

GKSF 2015 Chemical Release, Disc Trench, and Spray and Disc Trench Project

Objective:

The objectives of the treatments is to either release planted pine trees from competing vegetation, or prepare sites for pine planting that will occur in the spring of 2016.

Timing:

The exact day and time of the applications is dependent on the weather, vegetative conditions, and contractor availability. **Herbicide applications will occur between late July and mid-September.** Individual sites are generally completed in less than one day. Points of entry near the sites will be signed prior to the application. Trails within the spray sites will be closed for 24-48 hours, depending on the treatment.

Scope:

Spray Release - Services to include the release of pine species from perennial hardwood and herbaceous competition by applying Glyphosate and at a rate of two pounds of active ingredient per acre along with an approved surfactant where necessary. **Release work under this contract must occur no earlier than pine bud set.** This chemical will be applied using ground-operated equipment with nozzles attached to the rear of the equipment. The Contractor shall furnish all chemical, fuel, oil, and similar support items for the spray equipment. The Contractor shall provide the equipment to supply the necessary amount of water for mixing the herbicide and for cleaning the equipment. The contractor shall apply herbicide strictly in accordance with the chemical labels, all Federal laws, all Wisconsin laws and any applicable local laws. The Contractor shall provide a Wisconsin certified and licensed person to work on the spray project. The chemicals will be applied uniformly across the project areas, as indicated on the site maps.

Disc Trench – Services to include the preparation of planting sites with mechanical site preparation. Mechanical site preparation shall be accomplished with a power disc trencher. Such trencher shall be of the TTS configuration or be a similar piece of equipment approved by the Department. The width between adjacent trenched rows shall be eight (8) feet on center. The entire area, as designated on the site maps, must be uniformly and completely treated.

Spray and Disc Trench – The above details for Release and Disc Trench also apply here, except that, treatment may occur anytime during the growing season after all the contracting requirements are in place. A tank mix of Glyphosate (two pounds active per acre), Chopper Gen2 (18 oz. per acre) and Oust XP (1 oz. per acre) will be applied. **Trenching and spraying shall be done separately in two passes after the herbicide has taken affect.**

Site Description

Trench and Spray

1-16

The southern block of this site was harvested in 2011. The hardwood regeneration and brush is generally less than five feet tall. The two northern blocks were previously harvested and consist of brush and low density hardwood regeneration which is generally less than 10 feet tall.

2-16

This site was harvested in 2014. The site consists of fresh oak regeneration, scattered individuals and patches of intermediate mixed hardwoods regeneration, and scattered individual mature oak that were retained. The mixed hardwoods are generally six to 12 feet tall. Mature oak density ranges from approximately one to five trees per acre, plus or minus.

4-16

This is an irregular shaped clearcut that was whole-tree harvested in 2010. The target species include grass, brush, and hardwood regeneration that is generally less than 12 feet tall.

5-16

This site was harvested in 2012. Regeneration consists primarily of oak and mixed hardwoods that are less than eight feet tall. Other targets include grass and brush.

6-16

This was a pine plantation that was clearcut in 2011 following a major wind event. This site is an open grassy stand with a brush component.

Release

1-14

This site was disc trenched and planted to red pine in the spring of 2014. The site consists of a scattering of grass, brush, and oak/mixed hardwood regeneration. The regeneration is generally 10 feet tall and less. There are also individual and patches of mature trees on the site. The objective is to kill most of the vegetation under 10 feet tall.

5-06

This is a low density stand of mature jack pine over brush and hardwood regeneration. The site was pre-sale scarified with dozers in 2005 and harvested in 2007. The remaining jack pine will be harvested in the future in conjunction with a nearby sale. There are some young jack pine present in the scarified areas. The objective is to release the existing jack pine regeneration by killing the brush and hardwoods in the understory and possibly increase the jack pine density.

2-10

This site was furrowed with a fire plow and planted in 2010. The objective is to kill the brush and hardwood competition. Pockets of larger aspen should not be sprayed.

7-14

This site was disc trenched and planted to jack pine in the spring of 2014. The competition consists mainly of moderate density oak that is less than 10 feet tall. The objective is to kill most of the oak and brush.

1-11

This red pine plantation was disc trenched in 2010 and last planted in 2013. The competition consists mainly of oak and brush less than eight feet tall. The objective is to kill most of the oak and brush. There is a small settler cemetery off the northeast corner of this site. A cemetery buffer will be flagged prior to spraying. A pocket of aspen along the south line should not be sprayed.

5-14

This site was whole-tree harvested in 2010. Parts of the site were pre-sale scarified and the entire site was randomly planted to jack pine in 2014. The target species are primarily grass, brush, and hardwoods that are less than eight feet tall.

