



# Small Grant Program Application 2019-2021

**Application Processing Information** (to be completed by the Small Grant Team Contact):

Application #: \_\_\_\_\_

Date Received: \_\_\_\_\_

Date Acted On: \_\_\_\_\_

\_\_\_\_ Recommended                      \_\_\_\_ Denied

**SGT Contact**

Signature: \_\_\_\_\_

## I. General Information

**OWEB Funds Requested** (round to nearest dollar) \$13,580

**Total Project Cost** \$ 33,180

**Name of Project** (five words or fewer) Double W Ranch Watershed Enhancement

**Project Location** (if more than one, include location/landowner information on each map)

This project occurs at (check one):     A single site                      \_\_\_\_ Multiple sites

**Watershed:** Willow Creek

**County or Counties:** Morrow

**Township, Range, Section (e.g. T1N, R5E, S12):** T3S, R28E, S 23,26,27,34

**Latitude, Longitude (e.g. 44.9429, -123.0351):** (45.2783,-119.3109)

**Subbasin (10-digit hydrological unit code):** Upper Willow Creek (1707010401)

**River or Creek Name (if applicable):**

**River Mile (if applicable):**

**1. Have you previously submitted an application to OWEB, either through the regular or small grant program, for this project, or one similar to it on the same property?**  Yes    Grant # 26-06-020    \_\_\_\_ No

If yes, explain Wilkinson Ranches Spring Development Project - completion in 2007. Developed one off channel watering location to decrease livestock access to the creek and increase upland water storage capacity.

**2. Does this application propose a grant for a property in which OWEB previously invested funds for purchase of fee title or a conservation easement; or is OWEB currently considering an acquisition grant for this property?** \_\_\_\_ Yes    Grant # \_\_\_\_                       No

If yes, explain \_\_\_\_\_

## II. Contact Information

Applicant Org.: Morrow SWCD

Contact: Kevin Payne

Mailing Address: PO Box 127 Heppner, OR

Phone: 541-676-5452

Tax ID: 930797719

Zip: 97836

Email: kevin.payne@or.nacdnet.net

Landowner(s): Mark & Pam Wunderlich

Landowner Address:

Phone: 541-676-5586

Zip:

Email:

Project Manager for the Grantee Org: Kevin Payne

Project Manager for the Grantee: Jared Huddleston

Project Manager Address: PO Box 127 Heppner, OR

Phone: 541-676-5452x101

Zip: 97836

Email:

jhuddleston.morrowswcd@gmail.com

Payee Org.: Morrow SWCD

Contact: Janet Greenup

Mailing Address: PO Box 127 Heppner, OR

Phone: 541-676-5452x109

Tax ID: 930797719

Zip: 97836

Email: swcdmanager@centurytel.net

Technical Contact: Jared Huddleston

Email:

Phone: 541-676-5452x101

### III. Project Information

**Priority Watershed Concern:** the project will address — Check *One* Only.

- Instream Process & Function     Riparian Process & Function     Urban Impact Reduction  
 Wetland Process & Function     Private Road Impact Reduction     Upland Process & Function  
 Fish Passage     Water Quantity & Quality/ Irrigation Efficiency

**Small Grant Team Priority Project Type(s) addressed by the project (list specific eligible project type):**  
Manage Nutrient and Sediment Inputs to Streams through the management of grazing, vegetation cover, animal waste, or irrigation runoff.

**1-a. Is the project consistent with the local watershed assessment or action plan?**

- Yes    Name primary assessment/plan Umatilla/Morrow Subbasin Plan  
 No  
 N/A—The watershed does not yet have an assessment or action plan

**1-b. Is the project consistent with the local Agricultural Water Quality Management Area Plan?**

- Yes     No

**1-c. Is the project consistent with any developed plan for the property (e.g., local conservation or stewardship)?**

- Yes     No  
If yes, name the plan(s): \_\_\_\_\_

**2. Describe the current **watershed PROBLEM(s)** you are seeking to address.**

Brian Thompson leases this property from Mark and Pam Wunderlich. He runs roughly 750 yearling cattle in the fall from the beginning of September through the end of November on this 5,000 AC property. The cattle are watered from a few undeveloped spring sites in the most southern pastures that feed the headwaters of Hinton Creek, which can have intermittent water flow. The uplands are underutilized and has issues with animals keggering up in the riparian areas. There are erosion problems, both wind and water, from heavy animal traffic and overgrazing of vegetation close to the water sources. This also creates areas where weeds and annual grasses can gain a foothold. This project location also falls under Morrow SWCD Strategic Implementation Area (SIA) boundary (see attached map). The ODA led SIA program supports the Local Ag Water Quality Plan and one of the main goals is to develop more off-stream watering systems for the improvement of water quality and riparian areas.

**3. Describe the **SOLUTION(s)** you are proposing to address the current problem(s).** Attach a site map, color photo(s), and (if applicable) preliminary project drawings or designs.

Five seeps/springs will be developed in three of the southern pastures of the property. The springs will be piped with 2" PVC to trough sites (2-600 gallon aluminum troughs). This will provide consistent and clean water sources for livestock and wildlife. It will increase range productivity through alleviating pressure on the over utilized low land vegetation and get animals to use the "untapped" areas of the pastures with available forage. Each spring site will be carefully developed and protected by fence. Sections of galvanized pipe will be attached to the troughs where the pipe is exposed to weather conditions. Also each site will use 200 ft of buried 2" PVC pipe to direct gravitational flow away from the spring/seep sources to the trough sites. This 200 ft of pipe will include the overflow from the troughs back to the natural flow of the springs. The troughs will be secured with posts, lumber, and rock. Two of the troughs will be supplied by ODFW as part of their Mule Deer Initiative plan. All spring development work will meet NRCS standards and specifications including installing small animal escape ramps in each trough.

#### 4. Insurance Information

If applicable, select all the activities that are part of your project (check all that apply). You will be required to submit the DAS Risk Assessment Tool for items 1-5:

- 1. Working with hazardous materials (not including materials used in the normal operation of equipment such as hydraulic fluid)
- 2. Earth moving work around the footprint of a well
- 3. Aerial application of chemicals
- 4. Transporting individuals on the water
- 5. Removal or alteration of structures that hold back water on land or instream including dams, levees, dikes, tidegates and other water control devices (this does not include temporary diversion dams used solely to divert water for irrigation)
- 6. Applicant's staff or volunteers are working with kids related to the project (DAS Risk assessment tool not required, additional insurance *is* required)
- 7. Applicant's staff are applying herbicides or pesticides (DAS Risk assessment tool not required, additional insurance *is* required)

OWEB considers these projects to carry a greater risk to the organization, organization's employees, volunteers, and the community. If boxes 1-5 are checked above, the applicant must submit the DAS Risk Assessment, <https://www.oregon.gov/das/Risk/Pages/CntrctrInsReq.aspx>, with this application. Additional information regarding the insurance policy and requirements can be found in the OWEB's Budget Categories: Definitions & Policies document available on the OWEB website.

