

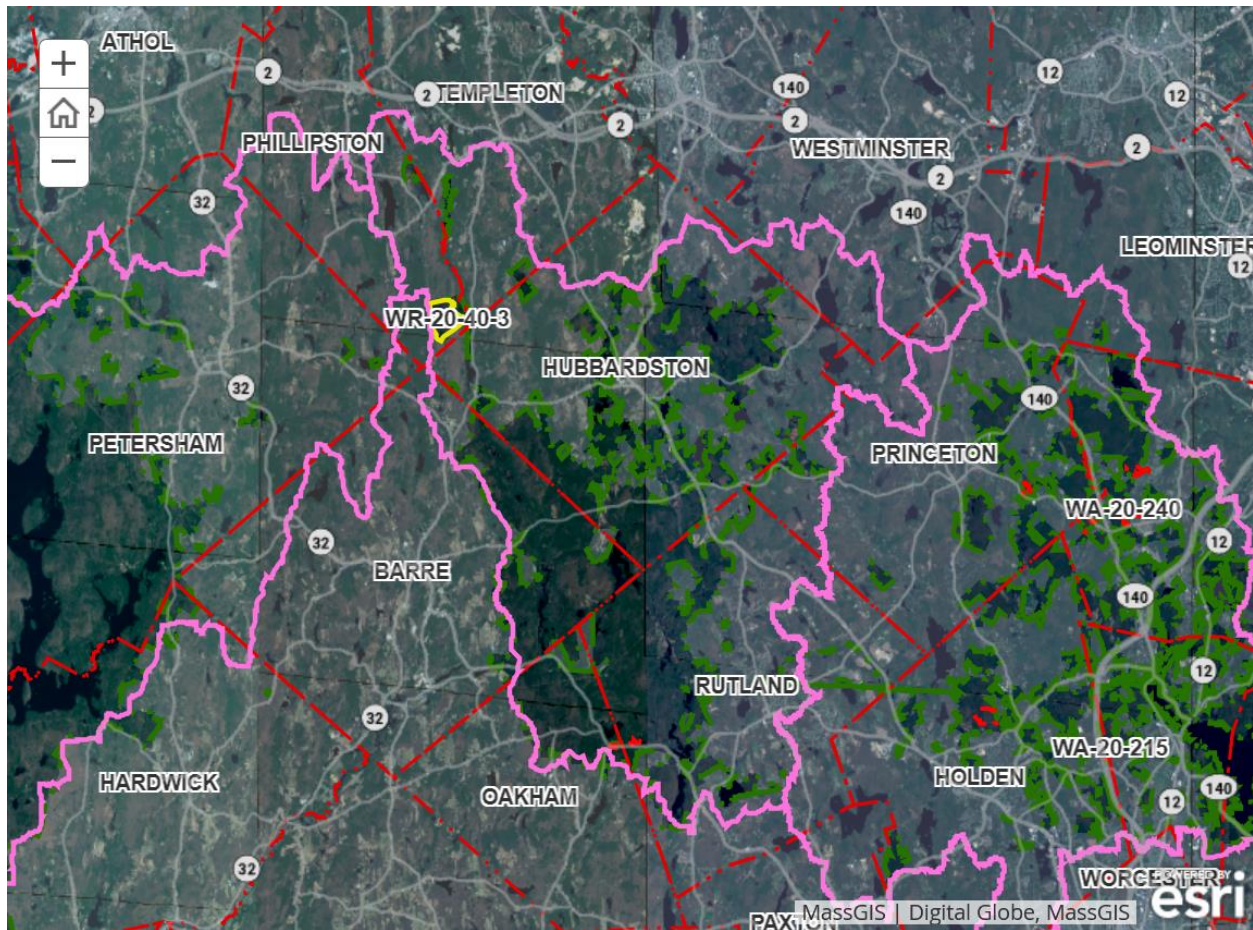
Ware River Harvest Proposal WR-20-40-3

Proposal Goals

Proposal Location

This lot is in Phillipston. It is bound by Williamsville Road to the West (also the property boundary line), property boundary line stone walls to the north and south, and the north/south rail trail and the old "Javenpaw" gravel pit to the east.

Total Acres: 255



General Description

	Overstory Type(s)	Acres
Dominant	Oak/hardwood	125
Secondary	White pine/hardwood	49
Secondary	Mixed hardwoods	40