Disc Trench

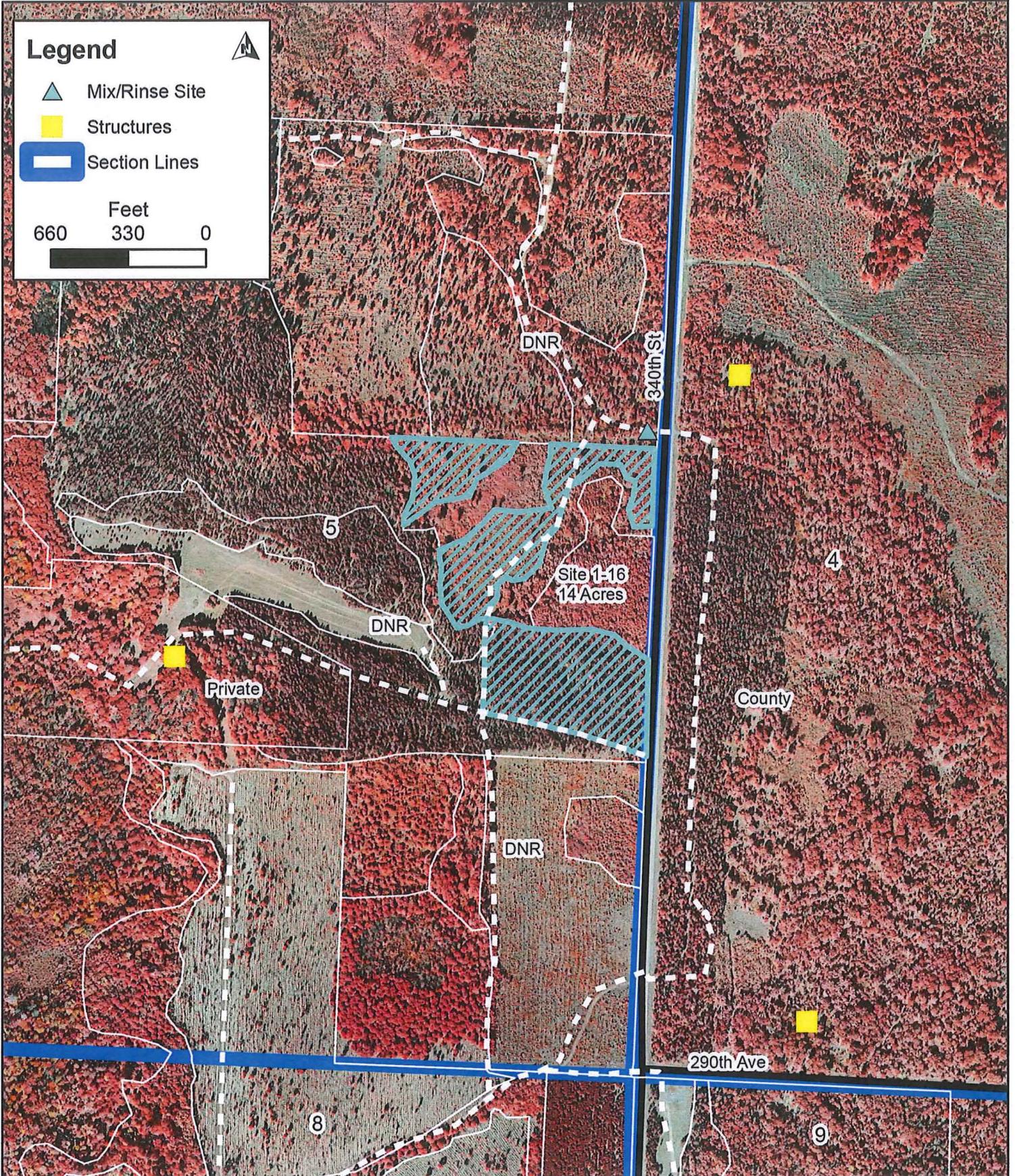
3-16

This used to be a red pine plantation until it was clearcut in 2011 following a major wind event. The stand consists mainly of grass and other low growing vegetation. The objective is to create mineral soil trenches to facilitate planting and seedling development.

GOV. KNOWLES STATE FOREST
CHEMICAL/MECHANICAL SITE PREP
NESE Sec. 5-T36N-R20W

Broadcast spray the following per acre rates:
Accord (glyphosate) - 1.5 quarts (2 pounds active ingredient)
Chopper (imazapyr) - 18 ounces
Oust (sulfometuron) - 1 ounce

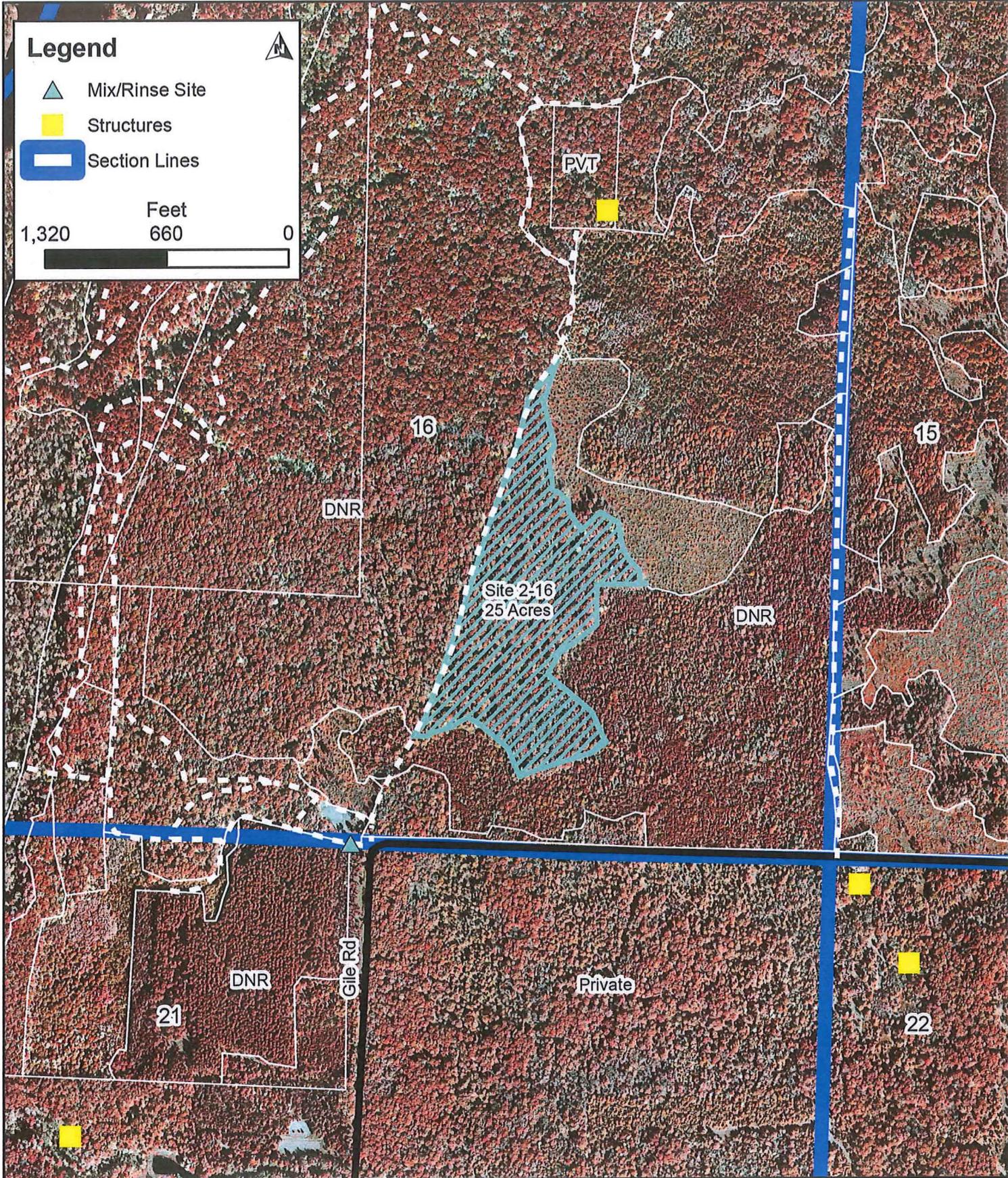
Disc trench rows 8 feet apart.