#### 5. Technical Guidance Source (check at least one and identify the Practice Code, or page and paragraph).

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> NRCS Field Office Technical Guide<br>Practice Code <u>574, 516 &amp; 614</u> | <input type="checkbox"/> Guide to Placing Large Wood in Streams<br>Page # / Para _____                        |
| <input type="checkbox"/> Oregon Road/Stream Crossing Restoration Guide<br>Page # / Para _____                    | <input type="checkbox"/> Forest Practices Tech Note #4<br>Page # / Para _____                                 |
| <input type="checkbox"/> Nonpoint Source Pollution Control Guidebook<br>Page # / Para _____                      | <input type="checkbox"/> Forest Practices Tech Note #5<br>Page # / Para _____                                 |
| <input type="checkbox"/> Urban Subwatershed Restoration Manual<br>Page # / Para _____                            | <input type="checkbox"/> Tribal Natural Resource Plans and Water Plans<br>(attach the relevant page or pages) |

#### 6. Maintenance and Post-Implementation Monitoring

**a) Project maintenance is the responsibility of the landowner.** What aspects of the project will be maintained? (See application instructions.)

**Who will maintain? Landowner**

**What will be maintained? Spring development, pipeline, trough, and fence**

**How will it be maintained? Routine maintenance**

**# of years, # of times/year 15-20 yrs - as needed/yr**

**b) Post-implementation monitoring including photo points and visual inspection is *required* for small grants (Year-Two Status Report).** What (if any) *additional* aspects of the project will be monitored post-implementation? (See application instructions)

**Who will monitor? Morrow SWCD**

**What will be monitored? Spring development, pipeline, trough, and fence**

**Site monitoring protocols? NRCS standards/specifications**

**# of years, # of times/year As needed - once at YR2**

**7. Who will be responsible for writing the Year-Two Status Report?**

Organization: Morrow SWCD

Name: Jared Huddleston

Mailing Address: PO Box 127 Heppner, OR

Zip: 97836

Phone: 541-676-5452x101

Email: jhuddleston.morrowswcd@gmail.com

**8. Have the required permits been obtained for the project?**  Yes  No  Not Required

If yes, what permits have been issued? (Attach copies) \_\_\_\_\_

If no, what permits must be obtained and by when? \_\_\_\_\_

**9. Is this project required as a condition of a local, state, or federal permit, order, or enforcement action (e.g., a manure storage and management project required by ODA permit)?**

\_\_\_\_\_ Yes  No

**10. Project Partners.** Show all anticipated funding sources, and indicate the dollar value for cash or in-kind contributions. Be sure to provide a dollar value for each funding source. If the funding source is providing in-kind contributions, briefly describe the nature of the contribution in the Funding Source Column. In the Amount/Value Column, provide a total dollar amount or value for each funding source.

<b>Funding Source Name the partner and contribution</b>	<b>Cash</b>	<b>In-Kind</b>	<b>Amount/ Value</b>
OWEB: Project materials, admin & reporting	\$13,580		\$13,580
Landowner: Spring development, pipe and trough installation, Land-use form		\$17,500	\$17,500
Morrow SWCD: Project Management		\$200	\$200
ODFW: Aluminum Troughs		\$1,900	\$1,900
<b>Total Estimated Funds (add all amounts in the far right column)</b>			<b>\$33,180</b>

The total should equal the total cost of the project on page 1

**11. Project Budget (Word).** Itemize projected costs for each budget category that apply to your project. A minimum of 25% match is required. See application instructions and additional team conditions for further guidance.

**PLEASE NOTE: Budgets may be submitted in either Word or Excel formats. Documents can be found on the OWEB Forms webpage.**

**Fill in the amounts, rounded to the nearest dollar; do not include cents.**

Expense Category	No. of Units	Unit Cost	OWEB Funds	Match Funds (In-Kind/Cash)	Description--what will be purchased and by whom/who will perform the work.
<b>SALARIES, WAGES, AND BENEFITS.</b> Refers to in-house staff/applicant employees for whom payroll taxes are paid. List position titles; include only costs of employees charged to this grant.					
Project Management	8	\$25	\$0	\$200	Morrow SWCD
<b>SUBTOTAL (1)</b>			<b>\$0</b>	<b>\$200</b>	
<b>CONTRACTED SERVICES.</b> Labor, supplies, materials and travel to be provided by non-staff for project implementation.					
Aluminum Trough	8	\$950	\$7,600	\$0	4x12 600 Gallon
Aluminum Trough	2	\$950	\$0	\$1,900	<b>ODFW</b> 4x12 600 Gallon
2" PVC Pipe	1000	\$1.00	\$1,000	\$0	200' at each spring development
2" Couplers	30	\$1.50	\$45	\$0	
Galvanized Pipe	150	\$12	\$1,800	\$0	
Galvanized Fittings	50	\$15	\$750	\$0	
2.5" PVC Pipe	250	\$2.00	\$500	\$0	
Spring Box	5	\$125	\$625	\$0	Corrugated culvert pipe
Bentonite	40	\$4.00	\$160	\$0	
Posts & Lumber	40	\$15	\$600	\$0	
Spring Development	5	\$1,200	\$0	\$6,000	2 man work crew and equipment used
Pipe installation per ft.	1,250	\$1.50	\$0	\$1,875	2 man work crew and equipment used
Trough installation per gal.	10	\$1.60	\$0	\$9,600	2 man work crew and equipment used
<b>SUBTOTAL (2)</b>			<b>\$13,080</b>	<b>\$19,375</b>	
<b>MATERIALS AND SUPPLIES.</b> Refers to items purchased by or invoiced to the applicant organization, and are "used up" in the course of the project. Costs to OWEB must be directly related to the implementation of this grant.					
<b>SUBTOTAL (3)</b>			<b>\$0</b>	<b>\$0</b>	
<b>TRAVEL.</b> Applicant staff mileage. For rates see: <a href="https://www.oregon.gov/oweb/manage-grant/Pages/payments-budget.aspx">https://www.oregon.gov/oweb/manage-grant/Pages/payments-budget.aspx</a>					
<b>SUBTOTAL (4)</b>			<b>\$0</b>	<b>\$0</b>	
<b>OTHER.</b> Land use signature costs, project permit costs, small equipment repair, commercial equipment rental.					
Land-use form	1	\$25	\$0	\$25	Through Morrow County planning
<b>SUBTOTAL (5)</b>			<b>\$0</b>	<b>\$0</b>	
<b>MODIFIED TOTAL DIRECT COST (MTDC)</b> (Add Subtotals 1-5)			<b>\$13,080</b>	<b>\$19,600</b>	
<b>INDIRECT COSTS.</b> Not to exceed 10% of Modified Total Direct Costs (MTDC). See the current Budget Categories Definitions and Policies document for eligible costs.					
Indirect Costs	Not to exceed 10% of MTDC		\$300	\$0	
<b>POST-GRANT</b>					
Year-Two Status Report			\$200	\$0	(Not to exceed \$200)
Post-Project Plant Establishment			\$0	\$0	(Not to exceed \$1,000)
<b>PROJECT TOTALS</b>			<b>\$13,580</b>	<b>\$19,600</b>	(Not to exceed \$15,000 in OWEB funds)

**We, the undersigned, attest** that to the best of our knowledge the information contained in this application is true, that the proposed project is not required by a state or federal agency directive, and that the project will be completed within 24 months from the date of the team funding recommendation of the application. We understand that the submitted application is a matter of public record.