	Understory Type(s)
Dominant	Tree seedlings/saplings dominate site

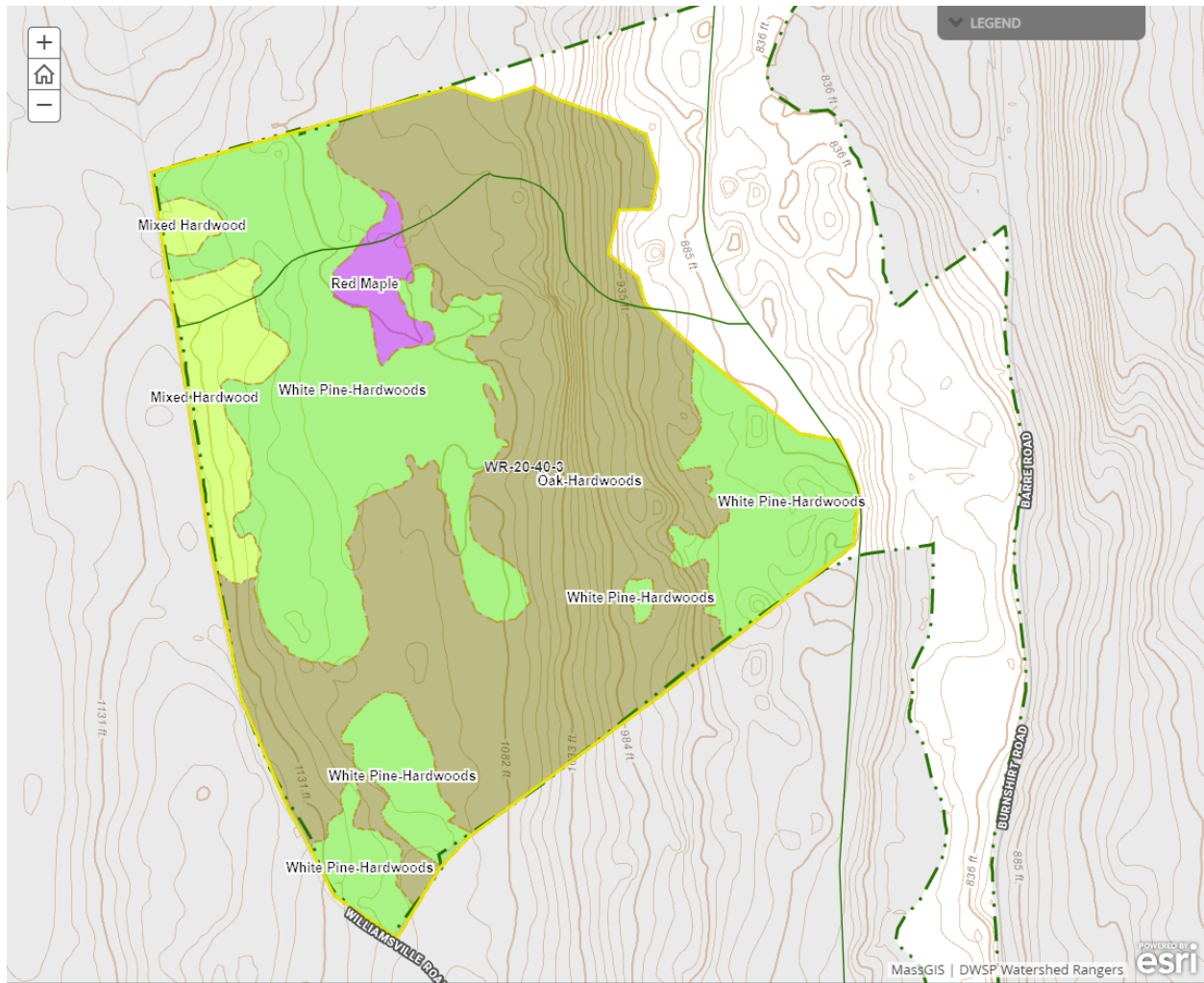
Description of forest composition/condition:

The oak/hardwood stand is a fully stocked stand dominated by sawlog size red and black oak of medium to good quality. There is approximately 120 square feet of basal area per acre, of which approximately 50 square feet is acceptable growing stock. The overstory consists of red oak, black oak, red maple, black cherry, paper birch, and yellow birch. Much of the stand is difficult to access due to slope, multiple small streams, and boulders.

The white pine hardwood stand is fully stocked and is dominated by mature sawlog size white pine of low to medium quality. There is approximately 140 square feet of basal area per acre, of which 25 square feet is acceptable growing stock. Red maple, red oak, black cherry, paper birch, and hemlock are also present in the overstory. Lot #4368 was completed in 2008 and consisted of a 10 acre regeneration cut and 4 smaller openings 0.5 to 0.9 acres in size. The harvest, located along Williamsville Road, targeted low quality white pine and hardwood. It has resulted in thick, diverse regeneration of tree species.

Assessment of Terrestrial Invasive Species:

Gypsy moth eggs are present, heavy in spots, in the oak stand. No obvious areas of mortality, but recon of the area took place after leaves had dropped. The site will be evaluated this summer to see if salvage harvesting is warranted.