GOV. KNOWLES STATE FOREST CHEMICAL/MECHANICAL SITE PREP W1/2SE Sec. 16-T39N-R19W

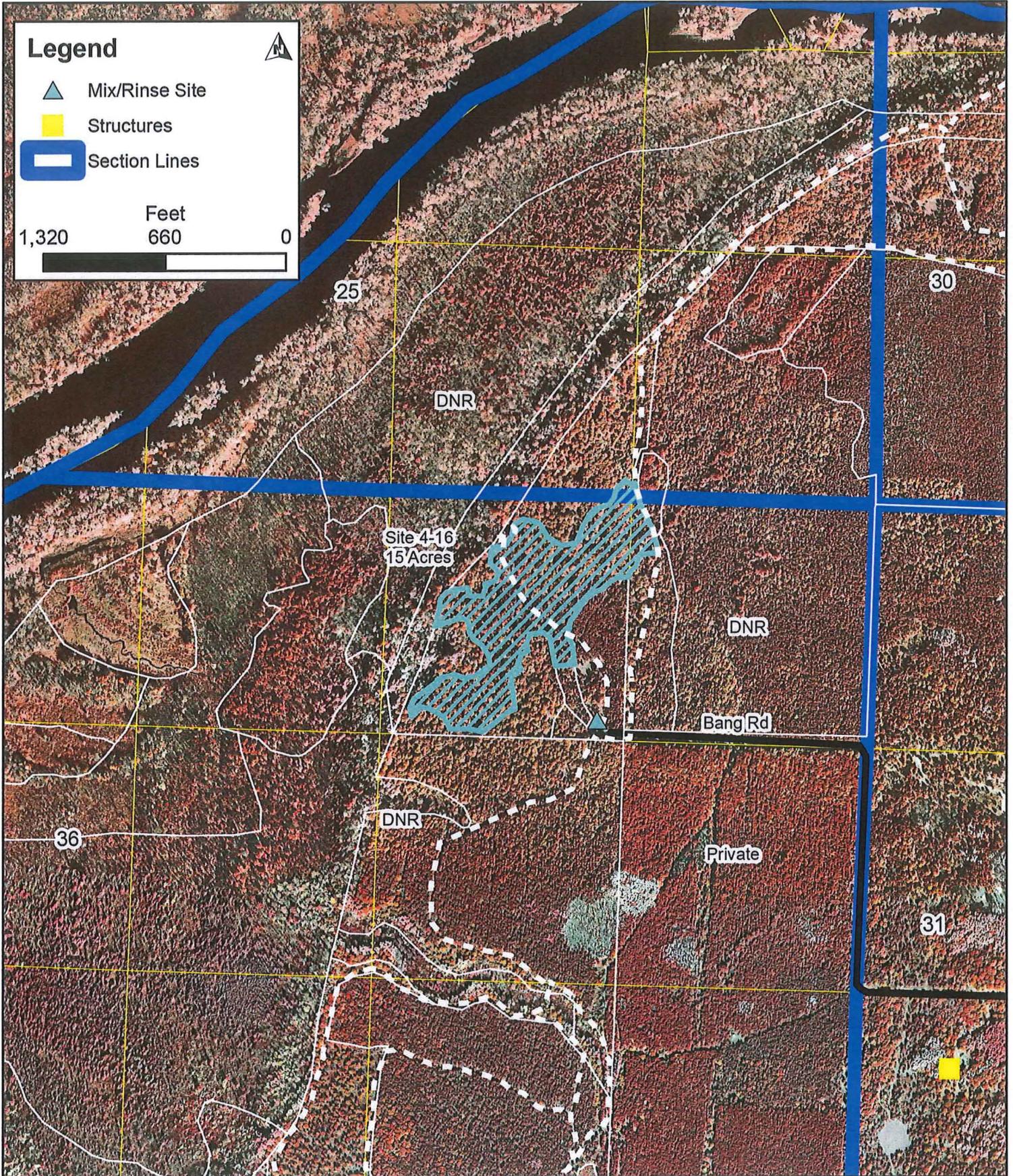
Broadcast spray the following per acre rates:
Accord (glyphosate) - 1.5 quarts (2 pounds active ingredient)
Chopper (imazapyr) - 18 ounces
Oust (sulfometuron) - 1 ounce

Disc trench rows 8 feet apart.



