



Goode & Associates

Project Management

Designs - Permits

512 W Center Street, Centralia WA 98531
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No Net Loss of Ecological Function Analysis

Shawn Macfarlane
1532 Ceres Hill Road, Chehalis WA 98532

Tax Parcel #018642000000

MSR # 25-0432

March 10, 2026

March 16, 2026

Lewis County Planning
2025 NE Kresky Ave.
Chehalis WA 98532

Re: No Net Loss of Ecological Function Analysis

Applicant: Macfarlane Family Trust
c/o Mr. Shawn Macfarlane
Site Address: 1532 Ceres Hill Road, Chehalis
Tax Parcel #: 018642000000; MSR #: 25-0432

Dear Lewis County Planning:

Goode & Associates was retained by Mr. Shawn Macfarlane to assess 1532 Ceres Hill Road, Chehalis and decide as to the No-Net-Loss of Ecological Function (NNL) that may result from proposed redevelopment of the subject property. Lewis County reviewed a development proposal under Master Site Review MSR25-0432 and required this NNL assessment due to the proposed construction of personal-use RV pads within the Shorelines Jurisdiction of Bunker Creek.

Project Scope:

The customer proposes redeveloping the existing residential homesite and outbuildings. The proposal includes the demolition of all existing structures, the construction of three personal-use RV pads with connection to an existing, approved septic system, a private well, and the construction of a pole-building with living quarters and a residential septic system to be located at a minimum of 150 feet from the Ordinary High-Water Mark (OHWM) of Bunker Creek. A future, single-family residence is proposed more than 200' from the OHWM. Agricultural ponds are also proposed at a minimum setback of 100' from the OHWM. This NNL Analysis focuses specifically on the area on the west side of the shorelines of Bunker Creek that lies between 150 feet and 200 feet of the OHWM.

Requirement for a No Net Loss of Ecological Function Assessment:

The subject parcel is designated Rural Conservancy under the Lewis County Shoreline Master Program.

*The purpose of the Shoreline Master Program (SMP) Rural Conservancy designation is to protect ecological functions, conserve existing natural resources and valuable historic and cultural areas, provide for sustained resource use, achieve natural floodplain processes, and provide recreational opportunities in areas that are outside municipalities or UGA's. Examples of uses that are appropriate in the Rural Conservancy shoreline environment designation include low-impact outdoor recreation uses, forest production, **agricultural uses**, aquaculture, **low-intensity residential development**, and natural resource-based low-intensity uses. (SMP, 3.01.04).*

The SMP identifies management policies governing development within the Rural Conservancy shoreline environment designation, stating that development must be consistent with the following policies:

1. Uses in the Rural Conservancy...should include those that sustain the shoreline area's physical and biological resources and do not substantially degrade ecological functions or the rural or natural character of the shoreline area. (SMP, 3.01.04(C)(1))
2. Agriculture...and low-intensity residential development when consistent with provisions of the SMP are preferred uses. (SMP, 3.01.04(C)(3))
3. Proposed residential development should be designed to ensure no net loss of shoreline ecological functions and preserve the existing character of the shoreline. (SMP, 3.01.04(C)(8))

Bunker Creek bisects the parcel diagonally from the northwest to the southeast. Bunker Creek is designated as jurisdictional Shoreline under the Lewis County Shoreline Master Plan (SMP), adopted September 21, 2021. The SMP designates areas 200 feet landward of the Ordinary High-Water Mark (OHWM) of Bunker Creek to be shoreline jurisdiction.

A No-Net-Loss Analysis (NNL) is a generic term used to describe a higher level of site-specific documentation prepared by a qualified professional and is used to evaluate whether a proposal is compliant with the mitigation sequencing requirements of the Shoreline Master Program (DOE Shoreline Permitting Manual, 2023. p 7). The SMP is

based upon mitigation sequencing which includes applying the following steps of most to least preferred actions:

1. Avoiding the impact altogether by not taking certain actions or parts of an action
2. Minimizing impacts by limiting the degree or magnitude of the implementation by using appropriate technology or by taking steps to avoid or reduce impacts
3. Rectifying or eliminating the impact over time by preservation and maintenance operations
4. Reducing or eliminating the impact over time by preservation and maintenance operations
5. Compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and
6. Monitoring the impact and the compensation projects and taking appropriate corrective measures

Existing Site Features:

Parcel Size & Location: The subject parcel is 36.16 acres located at 1532 Ceres Hill Road, Chehalis in Section 6, Township 13N, Range 3W. The subject parcel is one of six contiguous parcels under ownership of the Macfarlane Family Trust. The total acreage is approximately 108.7 acres.

Existing Structures and Current Land Use: The subject parcel was used as a rural homestead and farm, dating back to the late 19th or early 20th century. The existing structures included a single-family residence, multiple outbuildings used for farming activities (barn, granary, milking parlor, creamery, sheds, etc.), a drinking water well, and a four-bedroom septic system. The septic system was permitted by Lewis County as a repair under permit #9708011. All other developments appear to have pre-dated Lewis County permitting requirements. All existing structures, except for one out-building, were located within 150 feet of the OHWM of Bunker Creek. An existing driveway accesses the subject property from Ceres Hill Road and extends approximately 1200 feet to the location of the existing homestead.

The remainder of land outside of the developed homestead is currently used for irrigated cattle forage production. The fields are permanently planted in perennial forage grass and mowed several times per year.

Removal of the Existing Structures: The existing structures were in poor condition and presented an attractive nuisance to human safety. The structures were demolished by permit in January 2026 and removed from the subject parcel for off-site disposal.

Designation of the OHWM, Establishment of a Conservancy Easement and determination of the area considered Shorelines Environment: The OHWM is defined by the Washington State Department of Ecology as: *“That mark that will be found by examining the bed and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation as that condition exists on June 1, 1971, as it may naturally change thereafter, or at it may change thereafter in accordance with permits issued by a local government of the Department of Ecology.*

The OHWM was delineated by Bluhm & Associates Land Surveyors at the request of the Chehalis River Basin Flood Control District (Flood District). The Flood District acquired the property from the estate of Joe Sidorski in 2024 for the purpose of establishing a conservation easement. The easement extends 75 feet landward from the OHWM.

The Flood District works to make the Chehalis River Basin a safer place for communities impacted by flooding. The Flood District’s goals are to:

1. Reduce the risk associated with flooding and preserve life
2. Prevent damage to property
3. Protect, preserve, and conserve natural resources

The district’s proposed flood mitigation efforts include a flow-through dam allowing for volitional fish passage. Mitigation for the proposed dam includes, but is not limited to:

1. Implementing a vegetation management plan to minimize loss of trees and vegetation that provide wildlife habitat and shade, which protects the river from increasing temperatures
2. Ensuring continued transport of sediment and woody material necessary for fish habitat
3. Expanding riparian buffers
4. Improving floodplain connectivity and adding complexity and diversity of channels
5. Enhancing wetlands across the Chehalis Basin
6. Managing invasive species

7. Additional riparian planting to increase shade in other areas of the river

The conservation easement on the subject property extends landward 75 feet from the OHWM and is monumented as depicted on the Bluhm & Associates Record of Survey, Lewis County Auditor's File Number 3627282.

The recorded OHWM and associated 200-foot Shoreline Jurisdiction is slightly westward of the Shorelines Jurisdiction depicted on Lewis County Critical Areas mapping. The critical areas map is considered a general guide as to the location of the known shoreline environment. A detailed site investigation and subsequent maps prepared by Goode & Associates use the OHWM depicted in the recorded survey and shall prevail over the less conservative, estimated shoreline environment presented on the county critical areas mapping.

Site Soils and Drainage: The site soils in the proposed development area are mapped by NRCS Websoil as Chehalis-Maytown complex, 0 to 10% slopes (1224). The Chehalis Series is described as silt loam to silty clay loam to a depth of more than 50 inches and then loam to a depth exceeding 60 inches. The soil is well drained and found on floodplains and alluvial terraces. Two soil test pits were excavated in January 2026 to a depth of 72 inches in the proposed drainfield area and found to be consistent with the predicted soil series.

Topography: The west half of the subject parcel is relatively flat, sloping east to west beginning west at the existing driveway. The area of the subject property east of Bunker Creek is approximately 10 feet lower in elevation than the subject area.

Flood Plain: The proposed development area is almost entirely outside of the 500-year flood plain. The entire parcel was impacted by the 2007 Flood and inundated with hundreds of tons of trash and woody debris. The debris was removed from the site prior to its current ownership by the Macfarlane Family Trust. The east half of the parcel (east of Bunker Creek) and the adjacent parcels with contiguous ownership by the Trust are almost entirely within the 100 and 500-year flood plain.

Priority Habitat and Species: The Washington State Department of Fish and Wildlife indicates that Bunker Creek likely provides habitat for several fish species including Coho, Rainbow Trout, Winter Steelhead and Steelhead. Roosevelt elk is also predicted to present on or near the subject property. None of these species are listed by the WDFW as threatened or endangered at this time. No wetlands are mapped by the National Wetland Inventory on the subject parcel and informal field reconnaissance by Goode & Associates did not reveal the presence of wetland habitat within 300 feet of the proposed development area.

Definition of Shoreline Buffer (Buffer): The definition of buffer used throughout this document is *“a required vegetated open space measured horizontally upland from and perpendicular to the OHWM. Shoreline buffers are naturally vegetated areas that protect the ecological functions of the shoreline and help to reduce the impacts of land uses on the water body”* (SMP, Definitions. p. 138)

Definition of Ecological Functions: The SMP defines ecological function as: *“the work performed or the role played by the physical, chemical, and biological processes that contribute to the maintenance of the aquatic and terrestrial environments that constitute the shoreline’s natural ecosystem.”*

Required Standard Shoreline Buffer from the OHWM: According to the Lewis County Shoreline Master Program, a buffer of 150 feet for non-water-oriented recreational structures and uses (RV sites) is required; the standard required buffer is also 150 feet for residential development.

Method of Field Investigation:

Goode & Associates obtained the recorded survey prepared by Bluhm & Associates which delineated the 75-foot conservation easement landward of the OHWM. A setback of 75 additional feet was offset from the conservation easement to identify the 150-foot Shoreline Buffer and the 200-foot Shoreline Jurisdiction. The site was traversed on foot 11-13-25 to inventory the existing structures and evaluate the quality of the existing habitat between 150 feet and 200 feet of the OHWM.

A second site visit was conducted on 1-15-26 to evaluate soil test pits for the purpose of determining a proposed septic system drainfield location and system type.

Multiple online mapping databases were consulted for review of this project, including Google Earth, Lewis County Online Assessor’s Mapping (PATS), the NRCS WebSoil Survey, and the National Wetland Inventory.

A third site visit was conducted on 1-22-26 to document the removal of the existing structures and construction-stake the 150-foot shoreline environment buffer. The buffer was staked with four-foot lath and blue ribbon at 50-foot intervals.

Overgrown scrub-shrub vegetation was removed by the contractor during demolition of the buildings. The maintenance of this area is allowed, and it was necessary to remove

debris, scrap metal and iron implements left behind on the property after a century of farming to reduce potential risk to life, health and safety.

The area of the project site 150 feet to 200 feet from the OHWM, except for some orchard trees, is presently cultivated as perennial forage and is mowed several times during the growing season. The mowed area offers no known habitat for the listed WDFW Priority Species.

Representative photos of the existing structures and the vegetation in the 50-foot strip between the 150 and 200-foot buffers from both before and after the demolition of the existing structures are included as appendices.

Loss Analysis and Mitigation Plan:

The proposed building locations allow for siting of the structures outside of the 100-year floodplain while retaining most of the property for permanent agriculture. The proposed structures and future intended use of the property are consistent with the current zoning of the property of Agricultural Resource Land.

The RV sites are for recreational use only and must be used by friends or family. Commercial use of the RV sites is prohibited. The proposed personal-use RV sites are located 150 feet from the OHWM of Bunker Creek and will have low impact. The installation of a gravity sewer line is required within 150 feet of the OHWM to use the existing, permitted septic system, however the installation of the sewer line can be considered maintenance of the existing septic system which was permitted before the effective date of the SMP. Disturbance to the buffer would be one-time only for the installation of the line and would affect less than 100 square feet.

The re-development of this parcel will locate all proposed structures outside of the 150-foot buffer, whereas nearly all of the former structures were located within 150 feet of Bunker Creek, minimizing the impact of the existing development by moving it further away from Bunker Creek.

The established 75-foot conservation easement obtained by the Flood District and District's plan for future mitigation measures including enhanced riparian plantings will improve and enhance the existing habitat for all known Priority Species.

Recommendation: Approval of the proposed RV sites and a personal-use shop with living space (future ADU) at a minimum buffer of 150 feet would result in No Net Loss in

Ecological Function of the shoreline of Bunker Creek while allowing for the continued use of the property for long-term agriculture and low-intensity residential development.

Period of Validity:

This report shall be valid for a period of five years. Future land use applications may require preparation of a new or supplemental critical area assessment report unless it can be demonstrated to the satisfaction of the Lewis County critical areas ordinance administrator that the existing report is adequate.

