole #2	0-12"	L	4	3, m, gr	10yr3/3	m/f	None
	12-53"	sL	4	2, m, sbk	10yr5/4	c/f	None
	53-62"	sL	4	1, co, sbk	10yr5/4	None	None
Test Hole #3	0-15"	L	4	3, m, gr	10yr3/3	m/f	None
	15-53"	sL	4	2, m, sbk	10yr5/4	c/f	None
	53-63"	sL	4	1, co, sbk	10yr5/4	None	None
Test Hole #4	0-12"	L	4	3, m, gr	10yr3/3	m/f	None
	12-66"	sL	4	2, m, sbk	10yr5/4	c/f	None

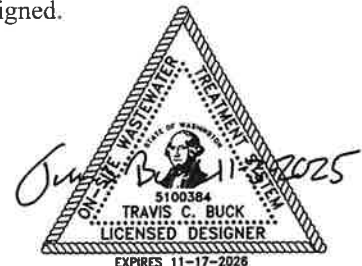
Design Requirements:

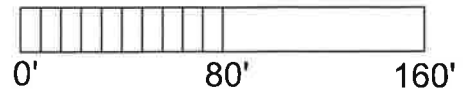
Based upon the soil evaluation performed on October 14, 2025 the soil onsite is a type 4 soil and requires a designation of 3,333 sq. ft. of usable land area available for septic designation.

The usable land area shown is adequate for a standard gravity flow system meeting treatment level E.

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 11-25-1057





Lewis River Rd.

Lot 2
5.00 Ac.



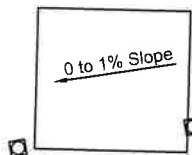
481.87'

484.41'

450.79'

TH-3

TH-2



TH-4

TH-1

Usable Land Area
60' x 55.75'

Outbuildings

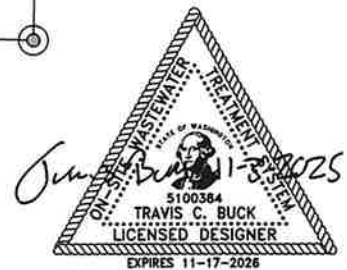
Well

100' Radius

Outbuilding

Outbuilding

EHU 11-25-1057



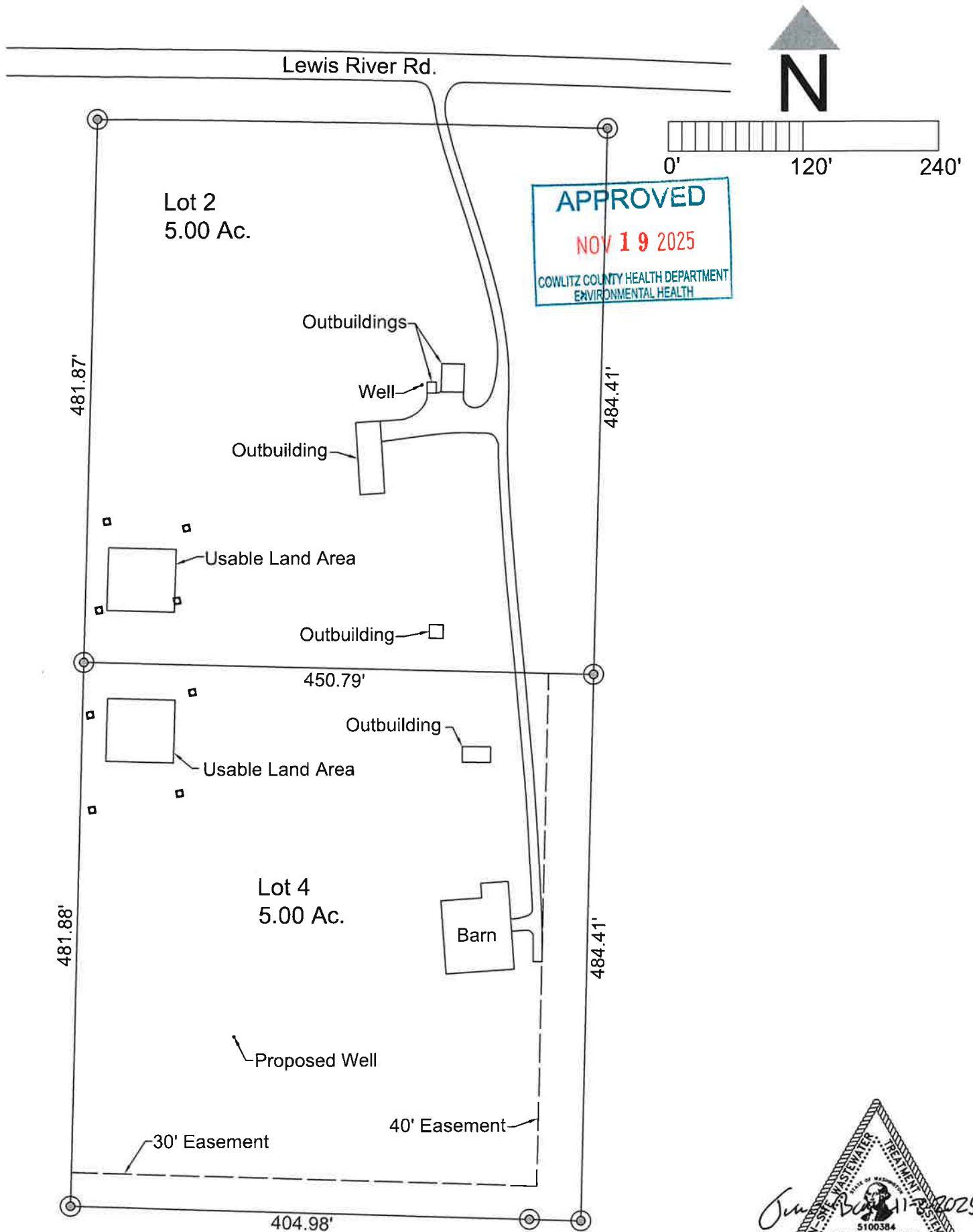
Broken Box C LLC
Parcel Number: EM2402010

Advanced Septic Consulting Inc.
3210 Westside Hwy. Castle Rock, Washington 98611

Design:
25-268.1

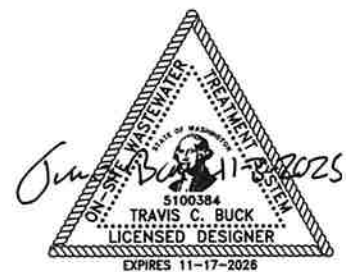
Date:
11/3/2025

Scale: 1" = 80'



APPROVED
 NOV 19 2025
 COWLITZ COUNTY HEALTH DEPARTMENT
 ENVIRONMENTAL HEALTH

EHU 11-25-1067



Broken Box C LLC
 Parcel Number: EM2402010

Advanced Septic Consulting Inc.
 3210 Westside Hwy. Castle Rock, Washington 98611

Design: 25-268	Date: 10/16/2025
Scale: 1" = 120'	