



WASHINGTON STATE DEPT OF
NATURAL RESOURCES

Region Reference Number- DNR Use Only			
Region	WRIA	Year	Number
NE	56	20	0103
Received Date			
11/24/2020			

WATER TYPE MODIFICATION FORM
(For changes to the Water Type Map)

Proponent Name and Organization Todd Whipple Whipple Consulting Engineers	Proponent/Organization Address 21 South Pines, Spokane Valley, WA 99026	Telephone Number (509) 893-2617 Email Address toddw@whipplece.com
Surveyor Name(s) and Organization Brian Walker <input type="checkbox"/> Same as Proponent	Surveyor/Organization Address 8203 East Fairview Avenue Spokane Valley, WA 99212	Telephone Number (509) 990-8757 Email Address brian_r_walker@yahoo.com
Landowner Name Patrick Cooper, ETAL <input type="checkbox"/> Same as Proponent	Landowner Address 5802 South Meadowlane Road Spokane, WA 99224	Telephone Number () Email Address pat@homesearchfree.com

Landowner Notified: Yes No

Check Applicable Boxes:

- Adding Typed Waters Changing Water Type
 Removing Typed Waters Other; Describe: _____
 Changing Location of Typed Waters

(1) Water Segment ID Stream A	(2) Name of Water Unnamed	(3) Tributary To Side Drainage Hangman Creek	(4) Legal Description (Section, Township, Range E/W) S6, T24N, R43E
(5) County Spokane	(6) Water Type Shown on Map U	(7) Proposed Water Type Remove	(8) Date(s) of Field Assessment November 13, 2020
(9a) Forest Practices Application <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Number:		(9b) Enforcement Document Number <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Number:	

(10) Change is based on the following (check all that apply):

- Water type does not meet WAC 222-16-031 definition. Describe: No bed or banks. No scour. Vegetated drainage.
 Survey Method:
 Electrofishing Protocol Survey (attach survey information)
 ID Team (attach Informal Conference Note)
 Visual Observation
 Random Measurements
 Incremental Measurements
 Physical Characteristics
 Fish Found Yes No
 Channel is a Public Water Diversion
 Channel is a Fish Hatchery Diversion
- List Species (if known): _____
 Distance from Diversion: _____
 Water Right Reference Number: _____
 Hatchery Name: _____
 Distance from Hatchery: _____

(11) Water Levels in the Survey Area were: Above Normal Normal Below Normal

Was there a drought warning issued by DNR? Yes No
 If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information). No DNR drought listed, but late season survey. Several weeks of recent wet weather.

(12) Channel Characteristics (Use Segment Tally Sheet for multiple stream segments)

Number of Bankfull Width Measurements N/A Average Bankfull Width N/A Average Gradient 30 degrees
 Average Wetted Width N/A Number of Protocol Pools 0
 Ponds and Impoundments > 0.5 acre Yes No

(13) Water Type Break was determined by (check all that apply; use Segment Tally Sheet for multiple stream segments):

- Electrofishing Protocol Survey (attach survey information)
 Last Fish detected: *show on map*
 F/N Type Break: *show on map*
- End of Harvest or Property Boundary
- Uppermost Point of Perennial Flow (describe in Block 16)
- Last Fish Observed
- Upper Extent of Fish Habitat
- Physical Characteristics
- Other: Highway 195

Provide a description of water type break, and how it was marked in the field:

Do Type F physical characteristics occur above surveyed segment? Yes No

(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?

- No. Continue to Block 15. Unable to Access Yes
- Natural Barrier
 Type: Falls Cascades Bedrock Chutes Other: _____
 Length: _____ Height: _____ Width: _____ Gradient: _____
- Temporary Barrier Describe: _____
- Manmade Barrier Describe: _____
- Fish Observed Above the Barrier? Yes No
- Fish Passage Barriers were Identified by: Maps; specify: _____ Field Observations
- Describe Location of Barrier(s) Downstream: _____

(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?

No Yes; estimate when the event occurred: _____
 Describe how this affected current stream channel conditions and fish distribution in the stream:

(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).

See included report for property.