This site plan and written assessment were prepared by me, Jean R. Yackley with Goode & Associates in Centralia, Washington. I am a Qualified Professional under LCC17.10.170, with a BS in Environmental Science, 24 years as a Licensed Onsite Wastewater Treatment System Designer (site assessment & soil evaluation), and seven years of wetland delineation experience. I am trained by the Department of Ecology in determination of the Ordinary High-Water Mark and wetland classification. I certify that the information presented in this assessment is true, accurate, and prepared to the best of my knowledge and experience.

As always, please feel to or email me with any questions related to this project.

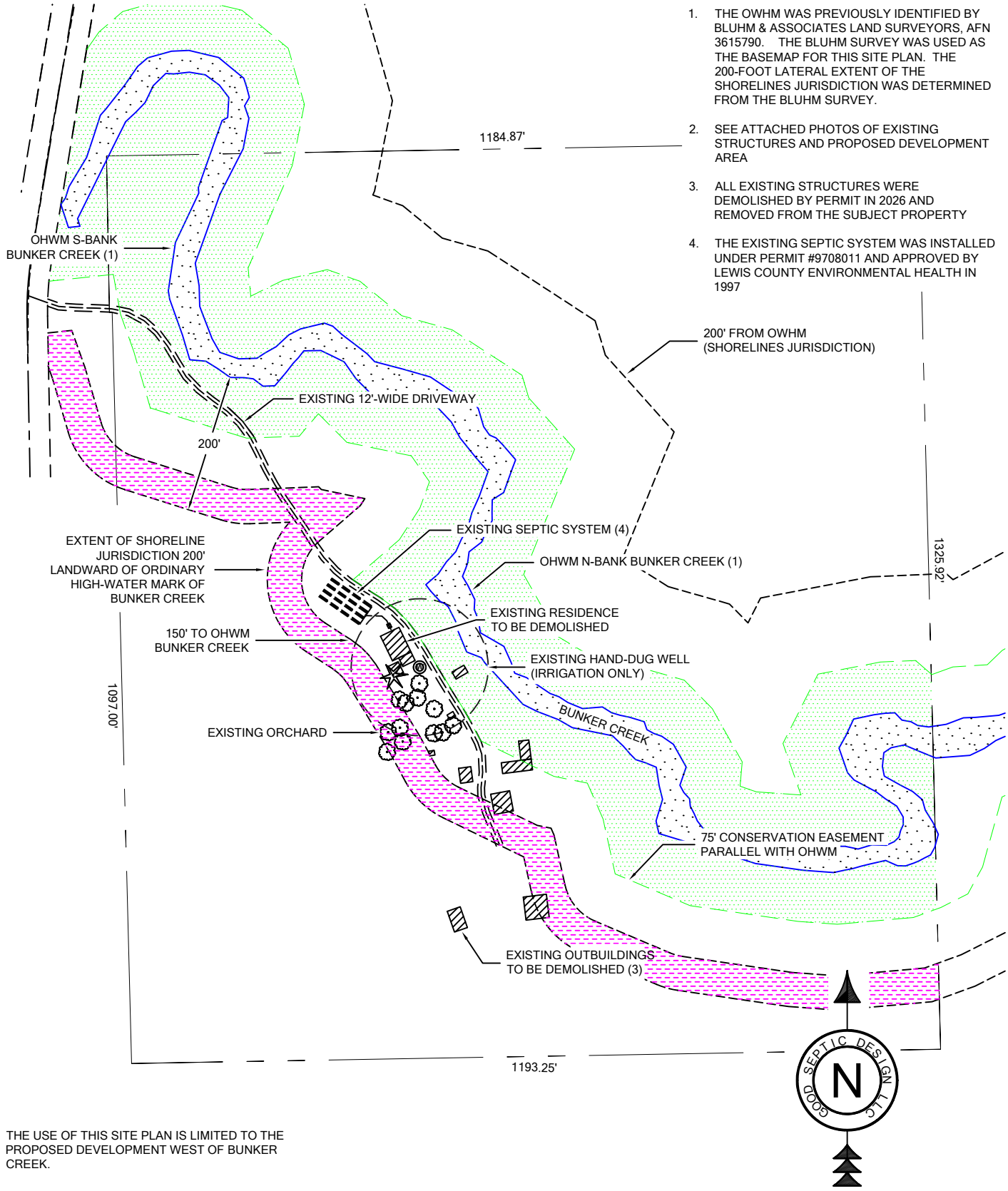
Respectfully Submitted,



Jean R. Yackley, Licensed Designer & Wetland Scientist

Cc: Shawn Macfarlane

1. THE OWHM WAS PREVIOUSLY IDENTIFIED BY BLUHM & ASSOCIATES LAND SURVEYORS, AFN 3615790. THE BLUHM SURVEY WAS USED AS THE BASEMAP FOR THIS SITE PLAN. THE 200-FOOT LATERAL EXTENT OF THE SHORELINES JURISDICTION WAS DETERMINED FROM THE BLUHM SURVEY.
2. SEE ATTACHED PHOTOS OF EXISTING STRUCTURES AND PROPOSED DEVELOPMENT AREA
3. ALL EXISTING STRUCTURES WERE DEMOLISHED BY PERMIT IN 2026 AND REMOVED FROM THE SUBJECT PROPERTY
4. THE EXISTING SEPTIC SYSTEM WAS INSTALLED UNDER PERMIT #9708011 AND APPROVED BY LEWIS COUNTY ENVIRONMENTAL HEALTH IN 1997



THE USE OF THIS SITE PLAN IS LIMITED TO THE PROPOSED DEVELOPMENT WEST OF BUNKER CREEK.

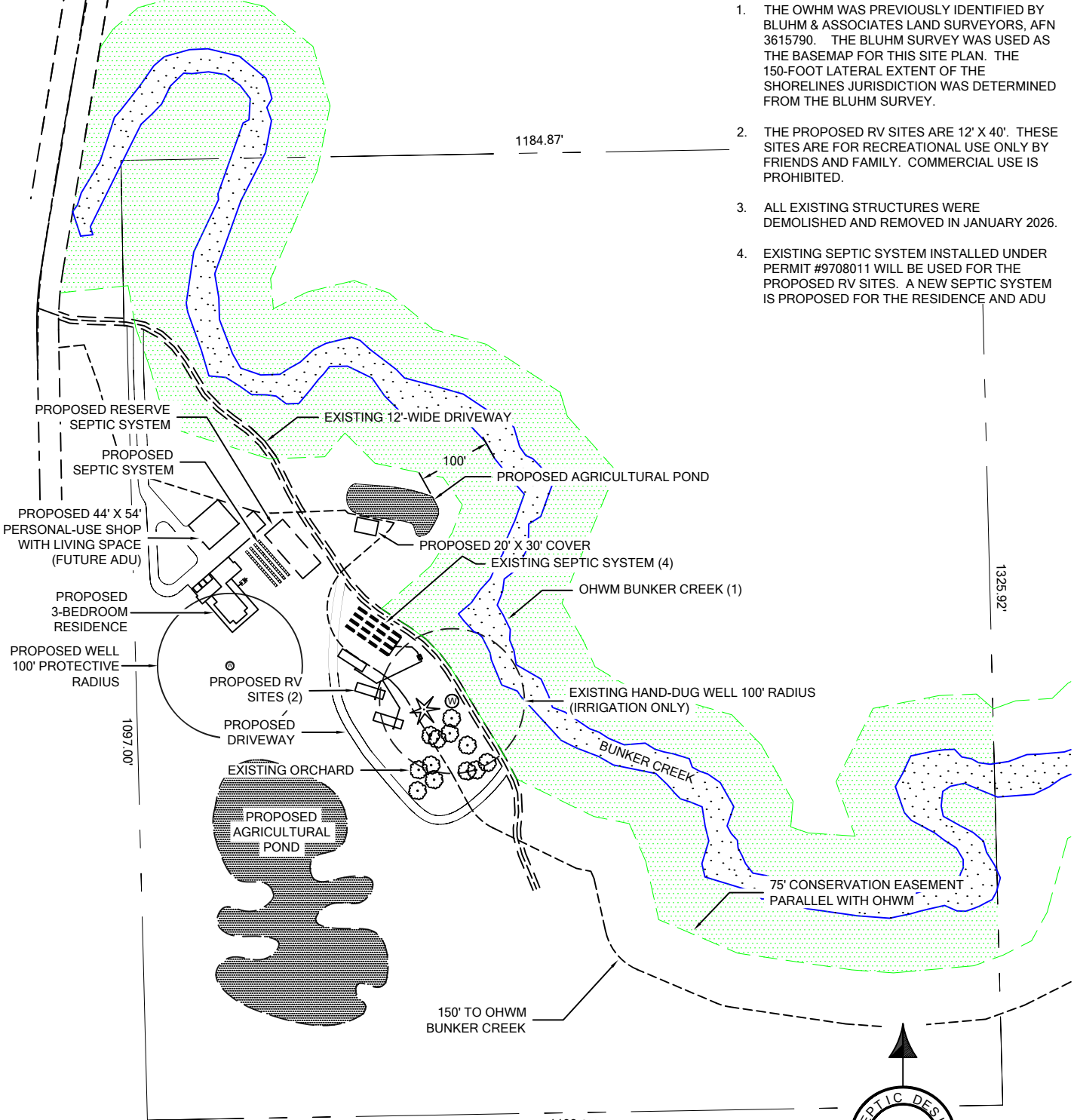
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 360-736-5218
 jeannie@goodsepticdesign.com

CAD DWG: 2025-65 MCFARLANE.DWG
 JOB #: 2025-65
 DRAWN BY: JY
 DATE: 3-17-26
 SCALE: 1" = 200'
 0 200'

MACFARLANE>NNL ASSESSMENT PRE-EXISTING DEVELOPMENT SITE PLAN

PREPARED FOR: SHAWN MACFARLANE
 SITE ADDRESS: 1532 CERES HILL ROAD
 CHEHALIS WA 98532
 TAX PARCEL ID #: 018642000000

1. THE OWHM WAS PREVIOUSLY IDENTIFIED BY BLUHM & ASSOCIATES LAND SURVEYORS, AFN 3615790. THE BLUHM SURVEY WAS USED AS THE BASEMAP FOR THIS SITE PLAN. THE 150-FOOT LATERAL EXTENT OF THE SHORELINES JURISDICTION WAS DETERMINED FROM THE BLUHM SURVEY.
2. THE PROPOSED RV SITES ARE 12' X 40'. THESE SITES ARE FOR RECREATIONAL USE ONLY BY FRIENDS AND FAMILY. COMMERCIAL USE IS PROHIBITED.
3. ALL EXISTING STRUCTURES WERE DEMOLISHED AND REMOVED IN JANUARY 2026.
4. EXISTING SEPTIC SYSTEM INSTALLED UNDER PERMIT #9708011 WILL BE USED FOR THE PROPOSED RV SITES. A NEW SEPTIC SYSTEM IS PROPOSED FOR THE RESIDENCE AND ADU



THE USE OF THIS SITE PLAN IS LIMITED TO THE PROPOSED DEVELOPMENT WEST OF BUNKER CREEK.