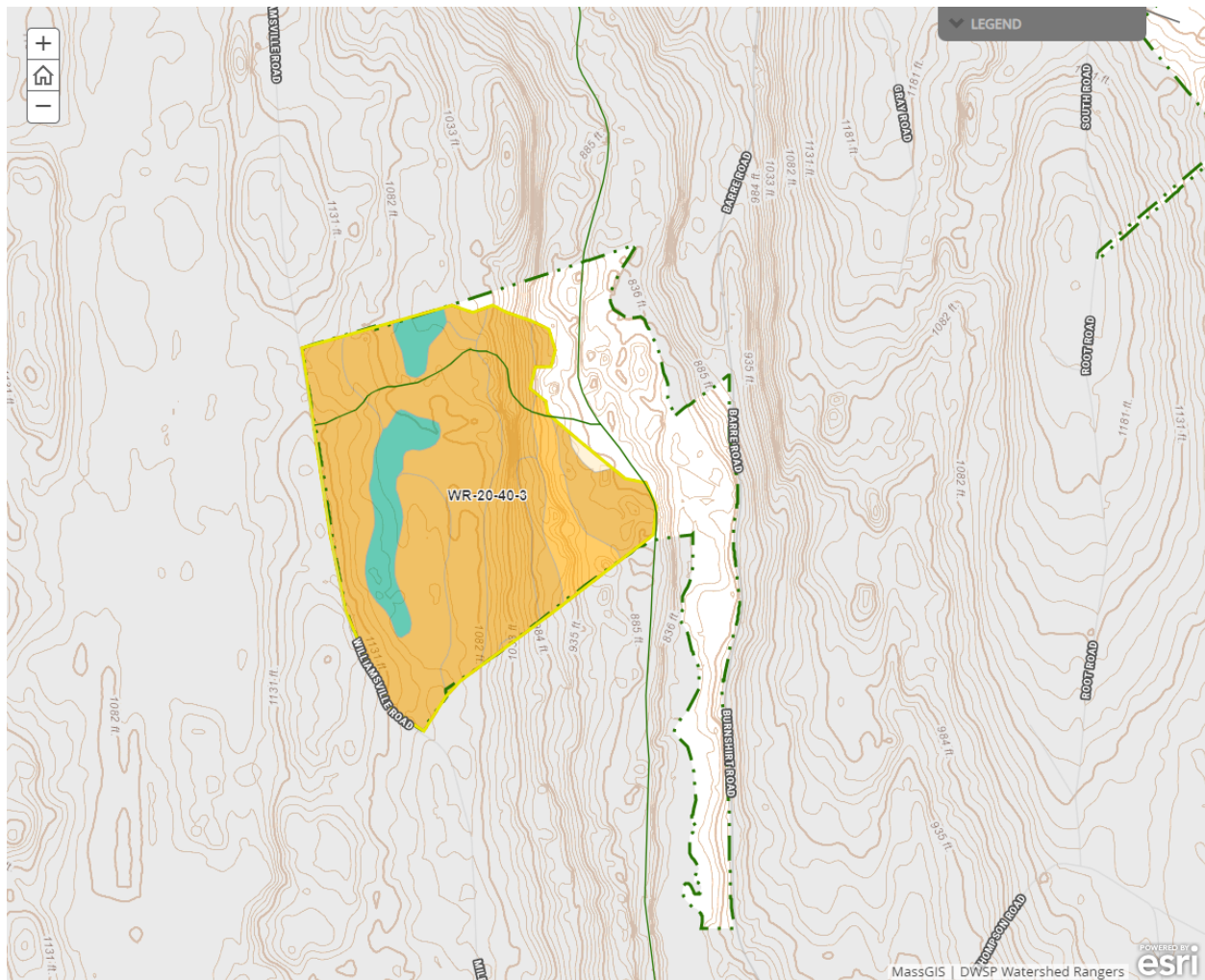


Soils

Drainage Class	%
Excessively Drained	0
Well Drained Thin	34
Well Drained Thick	25
Moderately Well Drained	30

Poorly to Very Poorly Drained	11
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908 C - Becket-Skerry association (77 acres) - moderately well drained
 924 C - Tunbridge-Lyman-Berkshire association (64 acres) - well drained
 913 E - Lyman-Turnbridge-Berkshire association (40 acres) - well drained
 926 C - Charlton-Chatfield association (30 acres) - well drained
 917 B - Pillsbury-Peacham association (25 acres) - poorly drained

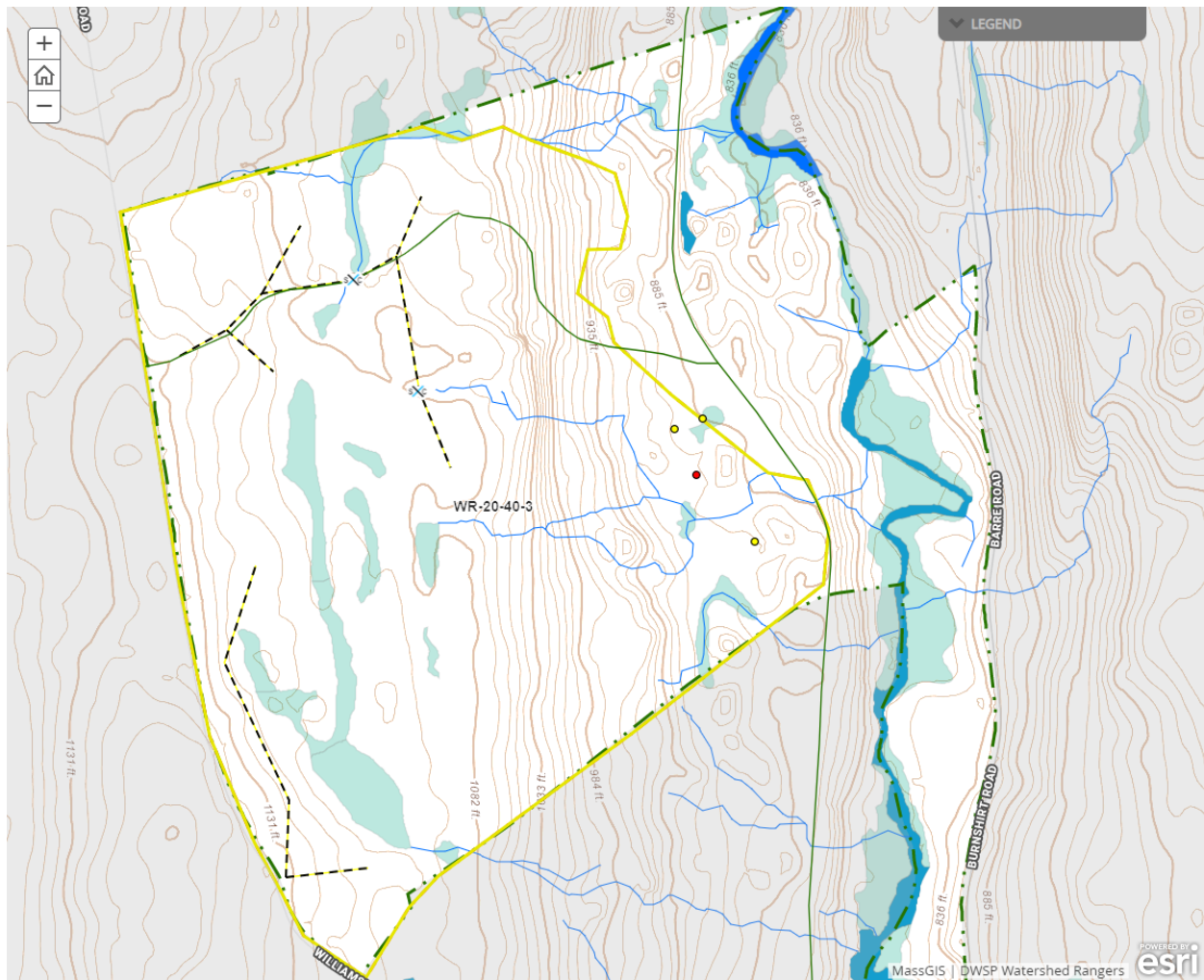


Wetlands

- Wetlands present? - **Yes**
- Streams present? - **Yes**
- Vernal pools present? - **Yes**
- Seeps present? - **None known**

- Are stream crossings required? - **Yes**
- Are wetland crossings required? - **No**
- Is logging in filter strips planned? - **Yes** ([Riparian Zone Mgt](#))
- Is logging in wetlands planned? - **No**

There is a band of wetlands that bisect the lot north-south. Most of the proposed work will take place west of that band, so that it will not need to be crossed. If extensive salvage in the oak/hardwood stand is needed, a landing may need to be established east of those wetlands and the access road leading to the old gravel pit may need to be upgraded.