GOV. KNOWLES STATE FOREST
CHEMICAL/MECHANICAL SITE PREP
NWNE Sec. 36-T40N-R19W

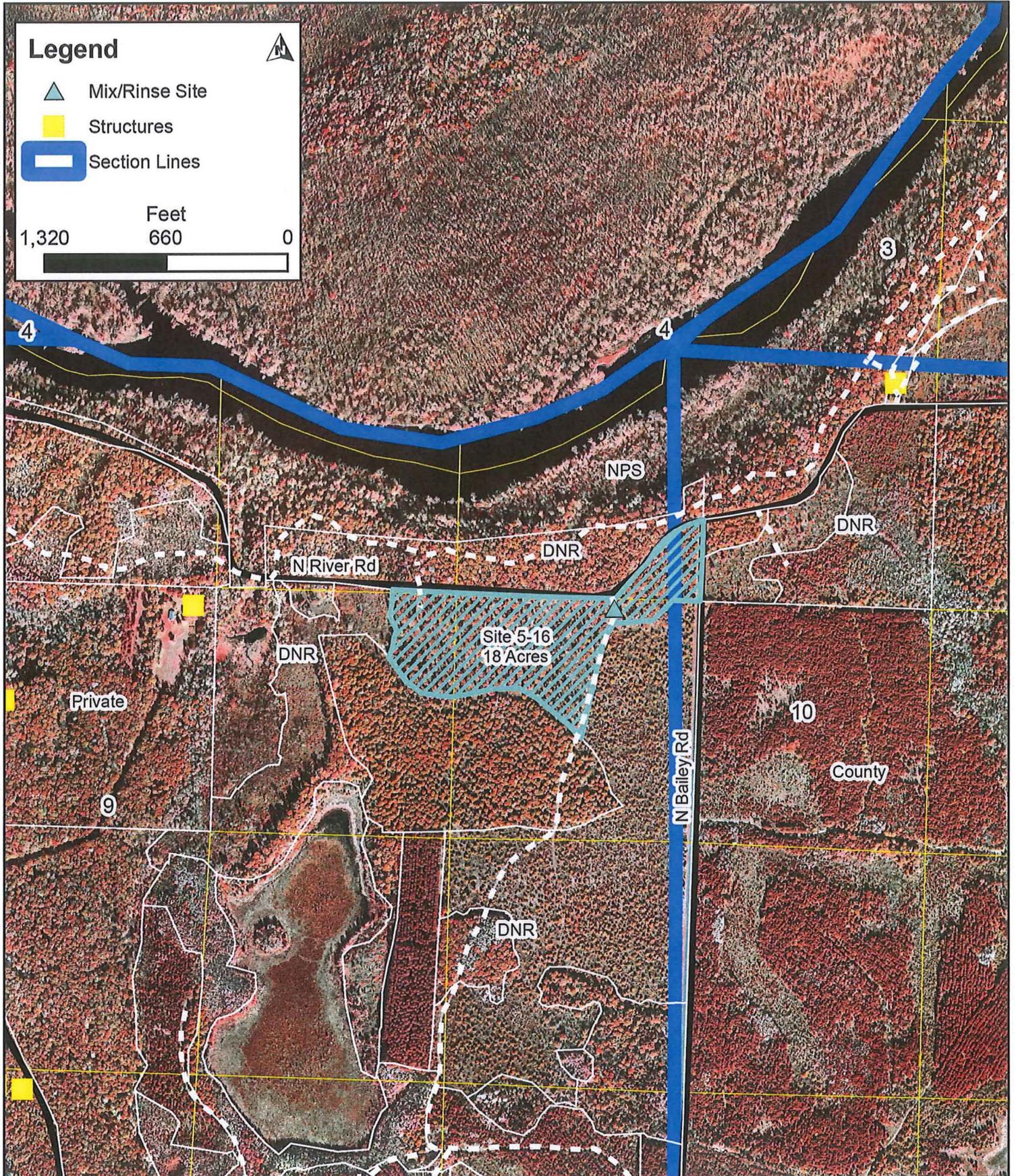
Broadcast spray the following per acre rates:
Accord (glyphosate) - 1.5 quarts (2 pounds active ingredient)
Chopper (imazapyr) - 18 ounces
Oust (sulfometuron) - 1 ounce
Disc trench rows 8 feet apart.



GOV. KNOWLES STATE FOREST
CHEMICAL/MECHANICAL SITE PREP
SWNE, SENE, NENE Sec. 9-T40N-R17W

Broadcast spray the following per acre rates:
Accord (glyphosate) - 1.5 quarts (2 pounds active ingredient)
Chopper (imazapyr) - 18 ounces
Oust (sulfometuron) - 1 ounce