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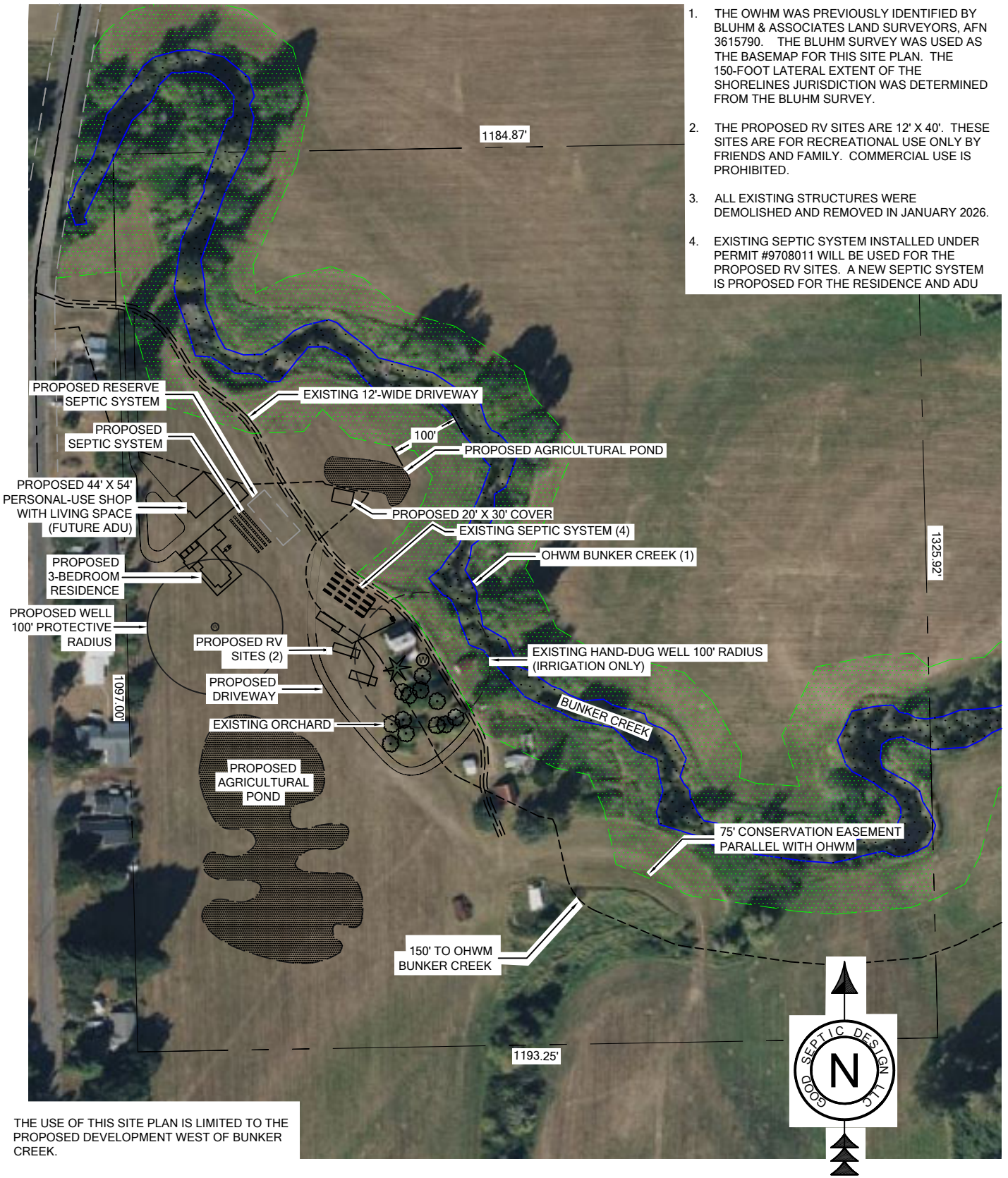
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MACFARLANE>NNL ASSESSMENT PROPOSED DEVELOPMENT SITE PLAN

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THE USE OF THIS SITE PLAN IS LIMITED TO THE PROPOSED DEVELOPMENT WEST OF BUNKER CREEK.

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MACFARLANE>NNL ASSESSMENT PROPOSED DEVELOPMENT SITE PLAN WITH AERIAL UNDERLAY

PREPARED FOR: SHAWN MACFARLANE
 SITE ADDRESS: 1532 CERES HILL ROAD
 CHEHALIS WA 98532
 TAX PARCEL ID #: 018642000000



FIGURE 1--EXISTING RESIDENCE CONSTRUCTED CA. 1900. DEMOLISHED JANUARY 2026. PHOTO DATED 11-13-25



FIGURE 2--EXISTING GARAGE/ STORAGE SHED. DEMOLISHED JANUARY 2026.

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MACFARLANE SITE PHOTOS

PREPARED FOR: SHAWN MACFARLANE
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FIGURE 3--EXISTING SHED TO BE DEMOLISHED. PHOTO DATED 11-13-25. DEMOLISHED JANUARY 2026



FIGURE 4--EXISTING STORAGE SHED. DEMOLISHED JANUARY 2026

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FIGURE 5--EXISTING GRANARY DEMOLISHED JANUARY 2026. PHOTO DATED 11-13-25



FIGURE 6--EXISTING CREAMERY/STORAGE SHED. DEMOLISHED JANUARY 2026

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FIGURE 7--EXISTING MACHINE SHED. DEMOLISHED JANUARY 2026. PHOTO DATED 11-13-25



FIGURE 8--COLLAPSED EXISTING STORAGE SHED. DEMOLISHED JANUARY 2026

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FIGURE 9--EXISTING STORAGE SHED DEMLISHED JANUARY 2026. PHOTO DATED 11-13-25

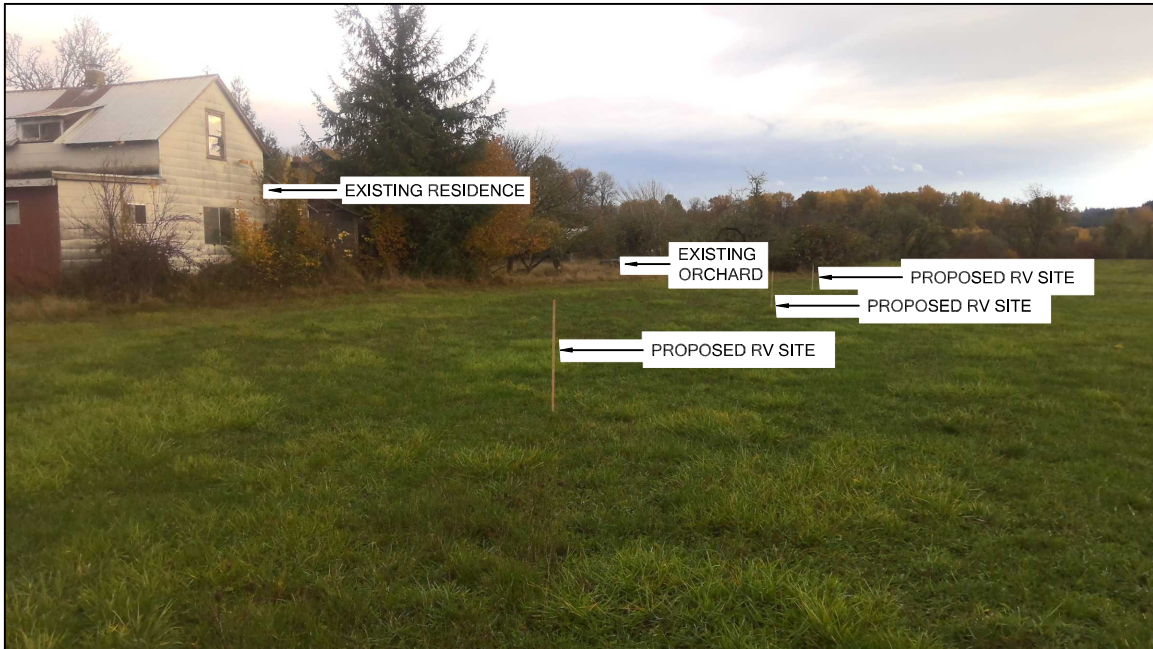


FIGURE 10--PROPOSED RV SITES IN THE FIELD WEST OF THE EXISTING RESIDENCE. THE RV SITES ARE NOT FOR COMMERCIAL USE AND ARE LIMITED TO USE BY FRIENDS AND FAMILY ONLY. THE RESIDENCE WAS DEMOLISHED IN JANUARY 2026.

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FIGURE 11--SITE OF PROPOSED 40' X 80' PERSONAL-USE SHOP AND FUTURE RESIDENCE. LOOKING NORTHWEST FROM EXISTING DRIVEWAY.



FIGURE 12--SOIL TEST PIT IN PROPOSED DRAINFIELD AREA. SOILS DETERMINED TO BE CONSISTENT WITH CHEHALIS-MAYTOWN COMPLEX AND FOUND TO BE WELL DRAINED SILT LOAM TO LOAM AT A DEPTH GREATER THAN 72 INCHES. PHOTO DATED 1-15-26

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FIGURE 13--PROPOSED DRAINFIELD AREA, LOOKING EAST TOWARDS BUNKER CREEK. PHOTO DATED 1-15-26

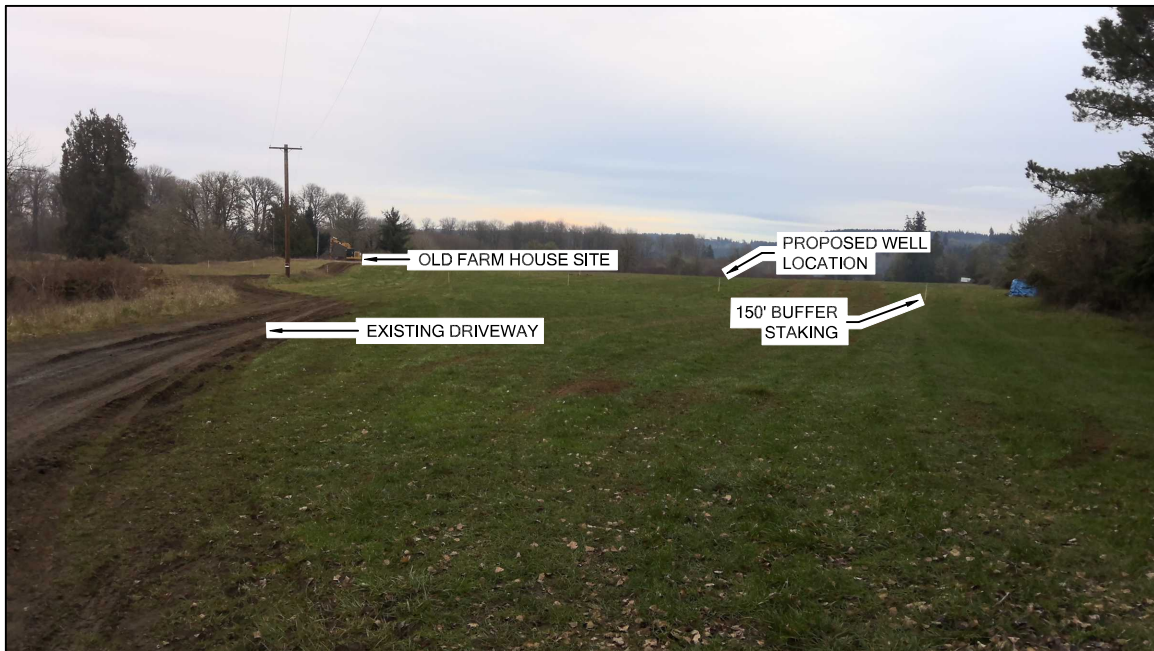


FIGURE 14--LOOKING SOUTH AT PROPOSED DEVELOPMENT AREA. THE 150' SHORELINES BUFFER FIELD-STAKED BY GOODE & ASSOCIATES ON JANUARY 22, 2016. STAKES WERE PLACE EVERY 50 FEET ALONG THE BUFFER

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PAGE 7 OF 8

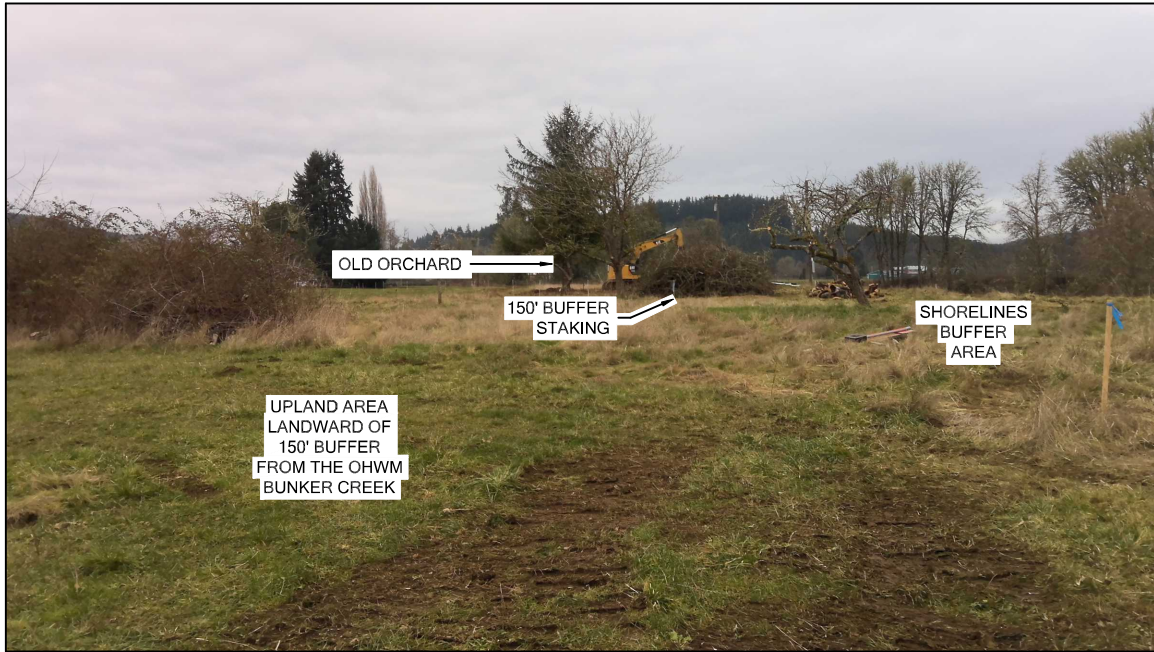


FIGURE 15--LOOKING NORTH TOWARDS OLD HOME SITE. THE 150' BUFFER IS STAKED AT 50' INTERVALS. PHOTO DATED 1-22-26



FIGURE 16--LOOKING WEST TOWARDS WEST AREA GREATER THAN 150 LANDWARD OF THE OHWM BUNKER CREEK. AREA IS CURRENTLY USED AS LONG-TERM NON-IRRIGATED FORAGE PRODUCTION. PHOTO DATED 1-22-26