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Landowner Notified: Yes No

Check Applicable Boxes:

- Adding Typed Waters Changing Water Type
 Removing Typed Waters Other; Describe: _____
 Changing Location of Typed Waters

(1) Water Segment ID Stream B	(2) Name of Water Unnamed	(3) Tributary To Side Drainage Hangman Creek	(4) Legal Description (Section, Township, Range E/W) S6, T24N, R43E
(5) County Spokane	(6) Water Type Shown on Map N	(7) Proposed Water Type Remove	(8) Date(s) of Field Assessment November 13, 2020
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Survey Method:

- Electrofishing Protocol Survey (attach survey information)
 ID Team (attach Informal Conference Note)
 Visual Observation
 Random Measurements
 Incremental Measurements
 Physical Characteristics

Fish Found Yes No

Channel is a Public Water Diversion

Channel is a Fish Hatchery Diversion

List Species (if known): _____
Distance from Diversion: _____
Water Right Reference Number: _____
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End of Harvest or Property Boundary
 Uppermost Point of Perennial Flow (describe in Block 16)
 Last Fish Observed
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Temporary Barrier Describe: _____
 Manmade Barrier Describe: _____

Fish Observed Above the Barrier? Yes No
 Fish Passage Barriers were Identified by: Maps; specify: _____ Field Observations
 Describe Location of Barrier(s) Downstream:

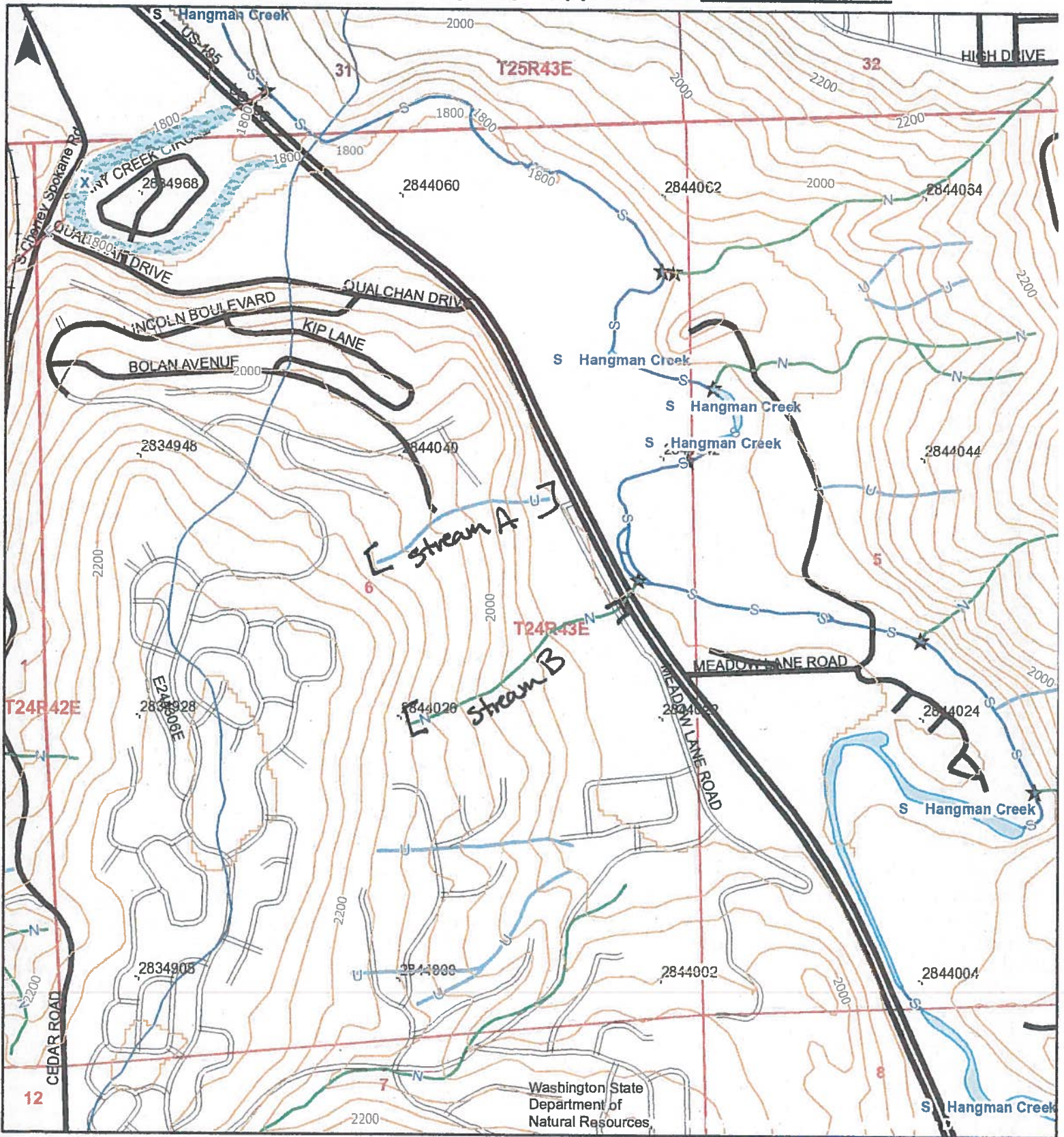
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See included report for property.