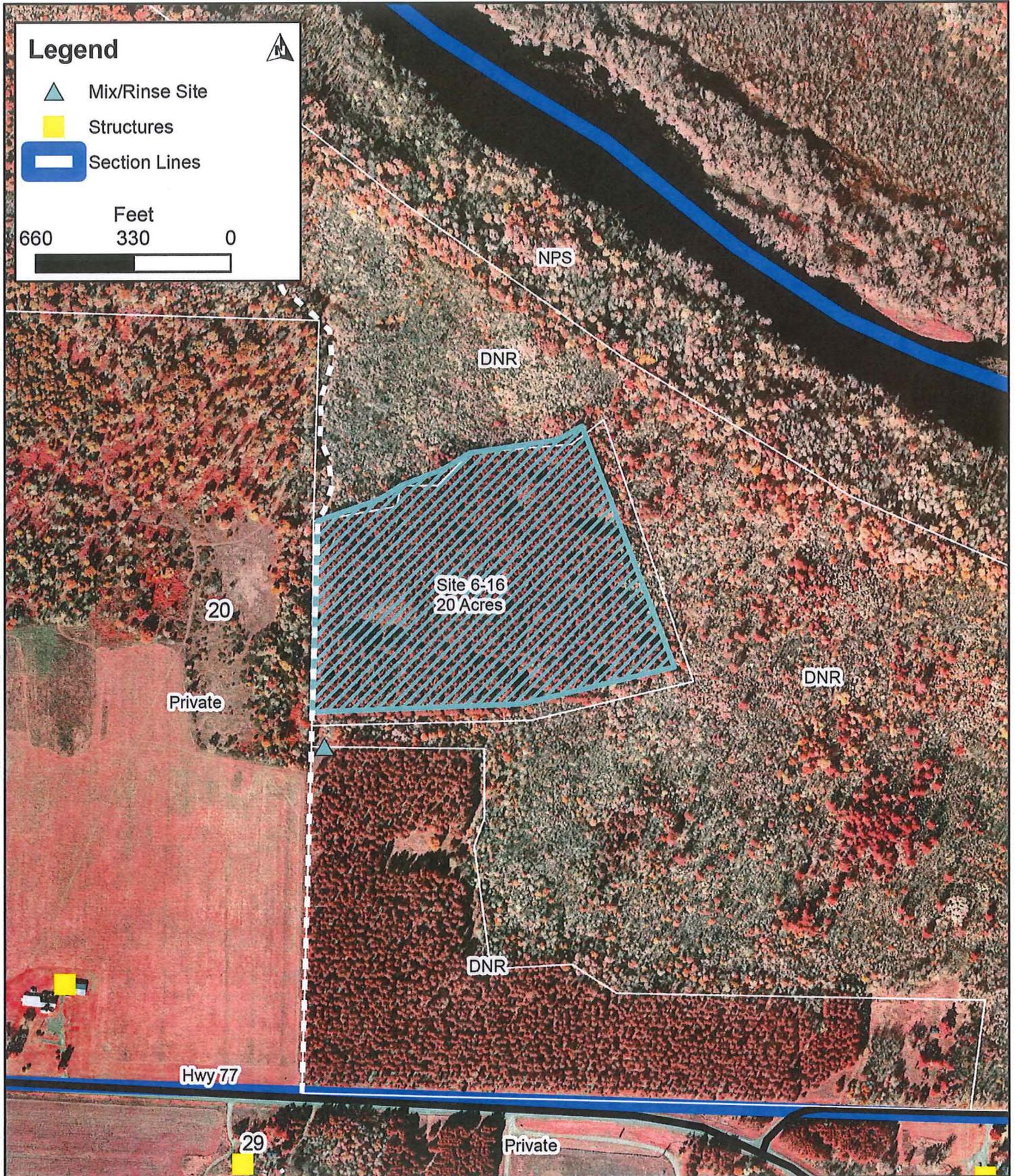
Disc trench rows 8 feet apart.



GOV. KNOWLES STATE FOREST
CHEMICAL/MECHANICAL SITE PREP
NESW Sec. 20-T41N-R16W

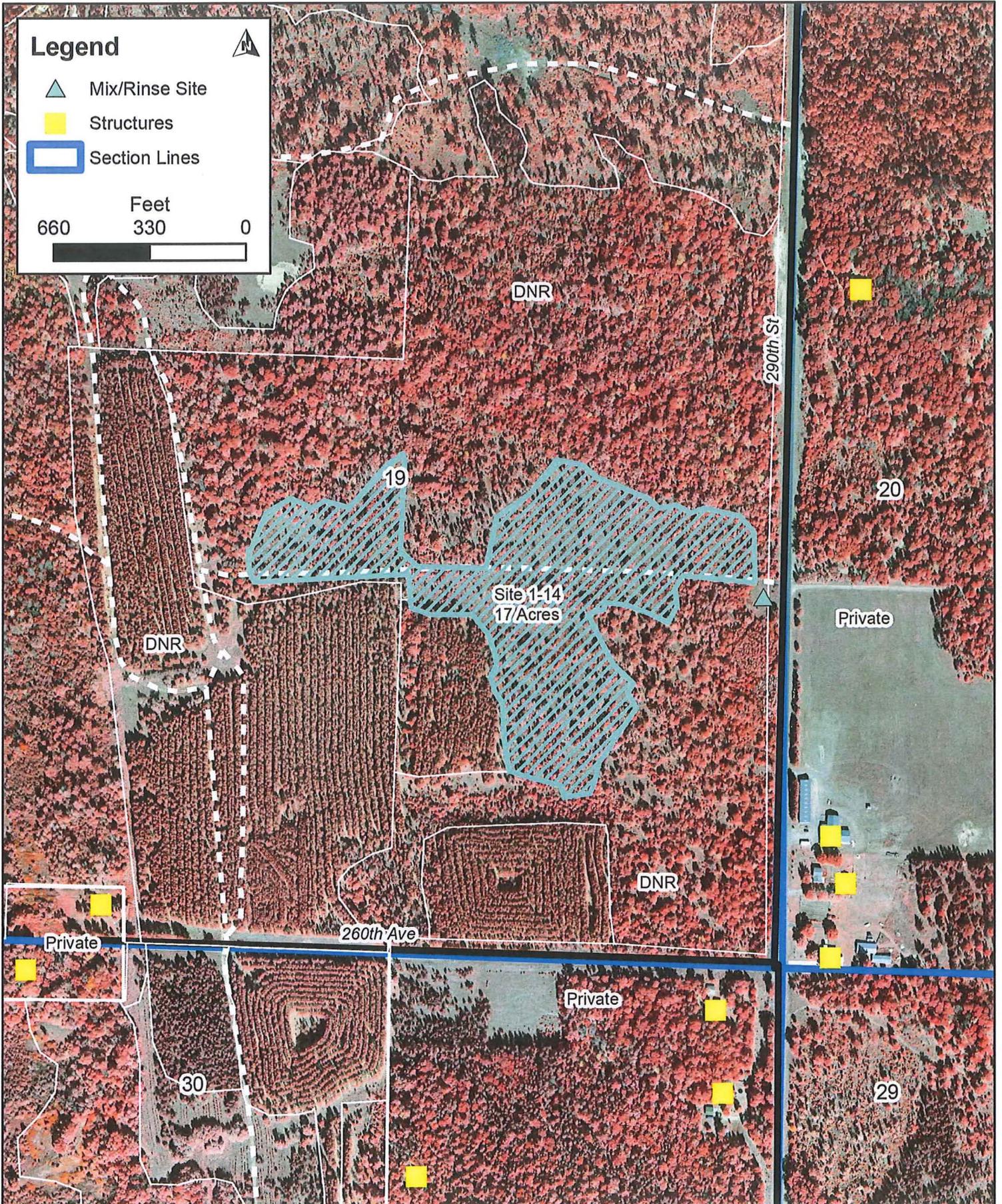
Broadcast spray the following per acre rates:
Accord (glyphosate) - 1.5 quarts (2 pounds active ingredient)
Chopper (imazapyr) - 18 ounces
Oust (sulfometuron) - 1 ounce

Disc trench rows 8 feet apart.