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3627282

NW COR. SEC. 6
 10-4-24 FND 2" BRASS
 SURFACE MONUMENT
 PER REF. SURVEY #3
 RP'S
 1) POWER POLE #B229629 N57°W 47.25'
 2) POWER POLE #B2983 N81°E 151.1'
 3) POST N4°E 28.07'

NE COR. SEC. 6
 10-4-24 FND PK NAIL IN
 TOP CENTER OF 8"X6"X6"
 FENCE POST, PER REF. SURVEY #3
 FENCE RUNNING NORTH, EAST & WEST
 NO AVAILABLE RP'S

N 1/4 SEC. 6
 CALCULATED PER REF. SURVEY #3

E 1/4 SEC. 6
 CALCULATED PER REF. SURVEY #3

W 1/4 SEC. 6
 CALCULATED PER REF. SURVEY #3

C 1/4 SEC. 6
 CALCULATED PER REF. SURVEY #3

SW COR. SEC. 6
 10-4-24 FND 3-1/2" BRASS
 LEWIS COUNTY SURFACE MONUMENT
 PER REF. SURVEY #7
 RP'S
 1) 12" GATE POST S40°W 52.30'
 2) 12" CORNER POST N82°W 49.10'
 3) POWER POLE #B243323 N18°W 149.53'

SE COR. SEC. 6
 10-4-24 FND 3-1/2" BRASS
 LEWIS COUNTY SURFACE MONUMENT
 PER REF. SURVEY #6
 RP'S
 1) CARSONITE POST S86°W 15.15'
 2) 7" FENCE POST S27°E 42.20'
 3) POWER POLE #B241715 N83°E 88.45'
 4) 42" OAK N09°E 97.00'

S 1/4 SEC. 6
 CALCULATED PER REF. SURVEY #3

AMENDED RECORD OF SURVEY
PORTIONS OF THE NW 1/4 NW 1/4, SW 1/4 NW 1/4, SE 1/4 NW 1/4, NW 1/4 SW 1/4
OF SECTION 6, TOWNSHIP 13 NORTH, RANGE 3 WEST, W.M.,
ALSO PORTIONS OF THE NE 1/4 NE 1/4 & THE SE 1/4 NE 1/4
OF SECTION 1, TOWNSHIP 13 NORTH, RANGE 4 WEST, W.M.
LEWIS COUNTY, WASHINGTON

BASIS OF BEARING: RECORD OF SURVEY FILED IN VOL. 20,
 PG. 150, RECORDS OF LEWIS COUNTY, WASHINGTON.

LINE TABLE					
LINE	BEARING	DISTANCE	LINE BEARING	DISTANCE	
L1	N 43°30'18" W	296.24'	L71	S 29°31'05" E	60.36'
L2	N 18°08'25" W	202.17'	L72	S 24°15'56" E	38.92'
L3	N 07°47'49" E	54.90'	L73	S 59°08'50" E	61.62'
L4	N 20°41'32" E	174.14'	L74	N 85°24'25" E	35.26'
L5	N 53°06'09" E	30.59'	L75	S 57°58'57" E	30.53'
L6	N 68°19'21" E	268.57'	L76	S 74°06'12" E	77.78'
L7	S 72°43'00" E	50.25'	L77	S 44°30'44" E	58.40'
L8	S 88°59'23" W	139.98'	L78	S 29°18'06" E	89.20'
L9	S 88°59'23" W	230.50'	L79	S 05°01'47" W	35.59'
L10	S 01°20'38" E	336.38'	L80	S 70°46'55" E	25.29'
L11	N 60°09'30" E	174.20'	L81	S 86°01'56" E	65.26'
L12	N 57°37'38" E	86.40'	L82	N 19°16'33" W	79.79'
L13	N 02°02'53" W	85.94'	L83	N 26°49'40" E	113.43'
L14	N 06°20'34" E	162.66'	L84	N 79°04'29" E	92.73'
L15	N 87°28'09" W	46.65'	L85	N 87°32'35" E	51.53'
L16	N 54°08'34" W	133.53'	L86	S 48°59'33" E	31.22'
L17	S 71°11'30" W	116.67'	L87	N 70°00'51" E	32.91'
L18	S 88°12'12" W	37.91'	L88	N 86°29'19" E	50.15'
L19	S 64°42'49" W	91.02'	L89	N 46°04'30" E	30.36'
L20	S 15°31'18" W	105.98'	L90	N 61°32'26" E	145.55'
L21	S 28°31'59" W	44.83'	L91	N 72°48'38" E	32.31'
L22	S 63°15'40" W	44.09'	L92	N 81°25'33" E	69.15'
L23	S 70°01'58" W	42.89'	L93	S 60°29'46" E	127.62'
L24	S 84°54'58" W	111.46'	L94	S 50°50'12" E	38.67'
L25	N 85°50'05" W	57.69'	L95	N 81°04'55" E	32.70'
L26	N 81°40'10" W	159.08'	L96	N 05°37'49" E	221.71'
L27	N 67°01'04" W	118.75'	L97	N 34°29'42" E	180.63'
L28	N 12°26'39" W	82.08'	L98	N 88°48'24" E	10.35'
L29	N 23°38'52" W	57.31'	L99	N 70°43'03" E	149.26'
L30	N 78°42'19" W	49.81'	L100	N 51°07'17" E	159.55'
L31	N 64°06'40" W	118.51'	L101	N 77°00'31" E	53.90'
L32	N 28°27'15" W	51.32'	L102	N 65°51'58" E	72.68'
L33	N 31°30'18" W	127.50'	L103	N 47°29'04" E	185.42'
L34	N 36°58'01" W	26.30'	L104	N 80°50'26" E	35.94'
L35	N 44°47'14" W	25.84'	L105	N 64°26'58" E	194.35'
L36	N 53°08'30" W	26.19'	L106	S 84°52'28" E	51.75'
L37	N 57°01'03" W	48.44'	L107	S 01°20'38" E	385.10'
L38	N 49°09'15" W	89.65'	L108	S 02°28'00" E	43.26'
L39	N 33°00'37" W	55.01'	L109	N 43°03'15" E	104.62'
L40	N 19°52'11" W	40.90'	L110	N 54°51'59" E	61.58'
L41	N 34°57'38" W	46.25'	L111	N 72°00'52" E	237.92'
L42	N 78°14'08" W	96.04'	L112	N 60°35'50" E	103.30'
L43	N 44°47'12" W	59.02'	L113	N 71°32'03" E	174.19'
L44	S 40°32'15" W	43.13'	L114	N 51°33'22" E	45.55'
L45	S 87°46'45" W	65.47'	L115	N 72°54'02" E	52.56'
L46	S 87°46'45" W	11.33'	L116	N 04°01'08" E	380.19'
L47	N 72°32'35" W	147.39'	L117	N 90°00'00" E	75.95'
L48	N 16°20'25" W	86.15'	L118	N 89°04'37" W	305.00'
L49	N 19°35'43" W	57.61'	L119	N 11°04'23" W	319.76'
L50	N 10°18'46" W	59.09'	L120	N 02°26'38" W	116.01'
L51	S 83°54'53" W	93.19'	L121	N 88°59'23" E	12.00'
L52	N 34°48'55" W	32.11'	L122	S 88°56'11" W	90.38'
L53	N 49°03'42" W	45.71'	L123	N 09°24'47" E	311.33'
L54	N 74°30'44" W	61.60'	L124	N 09°24'47" E	75.35'
L55	N 87°24'39" W	44.32'	L125	N 88°32'16" E	24.38'
L56	S 76°39'40" W	72.32'	L126	S 72°38'23" E	1070.00'
L57	S 50°36'24" W	87.46'	L127	N 56°53'28" W	1070.00'
L58	S 16°02'05" W	85.39'	L128	N 80°35'13" W	1070.00'
L59	N 11°09'30" W	90.92'	L129	N 88°56'11" E	477.46'
L60	S 23°20'39" W	162.80'	L130	N 80°35'13" W	477.46'
L61	S 05°21'54" E	41.48'	L131	N 47°07'05" W	52.68'
L62	N 63°47'04" E	51.86'	L132	N 33°57'43" W	127.52'
L63	N 76°14'17" E	66.91'	L133	N 27°33'35" W	73.96'
L64	S 70°15'14" E	50.80'	L134	S 35°33'15" E	587.09'
L65	S 50°34'56" E	79.10'	L135	N 88°56'11" E	4.00'
L66	S 74°18'34" E	76.41'	L136	S 01°28'53" E	308.01'
L67	S 56°56'59" E	121.70'	L137	N 88°56'11" E	6.25'
L68	S 16°34'15" E	34.55'	L138	S 01°28'53" E	789.03'
L69	S 41°49'27" E	100.33'	L139	N 89°04'37" E	30.00'
L70	S 22°07'39" W	197.58'	L140	N 89°04'37" E	26.92'

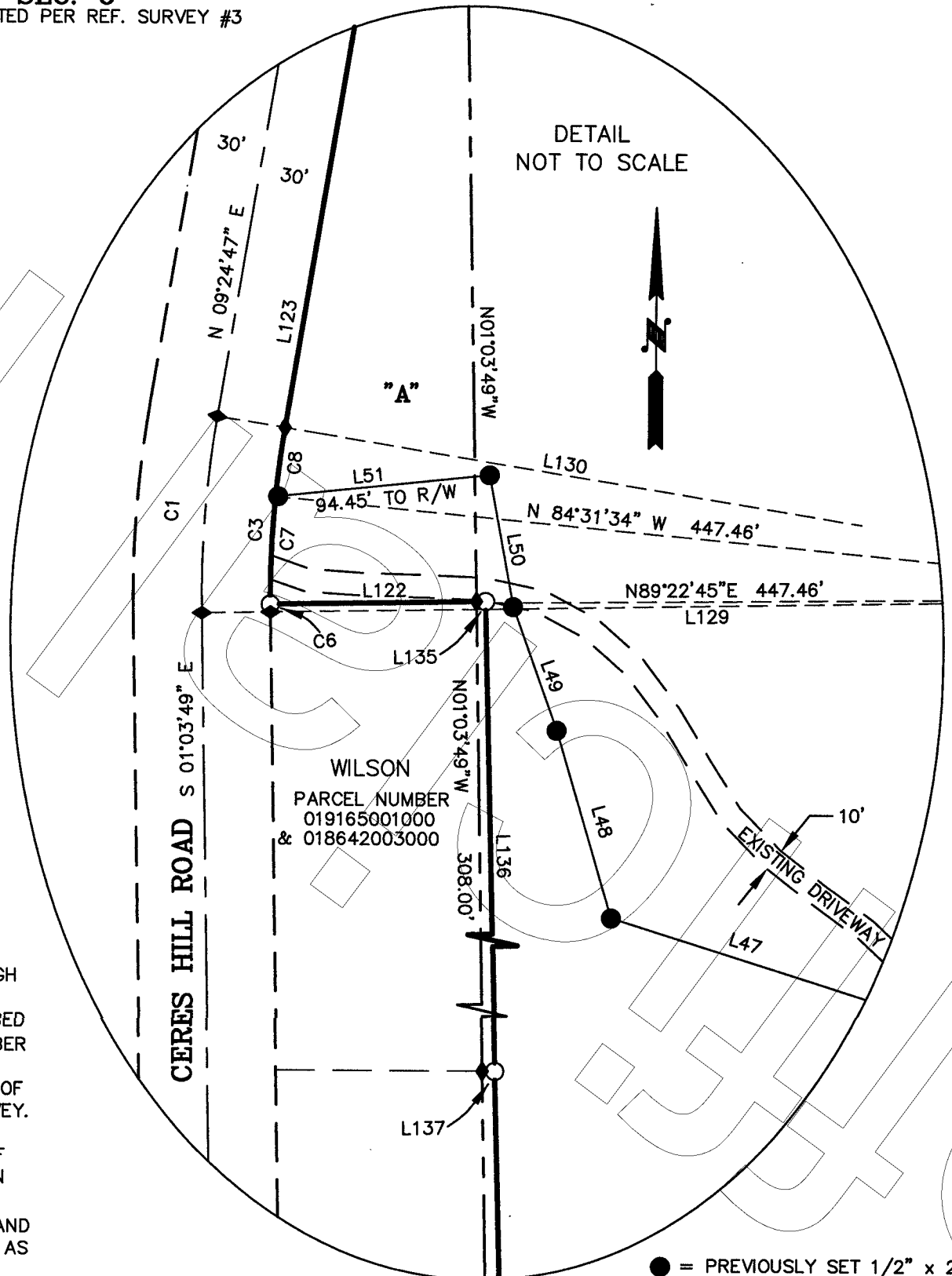
CURVE TABLE			
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE
C1	477.46'	87.30'	10°28'36"
C2	1100.00'	454.93'	23°41'45"
C3	447.46'	81.71'	10°28'36"
C4	1070.00'	148.41'	7°56'49"
C5	1070.00'	294.11'	15°44'56"
C6	447.46'	3.46'	0°26'34"
C7	447.46'	47.60'	6°05'41"
C8	447.46'	30.76'	3°56'21"

METHOD OF SURVEY
 SECTION CONTROL USING TOPCON GPS RECEIVERS AND
 FIELD TRAVERSE USING A TOPCON GM-50 (00°00'05") TOTAL
 STATION. THIS SURVEY MEETS OR EXCEEDS THE ACCURACY
 STANDARDS AS SET FORTH IN WAC 332-130-090.