Silviculture

Acres in Intermediate cuts: **0**

Acres in prep/establishment cuts: **0**

Acres in Regeneration cuts: **20**

Average regen opening size: **1.7**

Maximum regen opening size: **5**

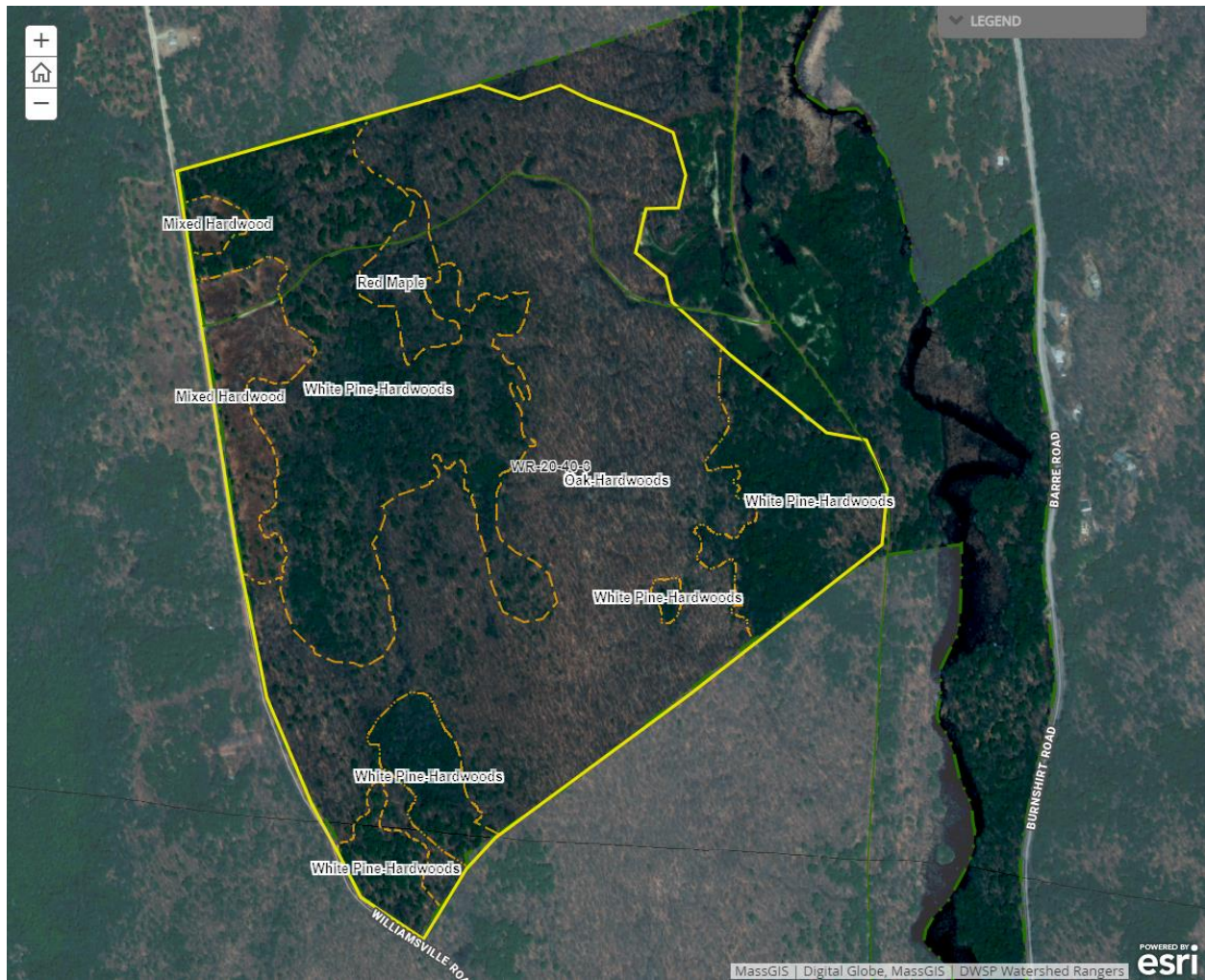
Description of advance regeneration in proposal area:

Within the white pine/hardwood stand sapling size red maple, white pine, red oak, American beech, black cherry, hemlock and paper birch are present. Mountain laurel is present and is heavy in and around the wetlands.

General comments on silviculture proposed:

Within the white pine/hardwood stand the previous openings will be expanded upon wherever possible. The expansion openings will be up to 2 acres, but will probably average closer to 1 acre due to wetlands and the road/property line which limit expansion possibilities. Two new openings of up to 5 acres will be established. One will be located in the northern section of the proposal, east of the smaller openings established by lot #4368. The other will be in the southwest portion of the proposal. Several openings less than 2 acres will also be established.

