# "M"

## **Biological Study**

#### Forest Ecosystem Management, PLLC PO Box 455 \* Potomac, MT 59823 (406) 490-7427 \* cptown@blackfoot.net

January 21, 2016

Scott Butler, RPF
Environmental Resource Management
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RE: Sodhani Winery Project Section 22 T8N, R6W, MDB&M - Napa County

Scott,

This is an assessment for northern spotted owls (*strix occidentalis caurinia*), or NSOs, for the Sodhani Winery Project located at 3283 St. Helena Hwy near St. Helena, California. The Project proposes to remove 8 conifers (Douglas-fir trees) and 1 hardwood (Olive tree). As the Project proposes to harvest trees, this assessment uses U.S. Fish & Wildlife Service's guidelines for proposed management activities that may impact northern spotted owls.

#### **Known Northern Spotted Owl Territories:**

On 12JAN16, I ran a California Department of Fish & Wildlife's spotted owl viewer for the above listed project (Attachment #1). An assessment area of 1.3 miles from the project area was used. The 1.3 mile assessment area was created by USFWS for a Take Avoidance of northern spotted owls within the California Interior (outside the redwood zone). Although Napa County does have redwoods, the environmental conditions in the area are hotter/drier than the coastal redwood zone; therefore, the 1.3 mile assessment area was used for this Project (Attachment #2). A summary of the report includes:

Owls Sites Found (there is one known NSO territory within 1.3 miles of the Project Area):

NAP005 – Northern Spotted Owl Territory is located approximately 3,400' (within 0.7 miles) from the Project Area. This territory is based upon a pair of NSOs located with 1 young in 1989. The territory was found active in 1987, 1989, 1990, 1991, and 1998. Surveys in 2000 and 2002 did not detect any NSOs. To my knowledge, there is no current survey information available.

#### **Northern Spotted Owl Habitat:**

The attributes for northern spotted owl habitat includes a forest with:

- Dense, multi-layered canopy of several trees species.
- Trees of varying sizes and ages.
- Abundant logs, snags/cavity trees, and trees with broken tops or platform-like substrates (i.e. broken tops, mistletoe, debris piles, or old raptor/squirrel nests).
- Open spaces among lower branches to allow flight under the canopy.

USFWS more specifically defines northern spotted owl habitat within the California Interior as follows:

- High Quality Nesting/Roosting Habitat: Mixed tree species with basal area of 210+ ft2 and ≥ 15" quadratic mean diameter, and ≥ 8 trees per acre of trees ≥ 26" in diameter at breast height, and ≥ 60% canopy closure.
- Suitable Nesting/Roosting Habitat: Mixed tree species with basal area ranging from 150
   180+ ft2 and ≥ 15" quadratic mean diameter, and ≥ 8 trees per acre of trees ≥ 26" in diameter at breast height, and ≥ 60% canopy closure.
- Suitable Forging Habitat: Mixed tree species with basal area ranging from 120 180+ ft2 and ≥ 13" quadratic mean diameter, and ≥ 5 trees per acre of trees ≥ 26" in diameter at breast height, and a mix of ≥ 40% to 100% canopy closure.
- Low Quality Foraging Habitat: Mixed tree species with basal area ranging from 80 -120+ ft2 and > 11" quadratic mean diameter, and > 40% canopy closure.

#### **Project Area**:

The Project Area is on the edge of an existing vineyard and mixed second-growth forest (Attachment #3). The trees to be removed are close to buildings, a vineyard, along an access road, and a large expanse of unsuitable habitat to the east of Highway 128 & Highway 29 (Attachment #4).

The location of the 9 trees is within unsuitable northern spotted owl habitat due to lack of contiguous canopy closure, adjacent to vineyard, and presence of actively-used structures (Attachment #5). The forest immediately adjacent to the Project Area does meet USFWS definitions of suitable northern spotted owl habitat.

#### No Take of Northern Spotted Owls:

As the proposed removal of 9 trees for the Sodhani Winery is within unsuitable NSO habitat but does have suitable NSO habitat immediately adjacent to the Project Area; the Project should fall under USFWS Scenario 2 of the Northern Spotted Owl Take Avoidance Scenarios, in which the following applies:

#### Scenario 2: No Take

- A. No suitable habitat in harvest units, and
- B. Suitable habitat within 0.25 miles of timber operations (tree removal), then:
  - a. Seasonal restrictions from February 1 to July 9, OR
  - b. Protocol surveys completed with no reproductive behavior and no timber operations (tree removal) until the conclusion of protocol surveys.

