

SECTION I
State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
Division of Off-Highway Motor Vehicle Recreation
(OHV FORM A)

APPLICATION FOR STATE OFF-HIGHWAY VEHICLE (OHV)
LOCAL ASSISTANCE GRANTS OR COOPERATIVE AGREEMENTS
(State's Use Only) PROJECT NUMBER: OR - _____

1. Applicant:

U.S. Fish and Wildlife Service, Humboldt Bay National Wildlife Refuge, Lanphere Dunes Unit

Address:

6800 Lanphere Rd.

2. City:

Arcata

3. County:

Humboldt

State:

CA

Zip:

95521

4. GRANT OR PROJECT AGREEMENT TYPE(S): (Select one or more)

Acquisition		Law Enforcement	<input checked="" type="checkbox"/>	Restoration
Development		OHV Safety or Education		Studies and Scientific Research
Equipment		Planning		Trail Maintenance, Trail Conservation, and Trail Reroute
Facilities Operation and Maintenance (FO&M)		Resource Management		

**GRAND TOTAL AMOUNT
REQUESTED**
(For all Project Types)
\$ 213,000
(Rounded to the nearest \$1,000)

5. APPLICANT'S AUTHORIZED REPRESENTATIVE AND CONTACT PERSON (S):

Authorized Representative: Eric Nelson	Project Administrator: Patricia Clifford
Title: Project Leader	Title: Natural Resources Specialist
Telephone: 707-733-5406	Telephone: 707-822-6378
Fax: 707-733-1946	Fax: 707-822-6406
E-mail: Eric_T_Nelson@fws.gov	E-mail: Patricia_Clifford@fws.gov

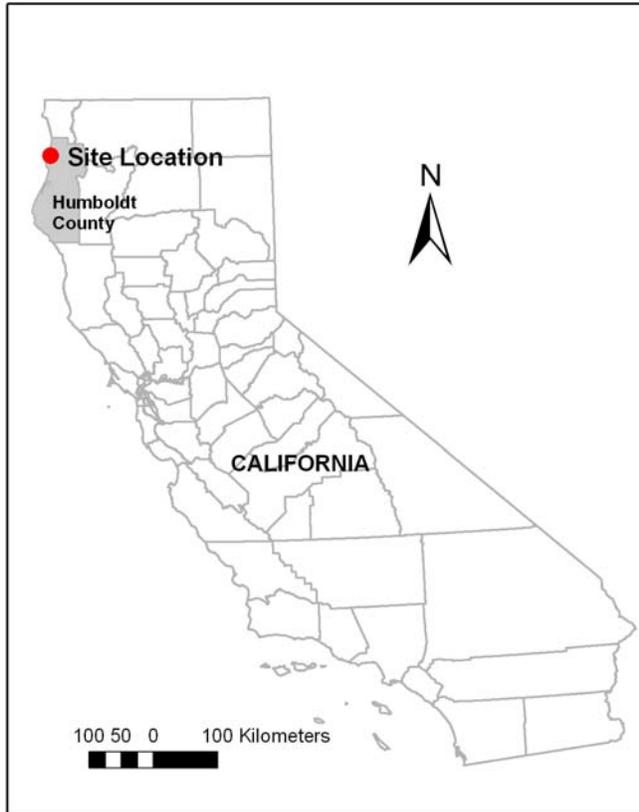
6. AUTHORIZING SIGNATURE

Under penalty of perjury, I certify that all statements made in this application are complete and accurate to the best of my knowledge. I am the authorized to obligate the applicant to the contractual terms of this application. I authorize representatives of the Off-Highway Motor Vehicle Recreation Division to verify the accuracy of the information contained in this application as needed.

