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**R1 NEPA Strike Teams GIS Analysis Report**

**Project Name: South Otter**

**Date: 2021-03-17**

**GIS Request Number: 6 - South Otter**

**Requesting Resource: Wildlife**

**Requesting Specialist: Graham Neale**

**GIS Specialist:** Jeff Erwin

**Request:** This request is for identifying Special Measures Areas.

1) identify NOGO nest trees using MNHP survey data and generate a 40-acre buffer around them.

2) for NOGO Post Fledgling Areas, generate a 420 acres buffer around nest tree.

3) identify all woody (hardwood) draws and generate a 150-foot buffer around them.

**Data Sources:**

**Nest Sites**

T:\FS\NFS\Custer\Project\Ashland\SouthOtter\GIS\Data\SouthOtterNEPA.gdb\Wildlife\FS\_PUBLIC\_READ\_\_NRIS\_WildlifeObservation\_Pt\_1

**Nest Sites**

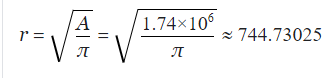
T:\FS\NFS\Custer\Project\Ashland\SouthOtter\GIS\Data\SouthOtterNEPA.gdb\Wildlife\MTHPSONGPrjAreaSurvey20210317

**MTHP 40 Acre Buffer**

**NRIS 40 Acre Buffer**

**Acreage Equation used to create buffer:**

Convert 40 acres to SQ FT = 1,742,400sqft

Solve for Radius = 

Use 744.73 feet for buffer distance

**PFA Modeling**:

**Deciduous (Hardwood) Modeling:**

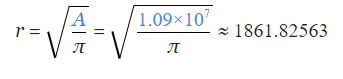
A reforestation analysis was performed on the South Otter project area assigning “strata” to vmap polygons. Aspen draws within the analysis are identified by “A” in the strata field and have been used to identify hardwood draws for this analysis.

See this document for the reforestation analysis details - T:\FS\NFS\Custer\Project\Ashland\SouthOtter\GIS\Data\ReforestationAnalysis\20201224SouthOtterReforestationAnalysis.docx

Refo Data - T:\FS\NFS\Custer\Project\Ashland\SouthOtter\GIS\Data\ReforestationAnalysis\SOReforestationData20201124.gdb\REFOVMAP\SORefoMaster20201221

**Acreage Equation used to create buffer:**

Convert 250 acres to SQ FT =10,890,000sqft

Solve for radius: 

Use 1862 feet for buffer distance

**Data Locations:**

**Notes:**