

Table 5.4, Continued
SPECIAL STATUS SPECIES POTENTIALLY OCCURRING IN THE PROPOSED
REPLACEMENT AIRPORT STUDY AREA

SPECIES	STATUS ¹	HABITAT	POTENTIAL PRESENCE WITHIN PROPOSED REPLACEMENT AIRPORT STUDY AREA	POTENTIALLY IMPACTED BY PROPOSED REPLACEMENT AIRPORT ²
Fish				
Virgin River chub	ESA LE	Deep, protected areas of swift water.	Restricted to the aquatic habitats of the Virgin River.	No
Virgin spinedace	CA	Clear, slow-moving water of creeks and small streams; most often occur in areas with ample cover.	Restricted to the aquatic habitats of the Virgin River.	No
Woundfin	ESA LE	Main channel of swift, turbid, warm streams over sand substrate.	Restricted to the aquatic habitats of the Virgin River.	No

¹ Status definitions:

ESA - Endangered Species Act SPC - Species of Special Concern EXN - Experimental Population
 LE - Listed Endangered
 LT - Listed Threatened
 C - Candidate
 CA - Conservation Agreement

² See Section 6.11 for detailed information regarding potential impacts of the development of the proposed replacement airport on biological resources.

Source: Logan Simpson Design. 2005.

5.4.4 WATER RESOURCES

The wash channels within the proposed replacement airport study area are ephemeral, which means that they do not have a continuous flow of water. There are no perennial intermittent surface water flows within the proposed replacement airport study area. Surface water is present only for a short duration following storm events. The substrate of the drainage channels is composed of sand to fine-textured soils or exposed bedrock. The channel banks are typically greater than one foot deep and are composed of either rocky slopes or eroded soil. The surface water within the proposed replacement airport study area flows northeast to southwest towards Fort Pearce Wash, which flows to the Virgin River; and are part of Utah's Lower Colorado River Basin. There is a high point in the center portion of the proposed replacement airport study area that breaks the drainage pattern into a northerly flow and a southerly flow. Washes 1 and 2 flow northeasterly; the rest flow to Fort Pearce Wash.

5.4.4.1 Waters of the United States

Potential jurisdictional waters of the United States are located within the proposed replacement airport study area.⁷⁰ The jurisdictional limits along drainage locations were determined by the presence of the indicators listed below.⁷¹

- Change in soil characteristics
- Impression of water line
- Shelving or cut banks
- Destruction of vegetation from water flows
- Litter or debris
- Soil deposits
- Water stains

A formal jurisdictional delineation of the proposed replacement airport site, which has been approved by the U.S. Army Corps of Engineers (USACE), determined that the proposed replacement airport study area contains eight jurisdictional sites of waters of the United States.⁷² These eight sites are depicted in **Exhibit 5.6**. See also **Appendix P** for detailed information.

5.4.4.2 Wild and Scenic Rivers

There are no rivers designated as Wild and Scenic within the vicinity of the proposed replacement airport site, or within the entire states of Utah and Nevada.⁷³ The Verde River, located in central Arizona between Flagstaff and Phoenix, is the only national wild and scenic river designated within the State of Arizona. The Verde River is located outside of the initial area of investigation. The FAA recognizes that the Arizona BLM completed a Final Arizona Statewide Wild and Scenic Rivers Legislative EIS which included a determination that portions of the Virgin River in Arizona were eligible for consideration under the National Wild and Scenic Rivers Act. At this time, the FAA has been unable to confirm if sections of the Virgin River are under study by the NPS as potential wild and scenic rivers. The Virgin River in Arizona lies outside of the initial area of investigation.

In addition to providing for the designation of national wild and scenic rivers, the Wild and Scenic Rivers Act (P.L. 90-542) provides for the study of river segments as potential components of the national wild and scenic river system. Study river segments have been designated along the Green and Colorado Rivers in Colorado and Utah and along the Salt, Verde, and San Francisco Rivers in Arizona.⁷⁴ These study river segments are also located outside of the initial area of investigation.

⁷⁰ Field surveys conducted on April 26, 2004 and September 7, 2004 by Logan Simpson Design Inc.

⁷¹ *Guidelines for Jurisdictional Determinations for Waters of the United States in the Arid Southwest*. U.S. Army Corps of Engineers. 2001.

⁷² Correspondence from Grady L. McNure, US Army Corps of Engineers, to David Ulane, Manager, St. George Municipal Airport. February 1, 2005. See **Appendix P**.

⁷³ National Park Service. On-line at <http://www.nps.gov/rivers/November 23, 2004>.

⁷⁴ *Wild & Scenic Rivers Study Status (as of January 2003)*, National Park Service. On-line at: <http://www.nps.gov/rivers/study.html/>.