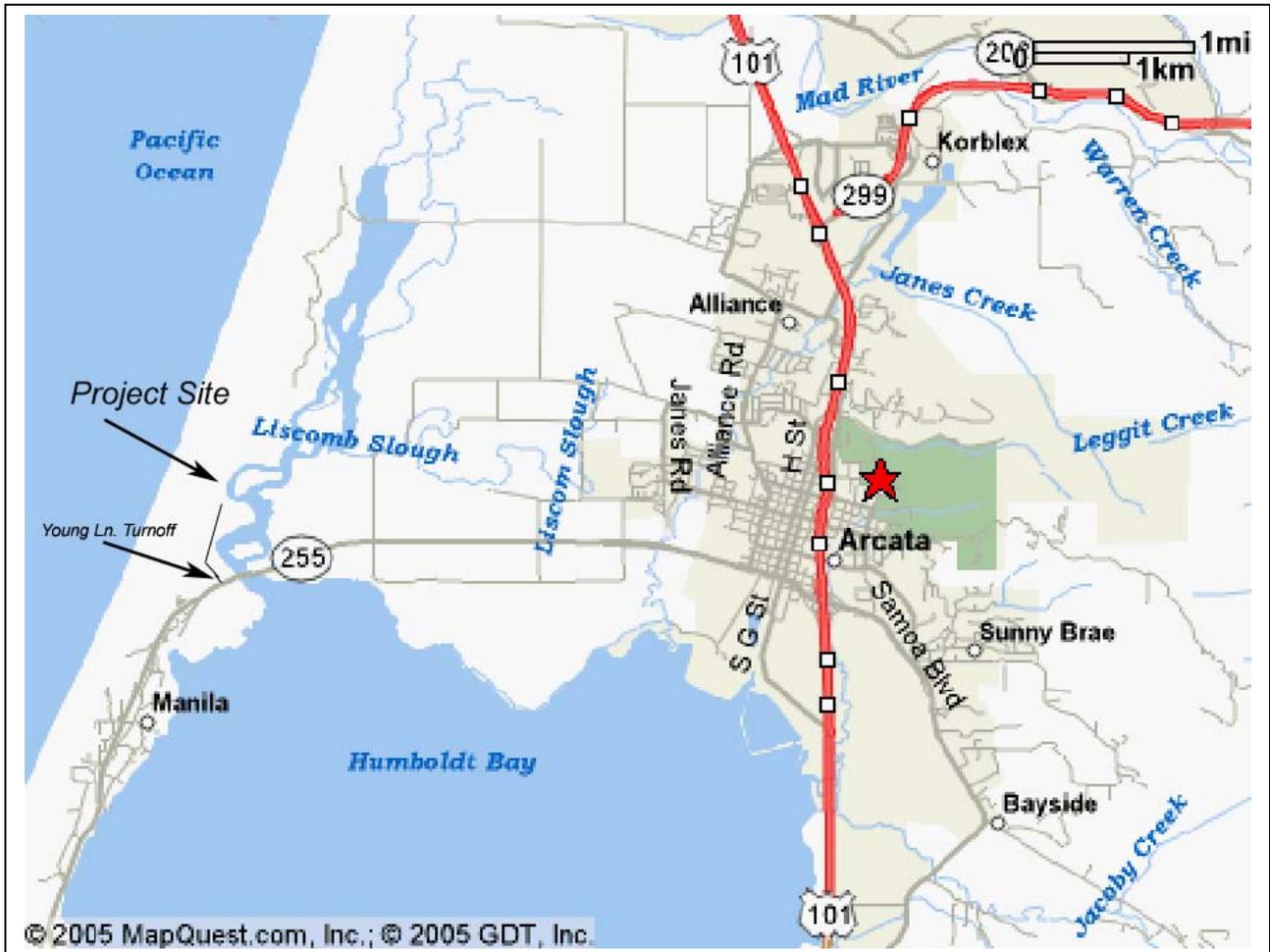
X
SIGNED

DATE

GENERAL VICINITY MAP



From Highway 255, go west on Young Ln, turn right at "T" and proceed to very end of dirt road.