#### **Options for Sodhani Winery Project Removal of 9 Trees:**

This Project has a few options:

- Due to potential habitat within 0.25 miles, they are allowed to cut trees and complete harvest operations outside the nesting season without surveys. This means trees could be removed between July 10<sup>th</sup> through January 31<sup>st</sup> of any given year; without surveys being completed.
- 2. Due to suitable NSO habitat within 0.25 miles, they can survey for northern spotted owls within the ¼ mile suitable habitat, with harvest operations occurring after protocol surveys are completed and submitted to the appropriate regulatory agency. They should be able to use a one year disturbance only protocol. The protocol surveys would require six NSO calling surveys during the period of March 1<sup>st</sup> through July 30<sup>th</sup>. The six surveys must be completed with at least 7 days in between surveys. Surveys can begin, at the earliest of March 1<sup>st</sup> and should have at least one survey in the month of April, May, and June.
  - a. If Surveys are completed, the findings will be submitted to the County.
    - i. If no northern spotted owls are detected cutting of trees can be completed upon submittal of surveys to Napa County.
    - ii. If a northern spotted owl is detected the landowner will be notified immediately, and mitigation measures will be submitted to the Project Leader and Napa County. Napa County has 5 business days to review and comment on the mitigation measures.
- 3. Due to NSO territorial size requirements and topography of the landscape around the Project Area, if NSO territory NAP005 is detected within their historic activity center prior to the completion of the six surveys; surveys can be discontinued and harvest operations can begin once survey findings are submitted to the County.

This is a general assessment of northern spotted owls for the above listed project area. This is not a complete Biological Assessment for all listed species for an EIR/EIA, nor can it be used in place of USFWS Protocol Surveys.

If you have questions regarding this information, please feel free to contact me.

Pamela Town Consulting Wildlife Biologist

#### Attachments:

- 1: CA Fish & Wildlife Report #1 & Report #2 NSO Database (5 pages)
- 2: Topographical Map of NSOs within 1.3 Miles of Sodhani Winery Project (1 page)
- 3: Aerial Photo of Landscape Around Sodhani Winery Project (1 page)
- 4: Aerial Photo of Sodhani Winery Project Close Up of Trees to be Removed (1 page)
- 5: Photos of Trees to be Removed (5 pages)

#### References:

Protocol for Surveying Proposed Management Activities That May Impact Northern Spotted Owls. Endorsed by the U.S. Fish & Wildlife Service. February 2, 2011 and Revised January 9, 2012.

Important Information for Timber Operations Proposed within the Range of the Northern Spotted Owl. California Department of Forestry & Fire Protection. February 2008.

Northern Spotted Owl Viewer (BIOS CA Natural Diversity Database). Managed by California Department of Fish & Wildlife.

Sodhani Winery

Attachment #1 (5 pages)

Data Version Date: 01/04/2016

Report Generation Date: 1/12/2016

Report #1 - Spotted Owl Sites Found Known Spotted Owl sites having observations within the search area.



Meridian, Township, Range, Section (MTRS) searched:

M\_08N\_06W Sections(08,09,10,11,12,13,14,15,16,17,20,21,22,23,24,25,26,27,28,29);

NAPA County

	Masterowl	Subspecies	LatDD NAD83	LonDD NAD83	MTRS	AC Coordinate Source
	NAP0001	NORTHERN	38.539867	-122.546050	M 08N 06W 17	Contributor
NATIONAL PROPERTY.	NAP0005	NORTHERN	38.532391	-122.521177	M 08N 06W 22	Contributor
	NAP0033	NORTHERN	38.508038	-122.526177	M 08N 06W 33	Contributor

1,3 milEs Around Project:

NAPODI = 2.02 MilES to Project

NAP005 = 3,410 to Project

NAPØ33 = 2.04 Miles to Project

only owl within 1.3 Miles = NAPOX5

Data Version Date: 01/04/2016

Report Generation Date: 1/12/2016

### Report #2 - Observations Reported List of observations reported by site.



Meridian, Township, Range, Section (MTRS) searched:

M 08N 06W Sections(08,09,10,11,12,13,14,15,16,17,20,21,22,23,24,25,26,27,28,29);

NAPOD 5 = Found 1983 87,89,90-91,98 Active '00 & '02 - N/R

> AC point for NAPOSS based on 1989 pair W/young (Historic Nest 5ite)