Forest Practices Activity Map - Application # NE-56-20-0103



Map Symbols

- Harvest Boundary
- Road Construction
- ~ Stream
- RMZ / WMZ Buffers
- ⊗ Rock Pit
- ⊙ Landing
- ▽ Waste Area
- 🌲 Clumped WRTS/GRTS
- 🏠 Existing Structure

Additional Information

Washington State
Department of
Natural Resources

Legal Description

S06 T24.0N R43.0E, S12 T24.0N R42.0E
 S05 T24.0N R43.0E, S08 T24.0N R43.0E
 S01 T24.0N R42.0E, S07 T24.0N R43.0E
 S32 T25.0N R43.0E, S31 T25.0N R43.0E



Extreme care was used during the compilation of this map to ensure its accuracy. However, due to changes in data and the need to rely on outside information, the Department of Natural Resources cannot accept responsibility for errors or omissions, and therefore,



Water Type Modification

for

Patrick Cooper Properties

Spokane, Washington

Report prepared by:

Mr. Brian Walker
8203 East Fairview
Spokane Valley, WA 99212
(509) 990-8757
brian_r_walker@yahoo.com

Report prepared for:

Whipple Consulting Engineers
21 South Pines Road
Spokane Valley, WA 99206
509-893-2617

Field Visit Date
November 13, 2020

Report
November 25, 2020

Stream Reaches for Typing:

Stream A – WC_LLID_NR 1174123476064, WC_ID 1204264. Currently Type U – Proposed to be Removed

Stream B – WC_LLID_NR 1174121476043, WC_ID 1204285. Currently Type N – Proposed to be Removed

Parcels covered in this report: 34061.0036, 34061.0038, 34061.0045, 34064.0031, 34064.0041, and 34064.0046

Report Preface

This water type modification report has been prepared for use by Whipple Consulting Engineers, Patrick Cooper, and any of their project agents. I am qualified to analyze terrestrial and wetland ecosystems. The findings in this report are based on information gathered in the field at the time of investigation and my understanding of federal, state, and local regulations governing wetland and stream areas. All appropriate regulatory agencies shall be contacted to verify the proposals within this Water Type Modification.

I have provided professional services in accordance with the degree of care and skill generally accepted in the nature of the work performed.

Brian Walker
8203 E Fairview
Spokane Valley, WA 99212
(509) 990-8757
brian_r_walker@yahoo.com

Field Report

Project Proposal

The landowner and their agents are in the process of developing these properties. Considerable grading will be required for this project and DNR mapped streams would be impacted. The proposal would include stormwater facilities that would collect, direct, and treat stormwater before discharging and/or infiltrating.

As part of the project, the existing drainages were surveyed to determine if they met the state definition of a stream channel and if they could or should be removed from the state database.

Landscape

The property is located on an eastern facing slope, on the west side of Highway 195 and Hangman Creek. The site can generally be described as occurring within the center of Section 6, Township 24 North, Range 43 East, Willamette meridian. The site can currently be access by going through an existing development along Bolan Avenue or from the bottom of the property by accessing side roads adjacent to Highway 195.

The survey area would be considered a ponderosa pine forest with an understory of pine grass and snowberry. Some areas of the property have been logged in the past and are only vegetated by a dense stand of snowberry. The forest floor has a dense covering of pine needles and pine cones and has developed a layer of cryptogammic crust in some locations. The area appears to remain extremely dry throughout much of the year. The small amount of snow that was on the ground during the survey had not wetted the soil below 2 inches.

The geology of the area is likely developed from a backwater sediment deposition area from the Missoula floods. The site is comprised almost exclusively of fine sandy material with a minimal loam component. Based on the lack of any runoff features within the surveyed drainage channels, this sandy material likely allows surface water to quickly infiltrate into the ground.

Investigation

The site survey was conducted over the course of 2 hours and focused on all accessible areas of the 2 distinct stream segments being proposed for removal from the state hydrology map.

Stream A: This stream appears to be a steep drainage primarily covered by snowberry and other low growing shrubs in most of the drainage. The lower section of the drainage goes through more ponderosa pine forest with a sparse understory of Idaho fescue and scattered patches of snowberry. The stream map shows that the section of stream does not connect to Hangman Creek. There was no evidence of a culvert or other conveyance under Highway 195 to connect the drainage to Hangman Creek.