**Also, should funding for this project be awarded we understand:**

- 1) **We may not incur** any project expenses until all designated signatories have signed an OWEB grant agreement,
- 2) **We will be required to provide** proper accounting of project expenses, and
- 3) **We will be required to provide** necessary and normal maintenance to sustain the value of the project once it is completed.

By their signatures, the **landowner(s)** attest that they have no plans to sell their property as of the date of this application, are authorized to sign as landowner, and they agree to provide, upon prior request and at a mutually acceptable time, site access to the applicant or representatives of OWEB for a period up to two years following project completion to allow project work to be implemented, monitored, and maintained.

Applicant	Date
Landowner	Date
Fiscal Agent	Date

**Attachment Checklist**

- Project location map (Required)
- Color photographs of site (Required)
- Site drawings/diagrams (if applicable)
- Juniper Checklist (if applicable)
- Cooperative agreement, if 2 or more landowners (Optional) **May be submitted in lieu of ALL Landowner signatures on Application ALL Landowners must sign the Grant Agreement**
- Racial and Ethnic Impact Statement (Required)
- Restoration Metrics form (Required)

Other materials (as required by team)

**Optional Forms at time Application**

**(Required at the time of Request for Release of Funds, see instructions)**

- Irrigation Efficiency
- Culvert/Stream Crossing
- Secured Match
- Land Use



## Racial and Ethnic Impact Statement

This form is used for information purposes only and must be included with the grant application.

Chapter 600 of the 2013 Oregon Laws require applicants to include with each grant application a racial and ethnic impact statement. The statement provides information as to the disproportionate or unique impact the proposed policies or programs may have on minority persons<sup>1</sup> in the State of Oregon if the grant is awarded to a corporation or other legal entity other than natural persons.

1.  The proposed grant project policies or programs could have a disproportionate or unique **positive** impact on the following minority persons:

Indicate all that apply:

- Women
- Persons with Disabilities
- African-Americans
- Hispanics
- Asians or Pacific Islanders
- American Indians
- Alaskan Natives

2.  The proposed grant project policies or programs could have a disproportionate or unique **negative** impact on the following minority persons:

Indicate all that apply:

- Women
- Persons with Disabilities
- African-Americans
- Hispanics
- Asians or Pacific Islanders
- American Indians
- Alaskan Natives

3.  The proposed grant project policies or programs **will have no** disproportionate or unique impact on minority persons.

If you checked numbers 1 or 2 above, on a separate sheet of paper, provide the rationale for the existence of policies or programs having a disproportionate or unique impact on minority persons in this state. Further provide evidence of consultation with representative(s) of the affected minority persons.

I HEREBY CERTIFY on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, the information contained on this form and any attachment is complete and accurate to the best of my knowledge.

---

Signature

Printed Name: Jared Huddleston

Title: Natural Resource Technician

<sup>1</sup> "Minority persons" are defined in SB 463 (2013 Regular Session) as women, persons with disabilities (as defined in ORS 174.107), African-Americans, Hispanics, Asians or Pacific Islanders, American Indians and Alaskan Natives.





# Restoration Metrics Form

OWEB receives a portion of its funds from the federal government and **is required to report** how its grantees have used both federal and state funds. The information you provide in the following form will be used for federal and state reporting purposes.

**Please complete all portions of the form below** as they apply to your project and submit all pages (do not exclude any pages). Please provide specific values, do not enter values like “2-3” or “<100”. Enter your best approximation of what the project will accomplish.

**If you have any questions**, please contact Ginger Lofftus, OWEB PCSRF Reporting Assistant, at 503-986-5372 ([ginger.lofftus@state.or.us](mailto:ginger.lofftus@state.or.us))

## Section 1. Project Overview

**Answer all five questions below**, even if you have answered a similar question in a previous section in the grant application.

**1. Land Use Setting: CHECK ONE BOX ONLY.**

- Urban/Suburban/Exurban** (Projects located within urban growth boundaries or rural residential areas)  
 **Rural** (Projects located outside urban growth boundaries or rural residential areas.)

**2. Dominant Watershed Setting: CHECK ONE BOX ONLY. Example:** Your project involves managing erosion in the upland area with some erosion control extended to the riparian area. Because most of the work is to occur in the upland area, you would check **only** the Upland box below.

- Estuary** (where freshwater meets and mixes with saltwater of ocean tides.)  
 **Riparian** (adjacent to a water body, within the active floodplain.)  
 **Instream** (below the ordinary high-water mark or within the active channel — includes fish passage.)  
 **Upland** (above the floodplain.)  
 **Groundwater** (Projects that recharge groundwater or primarily affect the subsurface water table.)  
 **Wetland** (areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soil conditions.)

**3. Total Acres Treated: 2,636 Total Stream Miles Treated:**  
(do not include upstream stream miles made accessible to fish with passage improvements)

**4. Project Monitoring: All OWEB funded restoration projects require post-implementation status reporting including photo point monitoring.** Please indicate below: 1) the location of the monitoring activities relative to the project, including photo point locations, 2) whether effectiveness monitoring is planned, and 3) whether additional monitoring will be conducted for this project.

**4.1) Identify the location for the planned monitoring activities relative to the restoration project location.**  
Check as many boxes as apply.

- Onsite                       Downstream                       Upstream                       Upslope

**4.2)  Effectiveness monitoring will be conducted for this project.** Please note that effectiveness monitoring cannot be funded with OWEB Small Grant Funds.

**4.3) Will this project conduct monitoring activities beyond the required post-implementation status reporting and photo point monitoring?**

Yes  No If you answer yes, select the monitoring activities below, if you answer no proceed to Section 2.

Check all proposed monitoring activities

- |   |   |
|---|---|
| <input type="checkbox"/> Adult Fish: presence/absence/abundance/distribution survey(s)    | <input type="checkbox"/> Water quality                          |
| <input type="checkbox"/> Spawning surveys   | <input type="checkbox"/> Macroinvertebrates                     |
| <input type="checkbox"/> Juvenile Fish: presence/absence/abundance/distribution survey(s) | <input type="checkbox"/> Water quantity                         |
| <input type="checkbox"/> Upland vegetation (Presence/Absence)                             | <input type="checkbox"/> Noxious weed (Presence/Absence)        |
| <input type="checkbox"/> Instream Habitat surveys   | <input type="checkbox"/> Photo Points                           |
|   | <input type="checkbox"/> Riparian vegetation (Presence/Absence) |
|   | <input type="checkbox"/> Other (explain): _____                 |

**Section 2. Project Activities**

Provide values for each Project Activity applicable to your application. **Leave blank any Project Activity or metric line that is not appropriate to your application.** All data entered in this form should be what you **plan** to do with the project. Data about **completed** projects will be reported at the end of the project to the Oregon Watershed Restoration Inventory (OWRI). For each activity type where you enter metrics, **estimate** the percentage of the total cost of the project (OWEB and **all** other funding sources, shown in **III. 9.** of this application) that applies to the activity. The sum of all of the activity cost percentages should equal 100%. Please distribute all administrative, project management and other general project costs among the various project activities when estimating percentages.

