

Level 4 Potential Conservation Area (PCA) Report

Name Haviland Lake

Site Code S.USCOHP*24650

IDENTIFIERS

Site ID 2076 Site Class PCA
Site Alias None

Network of Conservation Areas (NCA)

<u>NCA Site ID</u>	<u>NCA Site Code</u>	<u>NCA Site Name</u>
-		No Data

LOCATORS

Nation United States Latitude 373314N
State Colorado Longitude 1074908W

Quad Code Quad Name
37107-E7 Electra Lake

County
La Plata (CO)

Watershed Code Watershed Name
14080104 Animas

SITE DESCRIPTION

Minimum Elevation	8,200.00 Feet	2,499.36 Meters
Maximum Elevation	8,400.00 Feet	2,560.32 Meters

Site Description

The Haviland Lake site is located to the west of the Hermosa Cliffs and Highway 550. Electra Lake is located to the east. Haviland Lake is an alkaline wetland that dries out by mid-summer. The hydrology of the area is supported by groundwater discharge and several unnamed drainages that flow from the adjacent Hermosa Cliffs. The dominant plant community, bog birch/mesic forb-mesic graminoid (*Betula glandulosa*/mesic forb-mesic graminoid), is a low stature, open shrubland. It occurs intermixed with several willow species (*Salix drummondiana*, *Salix monticola*, and *Salix serrisima*), shrubby cinquefoil (*Dasiphora floribunda*) and sedge (*Carex* spp.) meadows forming a complex wetland mosaic. The mesic graminoids and forbs include: bluejoint reedgrass (*Calamagrostis canadensis*), water sedge (*Carex aquatilis*), beaked sedge (*Carex utriculata*), golden sedge (*Carex aurea*), Baltic rush (*Juncus balticus*), arrowgrass (*Triglochin maritima*), blue-eyed grass (*Sisyrinchium altissium*), tufted hairgrass (*Deschampsia cespitosa*), spikerush (*Eleocharis palustris*), alpine meadowrue (*Thalictrum alpinum*), mint (*Mentha arvensis*), western yarrow (*Achillea millefolium*), bog orchid (*Limnorchis hyperborea*), and strawberry (*Fragaria virginiana*). There are several areas of ponded water with common aquatic plants e.g., maretail (*Hippuris vulgaris*). The pond banks support a variety of sedges (*Carex lanuginosa*, *C. aquatilis*, and *C. utriculata*). The soils are saturated mucky peat with oxidized areas in the upper soil profile, indicating a dry period during the growing season. The uplands are dominated by blue spruce (*Picea pungens*), white bark fir (*Abies concolor*), and ponderosa pine (*Pinus ponderosa*).

Key Environmental Factors

No Data

Climate Description

No Data

Land Use History

No Data

Cultural Features

No Data

SITE DESIGN

Site Map Y - Yes Mapped Date 12/02/2003
Designer Lyon, M.J.

Boundary Justification

The boundaries incorporate an area that will allow for the natural hydrological processes from surrounding drainages. The boundaries encompass the occurrences with a narrow buffer due to the physical constraints from the Hermosa Cliffs, Highway 550, and Electra Lake. It should be noted that the hydrological processes necessary to the element are not fully contained by the site boundaries.

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Primary Area 391.30 Acres

158.35 Hectares

SITE SIGNIFICANCE

Biodiversity Significance Rank B3: High Biodiversity Significance

Biodiversity Significance Comments

This site drawn for a good (B-ranked) example of the globally vulnerable (G3G4/S3) *Betula glandulosa*/mesic forb-mesic graminoid, subalpine riparian shrubland. This plant community is only documented from Colorado and is found throughout the high mountain ranges of Colorado, although typically occurring only in small stands. Most stands of this association occur in subalpine meadows and willow communities. It grows in areas where soils are saturated from snowmelt runoff for a significant part of the growing season, often on fens or bogs, where the vegetation receives water from seeps and springs (Carsey et al. 2003). This site also supports an excellent (A-ranked) example of a globally secure but state rare (G5/S1) plant *Carex viridula*, little green sedge, and a good (B-ranked) example of a globally secure but state rare (G5/S2) *Carex scirpoidea*, bulrush sedge.

Other Values Rank No Data

Other Values Comments

No Data

LAND MANAGEMENT ISSUES

Land Use Comments

No Data

Natural Hazard Comments

No Data

Exotics Comments

No Data

Offsite

No Data

Information Needs

No Data

ASSOCIATED ELEMENTS OF BIODIVERSITY

<u>Element</u>			<u>Global Rank</u>	<u>State Rank</u>	<u>Driving Site Rank</u>
<u>State ID</u>	<u>State Scientific Name</u>	<u>State Common Name</u>			
21103	<i>Carex viridula</i>	green sedge	G5	S1	No
24497	<i>Betula nana</i> / Mesic Forbs - Mesic Graminoids Shrubland	Subalpine Riparian Shrubland	G3G4	S3	Yes

REFERENCES

<u>Reference ID</u>	<u>Full Citation</u>
159854	Carsey, K., G. Kittel, K. Decker, D. Cooper, and D. Culver. 2003. Field guide to the wetland and riparian plant associations of Colorado. Prepared for the Colorado Department of Natural Resources, Denver, CO by the Colorado Natural Heritage Program, Fort Collins, CO.
184581	Lyon, P. 2003. Colorado Natural Heritage Program La Plata County Biological Assessment.
184533	March, M. and D. Culver. 2003. Colorado Natural Heritage Program Field Survey for La Plata County Wetlands.

ADDITIONAL TOPICS

Additional Topics

No Data

VERSION

Version Date 01/27/2004

Version Author Lyon, M.J.

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