

CHAPTER SIX

ENVIRONMENTAL CONSEQUENCES

6.A INTRODUCTION

This chapter presents an assessment of the environmental impacts of the runway development alternatives, including the No Action Alternative. It also presents a summary of conceptual mitigation measures that the FAA would consider to avoid and minimize potential adverse environmental effects. The recommended mitigation measures for the FAA's Preferred Alternative are discussed in Chapter Eight.

The following analysis discloses the impacts for the projected future conditions in 2012 and 2020. The FAA uses 2012 and 2020 as a basis for analysis because 2012 is the projected earliest implementation year of the runway development alternatives and 2020, because it represents the earliest future condition after full implementation of any of the alternatives.

Based on the guidance provided by FAA Orders 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*, and 1050.1E, *Environmental Impacts: Policy and Procedures*, the potential environmental impacts of the runway development alternatives have been evaluated under the following categories:

- **Section 6.B, Air Quality**
- **Section 6.C, Noise and Compatible Land Uses**
- **Section 6.D, Public Properties/Historic Resources**
Historic, Architectural, Archeological, and Cultural Resources
Department of Transportation Act, Section 4(f) Properties [Recodified as 49 U.S.C. 303(c)]
- **Section 6.E, Water Resources**
Water Quality
Wetlands
Floodplains
Coastal Resources (Coastal Barriers and Coastal Zone Management)
- **Section 6.F, Biological and Natural Resources**
Fish, Wildlife, and Plants
- **Section 6.G, Hazardous and Waste Materials**
Hazardous Waste
Solid Waste
Pollution Prevention

- **Section 6.H, Social and Community Resources**
 - Socioeconomic Impacts
 - Environmental Justice
 - Children's Environmental Health and Safety Risks
 - Secondary (Induced) Impacts (Surface Transportation, Economic Impacts, and Public Services)
 - Light Emissions and Visual Impacts
 - Natural Resources and Energy Supply
 - Construction Impacts
- **Section 6.I, Recognized Impact Categories Neither Applicable Nor Pertinent to this Proposal**
 - Wild and Scenic Rivers
 - Farmlands
- **Section 6.J, Conceptual Mitigation Measures Considered in the Draft EIS**

The analysis of environmental impacts compares the effects of the Airport Sponsor's Proposed Project and alternatives to the No Action Alternative. All of the alternatives considered in this Environmental Impact Statement (EIS) are described in detail in Chapter Four, *Alternatives*, including those alternatives that were rejected from further consideration.¹

As stated in FAA Order 1050.1E, *Environmental Impacts: Policy and Procedures*, the environmental consequences section forms the scientific and analytical basis for comparing the Airport Sponsor's Proposed Project and reasonable alternatives. It includes considerations of direct and indirect effects and their significance and possible conflicts between the Airport Sponsor's Proposed Project and the objectives of Federal, regional, state, tribal, and local land use plans, policies, and controls for the area concerned.

A summary of the potential direct and secondary (induced) environmental impacts and/or benefits associated with each of the proposed runway development alternatives including the No Action which is provided in Section 6.K, *Summary of Alternatives Including Potential Environmental Impacts and Benefits*.

¹ Some of the alternatives considered in this analysis were rejected for further consideration because they were found not to be reasonable, practicable, prudent, and/or feasible; and did not meet the stated purpose and need.