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September 13, 2019

John Hein
618 East 1st Street
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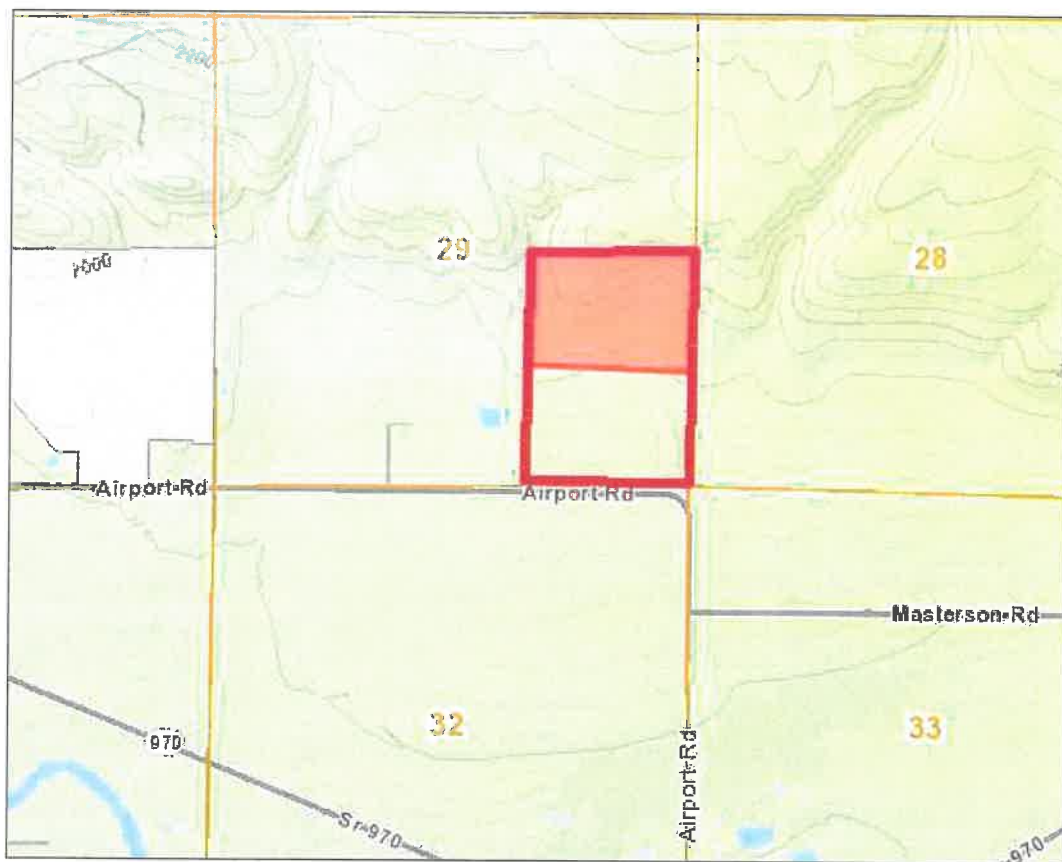
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Kittitas County CDS

RE: Stream Report – Parcels #267336 & #4568236
SWC Job #19-160

Dear John,

This report describes our observations of streams and their classification on the Parcels #267336 & #4568236, located in unincorporated Kittitas County Washington.



Vicinity Map of site

The site is a rectangular 14.6 acre parcel located within Section 14,
Township 39 North Range 1 East of the W.M.



METHODOLOGY

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site on August 21, 2019. The site was reviewed to identify any defined channels with evidence of water flow which may be determined to be streams under the criteria used by Kittitas County.

OBSERVATIONS

Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the WADNR Fpars stream mapping website and the WDFW Priority Habitats and Species maps for the site.

WADNR Fpars Stream Mapping

The Washington Department of Natural Resources Fpars stream type mapping website depicts two (2) unclassified streams draining from the north edge of the site towards the pasture.



Above: WADNR Fpars stream mapping

A Type F stream is also depicted flowing along the west side of the site in the northern forested area, and then diagonally across the pasture to the south boundary along Airport Road.

WDFW Priority Habitat mapping

According to the WDFW Priority Species maps for the site, there are no priority habitats or streams located on the site.



Above; WDFW Priority Species and habitat mapping of the site and area surrounding the site.

Field observations

Uplands

The site consists of a south facing forested hillside on the north, and a large area of mowed and grazed pasture on the south. The forested area

is typical dry upland area of ponderosa pine, with scattered snowberry, serviceberry, quackgrass and fescue.

A small dry stream bed is present along the western boundary and is approximately 24"-30" in width between OHWM as it passes through the developed portion of the site along the eastern edge of the driveway. Above the pasture area to the north the bottom is cobble and gravel indicating fast quick flow from snow melt. Below in the pasture it is sand and soil where it appears much of the melt runoff either infiltrates or quickly flows through the ditches. Quackgrass and fescue are the dominant bottom vegetation as the channel passes through the western edge of the site. This stream appears to function as a snow melt pathway in the spring, and is dry throughout the year otherwise.

The stream is not as depicted on the WDNR map and does not diagonal across the pasture, but remains in a ditch along the driveway.

The stream drains through a series of roadside ditches and culverts and diversions to the south and east eventually reaching a portion of the channel which appears to be fish bearing. The portion on-site appears to be non-fish bearing due to short flow periods during snow melt, and narrow width <2' on-site.

The two unclassified streams that are depicted on the WADNR Fpars mapping do not exist. There is no defined stream channel in these areas, and appear to be a mapping area based upon aerial photography interpretation of topography.

This stream best meets the criteria of a Type 4 water (or Type N) based upon Kittitas County Code 17A.02.300. Based upon KCC 17A.07.010.2, the buffer of a Type 4 water is 10-20' as measured from the OHWM.

Type 4 waters 10- 20 feet from the intersection with a Type 1, 2 or 3 water for a distance of 40 to 500 feet. From the point at which the buffer ends (40 - 500 feet upstream from the confluence), there shall be a 15-foot structural setback from the ordinary high water mark.

Given the agricultural character of this stream channel, a 20' buffer should be adequate to protect this resource.

If you have any questions in regards to this report or need additional information, please feel free to contact me at (253) 859-0515 or at esewall@sewallwc.com .

Sincerely,
Sewall Wetland Consulting, Inc.



Ed Sewall
Senior Wetlands Ecologist PWS #212

REFERENCES

Cowardin, L., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, FWS/OBS-79-31, Washington, D. C.

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Kittitas County Code

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Above and below: Areas identified as unclassified streams on Fpars, no streams exist in these areas.





Looking north and south along Type N/Type 4 stream channel on east side of driveway.





Above: Type N/4 stream along west side of site

Below: Perched culvert in Type N/4 stream by existing home driveway crossing.





Above and below: Type N/4 stream along west side of existing home & shop.





Above: Type N/4 channel bottom.