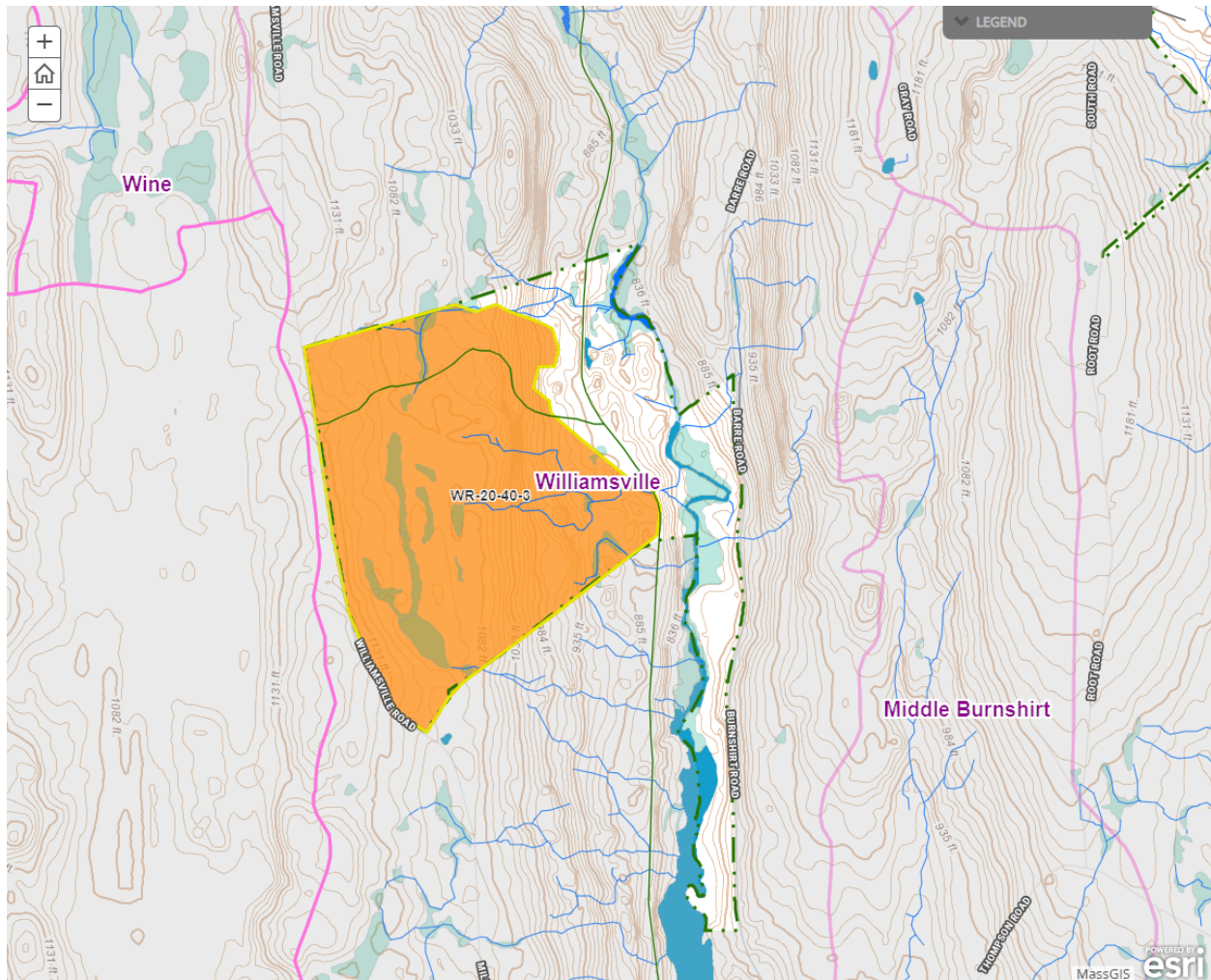
Most of the oak/hardwoods stand is difficult to access due to steep topography, boulders, and surface drainage features. Gypsy moth eggs were present, but leaves had already dropped when the stand was evaluated, so the level of defoliation/mortality is unknown. The stand will be re-evaluated this summer to determine whether salvage harvesting is warranted.



Subwatershed Analysis

Sub-watershed number	Total DCR-owned Acres	Acres Regenerated on DCR Land in the last 10 years	Acres Remaining for Regenerating Up to the 25% / 10 Year	Acres part of this proposal
8047	346	0	86	244

With only 20 acres of new removals proposed, the 25% threshold will not be exceeded.