APPLICATION SUMMARY SHEET
OHV Local Assistance Grants or Cooperative Agreements
(OHV FORM H)
LIST ALL PROJECTS SUBMITTED IN PRIORITY ORDER

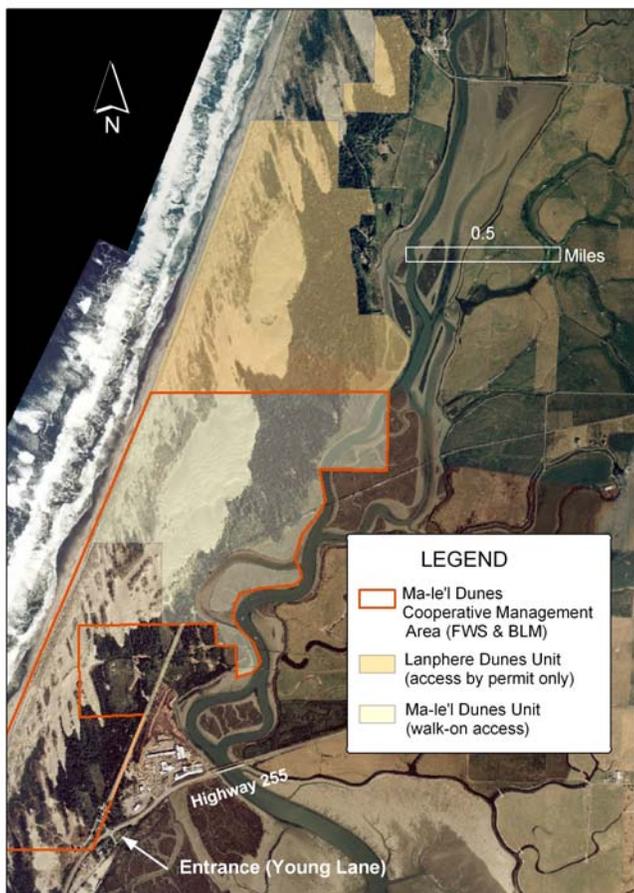
Applicant:

FUNDING CATEGORIES					
(A) PROJECT TITLE	CESA			(E) NON-CESA	(F) TOTAL
	(B) CONSERVATION	(C) ENFORCEMENT	(D) RESTORATION		
USFWS, HBNWR Ma-le'i Dunes Restoration			\$200,946		200,946
TOTAL					200,946
(G) Administration (maximum 10%)					12,057
Subtotal					213,003
APPLICATION SUMMARY SHEET TOTAL ROUNDED TO NEAREST \$1,000 (This amount must match the Grand Total amount requested on the application face sheet)					213,000
((ROUND TO NEAREST \$1,000); (e.g., \$1-\$499 round (down ↓); \$500-\$999 round (up ↑))]					
*Applicants may request administrative costs, not to exceed 10% of the total project(s) requested. The total amount of administrative costs requested shall be identified on (G) above.					

1. GENERAL PROJECT DESCRIPTION

The Ma-le'l Dunes consist of 160 acres of coastal dunes located on the upper North Spit of Humboldt Bay adjacent to the Lanphere Dunes Unit of Humboldt Bay National Wildlife Refuge. The site was used as a private OHV club during the 1990s, prior to that time casual OHV use was allowed by the owner. Disturbances caused by OHVs have damaged native vegetation, including habitat for two federally listed endangered species. Invasive non-native vegetation has also spread throughout the site. The Ma-le'l Dunes will be added as a new unit to Humboldt Bay National Wildlife Refuge in Summer 2005, after which it will be managed as a part of the proposed Ma-le'l Dunes Cooperative Management Area (CMA) for uses including public access. The CMA will include both the Ma-le'l Dunes and the adjoining Bureau of Land Management Manila Dunes ACEC. Beginning in 2005 the USFWS will be receiving funding from the California Department of Corrections to carry out some, but not all needed restoration on the Ma-le'l Dunes. The proposed project will fund the removal of all remaining invasive plants (particularly European beachgrass (*Ammophila arenaria*) from the Ma-le'l Dunes Unit, revegetating with natives as needed. A combination of mechanical and manual methods will be used. Heavy equipment will be used in accessible areas away from existing native vegetation. Equipment will be used to excavate beachgrass and bury it. Some manual removal of resprouts will be needed in the year following treatment. In inaccessible areas, manual removal using digging of beachgrass plants and rhizomes at repeated intervals over two years will be used. Both of these methods have been successfully used at the adjacent Lanphere Dunes Unit. Restoration will also include rehabilitating the many casual OHV trails that lace through the forest, by blocking, signing, and revegetating trails with native forest species.

