Permit 20007-25

Field Name	Field Value
Name	Randy Mitchell, Mark Purdy
Organization	University of Akron Biology Department
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Web_Address	
Renewal	No
Permit_Number	
Activity	Research
Project	Buckthorn Eradication in the Tamarack Bog
Dates	SeptOct 2007, Through Nov 2010
Group_Size	1-4
Research_Area	No
Sensitive_Area	Yes Tamarack Bog
Other_Areas	No
Building	No
Prep_Work	
Sampling_Collecting	Yes
Sampling_Methods	Quadrats and transects. no permanent markers; Glossy Buckthorn, an alien invasive species, will be removed from the tamarack bog .
Description	We propose to study the effectiveness of a method to eliminate of glossy buckthorn (<i>Rhamnus frangula</i>) in the Tamarack Bog at BNP. This work is consistent with the prior recommendations of Dr. Lauchlan Fraser, former UA biology professor, as described in his 2005 paper in the Ohio Journal of Science. Eradication would be done by cutting the buckthorn plant near ground level and applying herbicide (50% glyphosate , per recommended dose) on the cut stump via a standard laboratory squirt bottle. This is a very effective method, minimizes total herbicide use, and is specific to only the intended species. (ie - glyphosate decomposes relatively quickly in contact with soil or water, and there should be little, if any, harm to other species). Purdy has used this technique for 7+ years as a volunteer for The Nature Conservancy (TNC) and routinely lead s TNC work crews using herbicides at Herrick Fen Nature Preserve. We have discussed the proposed work with Jim Belt, Enforcement Officer for Pesticide & Fertilizer Regulations

require intensive effort this year, with follow-up we future years for eradication of new buckthorn plant expanding the size of the buckthorn-free area. Each action only makes the problem worse. I believe tha little risk. The bog is currently overrun with alien in and weI don\'t expect that the proposed work could Rather, the proposed work has a very high probabil the health of the bog (even though the bog is in the of its life). We have discussed this with Karen Ad agrees with my position. This work is also a pre-rec potential educational boardwalk in the bog. To mo effectiveness of this project Dr. MItchell and I will abundance on several sample plots before and after efforts.	ts and/or h year without at there is very nvasives d make it worse. lity of improving declining stage lair of TNC, who quisite for any onitor the l score buckthorn
Agreement Accept	