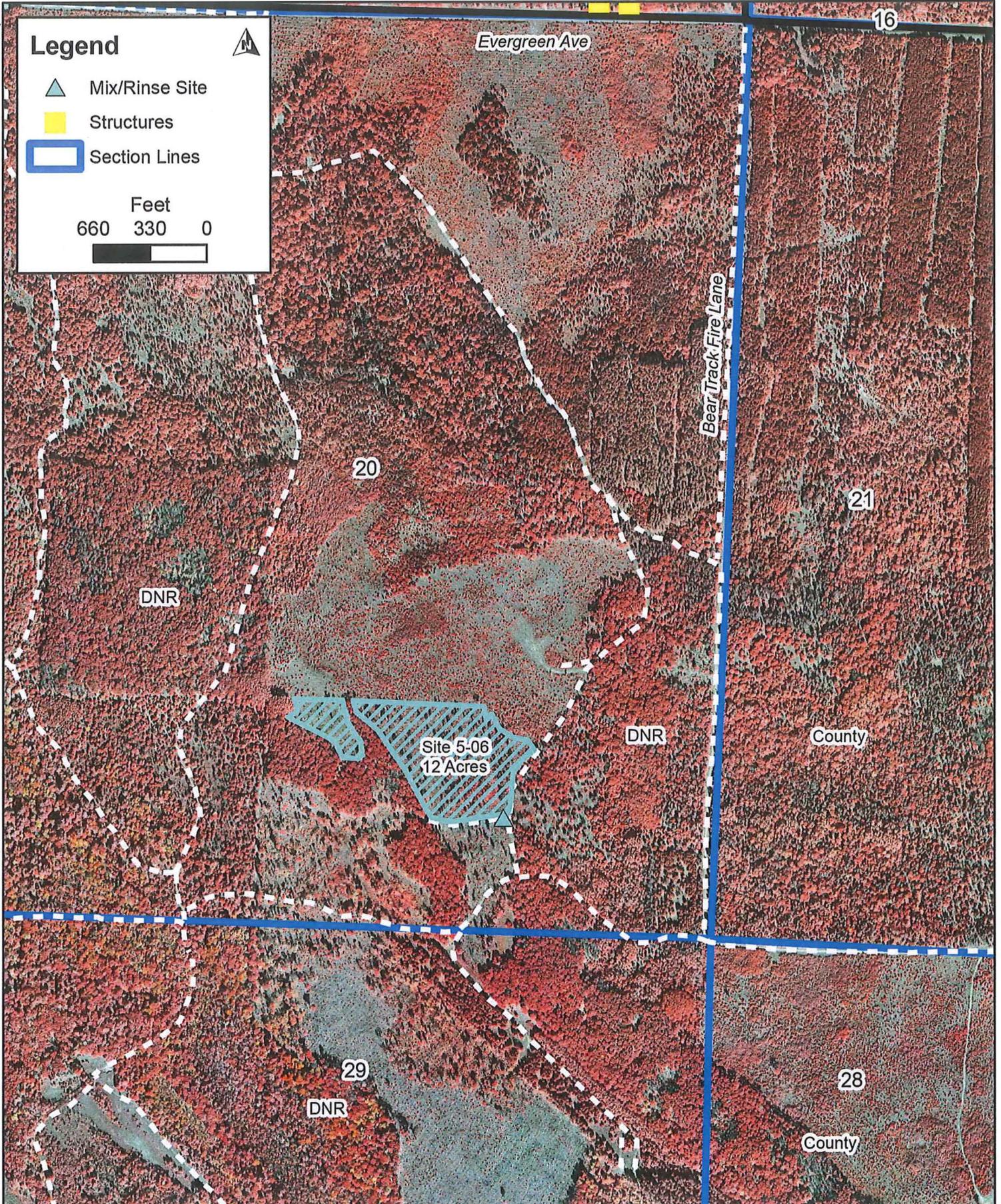
GOV. KNOWLES STATE FOREST
CHEMICAL RELEASE
SE 1/4 Sec. 19-T36N-R19W

Broadcast spray Accord (glyphosate) at a rate of
1.5 quarts/acre (2 pounds active ingredient)



