

Hawaiian Hoary Bat

Thermal IR and Acoustic Monitoring Project for Tree Trimming and Removal of Trees at Bldg. 1170, MARS Station on 05 June 2017

Survey Goals

Establish whether or not Hawaiian Hoary bats (*Lasiurus cinereus semotus*) are roosting with pups in one dying Eucalyptus tree (*Eucalyptus* spp.) and stump (DBH 60 in.) located left side of dirt road at garden club entrance (Figure 1). Remove five albizia trees (*Falcataria moluccana*) in brush outside of MARS security fence that are overhanging into compound. Spot prune 1 limb (18 inch diameter) from one albizia tree reaching over compound. If bats present, discuss with regulatory agency possible mitigation measures to continue project or postpone removal of trees until pupping season is completed.

Survey

Bldg. 1170, MARS STATION, Beaver Road, Schofield Barracks
Tree Location Map



Remove trees at MARS Station (Bldg. 1170) and Green Thumb Garden on Beaver Rd., Area X, Schofield Barracks. Remove dying Euc tree and stump (DBH 60 in.) located left side of dirt road at garden club entrance. Remove 5 albizia trees in brush outside of MARS security fence that are overhanging into compound with no stump removal required. Spot prune 1 limb (18 inch diameter) from one albizia tree reaching over compound.

- CLIN 01 Pruning: Item #8 @ 1 unit.
- CLIN 02 Tree Removals: Item #21 @ 1 unit, Item #22 @ 2 units; Item #23 @ 1 unit; Item #24 @ 1 unit and Item #27 @ 1 unit.
- CLIN #03 Stump Removals: Item 32 @ 1 unit.

LEGEND

Spot prune limb ○

Remove tree and stump ▲

Remove stump □

Note: tree DBH (inches) indicated within symbol

Figure 1. Map of project site with tree locations

Methods

Visual and acoustic surveys for bats were conducted on 05 June 2017, the day of the scheduled tree trimming. A Fluke Ti400 thermal imager was employed to scan the trees for any roosting bats to confirm no presence. OANRP also employed the hand held Wildlife Acoustics Echo Meter Touch attached to an iPad as a way to scan the area for any possible bats returning to a roost within close proximity. This tool has the ability to listen to bats in real time, GPS tracks and tags all recordings with location information and has full color spectrograms. Scanning commenced from 05:15-06:30 from the ground from different angles and locations.

Results and Discussion

The visual, thermal IR, and acoustic surveys detected no bats at all. Multiple species of birds were observed with the thermal IR, with visual confirmation, in and around the area. It was determined that there would be No Effect to bats if the trees were removed and the corridor cleared.

Recommendations

Work with DPW to better monitor the contractors work so that trees that need trimming are not missed prior to the pupping season.