Harvesting Limitations

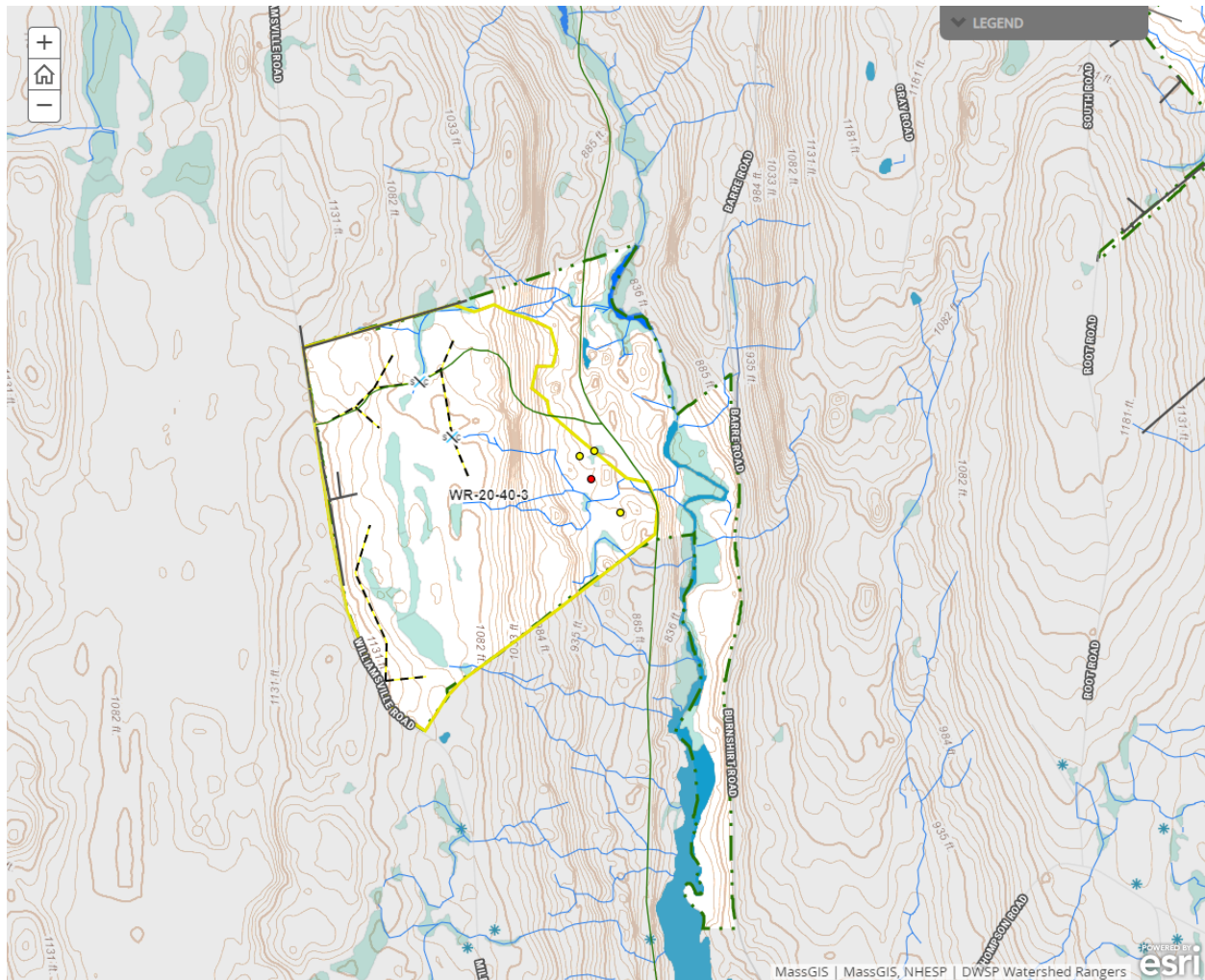
Forwarder required: **No**

Feller/processor required: **No**

Steep slopes present: **Yes**

Comments on harvesting limitations:

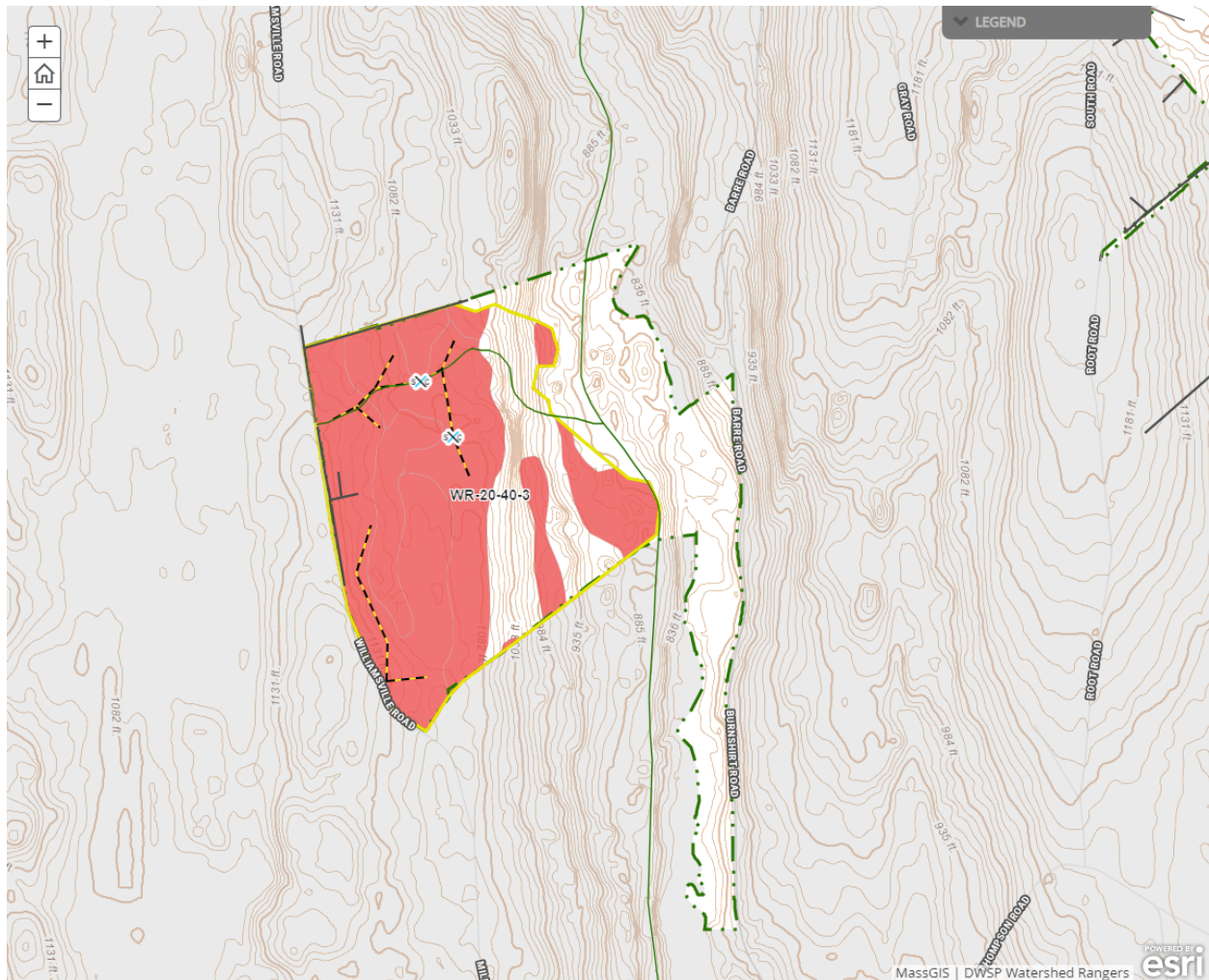
Some steep slopes are present in the oak hardwood stand and will be avoided.



Cultural Resources

Comments on Cultural Resources:

No known cultural resources within this proposal area. Stone walls will be flagged and avoided as much as possible. Existing barways will be used where feasible and harvest layout will protect walls as much as possible. If applicable DWSP will follow any additional recommendations from DCR's Archeologist regarding protection of sensitive sites.