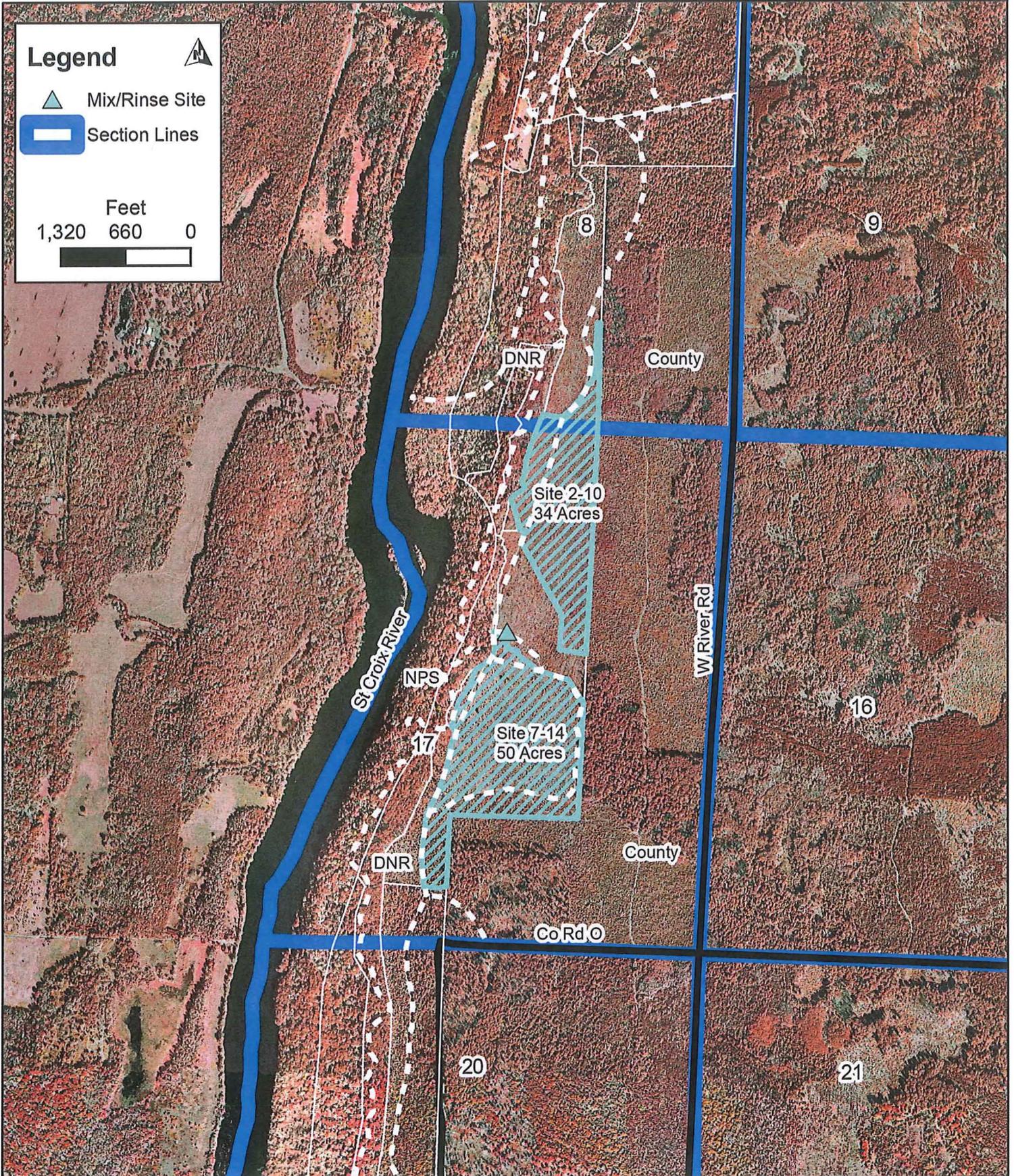
GOV. KNOWLES STATE FOREST
CHEMICAL RELEASE
SWSE Sec. 20-T36N-R20W

Broadcast spray Accord (glyphosate) at a rate of
1.5 quarts/acre (2 pounds active ingredient)



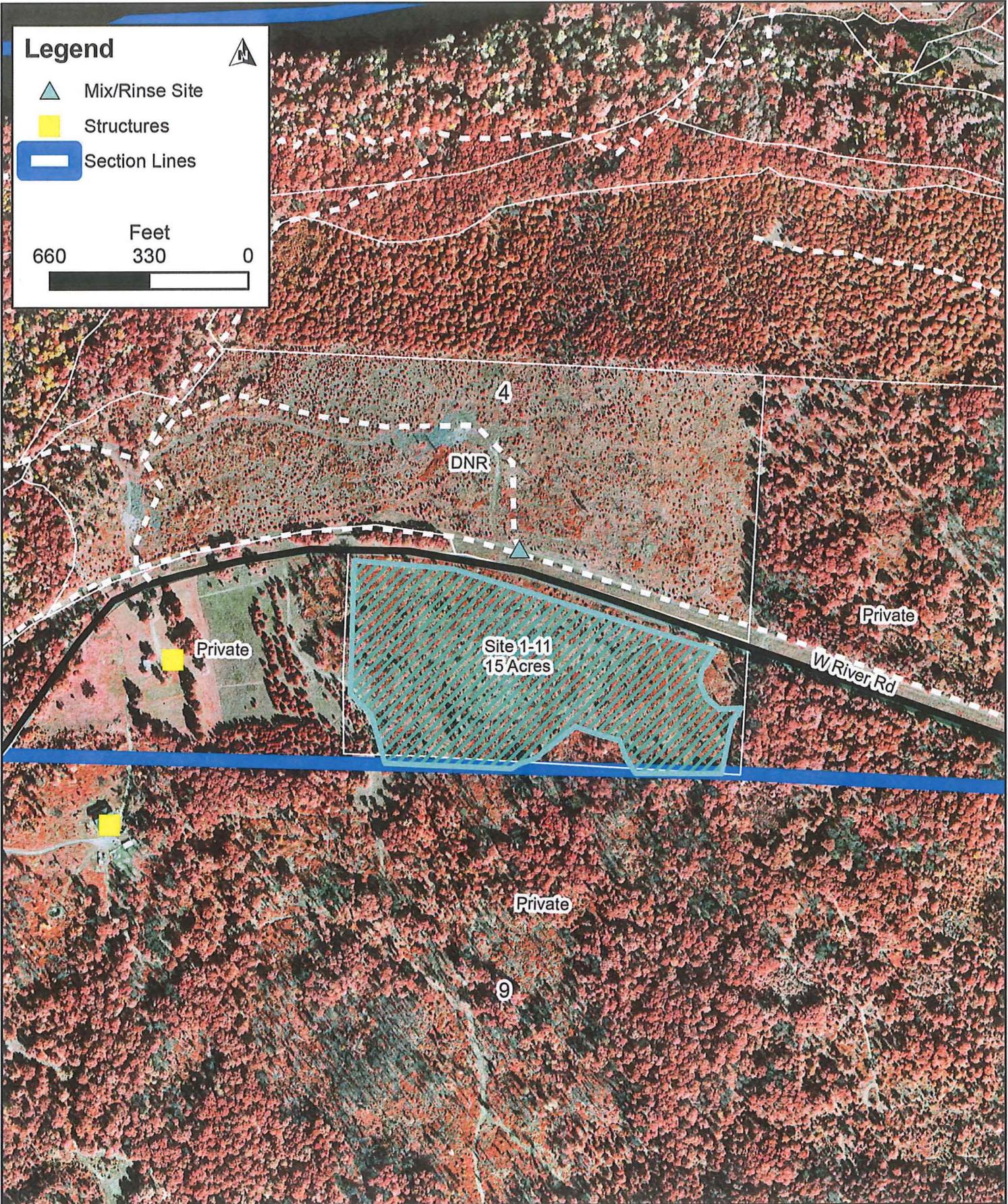
GOV. KNOWLES STATE FOREST
CHEMICAL RELEASE
SESW, NESW, NWSE, & W1/2NE Sec. 17-T37N-R20W
SWSE Sec. 8-T37N-R20W

