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

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>STATUS¹</th>
<th>HABITAT</th>
<th>POTENTIAL PRESENCE WITHIN PROPOSED REPLACEMENT AIRPORT STUDY AREA</th>
<th>POTENTIALLY IMPACTED BY PROPOSED REPLACEMENT AIRPORT ²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virgin River chub</td>
<td>ESA LE</td>
<td>Deep, protected areas of swift water.</td>
<td>Restricted to the aquatic habitats of the Virgin River.</td>
<td>No</td>
</tr>
<tr>
<td>Virgin spinedace</td>
<td>CA</td>
<td>Clear, slow-moving water of creeks and small streams; most often occur in areas with ample cover.</td>
<td>Restricted to the aquatic habitats of the Virgin River.</td>
<td>No</td>
</tr>
<tr>
<td>Woundfin</td>
<td>ESA LE</td>
<td>Main channel of swift, turbid, warm streams over sand substrate.</td>
<td>Restricted to the aquatic habitats of the Virgin River.</td>
<td>No</td>
</tr>
</tbody>
</table>

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.


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. The jurisdictional limits along drainage locations were determined by the presence of the indicators listed below.

- 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. 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. 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. These study river segments are also located outside of the initial area of investigation.

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