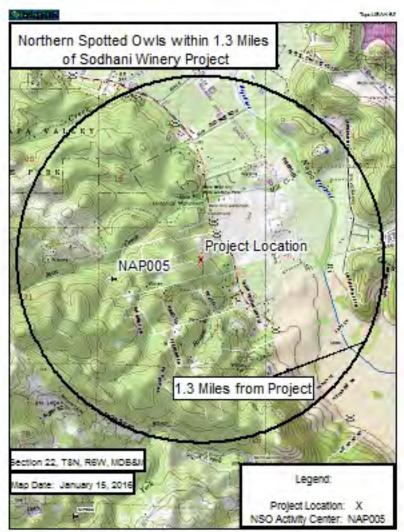
Pages relevant NAPOSS included. Pages

Туре	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2002-05-21	2034	1	UM				38.542015	-122.555067	M 08N 06W 17	Quarter-section centroid
POS	2002-05-25	2006	1	UM				38.545439	-122.550168	M 08N 06W 17	Section centroid
NEG	2002-05-30	2135	0					38.545439	-122.550168	M 08N 06W 17	Section centroid
POS	2002-06-12	2134	1	UF				38.545439	-122.550168	M 08N 06W 17	Section centroid
POS	2002-06-29	1922	1	UF		Υ	1	38.542015	-122.555067	M 08N 06W 17	Quarter-section centroid
NEG	2002-07-02	2131	0					38.542242	-122.582552	M 08N 07W 13	Quarter-section centroid
NEG	2003-02-07	1806	0				>	38.545439	-122.550168	M 08N 06W 17	Section centroid
POS	2003-05-04	1125	1	UM				38.542015	-122.555067	M 08N 06W 17	Quarter-section centroid
NEG	2003-05-08	1052	0					38.545439	-122.550168	M 08N 06W 17	Section centroid
POS	2003-05-26	2046	1	UU				38.542015	-122.555067	M 08N 06W 17	Quarter-section centroid
POS	2004-02-05	1501	1	υυ				38.542015	-122.555067	M 08N 06W 17	Quarter-section centroid
POS	2004-04-26	1138	2	UMUF	Υ	Υ		38.545439	-122.550168	M 08N 06W 17	Section centroid
NEG	2005-04-17	1419	0					38.545439	-122.550168	M 08N 06W 17	Section centroid
POS	2005-04-18	1543	1	UM				38.541700	-122.545854	M 08N 06W 17	Quarter-section centroid
POS	2010-03-21		2	UMUF	Υ			38.543540	-122.536938	M 08N 06W 16	Contributor
AC	2012-05-28	1638	2	UMUF	Υ	Υ		38.539867	-122.546050	M 08N 06W 17	Contributor
Masterov	wl: NAP0005 Sub	ospecies: No	ORTHERN								

_	5.4							Latitude DD	Longitude DD		Coordinate
Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	NAD83	NAD83	MTRS	Source
POS	1983-12-27		1	UU				38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
POS	1987		2	UMUF	Υ			38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
POS	1987		2	UMUF	Y			38.534410	-122.532293	M 08N 06W 21	Half-section centroid
AC	1989-07-30	0630	2	UMUF	Y		1	38.532391	-122.521177	M 08N 06W 22	Contributor
POS	1989-07-30		2	UMUF	Υ		1	38.534418	-122.527692	M 08N 06W 21	Quarter-section centroid
POS	1990-04-29	1640	1	UM		1		38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
POS	1991-01-01	0343	1	UM	AC	Point	is .	38.532391	-122.521177	M 08N 06W 22	Contributor
POS	1991-04-11	1629	1	UM	on	MAH		38.530855	-122.513729	M 08N 06W 22	Section centroid
POS	1991-05-05	2045	1	UM				38.532391	-122.521177	M 08N 06W 22	Contributor
POS	1991-09-29	2028	1	UM				38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
NEG	1992		0					38.530855	-122.513729	M 08N 06W 22	Section centroid
NEG	1992-03-01	1757	0					38.530855	-122.513729	M 08N 06W 22	Section centroid
NEG	1993-04-03	2031	0					38.534418	-122.527692	M 08N 06W 21	Quarter-section centroid
NEG	1996-10-13	1935	0			his det	ection	38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
POS	1998	0215	2	UMUF	Y 77	this det 5 2,000 From AC F	UT	38.534418	-122.527692	M 08N 06W 21	Quarter-section centroid
NEG	2000-04-03	2228	0	house		ACF	<i>&gt;</i> t.	38.530904	-122.532304	M 08N 06W 21	Section centroid
NEG	2000-05-16	2001	0	1	urther !	rom Pro	rest	38.534418	-122.527692	M 08N 06W 21	Quarter-section centroid

