

# Level 4 Potential Conservation Area (PCA) Report

Name Glade Lake

Site Code S.USCOHP\*25292

## IDENTIFIERS

Site ID 2177 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 374628N  
State Colorado Longitude 1083925W

Quad Code Quad Name  
37108-G6 The Glade

County  
Dolores (CO)

Watershed Code Watershed Name  
14030002 Upper Dolores

## SITE DESCRIPTION

Minimum Elevation - Feet - Meters  
Maximum Elevation - Feet - Meters

### Site Description

Glade Lake Site is on a high, broad mountain plateau just south of The Glade in the San Juan National Forest. The Glade is an uplifted ridge of non-forested Mancos shale that extends in an east - west aspect. The Glade Lake area is currently fenced for the purpose to rest the area from grazing impacts. Glade Lake is a spring-fed depression with rings or zones of vegetation due to moisture levels and water fluctuation. The outermost zone is occupied by hay grasses (e.g., *Bromus inermis*, *Phleum pratense*), clustered field sedge (*Carex praegracilis*), slender beaked sedge (*Carex athrostachya*), foxtail barely (*Hordeum jubatum*), hornhead (*Ceratocephala orthoceras*), alpine spring beauty (*Claytonia megarhiza*), wild iris (*Iris missouriensis*), scotch thistle (*Onopordum acanthium*) and various upland species. The next ring or draw-down zone is dominated by common spikerush (*Eleocharis palustris*), on the southeast side of the lake and a solid band of sedges on the north and west side of the lake. The stand of sedges is made up of two dominant species, awned sedge (*Carex atherodes*) and wooly sedge (*Carex lanuginosa*). Each sedge forms a solid swath or ring-shaped patch, the individual species not mixing, but in mosaic, along the outer edge of the open water. The open water contains aquatic species in the shallow parts and has at least two patches of cattail (*Typha latifolia*) in the deeper water. Aquatic species occupy the shallow water or mud and include water smartweed (*Persicaria amphibia*), water plantain (*Alisma triviale*), burreed (*Sparganium emersum*), great bladderwort (*Utricularia macrorhiza*), marsh trefoil (*Menyanthes trifoliata*) and others. Also occupying shallow water is weak mannagrass (*Torreyochloa pauciflora*) in mosaic with common spikerush and patches of spikerush (*Eleocharis acicularis*) on muddy sites. Waterfowl were noted at the time of the survey including multiple locations of American coot nests, as well as mallard nests. The immediately surrounding uplands are dominated by silver sagebrush, *Artemisia cana*, the slightly higher areas are forested with ponderosa pine (*Pinus ponderosa*), pinyon pine (*Pinus edulis*), Utah juniper (*Juniperus osteosperma*) and Rocky Mountain juniper (*Juniperus scopulorum*) (except for The Glade). Soils in the draw-down zone are periodically saturated, with a shallow horizon of mucky peat (hemic), over silty clay with dark chroma or oxidized root channels with gleyed clay underneath for at least 40 cm. There is an historic land mound or berm, northwest of the lake, presumably utilized as a road access or drainage diversion. The berm appears to have no affect on current hydrology within Glade Lake, however, the current size of the lake's depression may have resulted from enhancing the wetland initially. Cattle grazing dominates land use in the surrounding area. Currently grazing within the lake area is fenced and restricted. Soils sampled in sedge dominated stands are saturated, with a very shallow organic layer (5 cm) hemic - more mucky than peaty, silty clay (25 cm) 10YR 2/1 - oxidized root channels, bottom horizon of gleyed clay as far as shovel could reach (25 - 40+ cm). pH of water: shallow, vegetated = 7; deeper, open water = 8.5.

### Key Environmental Factors

No Data

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## Climate Description

No Data

## Land Use History

No Data

## Cultural Features

No Data

### SITE DESIGN

Site Map Y - Yes

Mapped Date 11/16/2004

Designer March, M.A.

## Boundary Justification

The boundary encompasses the element occurrences, the lake, and an immediate area buffering hydrological processes (e.g., surface flow (sheetflow)). The boundary provides a small buffer from nearby roads and open range where surface runoff may contribute excess nutrients, sediment and weed invasion. It should be noted that the hydrological processes necessary to the element are not fully contained by the site boundaries.

Primary Area 252.20 Acres

102.06 Hectares

### SITE SIGNIFICANCE

Biodiversity Significance Rank B4: Moderate Biodiversity Significance

## Biodiversity Significance Comments

The site supports a fair (C-ranked) occurrence of the globally vulnerable (G3S3) *Carex lanuginosa* herbaceous vegetation; and a fair (C-ranked) occurrence of the apparently globally secure (G3G5), but imperiled in the state (S2?) *Carex atherodes* herbaceous vegetation.

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</u>	<u>State</u>	<u>Driving</u>
<u>State ID</u>	<u>State Scientific Name</u>	<u>State Common Name</u>	<u>Rank</u>	<u>Rank</u>	<u>Site Rank</u>
18076	<i>Carex atherodes</i> Herbaceous Vegetation		G3G5	S2?	No
21815	<i>Carex pellita</i> Herbaceous Vegetation	Montane Wet Meadows	G3	S3	Yes

### REFERENCES

## Reference ID

## Full Citation

192742

March, M.A. 2005. Final Report: Natural Heritage Wetland Inventory of Dolores County. Colorado Natural Heritage Program, Fort Collins, CO.

### ADDITIONAL TOPICS

## Additional Topics

No Data

### VERSION

Version Date 11/16/2004

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Version Author March, M.A.

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