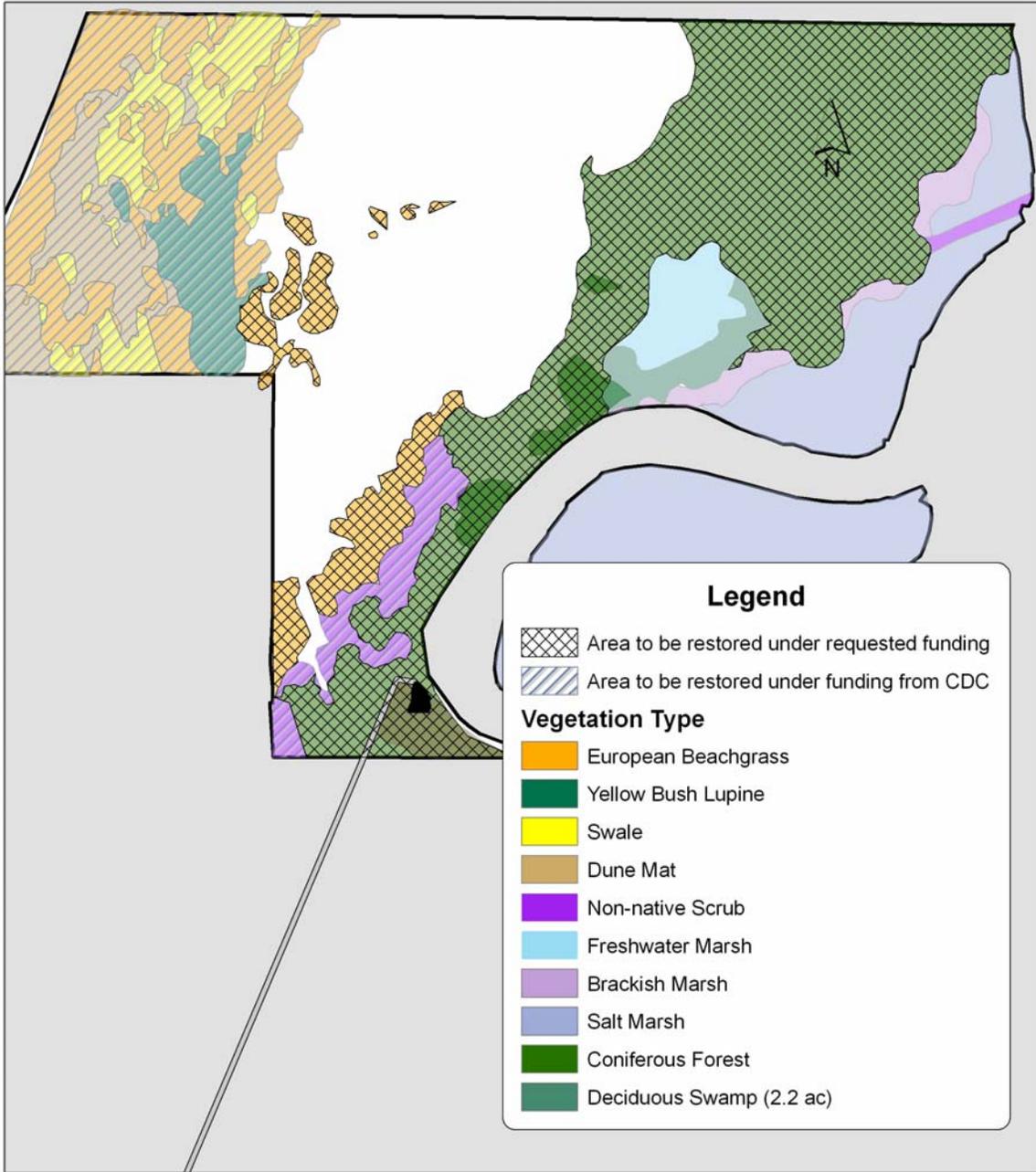
2. PROJECT LOCATION



The map to the left shows the location of the Ma-le'l Dunes Unit (shaded in tan) in relation to the USFWS Lanphere Dunes Unit to the north (shaded in orange), and the BLM's Manila Dunes ACEC to the south. Both are located on the upper end of the North Spit of Humboldt Bay. The Ma-le'l Dunes Unit will be managed for public access cooperatively