NARRATIVE
 THE PURPOSE OF THIS SURVEY WAS TO MAP THE ORDINARY HIGH
 WATER OF BOTH SIDES OF BUNKER CREEK AND THE CHEHALIS
 RIVER AS THEY FLOW THROUGH THE TRACTS OF LANDS DESCRIBED
 IN BARGAIN AND SALE DEED FILED UNDER AUDITOR'S FILE NUMBER
 3610150, THEN CREATING A 75 FOOT EASEMENT RUNNING
 ADJACENT TO AND PARALLEL WITH THE ORDINARY HIGH WATER OF
 SAID WATERWAYS AS DEPICTED HEREON PAGE 2 OF THIS SURVEY.

THIS SURVEY HAS BEEN AMENDED AND SUPERSEDES RECORD OF
 SURVEY FILED IN VOL. 36, PG. 210, TO DEPICT A NEW LOCATION
 FOR A PROPOSED CONSERVATION EASEMENT "B", THE
 ESTABLISHMENT OF THREE NEW CORNERS (SEE DETAIL ABOVE) AND
 TO CORRECTLY DEPICT THE WEST LINE OF THE PARENT PARCEL AS
 NOW REQUESTED.

BLUHM AND ASSOCIATES LAND SURVEYORS, INC. MAKES NO WARRANTIES AS TO MATTERS
 OF UNWRITTEN TITLE SUCH AS ACQUIESCENCE, ESTOPPEL, ADVERSE POSSESSION, ETC.
 NO ATTEMPT WAS MADE TO SHOW ANY AND/OR ALL EASEMENTS THAT MAY BE ASSOCIATED
 WITH THIS PROPERTY.



- LEGEND**
- = PREVIOUSLY SET 1/2" x 24" REBAR WITH YELLOW PLASTIC CAP: K. BLUHM LS 29269 PER REF. SURVEY #10
 - = SET 1/2" x 24" REBAR WITH YELLOW PLASTIC CAP: K. BLUHM LS 29269
 - ⊕ = 1/16TH CORNER AS NOTED
 - ◆ = ANGLE POINT AND/OR INTERSECTING POINT (NOT SET)



- REFERENCE DEEDS**
- RIGHT OF WAY DEED FILED UNDER AUDITOR'S NUMBER 196231
 - RIGHT OF WAY DEED FILED UNDER AUDITOR'S NUMBER 196232
 - RIGHT OF WAY DEED FILED UNDER AUDITOR'S NUMBER 196287
 - DEED FILED UNDER AUDITOR'S NUMBER 259500
 - DEED FILED UNDER AUDITOR'S NUMBER 376159
 - WARRANTY DEED FILED UNDER AUDITOR'S NUMBER 455164
 - WARRANTY DEED FILED UNDER AUDITOR'S NUMBER 526200
 - WARRANTY DEED FILED UNDER AUDITOR'S NUMBER 551099
 - WARRANTY DEED FILED UNDER AUDITOR'S NUMBER 580086
 - QUIT CLAIM DEED FILED UNDER AUDITOR'S NUMBER 583356
 - QUIT CLAIM DEED FILED UNDER AUDITOR'S NUMBER 652295
 - QUIT CLAIM DEED FILED UNDER AUDITOR'S NUMBER 652296
 - DEED FILED UNDER AUDITOR'S NUMBER 809792
 - DEED FILED UNDER AUDITOR'S NUMBER 811330
 - BARGAIN AND SALE DEED FILED UNDER AUDITOR'S NUMBER 3610150
 - STATUTORY WARRANTY DEED FILED UNDER AUDITOR'S NUMBER 3597077

AUDITOR'S CERTIFICATE
 FILED FOR RECORD THIS 29th DAY OF Aug, 2025 AT
3:09 P.M. IN BOOK 37 OF SUR AT PAGE 29
 AT THE REQUEST OF BLUHM & ASSOCIATES LAND SURVEYORS, INC.
 DEPUTY COUNTY AUDITOR Wendy Hamilton

SURVEYOR'S CERTIFICATE
 THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME
 OR UNDER MY DIRECTION IN CONFORMANCE WITH THE
 REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE
 REQUEST OF CHEHALIS RIVER BASIN FLOOD CONTROL DIST.
 IN JUNE, 2025.
Kevin Bluhm
 KEVIN BLUHM - LICENSE NO. 29269

RECORD OF SURVEY DESCRIPTION
 BARGAIN AND SALE DEED FILED UNDER AUDITOR'S FILE NUMBER 3610150, RECORDS OF
 LEWIS COUNTY, WASHINGTON.
 TPN'S 018641006000, 018642000000, 018644000000, 018650000000, 019164001000,
 019161002000
 STATUTORY WARRANTY DEED FILED UNDER AUDITOR'S FILE NUMBER 3597077, RECORDS OF
 LEWIS COUNTY, WASHINGTON. TPN 018642003000 & 019165001000

Bluhm & Associates
 Land Surveyors, Inc.
 1068 S. MARKET BLVD.
 CHEHALIS, WA 98532
 PHONE (360) 748-1551
 FAX (360) 748-6282
 E-MAIL: kbluhm@surveyservices.com
 DRAWN BY: L. ANDERSON DATE: 6-24-25 JOB# 24-320
 CHECKED BY: LB SCALE: N/A SHEET 1 OF 2

3627282 B. 37 P. 29 SUR
 REVIEWED FOR APPLICABLE TAXES
 APPROVED FOR RECORDING
 LEWIS COUNTY TREASURER
 DATE: 6-26-25

3627282

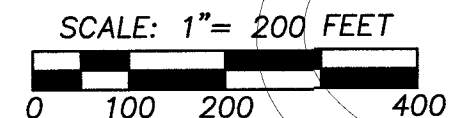
AMENDED RECORD OF SURVEY
PORTIONS OF THE NW 1/4 NW 1/4, SW 1/4 NW 1/4, SE 1/4 NW 1/4, NW 1/4 SW 1/4
OF SECTION 6, TOWNSHIP 13 NORTH, RANGE 3 WEST, W.M.,
ALSO PORTIONS OF THE NE 1/4 NE 1/4 & THE SE 1/4 NE 1/4
OF SECTION 1, TOWNSHIP 13 NORTH, RANGE 4 WEST, W.M.
LEWIS COUNTY, WASHINGTON

NW COR. SEC. 6
 10-4-24 FND 2" BRASS
 SURFACE MONUMENT
 PER REF. SURVEY #3

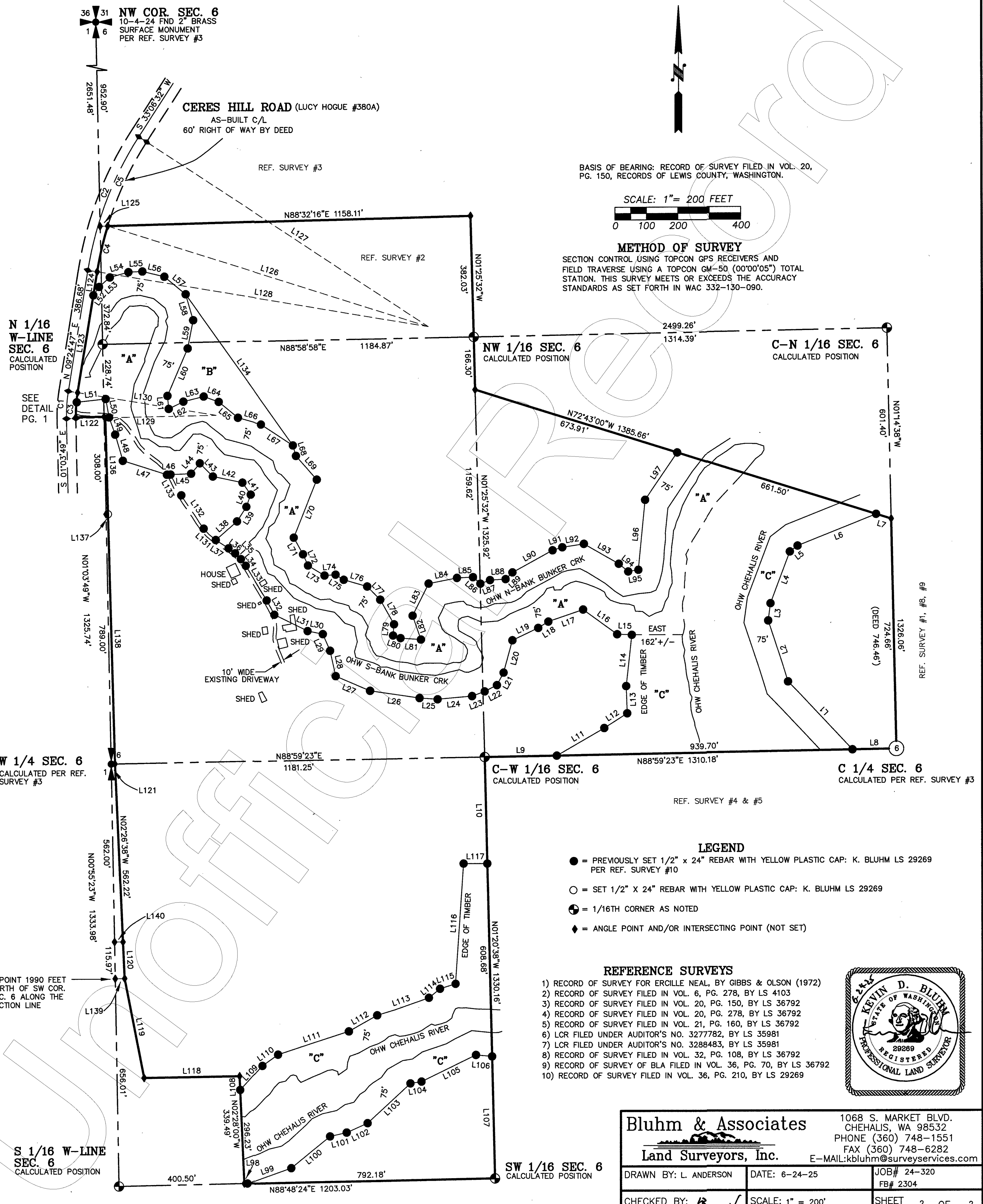
CERES HILL ROAD (LUCY HOGUE #380A)
 AS-BUILT C/L
 60' RIGHT OF WAY BY DEED



BASIS OF BEARING: RECORD OF SURVEY FILED IN VOL. 20,
 PG. 150, RECORDS OF LEWIS COUNTY, WASHINGTON.



METHOD OF SURVEY
 SECTION CONTROL USING TOPCON GPS RECEIVERS AND
 FIELD TRAVERSE USING A TOPCON GM-50 (00'00'05") TOTAL
 STATION. THIS SURVEY MEETS OR EXCEEDS THE ACCURACY
 STANDARDS AS SET FORTH IN WAC 332-130-090.