**Example:** A project will remove a fish passage barrier, place large boulders instream, and plant a riparian buffer. You would enter the appropriate metrics into the Fish Passage, Instream Habitat, and Riparian Habitat activity sections of this form. Then, estimate the percentage of the total cost of the project for each activity. For instance: 20% towards Fish Passage activities, 25% towards Instream Habitat activities, and 55% towards Riparian Habitat activities.

**Fish Screening Projects:** Projects that result in the installation or improvement of screening systems that prevent fish from passing into areas that do not support fish survival, for example, into irrigation diversion channels.

**Note: OWEB funds cannot be used for fish screening projects**

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to fish screening activities

**New Fish Screens Installed**

\_\_\_\_\_ # Estimate the number of **new** screens installed (do not count diversions where existing screens are replaced)

\_\_\_\_\_ cfs Estimate the cubic feet per second of flow influenced by **new** screen(s) installed (to nearest 0.01 cfs)

**Existing Screens Replaced, repaired or modified**

\_\_\_\_\_ # Estimate the number of **existing** screens replaced, repaired or modified

\_\_\_\_\_ cfs Estimate the cubic feet per second of flow influenced by **existing** screen(s) screens (to nearest 0.01 cfs)

**Fish Passage Improvement:** *Projects that improve fish migration by addressing a migration barrier problem.* Complete sections A-E as they apply to the proposed project. For projects that improve fish passage at road crossings complete both sections A (define the problem) and B (define the treatment). Non-road crossing improvements are reported in sections C and D. Section E should be completed for all fish passage improvement projects. Refer to the application instructions for additional information and examples.

**A. Road Crossings – Define *Existing* Fish Passage Problem**

- 1. **Culverts** hindering fish passage \_\_\_\_\_ # crossings
- 2. **Bridges** hindering fish passage \_\_\_\_\_ # crossings
- 3. **Fords** hindering fish passage \_\_\_\_\_ # crossings

**B. Road Crossings – Define the Fish Passage *Improvements* to be implemented by this project**

1. **Culverts** installed/improved -*Improvements include* installing baffles inside culverts or installing/improving engineered bypasses (e.g. weirs) directly below a culvert outlet to improve passage.

\_\_\_\_\_ # crossings \_\_\_\_\_ str. mi with improved access\*

2. **Bridges** installed/improved -*Improvements include* installing/improving engineered bypasses (e.g. weirs) directly below a bridge crossing to improve passage.

\_\_\_\_\_ # crossings \_\_\_\_\_ str. mi with improved access\*

3. **Fords** installed/improved

\_\_\_\_\_ # crossings \_\_\_\_\_ str. mi with improved access\*

4. **Road Crossings removed and not replaced**

\_\_\_\_\_ # crossings \_\_\_\_\_ str. mi with improved access\*

\* Estimate stream miles in the main channel and tributaries made more accessible above the crossing(s) (to nearest 0.01 mile). If a barrier exists upstream, report the length made accessible up to that next upstream barrier.

**C. Fish Passage Barriers – Other than Road Crossings**

1. **Type(s) of barriers** to be treated/removed to improve fish passage.

- |   |   |
|---|---|
| <input type="checkbox"/> Diversion Dam                              | <input type="checkbox"/> Logs                             |
| <input type="checkbox"/> Push-up Dam                                | <input type="checkbox"/> Debris                           |
| <input type="checkbox"/> Wood or Concrete Dam                       | <input type="checkbox"/> Boulder/Rock Barrier (not weirs) |
| <input type="checkbox"/> Weir (not associated with a road crossing) | <input type="checkbox"/> Landslide                        |

Other (explain) \_\_\_\_\_

2. \_\_\_\_\_ # Estimate the total number of **non-road** crossing barriers (listed above) to be removed or altered to improve passage.

## D. Fish Ladders or Engineered Bypasses (not associated with Road Crossings)

1. **Fish ladders** will be installed/improved

\_\_\_\_\_ # fish ladders to be installed/improved

2. **Engineered bypasses** will be installed/improved. This includes weirs, rock boulder step pools, and chutes constructed/roughened in bed rock. Do not count engineered bypasses located at a road crossing to improve passage at the crossing. These types of improvements should be identified above in section B as a Road Crossing Fish Passage Improvement.

\_\_\_\_\_ # engineered bypasses to be installed/improved

## E. Fish Passage Summary Metrics

1. \_\_\_\_\_ % Estimate the percentage of total cost of the project applied to fish passage improvements
2. \_\_\_\_\_ mi Estimate the total stream miles that will be made more accessible in the main channel and tributaries above the project (to nearest 0.01 mile). *This metric summarizes the stream miles for all of the proposed passage improvements (defined above in Sections A-D). If a barrier exists upstream of the project, report the length made accessible up to that next upstream barrier.*
3. \_\_\_\_\_ # Estimate the total number of barriers (this includes road crossings, diversion dams, push up dams, wood or concrete dams, weirs, etc.) to be removed or altered to improve passage.

**Instream Flow:** Projects that maintain and/or increase the instream flow of water. Irrigation improvements that are primarily designed to improve water quality should be reported under Upland – Agriculture Management. **Check all proposed activities.**

- Irrigation practice improved to increase instream flows (e.g. install diversion headgate, replace open ditches with pipes)
- Water flow gauges installed to measure water use
- This project will dedicate instream flow.
- Other (explain): \_\_\_\_\_

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to instream flow activities

\_\_\_\_\_ mi. Estimate the miles of stream where increased flow is the result of decreased/eliminated water withdrawals

\_\_\_\_\_ cfs Estimate the increase in flow of water in the stream as a result of conservation effort (cubic feet per second)

\_\_\_\_\_ mm/dd/yyyy Initial start date of irrigation practice improvement

\_\_\_\_\_ mm/dd/yyyy Final end date of irrigation practice improvement (if improvement is permanent enter 12/31/9999)

\_\_\_\_\_ mm/dd/yyyy Water lease/agreement initial start date of no withdrawal

\_\_\_\_\_ mm/dd/yyyy Water lease/agreement final end date of no withdrawal (if lease/agreement is permanent, enter 12/31/9999)

**Instream Habitat:** Projects that are designed to improve instream habitat conditions. **Check all proposed activities.**

- Channel reconfiguration and connectivity (e.g., creating instream pools, meanders, improving floodplain connectivity, off-channel habitat, removal or alteration of levee or berm, removal of sediment)
- Spawning gravel placement
- Channel structure - large wood placement
- Plant Removal/control (instream) List scientific names of plants \_\_\_\_\_
- Channel structure - boulder placement
- Carcass or nutrient placement:  salmonid carcass;  fish meal brick;  other nutrient
- Channel structure placement (**other** than large wood or boulder placements), e.g., engineered structures or deflectors, barbs, weirs, etc.
- Other (explain): \_\_\_\_\_
- Streambank stabilization through resloping and/or placing rocks, logs (e.g. revetments, gabions, barbs), or bioengineering on streambank

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to instream habitat activities

\_\_\_\_\_ mi. Estimate the miles of stream to be treated with instream habitat treatments (to nearest 0.01 mile)

\_\_\_\_\_ % Estimate the percentage of instream activity costs for carcass or nutrient placements. If you do not select carcass/nutrient placements as an instream activity, leave this value blank.

**Example:** Your project will place salmon carcasses. You estimated that 25% of the total project cost will apply to instream habitat activities and one half of the instream improvements costs will apply to the carcass placement, you would report 50%.