Broadcast spray Accord (glyphosate) at a rate of
1.5 quarts/acre (2 pounds active ingredient)



GOV. KNOWLES STATE FOREST
CHEMICAL RELEASE
SESW Sec. 4-T37N-R20W

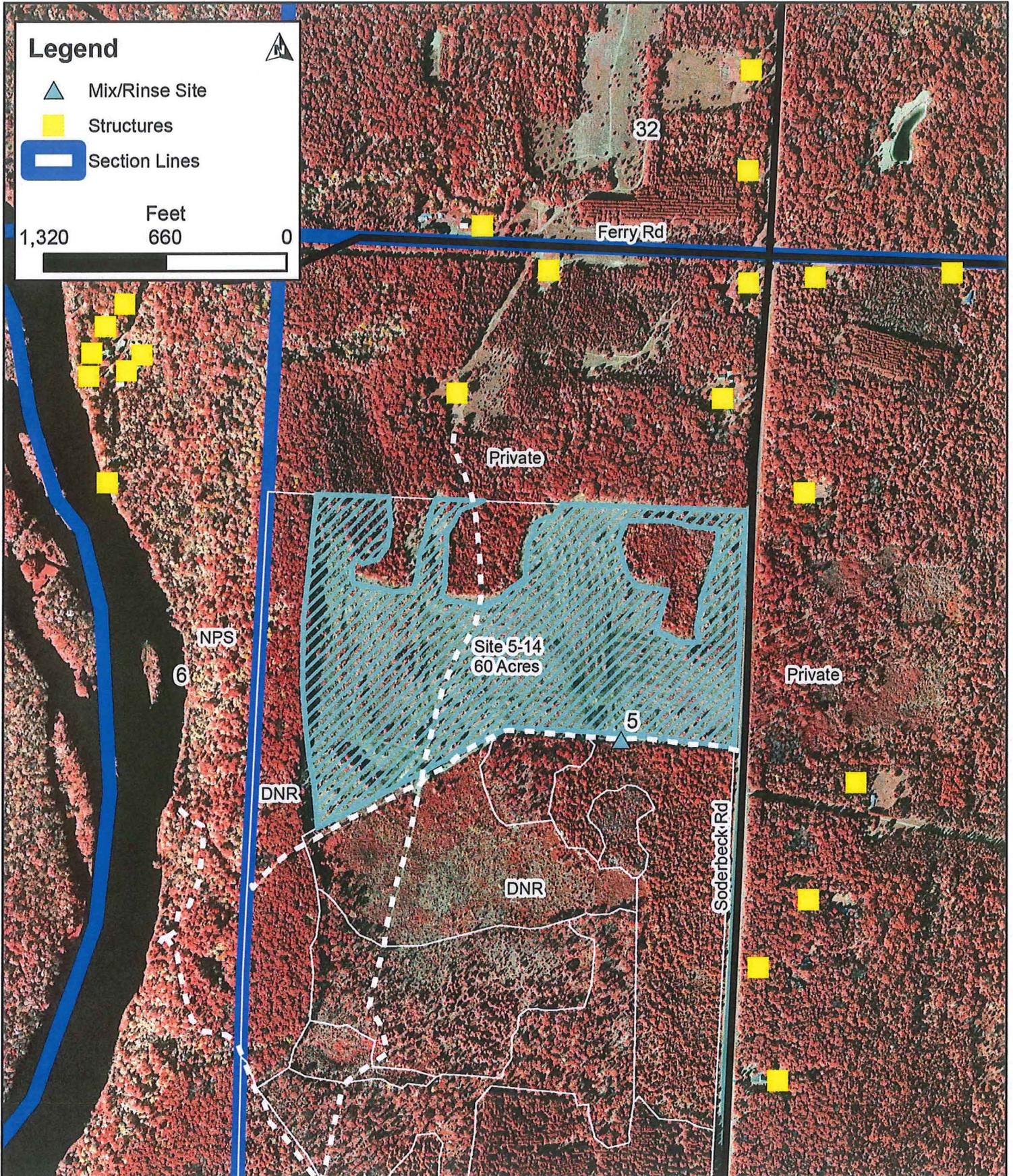
Broadcast spray Accord (glyphosate) at a rate of 1.5 quarts/acre (2 pounds active ingredient)



GOV. KNOWLES STATE FOREST
CHEMICAL RELEASE
S1/2NW, NWSW Sec. 5-T38N-R19W

Broadcast spray Accord (glyphosate) at a rate of 1.5 quarts/acre (2 pounds active ingredient).

Avoid spraying discernable aspen clones. Generally these will be dense, even-aged patches greater than 1/2 acre.



GOV. KNOWLES STATE FOREST
MECHANICAL SITE PREP
SENW Sec. 11-T39N-R19W

Disc trench rows 8 feet apart.