- LEGEND**
- = PREVIOUSLY SET 1/2" x 24" REBAR WITH YELLOW PLASTIC CAP: K. BLUHM LS 29269 PER REF. SURVEY #10
 - = SET 1/2" x 24" REBAR WITH YELLOW PLASTIC CAP: K. BLUHM LS 29269
 - ⊙ = 1/16TH CORNER AS NOTED
 - ◆ = ANGLE POINT AND/OR INTERSECTING POINT (NOT SET)

- REFERENCE SURVEYS**
- 1) RECORD OF SURVEY FOR ERCILLE NEAL, BY GIBBS & OLSON (1972)
 - 2) RECORD OF SURVEY FILED IN VOL. 6, PG. 278, BY LS 4103
 - 3) RECORD OF SURVEY FILED IN VOL. 20, PG. 150, BY LS 36792
 - 4) RECORD OF SURVEY FILED IN VOL. 20, PG. 278, BY LS 36792
 - 5) RECORD OF SURVEY FILED IN VOL. 21, PG. 160, BY LS 36792
 - 6) LCR FILED UNDER AUDITOR'S NO. 3277782, BY LS 35981
 - 7) LCR FILED UNDER AUDITOR'S NO. 3288483, BY LS 35981
 - 8) RECORD OF SURVEY FILED IN VOL. 32, PG. 108, BY LS 36792
 - 9) RECORD OF SURVEY OF BLA FILED IN VOL. 36, PG. 70, BY LS 36792
 - 10) RECORD OF SURVEY FILED IN VOL. 36, PG. 210, BY LS 29269



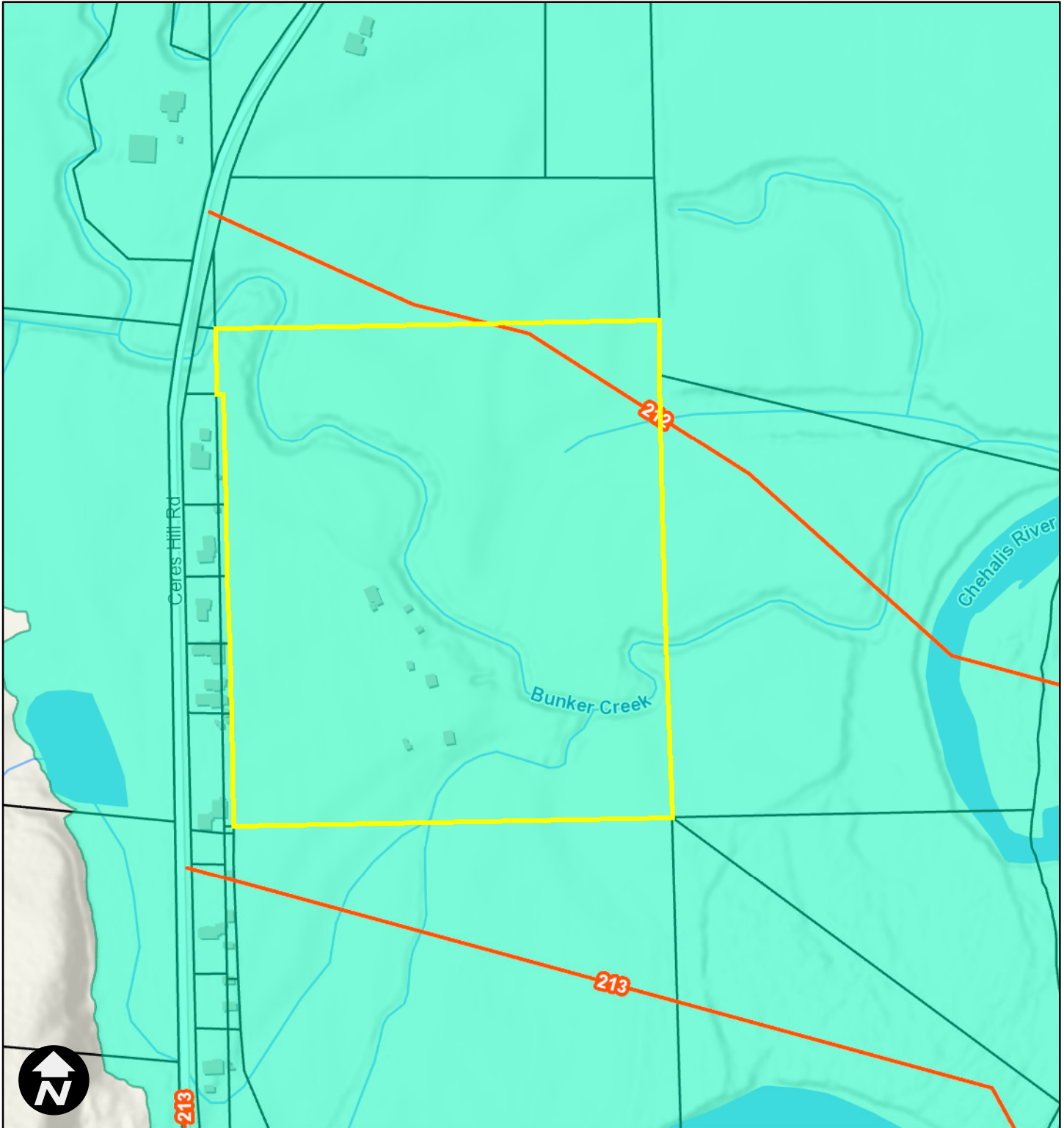
Bluhm & Associates		1068 S. MARKET BLVD. CHEHALIS, WA 98532	
Land Surveyors, Inc.		PHONE (360) 748-1551	
		FAX (360) 748-6282	
		E-MAIL: kbluhm@surveyservices.com	
DRAWN BY: L. ANDERSON	DATE: 6-24-25	JOB# 24-320	
CHECKED BY:	SCALE: 1" = 200'	FB# 2304	
		SHEET 2 OF 2	

A POINT 1990 FEET
 NORTH OF SW COR.
 SEC. 6 ALONG THE
 SECTION LINE

S 1/16 W-LINE
SEC. 6
 CALCULATED POSITION

SW 1/16 SEC. 6
 CALCULATED POSITION

1532 Ceres Hill Rd. - 2007 Flood



11/12/2025, 1:05:54 PM

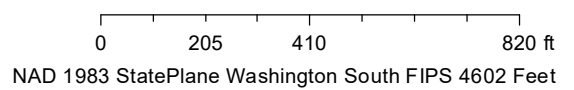
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 Parcels

2007 Water Elevation (NAVD88)

2007 Flood Inundation

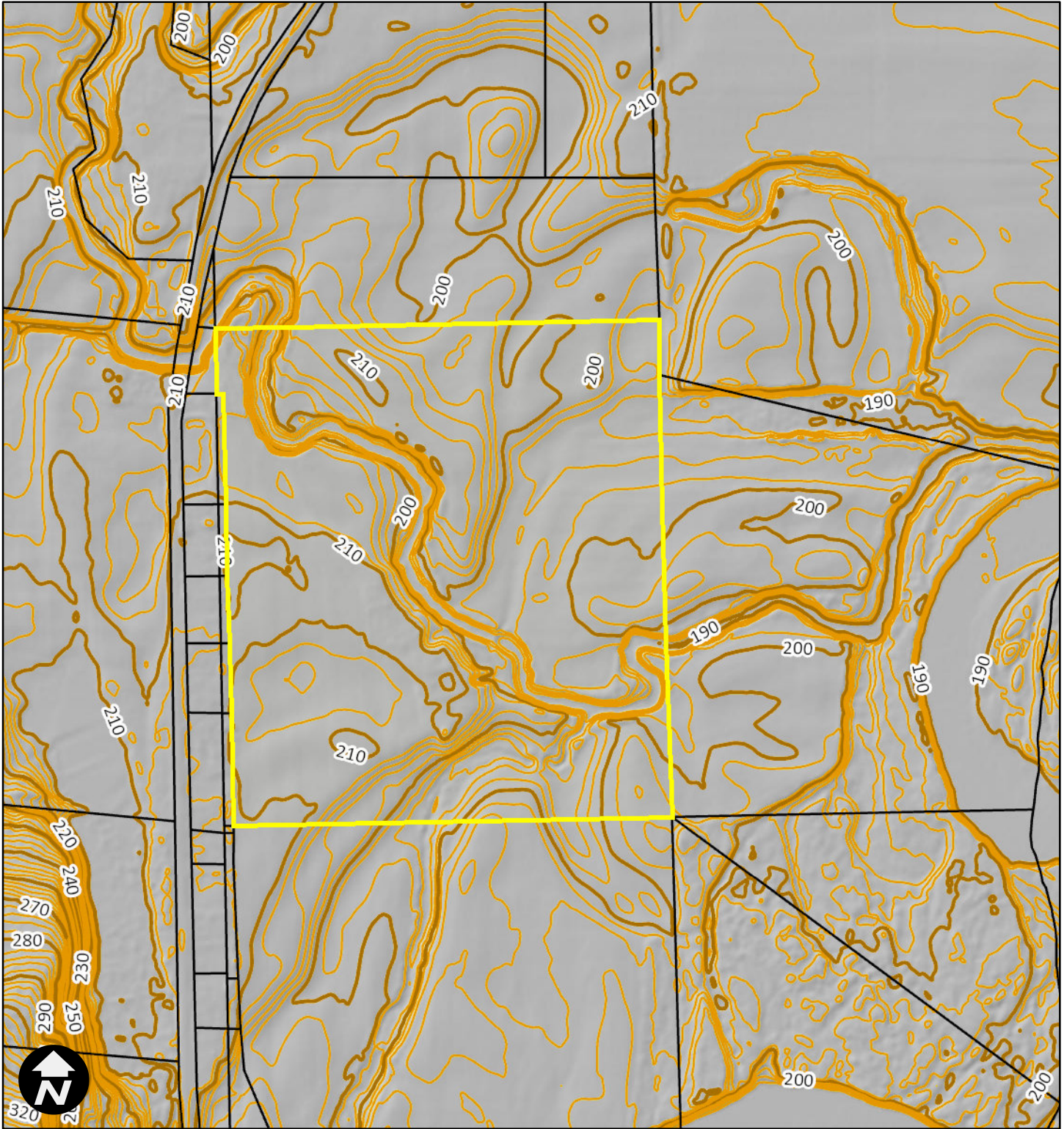
Parcels



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1532 Ceres Hill Rd. - Contours



11/12/2025, 1:07:47 PM

1:4,514

 Parcels

Parcels

2ft Contour

2ft

10ft

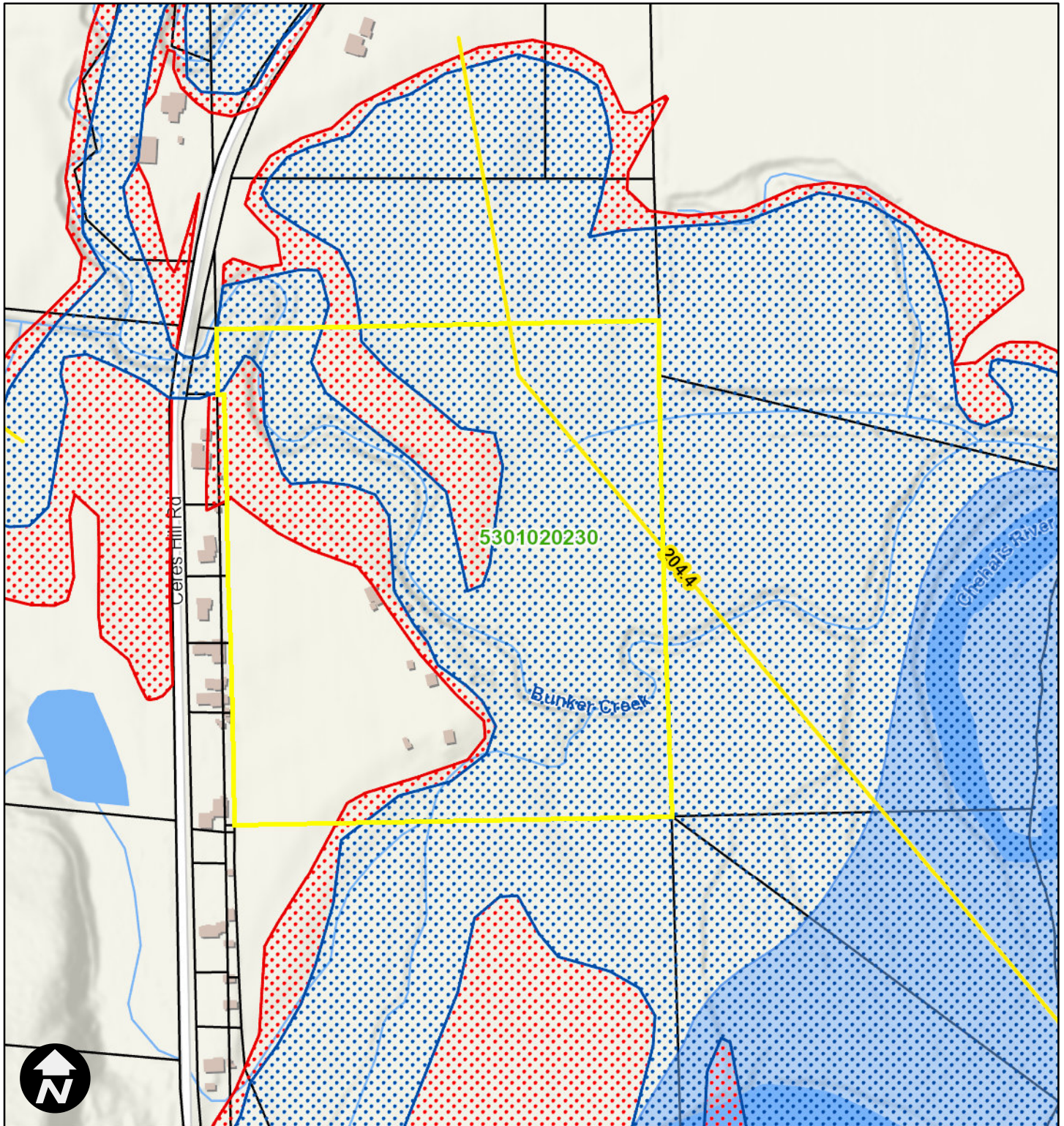
0 205 410 820 ft
NAD 1983 StatePlane Washington South FIPS 4602 Feet



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1532 Ceres Hill Rd. - FEMA 100YR & 500YR