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Туре	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2000-06-29	1925	0					38.530904	-122.532304	M 08N 06W 21	Section centroid
NEG	2002-02-08	2400	0					38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
NEG	2002-02-08	2400	0					38.534418	-122.527692	M 08N 06W 21	Quarter-section centroid
NEG	2002-03-12	2400	0					38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
NEG	2002-06-10	2400	0					38.534418	-122.527692	M 08N 06W 21	Quarter-section centroid
NEG	2002-06-10	2400	0					38.534425	-122.518352	M 08N 06W 22	Quarter-section centroid
Masterowl: NAP0033 Subspecies: NORTHERN											
POS	1995-06-26	2129	2	UMUF	Υ			38.513105	-122.518884	M 08N 06W 27	Quarter-section centroid
POS	1995-07-12	2045	1	UM				38.513105	-122.518884	M 08N 06W- 27	Quarter-section centroid
POS	1997-03-18	1900	1	UM				38.513105	-122.518884	M 08N 06W 27	Quarter-section centroid
POS	1997-03-31	1832	1	UM				38.513105	-122.518884	M 08N 06W 27	Quarter-section centroid
POS	1997-04-19	1510	2	UMUF	Y	N		38.515786	-122.515552	M 08N 06W 27	Contributor
POS	1999-03-28	1905	1	UM				38.513105	-122.518884	M 08N 06W 27	Quarter-section centroid
POS	2000-06-29	2206	1	UM				38.516446	-122.514033	M 08N 06W 27	Section centroid
NEG	2001-01-01	0225- 0240	0					38.513105	-122.518884	M 08N 06W 27	Quarter-section centroid
NEG	2001-02-08	2059	0					38.516446	-122.514033	M 08N 06W 27	Section centroid
NEG	2001-02-16	1716	0					38.516446	-122.514033	M 08N 06W 27	Section centroid



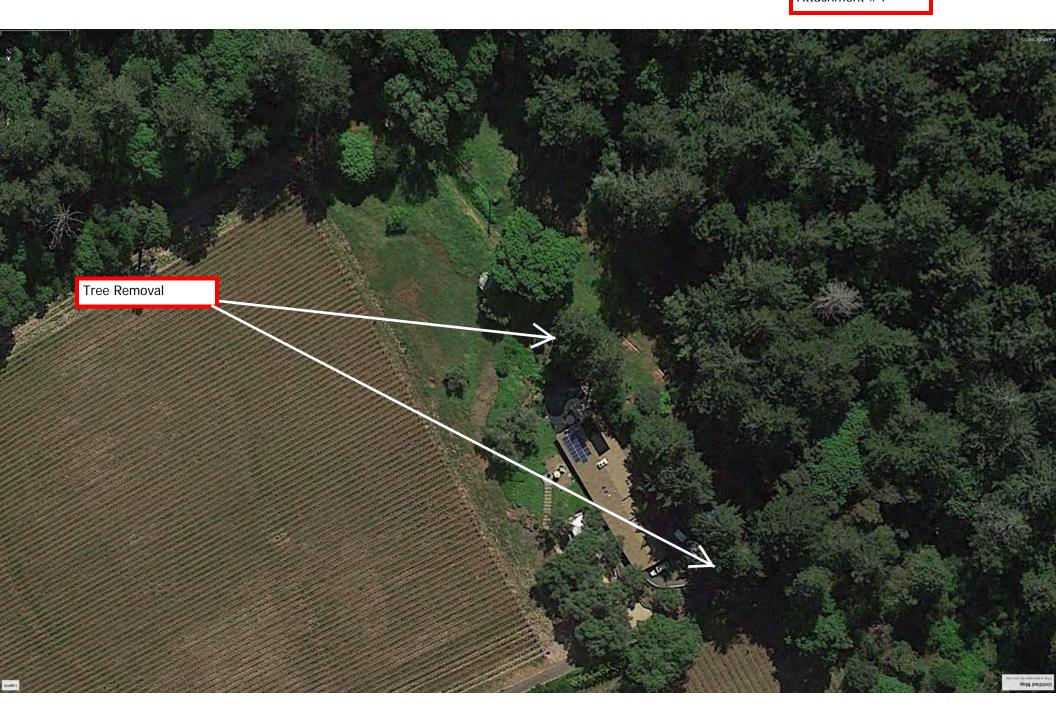
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West of the House. Tree 4, 5, and 6, slatted for removal with the winery permit. They also need to be removed for safety reasons, heavy limbs and a slight lean toward the house.



Tree number 1, 2 and 3, behind house, need to be removed for safety reasons.



Tree 1, 2, 3, 4 and 5, note heavy limbs on the right, toward the house.

Tree 5 and 6, note limbs heavy on the down hill side toward the house.





Panoramic view of trees 1, 2, 3, 4, 5, and 6 behind the house.



Tree 1, 2 and 3 are to the right of the photo, tree 4, 5, and 6 are in the middle of the photo, note the lean toward the house and the heavy limbs on the down hill side.



South of the house, tree 7 and 8, note the lean and the heavy limbs on the down hill side.



Looking toward the house, the 8 fir trees are behind the hardwood in the foreground.



Olive tree south of the house, to be removed for the winery. The hardwood is to the right of the photo.