with the BLM as part of the proposed Ma-le'l Dunes Unit Cooperative Management Area (outlined in red). The map below shows driving directions.



Proposed Restoration at Ma-le'i Dunes



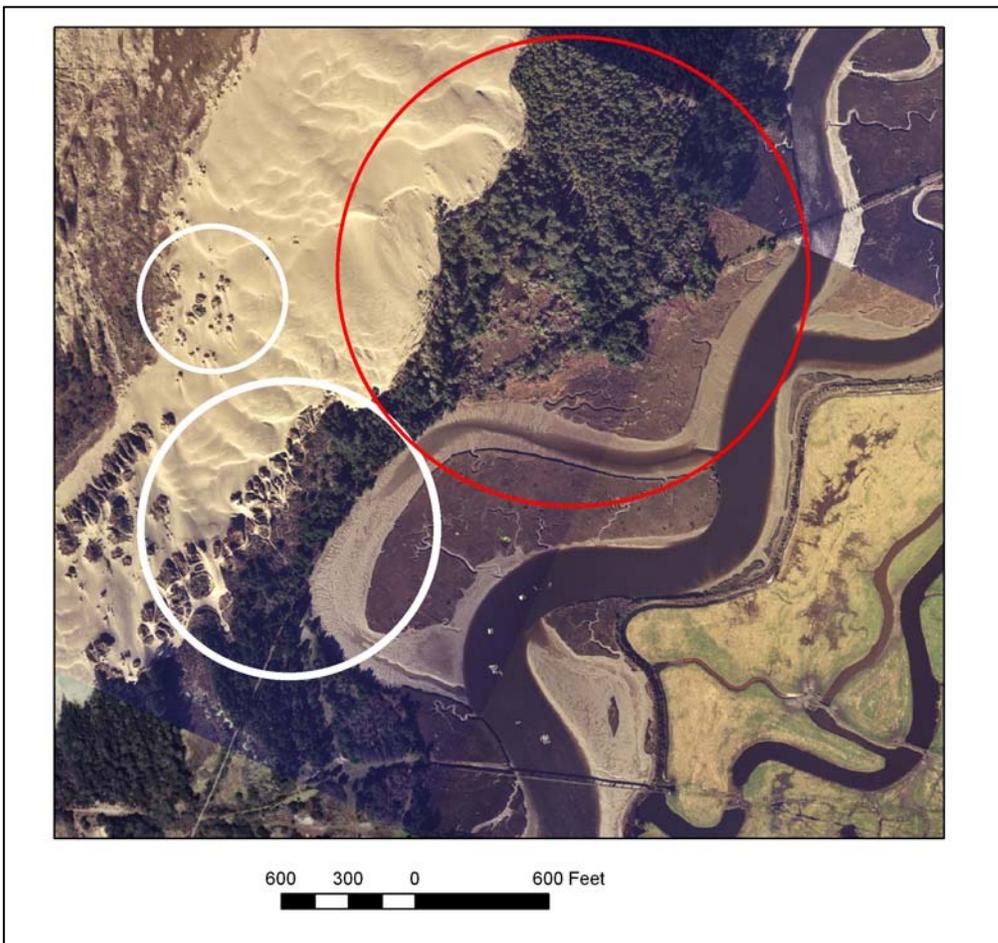
0 37.5 75 150 225 300 Meters

Compiled by A. Pickart, USFWS, August 2004. Data sources: CNLM Vegetation Mapping 2003, USFWS Vegetation Mapping 2004, Base Photo USFWS 2000.