11/12/2025, 1:05:00 PM

1:4,514



Parcels

Floodway

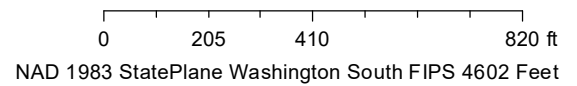
FEMA BFE (NAVD88)

Parcels

FEMA Panels

FEMA 100-Year

FEMA 500-Year








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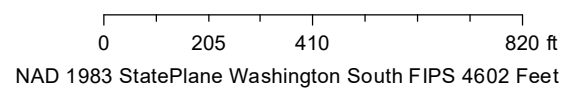
1532 Ceres Hill Rd. - Hydrology



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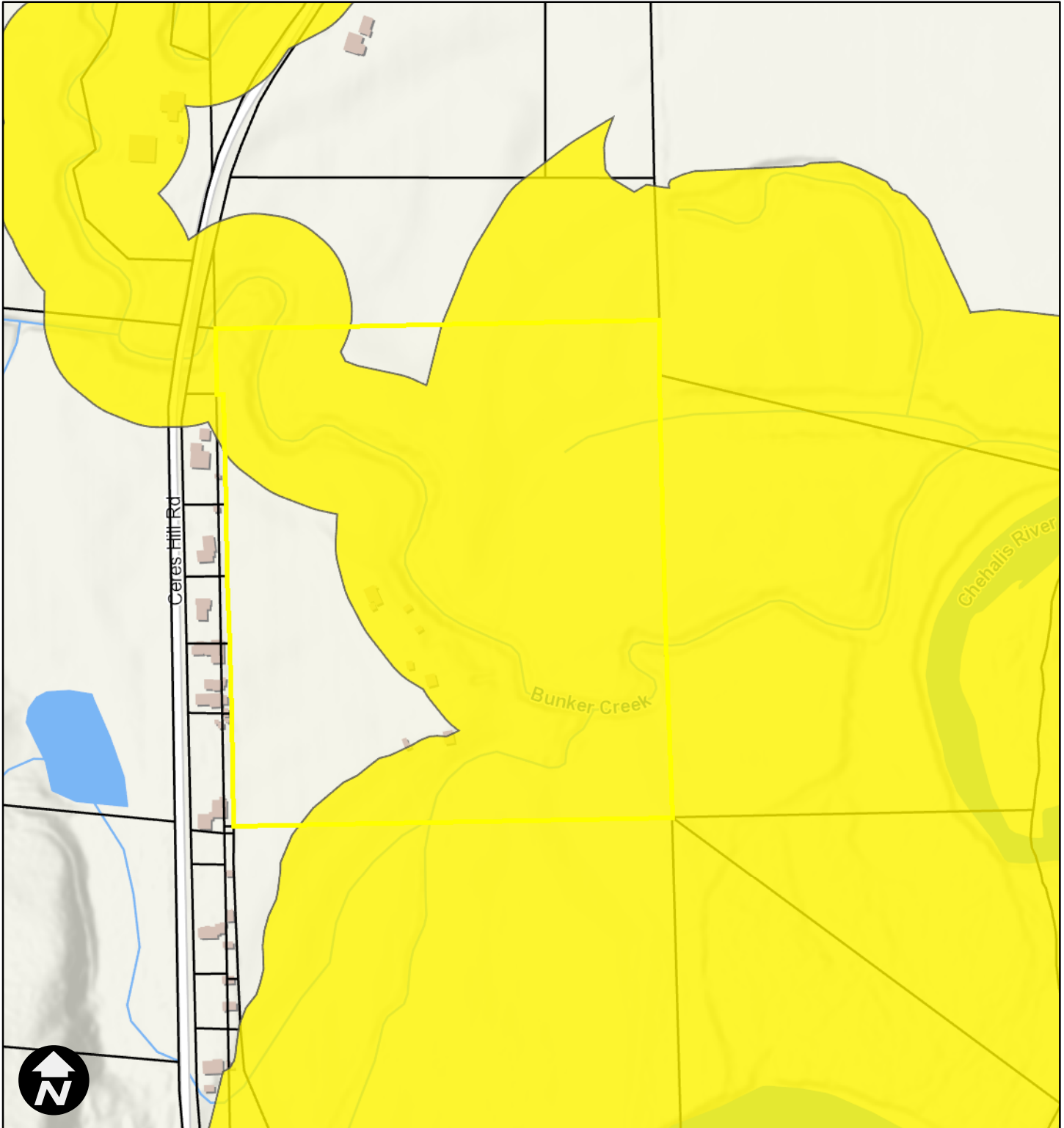
1:4,514

	Parcels	Unclassified
	Parcels	Waterbody
	Watercourse	Shoreline, Fish
	Shoreline, Fish	Non-Fish
	Non-Fish	Unclassified



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1532 Ceres Hill Rd. - Shoreline Environments



11/12/2025, 1:06:37 PM

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 Parcels

Shoreline Residential

Shoreline Environments

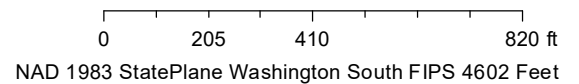
High Intensity

Aquatic

Parcels

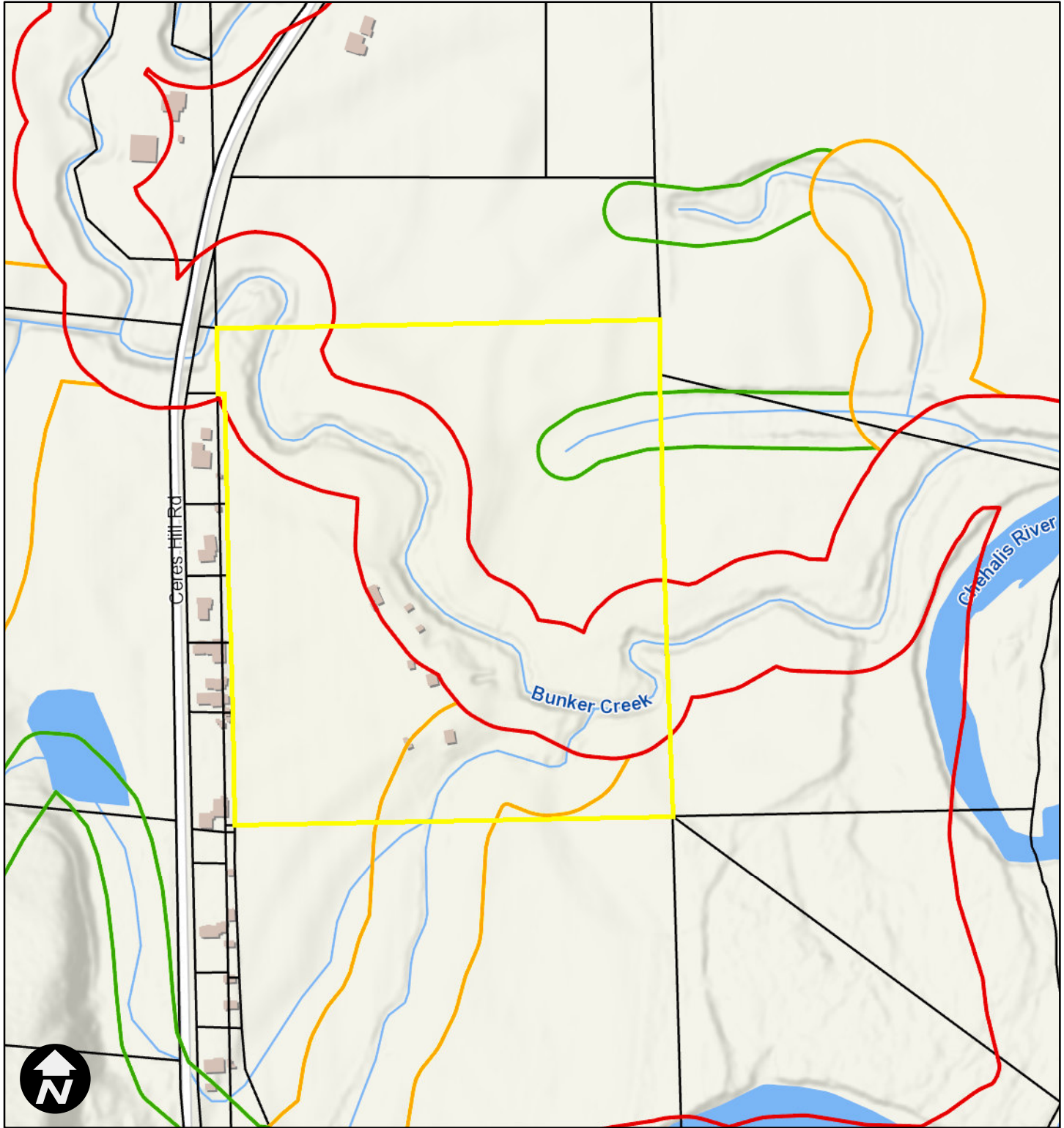
Natural

Rural or Urban Conservancy



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1532 Ceres Hill Rd. - Stream Buffers



11/12/2025, 1:06:58 PM

1:4,514

 Parcels

Parcels

Stream Buffers

Shoreline 150'

Fish 150'

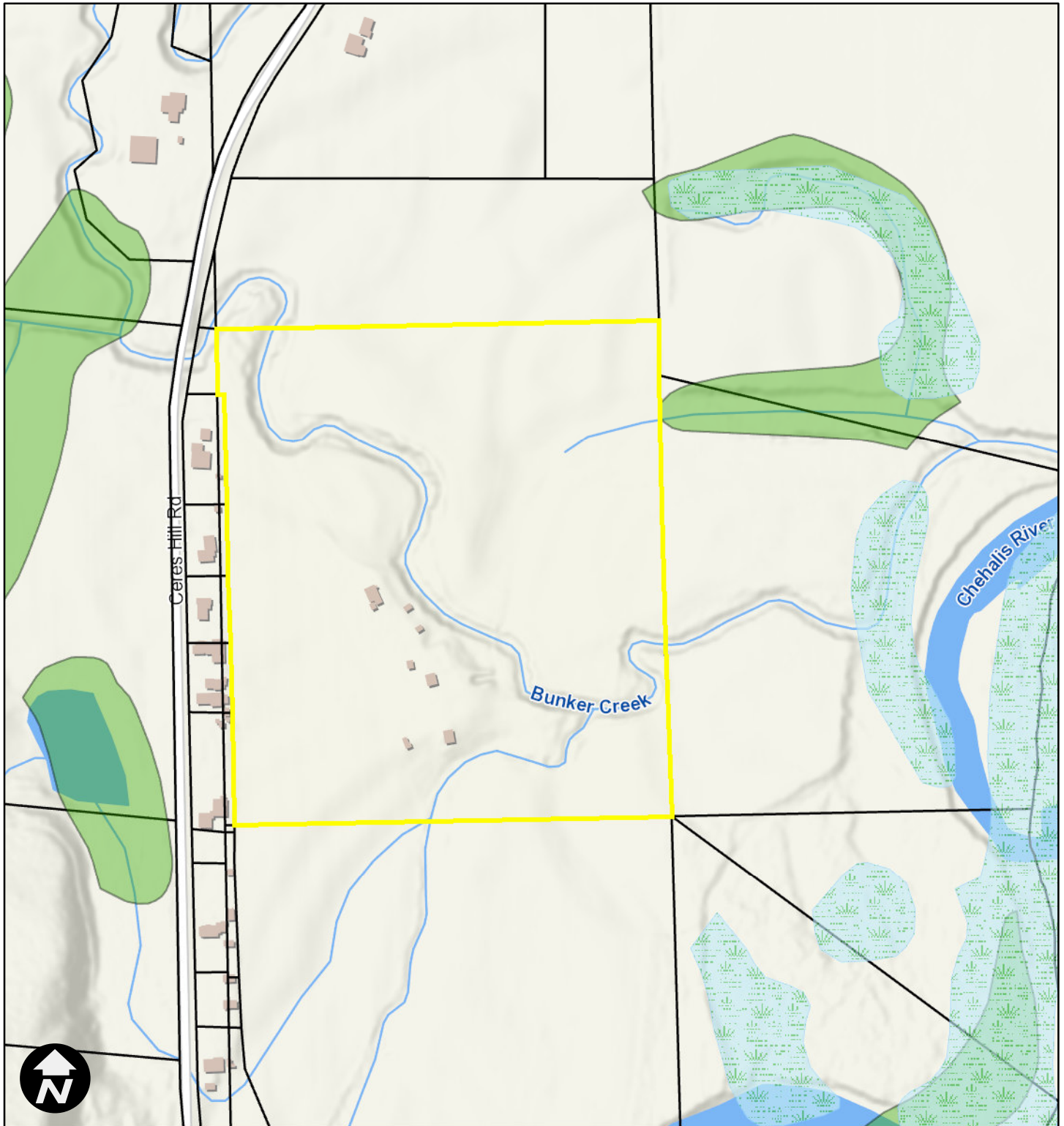
Non-Fish 75'

0 205 410 820 ft
NAD 1983 StatePlane Washington South FIPS 4602 Feet



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1532 Ceres Hill Rd. - Wetlands & Hydric Soils