**Riparian Habitat:** Projects above the ordinary high-water mark of the stream and within the floodplain of the stream. **Check all proposed activities.**

- Riparian planting
- Non-native/noxious plant control
- Riparian exclusion fencing
- Vegetation management (e.g. prescribed burnings, stand thinning, stand conversions, silviculture)
- Livestock exclusion by means other than fencing (includes placing obstacles to exclude livestock, people, vehicles, etc., but not for individual plant protection)
- Debris/structure removal (OWEB funds cannot be used for general trash removal)
- Water gap development (fenced livestock crossing or livestock bridge)
- Other (explain): \_\_\_\_\_ DO NOT report livestock water developments here, report livestock water developments under upland habitat treatments.

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to riparian habitat activities

\_\_\_\_\_ ac. Estimate the acres of riparian habitat to be planted (to nearest 0.1 acres)

\_\_\_\_\_ ac. Estimate the acres of riparian habitat to be treated for non-native/noxious weeds (to nearest 0.1 acres)

\_\_\_\_\_ ac. Estimate the total riparian acres to be treated. (to nearest 0.1 acres)

\_\_\_\_\_ mi. Estimate the miles of riparian streambank to be treated (to nearest 0.01 mi).

Stream sides treated  1  2 (Do not double count miles if a second side is treated)

**Upland Habitat:** Projects implemented above the floodplain. **Check all proposed activities.**

- Planting/seeding for erosion control (e.g., convert from crops to native vegetation, plant area where non-native/noxious weeds removed, grassed waterways, windbreaks, filter strips)  
List scientific names of plants \_\_\_\_\_
- Livestock Manure Management (e.g., feedlot improvements to reduce runoff, relocate/improve manure holding structures and manure piles to reduce/eliminate drainage into streams)
- Slope stabilization (e.g., grade stabilization, landslide reparation, terracing slopes)
- Upland Livestock Management (**other** than livestock water developments), e.g., grazing plans, fencing
- Non-native/noxious plant control  
List scientific names of plants: \_\_\_\_\_
- Restore Historic Upland Habitats (e.g. oak woodland, oak savannah, upland prairie restoration)
- Juniper removal/control
- Livestock/Wildlife Water Developments
- Vegetation Management (**other** than non-native/noxious plant control or juniper removal, e.g. tree thinning, brush control, burning)  
List scientific names of plants: \_\_\_\_\_
- Erosion control structures not already reported under Upland Agriculture Management or Road Drainage System and Surface Improvements.
- Upland Agriculture Management (e.g., no/low-till, wind breaks, filter strips, crop rotation, terracing, water and sediment control basins, grade stabilization and irrigation improvements)
- Other (explain): \_\_\_\_\_

100 % Estimate the percentage of total cost of the project will apply to upland habitat activities

5 # Estimate the number of livestock/wildlife water developments

\_\_\_\_\_ ac. Estimate the acres of upland habitat to be treated for non-native/noxious plants (to nearest 0.1 acres)

\_\_\_\_\_ ac. Estimate the total acres of upland habitat to be treated (do not include acres of upland habitat affected by livestock water developments (to nearest 0.1 acres)

\_\_\_\_\_ % Estimate the percentage of upland activity costs applied to Livestock Manure Management. If you do not select Livestock Manure Management as an upland activity, leave this value blank.

**Example:** Project will relocate a feedlot to reduce livestock manure runoff. You estimated that 33% of the total project cost will apply to upland habitat activities and one half of the upland improvements costs will apply to the feedlot relocation, you would report 50%.

**Road Activities:** Projects designed to improve road impacts to watersheds. **Check all proposed activities.**

- Road drainage system and surface improvements & reconstruction
- Other (explain): \_\_\_\_\_
- Road closure, relocation, obliteration (decommissioning)

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to road activities

\_\_\_\_\_ mi. Estimate the miles of road treated (to nearest 0.01 mile)

**Urban Impact Reduction: Check all of the urban impact related activities that will be used by this project.**

- Toxin reduction: list names of each toxic species, element or material: \_\_\_\_\_
- Bioswales
- Pesticide reduction: list names of each pesticide: \_\_\_\_\_
- Detention Facility
- Stormwater/wastewater modification or treatment (includes rain gardens)
- Other urban impact reduction (explain): \_\_\_\_\_

**Check all of the water quality limiting factors addressed by the Urban Impact Reduction activities selected above. Do not** select limiting factors addressed by other types of restoration activities.

- Bacteria
- Dissolved Oxygen
- Heavy Metals
- Pesticides
- Toxics
- High Temperature
- Nutrients
- Sediment
- Other (explain): \_\_\_\_\_

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to urban impact activities

**Wetland Habitat: Projects designed to create or improve wetland areas. Check all proposed activities.**

- Wetland planting
- Non-native/noxious/invasive plant control
- Artificial wetland area created from an area not formerly a wetland
- Wetland improvement/restoration of existing or historic wetland (other than vegetation planting or removal)
- Other (explain): \_\_\_\_\_

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to wetland habitat activities

\_\_\_\_\_ ac. Estimate the acres of wetland habitat to be treated for non-native/noxious/invasive plants (to nearest 0.1 acres)

\_\_\_\_\_ ac. Estimate the acres of artificial wetland created (to nearest 0.1 acres)

\_\_\_\_\_ ac. Estimate the total acres of wetland habitat (existing or historic) treated (to nearest 0.1 acres)

**Estuarine Habitat: Projects that result in improvement or increase in the availability of estuarine habitat.**

**Check all proposed activities.**

- Estuarine planting
- Channel modification/creation (e.g., improve intertidal flow to existing estuarine habitat)
- Non-native/noxious plant control
- Creation of new estuarine habitat where one did not exist previously by methods other than tidegates or dikes
- Dike or berm modification/removal
- Placement of fill material (for proper terrestrial function)
- Estuarine culvert modification/removal
- Other (explain): \_\_\_\_\_
- Removal of existing fill material
- Exclusion devices

\_\_\_\_\_ % Estimate the percentage of total cost of the project applied to estuarine habitat activities

\_\_\_\_\_ ac. Estimate the acres of estuarine habitat to be treated for non-native/noxious plants (to nearest 0.1 acres)

\_\_\_\_\_ ac. Estimate the total acres of estuarine habitat (existing or historic) to be treated (to nearest 0.1 acres)

### Section 3.

Salmon/Steelhead Populations Targeted and Expected Benefits to Salmon/Steelhead

The information provided will be used by OWEB better to meet federal and state reporting requirements. Completion of this section is required but will not be used to evaluate this application for funding.

This project is **NOT** specifically designed to benefit salmon or steelhead.

▶ If you check this box, **STOP** here.

