

## **Appendix C**

### **Summary of Potential Occurrence Table for Plant Species**



**SUMMARY OF POTENTIAL FOR AND/OR OCCURRENCE OF SPECIAL STATUS PLANT SPECIES  
FOR ENDURING RESOURCES' PROPOSED SOUTHAM CANYON PROJECT AREA (SCPA)**

<b>Species</b>	<b>Status 1</b>	<b>Habitat</b>	<b>Potential for Occurrence of Special Status Species</b>	<b>Eliminated From Detailed Analysis? (Yes/No)</b>
<i>Arabis vivariensis</i> park rock cress	S	Uintah County. Weber Formation sandstone and limestone outcrops; mixed desert shrub or pinyon-juniper communities; 5000-6000 feet; flowers May.	None - No potential habitat. The geological formation and soils associated with this species do not occur in the Project Area.	Yes
<i>Astragalus equisolensis</i> horseshoe milkvetch	0	Uintah County. East of Green River Horseshoe Bend; Duchesne River Formation soils; mixed desert shrub communities; 4790-5185 feet; flowers May-early June.	None - No populations, potential or suitable habitat occurs for this species in this area. Known populations occur along the upper Green River; outside of the Project Area.	Yes
<i>Astragalus hamiltonii</i> Hamilton milkvetch	S	Uintah County. Duchesne River, Mowry, Dakota and Wasatch Formations; mixed desert shrub or pinyon-juniper communities; 5240-5800 feet; flowers May-June.	None - No potential habitat. The geological formation and soils associated with this species do not occur in the Project Area.	Yes
<i>Cirsium ownbeyi</i> Ownbey thistle	S	Daggett, and North East Uintah Counties. East Uinta Mountain canyons; pinyon-juniper, mixed desert shrub or riparian communities; 5500-6200 feet; flowers late May-August.	None - No potential habitat. Known populations occur in north east Uintah County, outside of the Project Area.	Yes
<i>Cleomella palmeriana</i> var. <i>goodrichii</i> Goodrich cleomella	S	Uintah County. Morrison Formation, heavy clay; mat-salt-bush, Cicsco woodyaster, salt desert shrub community; 4000-6000 feet; flowers May.	None - No potential habitat. The geological formation and soils associated with this species do not occur in the Project Area.	Yes
<i>Cryptantha barnebyi</i> Oilshale catseye	0	Uintah County. Lower Parachute member, Evacuation Creek. Occurs south and southeast of Bonanza. Shale slopes, semi barren mixed desert shrubs or pinyon juniper. 4600-600 feet.	None - No potential habitat. Known populations occur south and outside of the Project Area.	Yes
<i>Erigeron untermannii</i> Untermann's Daisy	S	Duchesne, and Uintah Counties. Tavaputs Plateau; Green River, Uinta Formations; dry calcareous ridges; pinyon-juniper or mountain brush communities; 7000-7800 feet; Flowers May-June.	None - No populations, potential or suitable habitat occurs for this species in this area. Species occurs at higher elevation than the Project Area.	Yes
<i>Habenaria zothecina</i> alcove bog orchid	S	Uintah County. unconsolidated Quaternary alluvium; seeps, hanging gardens, riparian areas in mixed desert shrub, pinyon-juniper, or oak brush communities; 4360-8690 feet; flowers late July-August.	None - No potential habitat. Known populations occur in northern Uintah County; therefore outside the Project Area.	Yes
<i>Hymenoxys lapidicola</i> rock hymenoxis	S	Uintah County. Blue Mountain; Weber Formation, sandy ledges and crevices; pinyon-juniper or ponderosa-manzanita communities;	None - No potential habitat. The geological formation and soils associated with this species do not occur in the Project Area.	Yes

Species	Status <sub>1</sub>	Habitat	Potential for Occurrence of Special Status Species	Eliminated From Detailed Analysis? (Yes/No)
		5700-8100 feet; flowers June.		
<i>Lepidium barnebyanum</i> Barneby's pepperplant	E	Tribal land in Duchesne County. West Tavaputs Plateau, Indian Canyon. Uinta Formation. White shale outcrops and ridges, barren inclusions in pinyon juniper. 6200-6500 feet.	None - No potential habitat. Known populations occur outside of Uintah County; therefore outside of the Project Area.	Yes
<i>Lepidium huberi</i> Huber's pepperplant	S	Uintah County. Uinta Mountain foothills, Book Cliffs; Chinle, Park City, Weber Formations; eroding cliffs, alluvium; black sage or mountain brush communities; 5000-9700 feet; flowers June-August.	None - No potential habitat. The geological formation and soils associated with this species do not occur in the Project Area.	Yes
<i>Mentzelia goodrichii</i> Goodrich's blazingstar	S	Duchesne County. Green River Formation; escarpments of Willow and Argyle Canyons; steep white calciferous shale cliffs; open mountain brush communities; 8100-8800 feet; flowers July - August.	None - No potential habitat. Known populations occur outside of Uintah County; therefore outside of the Project Area.	Yes
<i>Penstemon acaulis</i> var. <i>acaulis</i> stemless beardtongue	S	Daggett County. Browns Park Formation, ashy, gravelly or sandy ridges and knolls; sagebrush-desert grass or pinyon-juniper communities; 5840-7285 feet; flowers June-July.	None - No potential habitat. Known populations occur outside of Uintah County; therefore outside of the Project Area.	Yes
<i>Penstemon gibbensii</i> Gibbens beardtongue	S	Daggett County. Brown's Park (Bridger Basin endemic); Green River Formation; sandy/shaly bluffs, slopes; juniper, thistle, buckwheat, serviceberry community; 5500-6400 feet.; flowers June.	None - No potential habitat. Known populations occur outside of Uintah County; therefore outside of the Project Area.	Yes
<i>Penstemon goodrichii</i> Goodrich's penstemon	S	Duchesne, and Uintah Counties. near Lapoint, Tridell, Whiterocks; Duchesne River Formation; clay badlands; desert shrub, shadscale, pinyon-juniper or mountain brush communities; 5590 to 6215 feet; flowers late May - June.	None - No potential habitat. Known populations occur in northern Uintah County; outside of the Project Area.	Yes
<i>Penstemon grahamii</i> Graham's penstemon	S	Uintah, and Duchesne Counties. Green River Formation; oil shale or white shale knolls and talus; semi-barren mixed desert shrub or pinyon-juniper communities; 4600-6700 feet; flowers from late May - mid-June.	None - No potential habitat. Known populations are restricted to surface outcrops of Mahogany Bed oil shale, which occurs close to but not in Project Area.	Yes