11/12/2025, 1:04:09 PM

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-  Parcels
- Wetlands
- Hydric Soils
- Parcels

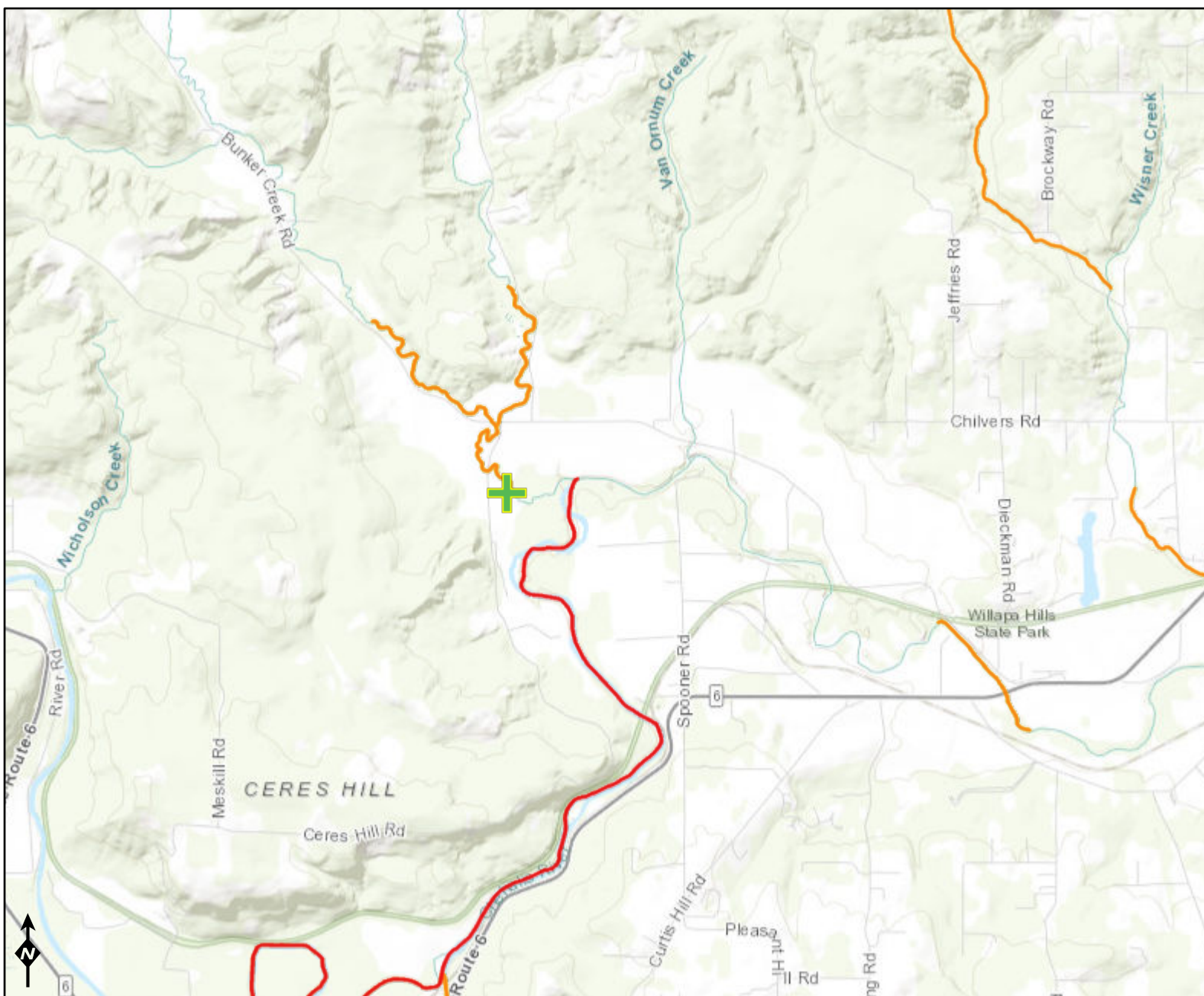
0 205 410 820 ft
NAD 1983 StatePlane Washington South FIPS 4602 Feet



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1532 Ceres Hill Rd. - WQA



Assessed Water/Sediment

Water

- Category 5 - 303d
- Category 4C
- Category 4B
- Category 4A
- Category 2
- Category 1

Sediment

- Category 5 - 303d
- Category 4C
- Category 4B
- Category 4A
- Category 2
- Category 1

1532 Ceres Hill Rd. - WRIA 23 Upper Chehalis

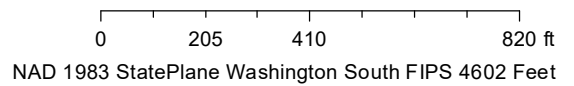


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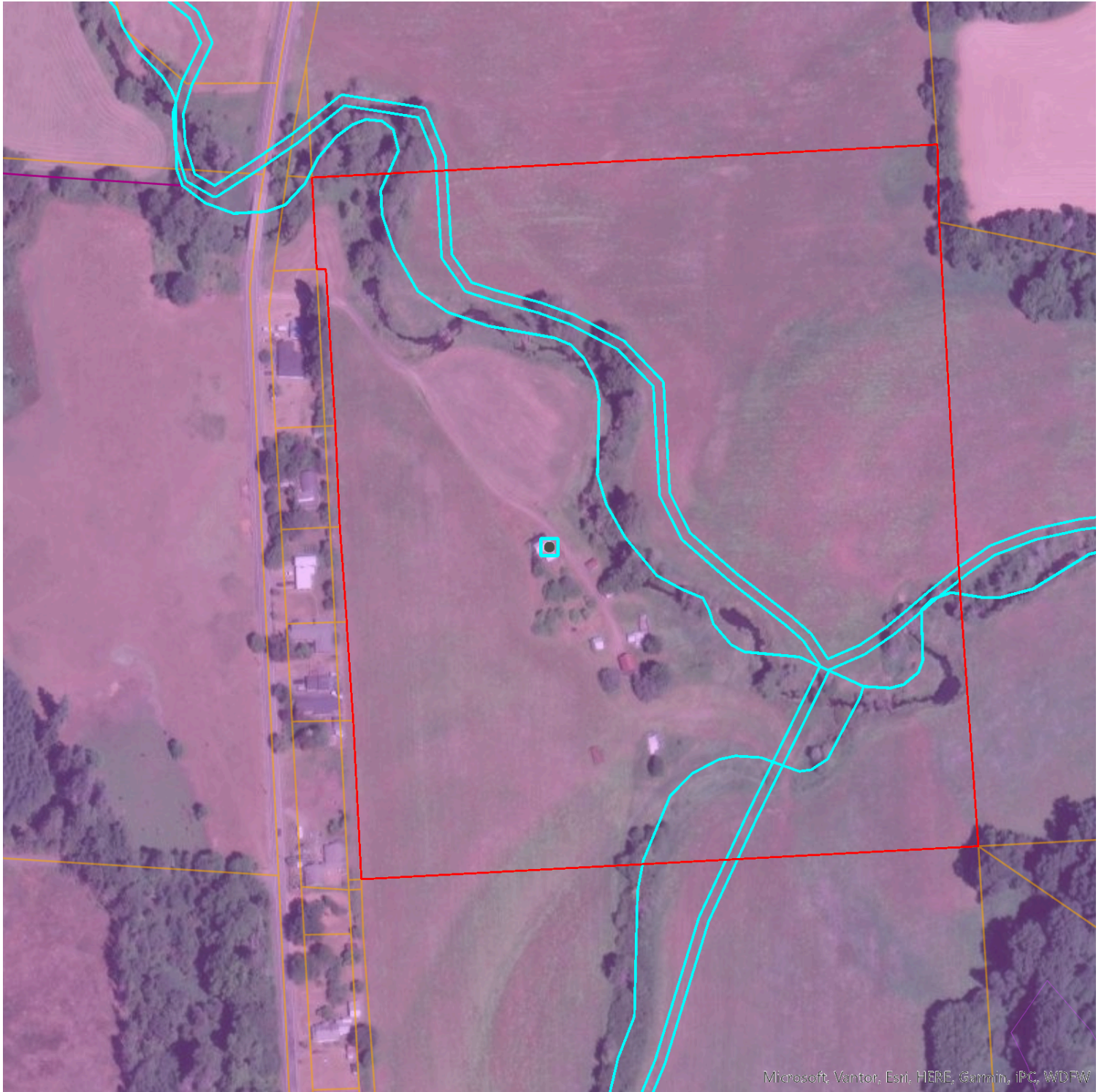
1:4,514

- Parcels
- WRIA (Watersheds)**
- All Others
- WRIAs 24, 25, 26
- WRIAs 11, 23

WRIA 13
Parcels



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Report Date: 11/12/2025, **Parcel ID:** [018642000000](#)

User Comments/Notes:

1532 Ceres Hill Road, Chehalis, WA 98532

PHS Species/Habitats Overview:

Occurrence Name	Federal Status	State Status	Sensitive Location
Coho	N/A	N/A	No
Rainbow Trout	N/A	N/A	No
Coho	Candidate	N/A	No
Winter Steelhead	N/A	N/A	No
Steelhead	Not Warranted	N/A	No
Roosevelt elk	N/A	N/A	No
Freshwater Forested/Shrub Wetland	N/A	N/A	No

PHS Species/Habitats Details:

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence/Migration
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	58617
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Rainbow Trout	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Site Name	Unnamed stream [1231131466420]
Accuracy	NA
Notes	LLID: 1231131466420, Fish Name: Rainbow Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	58702
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Stock Name: Chehalis Coho, Run: Unspecified, Status: Healthy
Source Record	3605
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Candidate
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Rainbow Trout	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Fish Name: Rainbow Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	58620
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Winter Steelhead	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Fish Name: Steelhead Trout, Run Time: Winter, Life History: Anadromous
Source Record	58621
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence/Migration
Site Name	Unnamed stream [1231131466420]
Accuracy	NA
Notes	LLID: 1231131466420, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	58701
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Breeding Area
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	58618
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Steelhead	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Stock Name: Chehalis Winter Steelhead, Run: Winter, Status: Healthy
Source Record	6574
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Not Warranted
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Breeding Area
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	58619
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Winter Steelhead	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Breeding Area
Site Name	Bunker Creek
Accuracy	NA
Notes	LLID: 1231081466416, Fish Name: Steelhead Trout, Run Time: Winter, Life History: Anadromous
Source Record	58622
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	http://wdfw.wa.gov/wlm/diversty/soc/soc.htm
ManagementRecommendations	https://wdfw.wa.gov/publications/00033
Geometry Type	Lines

Roosevelt elk	
Scientific Name	<i>Cervus elaphus roosevelti</i>
Priority Area	Regular Concentration
Accuracy	General locality
Notes	ROOSEVELT ELK WINTER RANGE. WILLAPA HERD.
Source Record	918523
Source Dataset	PHSREGION
Source Name	BENDER, LOU WDFW REG5
Source Entity	WA Dept. of Fish and Wildlife
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS LISTED OCCURRENCE
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	https://wdfw.wa.gov/publications/00614
Geometry Type	Polygons

Freshwater Forested/Shrub Wetland

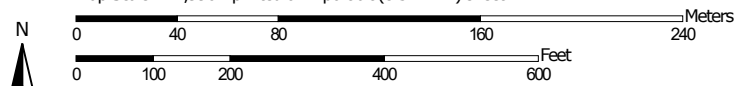
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Forested/Shrub Wetland - NWI Code: PFO1C
Source Dataset	NWIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	https://ecology.wa.gov/Water-Shorelines/Wetlands
Geometry Type	Polygons

DISCLAIMER. This report includes information that the Washington Department of Fish and Wildlife (WDFW) maintains in a central computer database. It is not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife. This information only documents the location of fish and wildlife resources to the best of our knowledge. It is not a complete inventory and it is important to note that fish and wildlife resources may occur in areas not currently known to WDFW biologists, or in areas for which comprehensive surveys have not been conducted. Site specific surveys are frequently necessary to rule out the presence of priority resources. Locations of fish and wildlife resources are subject to variation caused by disturbance, changes in season and weather, and other factors. WDFW does not recommend using reports more than six months old.

Soil Map—Lewis County Area, Washington
(1532 Ceres Hill Rd.)



Map Scale: 1:2,990 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84




Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

11/12/2025
Page 1 of 3


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lewis County Area, Washington

Survey Area Data: Version 25, Aug 28, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 8, 2022—Sep 25, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1200	Water-Riverwash complex, 0 to 5 percent slopes	3.1	8.8%
1210	Roundtree loam, 0 to 5 percent slopes	2.3	6.7%
1215	Scatter-Fordprairie complex, 0 to 8 percent slopes	14.5	41.7%
1222	Maytown-Rennie complex, 0 to 10 percent slopes	0.8	2.4%
1224	Chehalis-Maytown complex, 0 to 10 percent slopes	9.8	28.1%
1225	Eld-Fordprairie complex, 0 to 12 percent slopes	4.2	12.2%
Totals for Area of Interest		34.7	100.0%