**Targeted Salmon/Steelhead Populations:** Select one or more of the salmon ESUs (Evolutionary Significant Unit) or steelhead DPSs (Distinct Population Segment) that the project will address/benefit. For species where the ESU/DPS name is not known or determined, use the species name with unidentified ESU (e.g., Chinook salmon – unidentified ESU). Additional information on the designation and location of the salmon/steelhead populations can be found at:

[https://www.westcoast.fisheries.noaa.gov/maps\\_data/species\\_population\\_boundaries.html](https://www.westcoast.fisheries.noaa.gov/maps_data/species_population_boundaries.html)

#### **Chinook Salmon (*Oncorhynchus tshawytscha*)**

- Deschutes River summer/fall-run ESU
- Lower Columbia River ESU
- Mid-Columbia River spring-run ESU
- Oregon Coast ESU
- Snake River Fall-run ESU
- Southern Oregon and Northern California Coastal ESU
- Upper Klamath-Trinity Rivers ESU
- Upper Willamette River ESU
- unidentified ESU

#### **Chum Salmon (*O. keta*)**

- Columbia River ESU
- Pacific Coast ESU
- unidentified ESU

#### **Coho Salmon (*O. kisutch*)**

- Lower Columbia River ESU
- Oregon Coast ESU
- Southern Oregon/Northern California ESU
- unidentified ESU

#### **Steelhead (*O. mykiss*)**



- Klamath Mountains Province DPS
- Snake River Spring/Summer-run ESU
- Lower Columbia River DPS
- Middle Columbia River DPS
- Oregon Coast DPS
- Snake River Basin DPS
- Washington Coast DPS (SW Washington)
- Upper Willamette River DPS
- Steelhead/Trout unidentified DPS

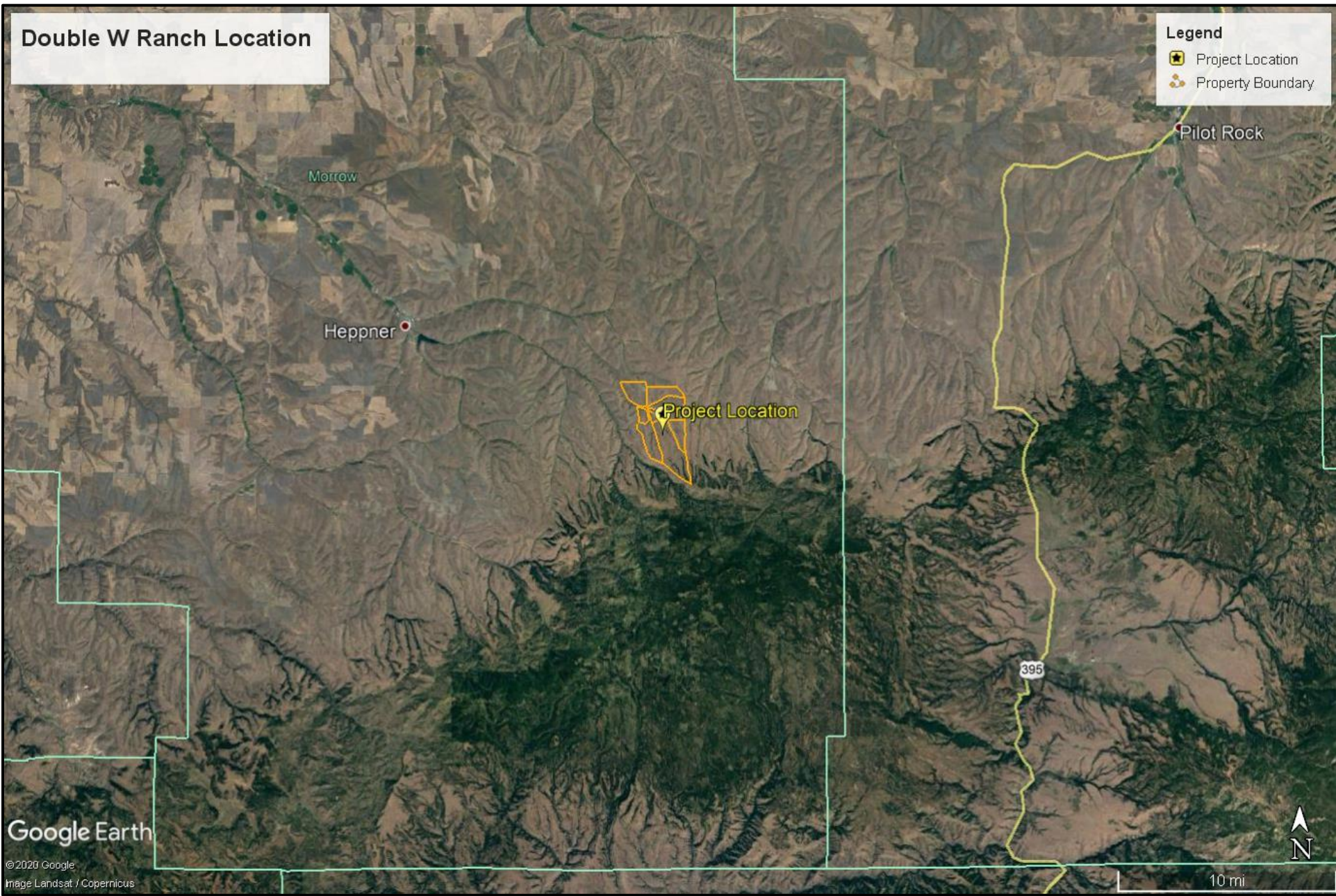
**Expected Benefits:** Write a brief description of the goals and purpose of the project and how it is expected to benefit salmon/steelhead or salmon/steelhead habitat. **See Application Instructions for helpful examples.**



