

unoccupied. This unit is essential to the conservation of the species because it supports habitat that is necessary for the establishment of additional populations on Oahu in order to reach recovery goals. The habitat features contained in this unit that are essential for this species include, but are not limited to, mesic and wet *Metrosideros polymorpha* forest and *Metrosideros polymorpha-Acacia koa* forest. This unit is geographically separated from critical habitat designated elsewhere on Oahu and on Kauai, Maui, and the Northwestern Hawaiian Islands for this species in order to avoid all recovery populations being destroyed by one naturally-occurring catastrophic event.

Oahu 4—*Mariscus pennatiformis*—b

This unit is critical habitat for *Mariscus pennatiformis* and is 171 ha (421 ac) on State (Mokuleia Forest Reserve) land. This unit contains no named natural features. This unit provides habitat for 2 populations of 300 mature, reproducing individuals of the short-lived perennial *Mariscus pennatiformis* and is currently unoccupied. This unit is essential to the conservation of the species because it supports habitat that is necessary for the establishment of additional populations on Oahu in order to reach recovery goals. The habitat features contained in this unit that are essential for this species include, but are not limited to, mesic and wet *Metrosideros polymorpha* forest and *Metrosideros polymorpha-Acacia koa* forest. This unit is geographically separated from critical habitat designated elsewhere on Oahu and on Kauai, Maui, and the Northwestern Hawaiian Islands for this species in order to avoid all recovery populations being destroyed by one naturally-occurring catastrophic event.

Oahu 13—*Marsilea villosa*—a

This unit is critical habitat for *Marsilea villosa* and is 10 ha (25 ac) on Federal (Lualualei Naval Reservation) land. This unit contains no named natural features. This unit provides habitat for one population of an unknown number of mature, reproducing individuals of the annual *Marsilea villosa* and is currently occupied by 50 individuals. This unit is essential to the conservation of the species because it supports an extant colony of this species and includes habitat that is necessary for the expansion of the present population, which is currently considered nonviable. It provides habitat for the westernmost range of the species. The habitat features contained in this unit that are essential for this species

include, but are not limited to, seasonal wetlands in cinder craters, vernal pools surrounded by lowland dry forest vegetation, mud flats, and lowland grasslands. This unit is geographically separated from critical habitat designated elsewhere on Oahu for this species in order to avoid all recovery populations being destroyed by one naturally-occurring catastrophic event.

Oahu 14—*Marsilea villosa*—b

This unit is critical habitat for *Marsilea villosa* and is 7 ha (18 ac) on State (Lualualei Naval Reservation) land. This unit contains no named natural features. This unit provides habitat for one population of an unknown number of mature, reproducing individuals of the annual *Marsilea villosa* and is currently occupied by one individual. This unit is essential to the conservation of the species because it supports an extant colony of this species and includes habitat that is necessary for the expansion of the present population, which is currently considered nonviable. It provides habitat for the westernmost range of the species. The habitat features contained in this unit that are essential for this species include, but are not limited to, seasonal wetlands in cinder craters, vernal pools surrounded by lowland dry forest vegetation, mud flats, and lowland grasslands. This unit is geographically separated from critical habitat designated elsewhere on Oahu for this species in order to avoid all recovery populations being destroyed by one naturally-occurring catastrophic event.

Oahu 28—*Marsilea villosa*—c

This unit is critical habitat for *Marsilea villosa* and is 7 ha (18 ac) on State land, containing a portion of the flanks of Koko Head Crater. This unit, in combination with unit Oahu 29—*Marsilea villosa*—d, provides habitat for one population of an unknown number of mature, reproducing individuals of the annual *Marsilea villosa* and is currently occupied by 10 individuals. This unit is essential to the conservation of the species because it supports an extant colony of this species and includes habitat that is necessary for the expansion of the present population, which is currently considered nonviable. The habitat features contained in this unit that are essential for this species include, but are not limited to, seasonal wetlands in cinder craters, vernal pools surrounded by lowland dry forest vegetation, mud flats, and lowland grasslands. This unit is geographically separated from critical habitat designated elsewhere on Oahu

for this species in order to avoid all recovery populations being destroyed by one naturally-occurring catastrophic event.

Oahu 29—*Marsilea villosa*—d

This unit is critical habitat for *Marsilea villosa* and is 5 ha (11 ac) on State land, containing a portion of the flanks of Koko Head Crater. This unit, in combination with unit Oahu 28—*Marsilea villosa*—c, provides habitat for one population of an unknown number of mature, reproducing individuals of the annual *Marsilea villosa* and is currently unoccupied. This unit is essential to the conservation of the species because it supports habitat that is necessary for the establishment of additional populations on Oahu in order to reach recovery goals. The habitat features contained in this unit that are essential for this species include, but are not limited to, seasonal wetlands in cinder craters, vernal pools surrounded by lowland dry forest vegetation, mud flats, and lowland grasslands. This unit is geographically separated from critical habitat designated elsewhere on Oahu for this species in order to avoid all recovery populations being destroyed by one naturally-occurring catastrophic event.

Oahu 36—*Marsilea villosa*—e

This unit is critical habitat for *Marsilea villosa* and is 6 ha (14 ac) on State (Diamond Head State Park) land. This unit contains no named natural features. This unit provides habitat for one population of an unknown number of mature, reproducing individuals of the annual *Marsilea villosa* and is currently unoccupied. This unit is essential to the conservation of the species because it supports habitat that is necessary for the establishment of additional populations on Oahu in order to reach recovery goals. The habitat features contained in this unit that are essential for this species include, but are not limited to, seasonal wetlands in cinder craters, vernal pools surrounded by lowland dry forest vegetation, mud flats, and lowland grasslands. This unit is geographically separated from critical habitat designated elsewhere on Oahu for this species in order to avoid all recovery populations being destroyed by one naturally-occurring catastrophic event.

Oahu 20—*Melicope lydgatei*—a

This unit is critical habitat for *Melicope lydgatei* and is 3,499 ha (8,645 ac) on private and State (Ewa Forest Reserve and Keaiwa Heiau State Park) land, containing a portion of Puu Uau, and Aiea, Kipapa, and Waimano Trails.