The above map shows the area to be restored under the requested funding, as well as the area for which restoration funding has already been received.



European beachgrass (foreground) to be restored to native dune mat at Ma-le'i Dunes.



Primary areas of restoration circled in white (European beachgrass) and red (rehabilitation of old OHV trails).

TIMELINE
Year 2

	2007											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Invasive Vegetation Removal												
Ammophila establish new plots												
Manual Ammophila removal												
Mechanical Ammophila removal												
Monitor Ammophila removal												
Degraded Forest Restoration												
Forest sampling to characterize												
Forest species seed collection												
Forest propagules collection												
Rehab trails/degraded forest												
Plant degraded forest												
Radiant heat to treat weeds												
Monitor forest reveg areas												

5. Needs Description

The proposed project demonstrates efficient use of funds because it matches existing funding from the California Department of Corrections, and allows us to completely restore the site (CDC funds were inadequate for complete restoration). As such, the project will be able to make use of a certain amount of the existing administrative and equipment infrastructure. Without the additional funds being sought from OHV, the areas of the site that will not receive invasive species removal will continue to be degraded and invasive vegetation will continue to increase. This will cause the project to become more expensive in the future, and will also jeopardize the success of the CDC-funded research by continuing to provide invasive seeds and other propagules to the restored area. Without the OHV funded restoration, native plant and animal communities will continue to be fragmented. This project will complete restoration of the largest and most pristine dune system in northern California and the Pacific Northwest. It will contribute to the recovery of two federally listed endangered plants, the Humboldt Bay wallflower and beach layia, as well as several other special status plants. The project combines the most efficient methods of invasive removal that have been tested throughout the site. This will include the use of radiant heat to treat weeds that are in areas of disturbed forest. This is an innovative technique that we have pioneered for this application in the past year. Volunteers will be an important part of the project. With our NGO partner group Friends of the Dunes, we will recruit and use volunteer labor on all appropriate portions of the project (particularly manual beach grass removal and revegetation). This will increase the outreach value of the project, and contribute to the strong community-based restoration community in our area.

6. PROJECT COSTS/DELIVERABLES (PC/D) page 1 of 1
(OHV FORM I)

APPLICANT: U.S. Fish and Wildlife Service, Humboldt Bay National Wildlife Refuge		GEOGRAPHIC AREA: Ma-le'I Dunes				
Application Title: USFWS Humboldt Bay NWR Ma-le'I Dunes Restoration						
General Funding Category C E (R) N (Mark one) (see below)	Qty**	Unit	Unit Cost	Subtotal	Match*	Grant
Activities: Removal of invasive species, revegetation with natives, monitoring, volunteer management						
Staff:						
Natural Resources Specialist (GS 9)	2	Yrs @ .5 FTE	30,500 \$	61,000\$	\$	61,000\$
			\$	\$	\$	\$
Total				61,000		61,000
Contracts:						
CCC-invasives removal	8,400	hrs	12.50\$	105,000\$	\$	105,000\$
Heavy equipment & operator	168	hrs	197\$	33,096\$	\$	33,096\$
Portable Toilets			\$	\$	\$	\$
Total				138,096		138,096
Materials/Supplies:						
Tools (shovels, rakes, etc)	10	tools	50\$	500\$	\$	500\$
Air photos	1	photo	250\$	250\$	\$	250\$
Signage	10	sings	500\$	500\$	\$	500\$
Total				1,250		1,250
Vehicle Maintenance/FOR:						
			\$	\$	\$	\$
Total						
Equipment:						
Radiant heaters	2	heaters	300\$	600\$	\$	600\$
			\$	\$	\$	\$
			\$	\$	\$	\$
Total						600
Other:						
			\$	\$	\$	\$
			\$	\$	\$	\$
Total						
(DO NOT ROUND) Form Total				\$	\$	200,946\$
Funding Categories		* If an agency requesting a cooperative agreement wants to voluntarily report agency contributions, change the title from "Match" to " Agency Contributions"				
C = Conservation						
E = Enforcement						
R = Restoration						
N = (non-CESA)						