# Double W Ranch Location

**Legend**

-  Project Location
-  Property Boundary



Google Earth

© 2020 Google  
Image Landsat / Copernicus

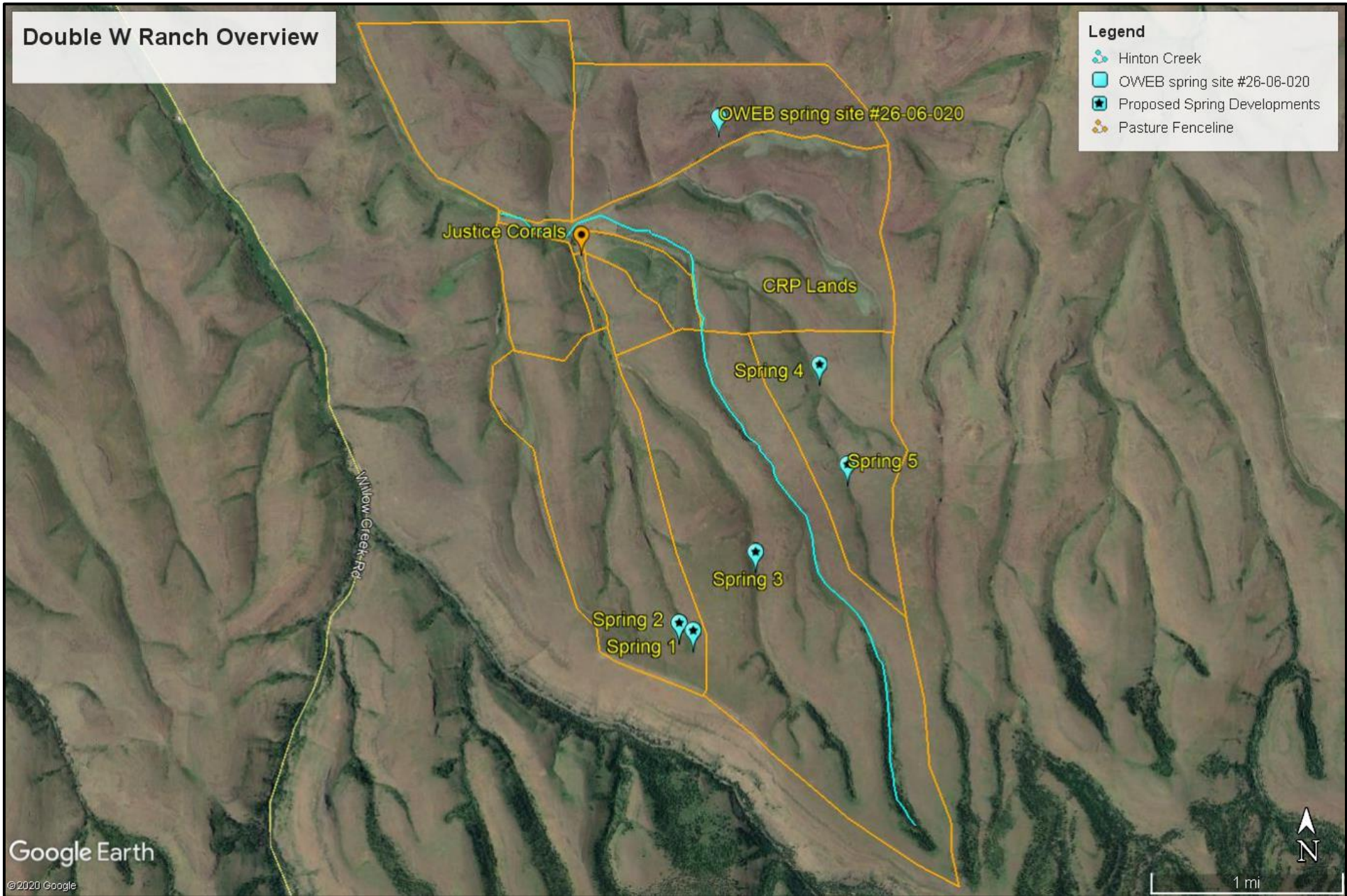
10 mi



# Double W Ranch Overview

**Legend**

- Hinton Creek
- OWEB spring site #26-06-020
- Proposed Spring Developments
- Pasture Fenceline



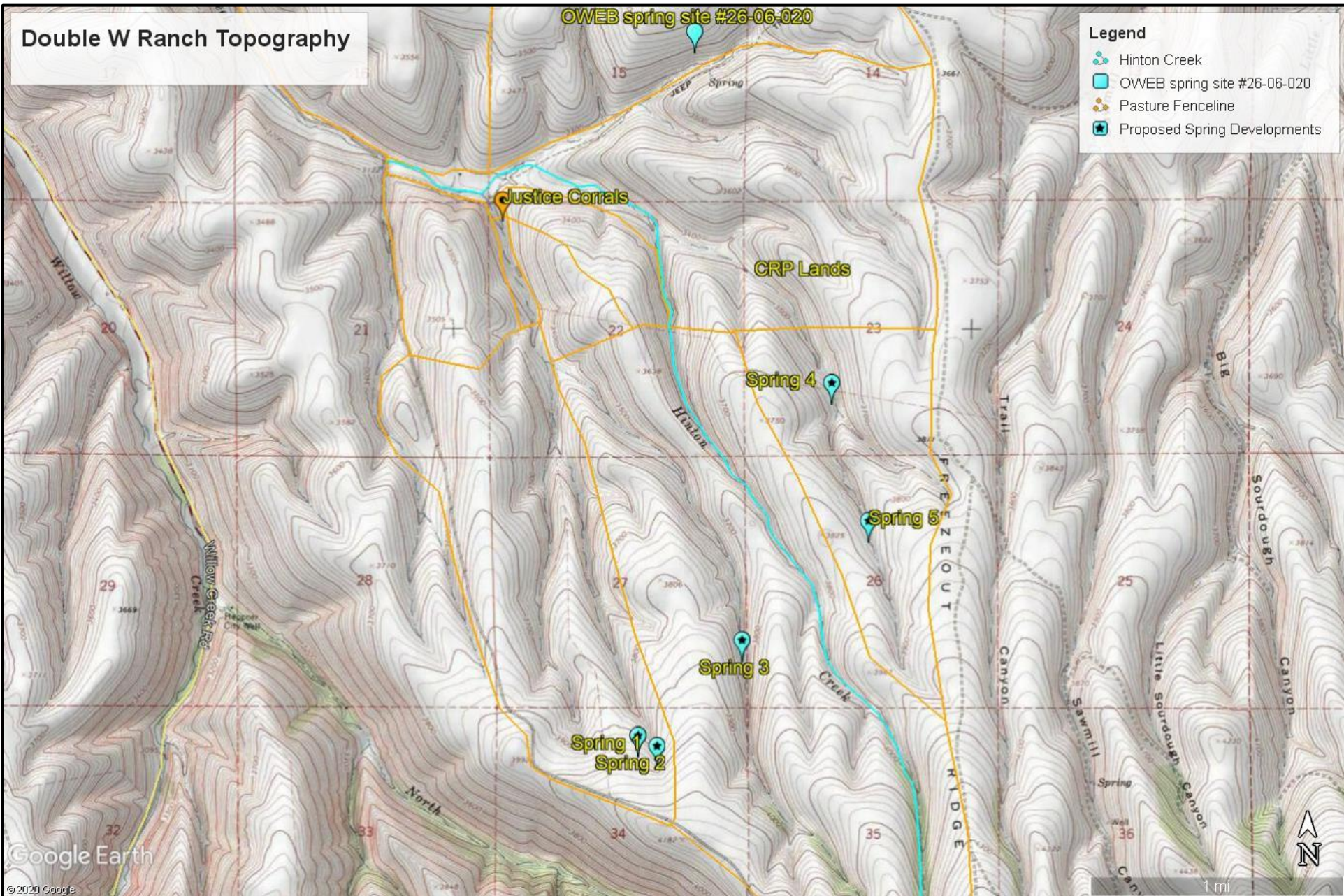


# Double W Ranch Topography

OWEB spring site #26-06-020

**Legend**

- Hinton Creek
- OWEB spring site #26-06-020
- Pasture Fenceline
- Proposed Spring Developments