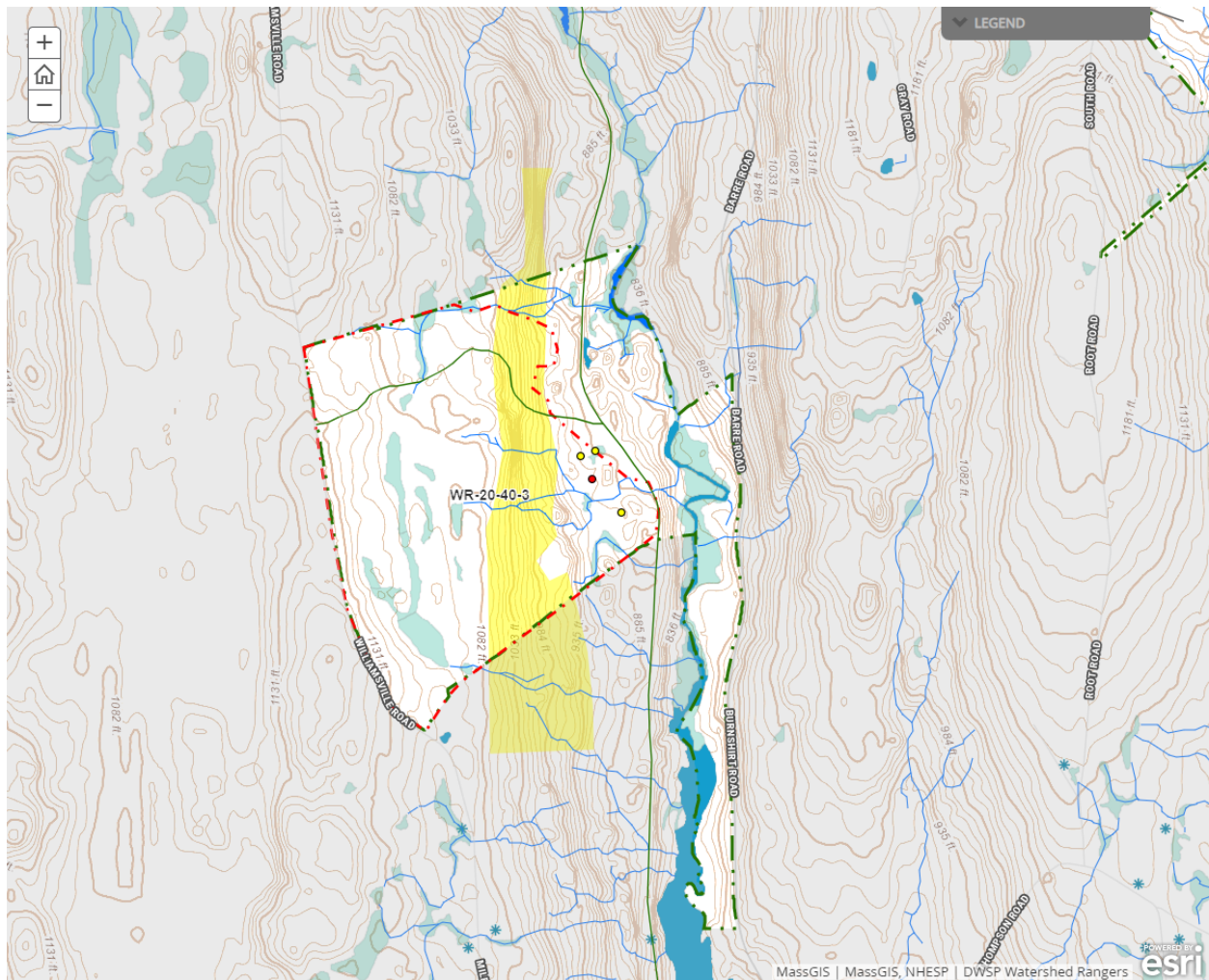
Wildlife Resources & Rare and Endangered Species

General Wildlife Comments:

No comments.

Comments on Rare Species/Habitats:

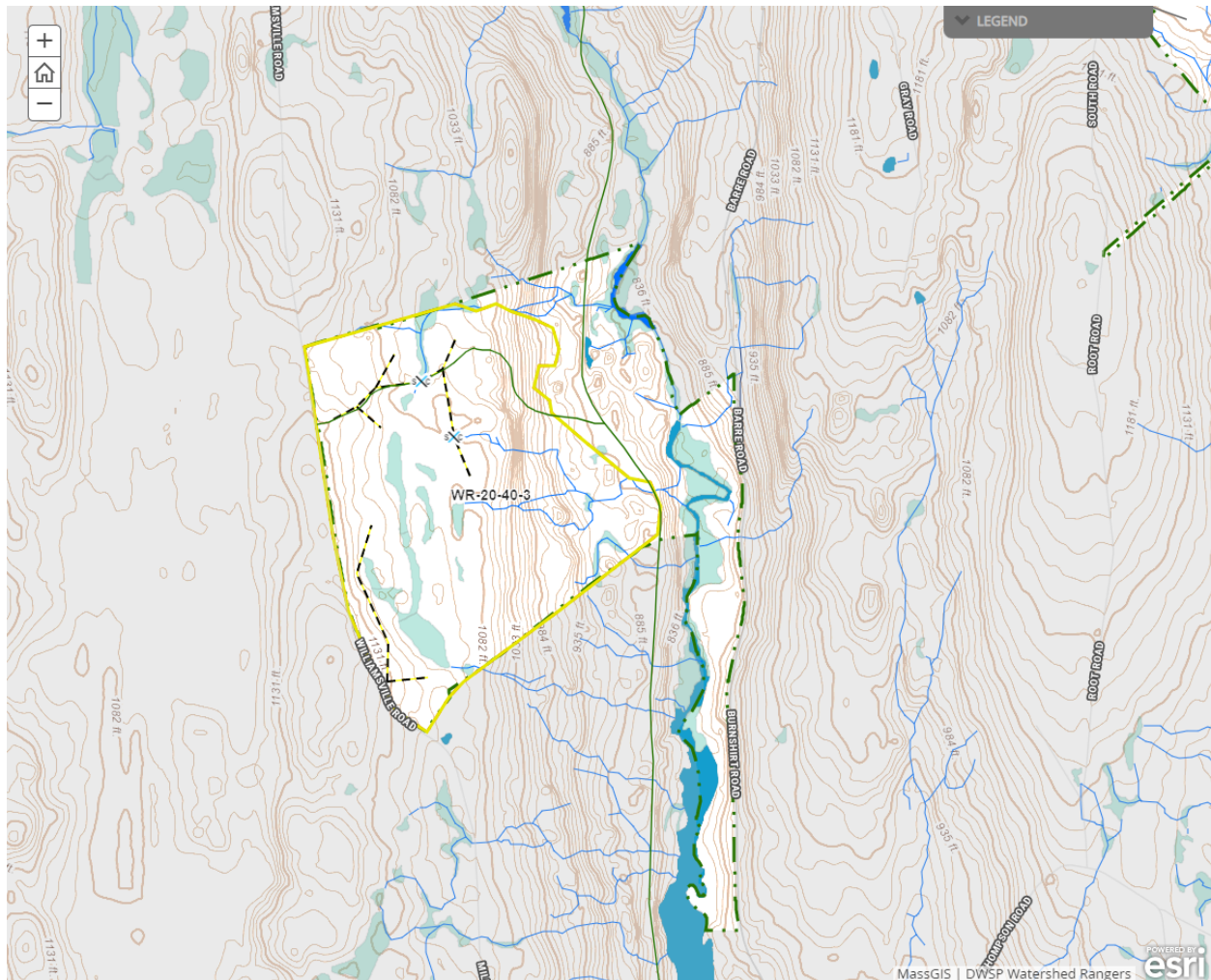
One possible vernal pool was surveyed in the center of the lot and determined to NOT be a vernal pool. Three other verified vernal pools are in the very southeastern portion of the lot. Those pools would only be potentially impacted if salvage harvesting in the oak stand is necessary.