Species	Status <sup>1</sup>	Habitat	Potential for Occurrence of Special Status Species	Eliminated From Detailed Analysis? (Yes/No)
<i>Penstemon scariosus</i> var. <i>albifluvis</i> White River penstemon	C	Uintah County. Green River Formation; South East of Bonanza; shale slopes; semi-barren mixed desert shrub or pinyon-juniper communities; 5000-6000 feet; flowers late May-June.	None – No potential habitat. Known populations are restricted to surface outcrops of Mahogany Bed oil shale, which occurs close to but not in Project Area.	Yes
<i>Schoenocrambe argillacea</i> Clay reed-mustard	T	Uintah County. Book Cliffs; contact zone of upper Uinta and lower Green River Formations; mixed desert shrub, Indian ricegrass and pygmy sagebrush communities; 5000-5650 feet; flowers May-early June.	None - No potential habitat. Known populations occur in western portion of Uintah County, outside of the Project Area.	Yes
<i>Schoenocrambe suffrutescens</i> Shrubby reed-mustard	E	Duchesne, and Uintah Counties. Green River Formation; Badlands Cliffs, Gray Knolls, Little Rock Pack Mountain; calcareous shale; mixed desert shrub, pinyon-juniper or mountain brush communities; 5400-6000 feet; flowers late May - mid-August.	None – No potential habitat. Known populations occur in the western portion of Uintah County, outside of the Project Area.	Yes
<i>Sclerocactus brevispinus</i> Pariette cactus	T	Duchesne, and Uintah Counties. Pariette Bench south of Myton; Uinta Formation (Wagonhound Member), fine alkaline clay; shadscale, mat-saltbush community; 4700-5400 feet.	None - No potential habitat. Known populations occur in the western portion of Uintah County, outside of Project Area.	Yes
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus	T	Duchesne, and Uintah Counties. Alluvial benches of Green River watershed from Ouray to Carbon County line; cold desert shrub communities; 4700-6000 feet.	None – No potential habitat. Project Area occurs east, and outside, of the species range.	Yes
<i>Spiranthes diluvialis</i> Ute lady's-tresses	T	Daggett, Duchesne, and Uintah Counties. Green River tributaries, Uinta Mountains, Browns Park, Book Cliffs; unconsolidated alluvium; wetland meadow communities; 4400-6810 feet; flowers late July – September.	None - No potential habitat. Known populations occur in the northern portion of Uintah County, outside of the Project Area.	Yes
<i>Thelesperma caespitosum</i> Duchesne Greenthread	S	Duchesne County: Uinta Mountains, Tavaputs Plateau; Bishop Conglomerate Formation; cushion plant community on rim crests above mountain brush; 7500-9000 feet; flowers May - June.	None - No potential habitat. Known populations occur outside of Uintah County; therefore outside of the Project Area.	Yes

<sup>1</sup>Status: E= Federally endangered; T= Federally threatened; C = Federal candidate; S = BLM sensitive; 0 = nonstatus, removed from status, potential status.

Source: adapted from BLM Vernal Field Office Special Status Plant Species List, 2007.

Source for location information: UNHP 2005, UNPS 2007, Goodrich 1986, and Welsh et al. 1993.

**References:**

- Goodrich, S. and Neese, E. 1986. *Uinta Basin Flora*. USDA Forest Service- Intermountain Region- Ogden, Utah 1986 in Cooperation with USDA FS- Ashley National Forest and USDI Bureau of Land Management - Vernal District.
- Utah Native Plant Society (UNPS). 2007. *Utah Rare Plant Guide*. Salt Lake City, UT: Utah Rare Plant Guide Home Page. Available at: <http://www.utahrareplants.org>. Accessed 1/16/08.
- Utah Natural Heritage Program (UNHP). 2005. Plant Information: A Progress Report. By M.A. Ben Franklin. Utah Division of Wildlife Resources. Publication Number 05-40. December 2005
- Welsh, S. L., N.D. Atwood, S. Goodrich, and L.C. Higgs (eds). 1993. *A Utah flora* (2nd edition revised). Brigham Young University, Provo, UT. 986 pp.