Google Earth

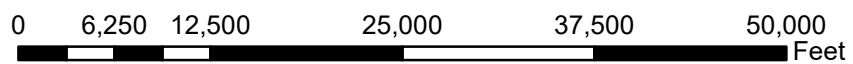
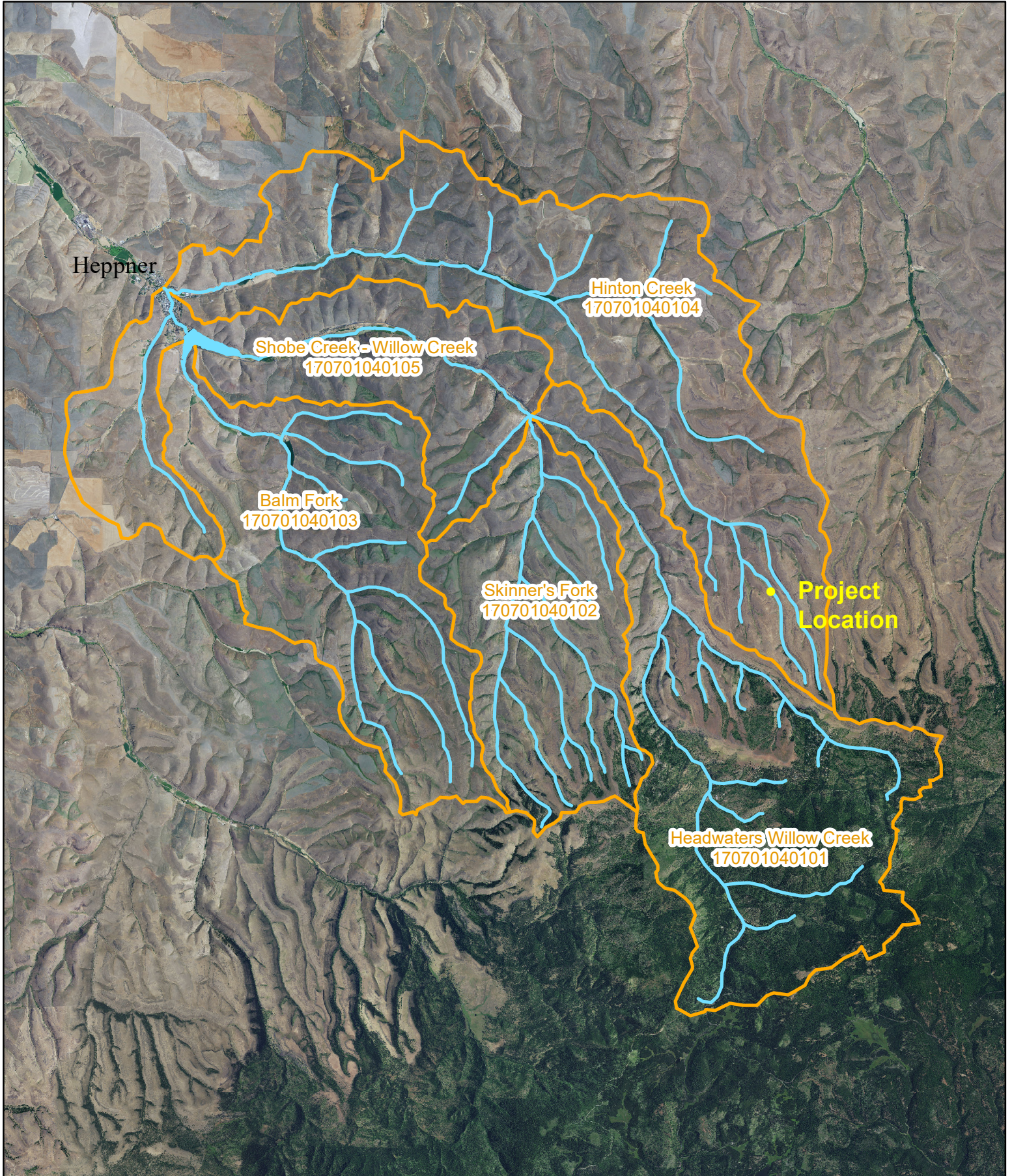
©2020 Google



# Upper Willow Creek Basin SIA HUC Map

Morrow County, Oregon

Morrow Soil & Water Conservation District





## Double W Ranch Watershed Enhancement



Spring site 1 to be developed



Spring site 1 collection area. Low quality water source for cattle.





Spring site 2 to be developed



Looking south at both spring site 1&2 locations to be developed in the uplands





Spring site 3 to be developed

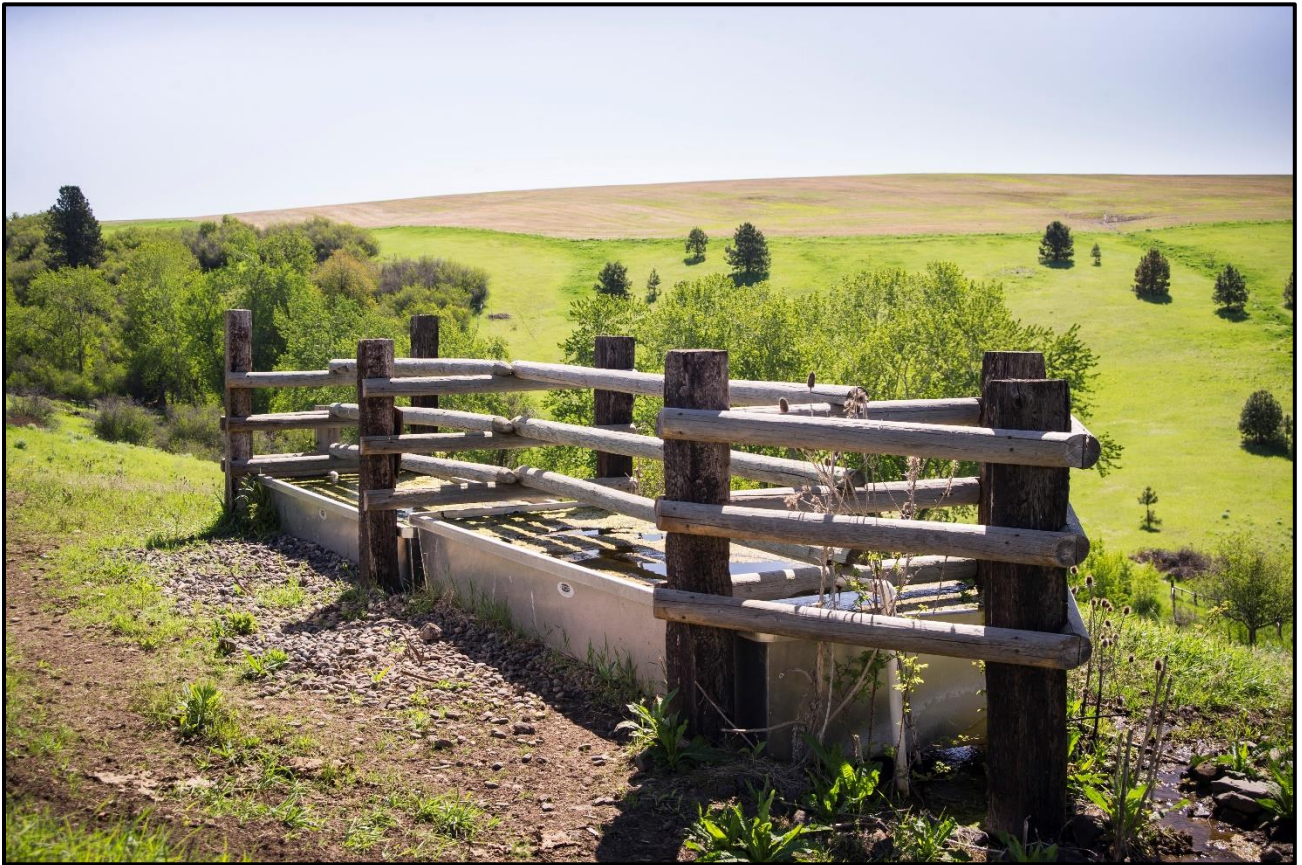


Spring site 4 to be developed





Spring site 5 to be developed



Example of proposed trough layout for each spring development