Environmental Quality Engineering

Comments on EQ Issues:

One stream will be monitored for any impacts from this operation -- the stream crossing the gravel pit access road in the northern portion of the lot. The other proposed crossing is very rocky and the flow at the location is seasonal.



Forest Access Engineering

Gravel needed: No

Landing work needed: No

Culverts needed: No

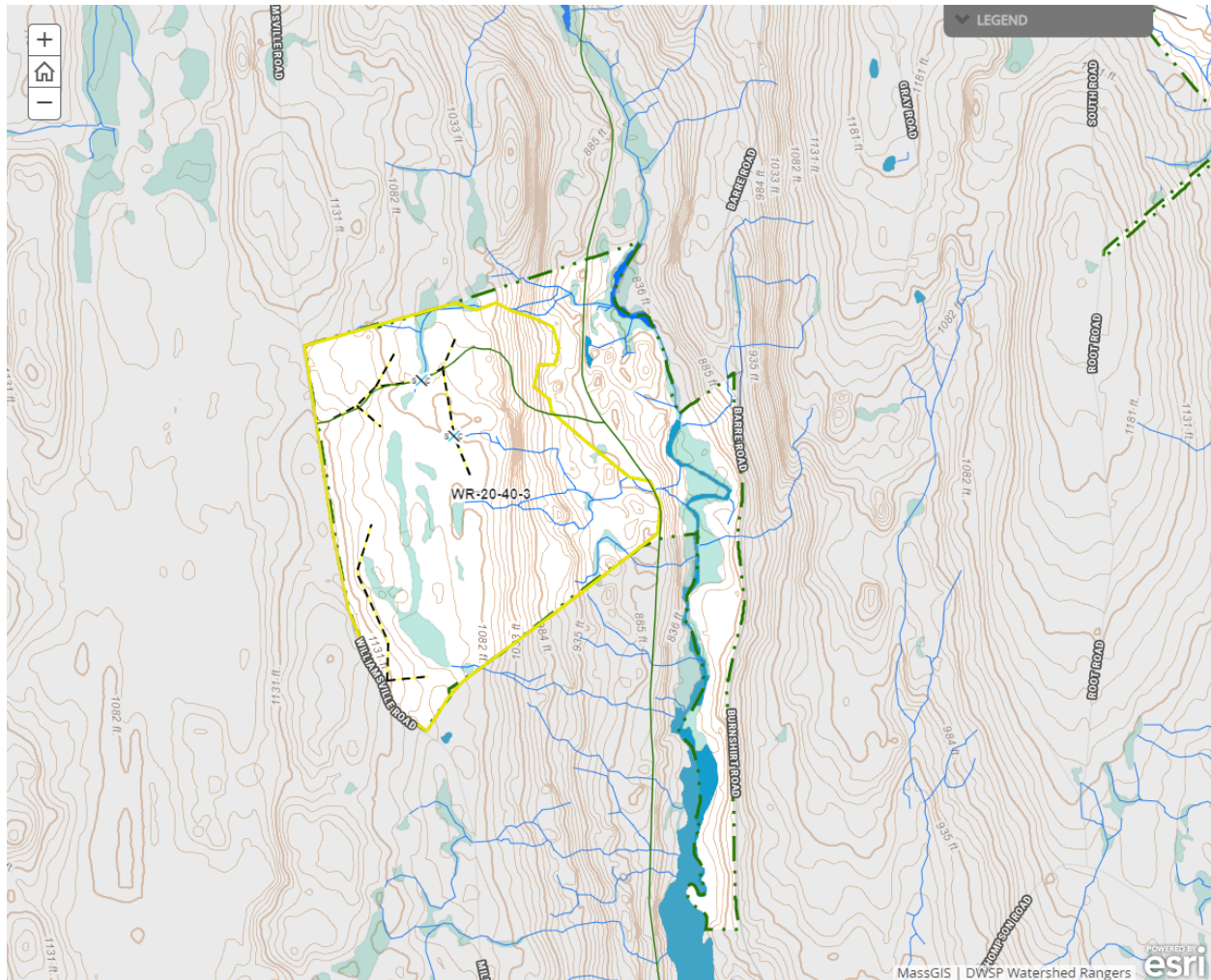
Work needed on permanent bridges: No

Beaver issue: No

Further comment on access needs:

Williamsville road may need some work to access the southern landing if necessary.

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DWSP FY 2020 Forestry Proposals – Master Legend for story maps

