

**APPENDIX 0.1**  
**Groundwater-Dependent Natural Resource Types**

(Following Minnesota Land Cover Classification System protocol)

Cold water trout stream	Wet prairie seepage subtype - saturated soils
Spring creek	Calcareous seepage fen
Groundwater-dependent lake	Calcareous seepage fen boreal subtype
Tamarack swamp seepage subtype	Calcareous seepage fen prairie subtype
Tamarack swamp minerotrophic subtype	Poor fen
Tamarack swamp sphagnum subtype	Poor fen sedge subtype
White cedar swamp seepage subtype	Poor fen patterned fen subtype
Black spruce bog	Rich fen
Black spruce bog intermediate subtype	Rich fen sedge subtype
Black spruce bog raised subtype	Rich fen floating-mat subtype - saturated soils
Black ash swamp seepage subtype	Rich fen patterned fen subtype
Mixed hardwood swamp seepage subtype	Open bog Open sphagnum bog schlenke subtype
Scrub tamarack poor fen	Graminoid bog
Birch bog, spiraea temporarily flooded shrubland	Wet meadow floating mat subtype
Shrub fen	Rich fen floating-mat subtype - semipermanently flooded
Poor fen shrub subtype	Rich fen floating-mat subtype - intermittently exposed
Rich fen shrub subtype	Rich fen floating-mat subtype - permanently flooded
Wet brush-prairie seepage subtype	Talus slope algific subtype
Shrub swamp seepage subtype	Seepage meadow
Alder swamp - saturated soils	Wet cliff
Birch bog, spiraea shrubland - saturated soils	Moderate cliff
Alder swamp	Midwest sedimentary dripping cliff
Birch bog, spiraea shrubland - seasonally flooded	Saline spring mud flats
Birch bog, spiraea shrubland - semipermanently flooded	