Stream B: This drainage feature traverses the southern section of the properties. The upper 2/3 of the drainage is generally covered by ponderosa pine forest with a sparse understory of Idaho fescue and snowberry. There is a private access road that the drainage crosses through a 6 inch culvert. At the culvert there was no evidence of scour either into or out of the culvert. The lower section of the mapped drainage is mapped along a long driveway and a wide gravel turn-around. Nowhere along this driveway or turnaround was there evidence of scour or developed bed and banks. There was also no evidence that the channel can cross under Highway 195 to drain to Hangman Creek.

All Stream Sections: Test pits were dug into the mapped drainage channels of all features to look for development of wetland/hydric soils or evidence of striated river-wash deposits. No deposits or striations were noted within the test pits. The pits were generally a very fine sandy material with minimal loam.

Conclusion

Neither of the investigated mapped channels meets the definition of a stream channel. They all lack a defined channel bed and no defined banks were present. There was no evidence of scour along the surveyed channel courses. No hydrophytic vegetation was present along the channel courses, indicating that if flowing water is present, it is for an extremely short duration. Also, no culverts drain water under Highway 195 to connect the channels to Hangman Creek. Based on the survey results, these sections of stream should be removed from the DNR stream map.

Photographic Documentation



Photo 1: Stream A drainage at Bolan Avenue dead end.

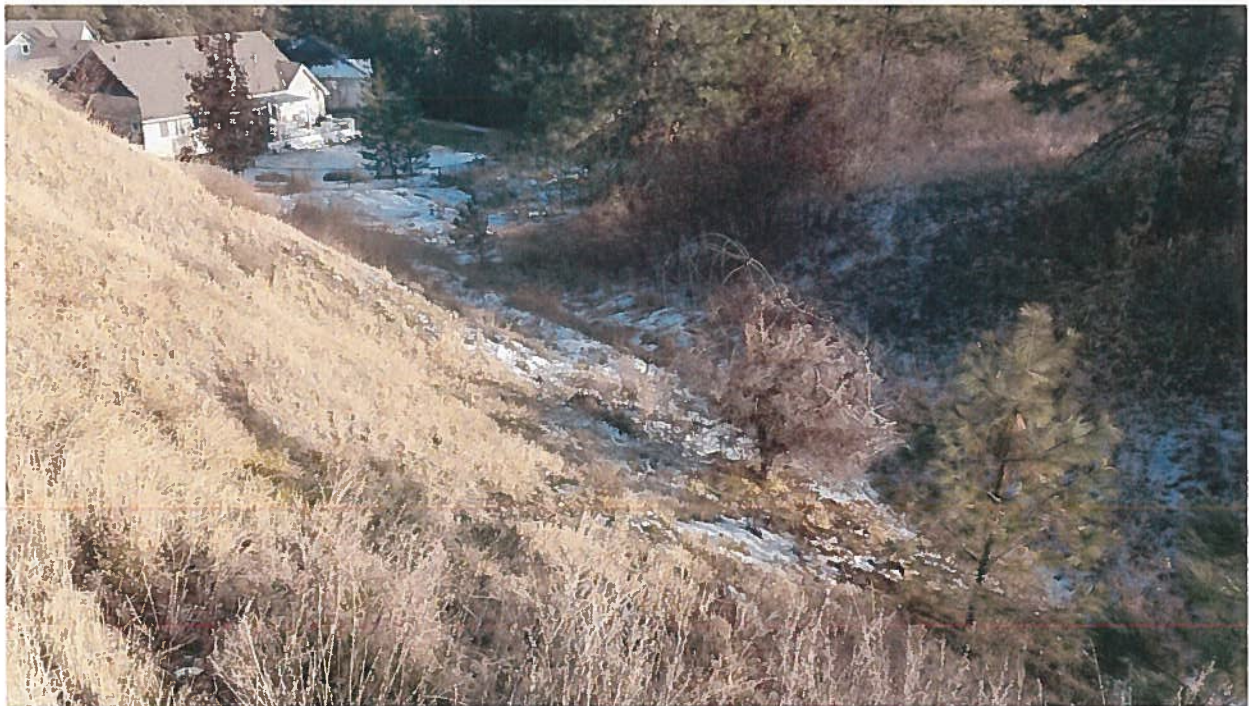


Photo 2: Stream A looking down gradient at Bolan Avenue dead end.



Photo 3: Stream A near Hwy 195.



Photo 4: Stream B near private driveway.



Photo 5: Stream B culvert under private driveway, upstream end.



Photo 6: Stream B culvert under private driveway, downstream end.



Photo 7: Stream B path near bottom of drainage.



Photo 8: Stream B near Highway 195.