



Who is FHI?

FHI is a multidisciplinary consulting firm focused on providing quality services and products to our clients. Our staff of planners, engineers and scientists have a depth of experience on projects of many sizes for both public and private clients. Our core services include environmental planning, transportation planning, cultural resource investigations, GIS mapping and analyses, community and site planning, and public involvement. We have applied these services to a broad range of airport planning and construction projects in support of master plans, environmental impact statements, and project engineering design.

FHI's Airport Services

- Master Planning & Facility Upgrade Support
- Environmental Impact Statements & Analysis
- Environmental Resource Inventory & Mapping
- Cultural Resource Surveys & Documentation
- Wetland & Biological Studies
- Water Resources & Coastal Zone Permitting
- Transportation, Traffic, & Land Use Studies
- Public Involvement

Core Services

- Transportation Planning
- Environmental Planning
- Historical/Cultural Documentation
- Public Involvement
- Community/Site Planning
- GIS Analysis

Master Planning & Facility Upgrade Support



T.F. Green Airport, Providence, Rhode Island

FHI has been called in during Master Plan development, Airport Layout Plan (ALP) updates, and facility upgrade design to provide a variety of our core services needed for getting airport projects "on the ground". We have been involved in all phases of airport project development, on which we have provided environmental screening for natural

and cultural resources, wetland delineation and functional analysis, traffic circulation studies, regulatory coordination, environmental impact analysis (informal or per the National Environmental Policy Act [NEPA]), environmental permitting, and public involvement. Our experience includes examination of specific proposed actions ranging from runway safety area construction, runway extensions or improvements, obstruction removal, transit connections, to airport lighting system installations, as well as a whole suite of projects outlined as short-term master plan improvements.

Environmental Impact Statements & Analysis

FHI has broad experience conducting environmental impact analysis and documentation pursuant to NEPA for proposed airport improvement projects. Our staff is familiar with the Federal Aviation Administration (FAA) guidelines for NEPA documents, FAA Advisory Circulars 5050.4A and 5070.6A, and other pertinent directives for airport project planning and implementation. Our staff includes experts in all topics covered by NEPA, and our impact analyses include direct and indirect impacts, secondary impacts, cumulative impacts, and construction impacts, as well as impact avoidance, minimization, and mitigation measures. In addition to environmental impact statements (EISs) and environmental assessments (EAs), we have conducted many different types of special environmental studies and incorporated them into the environmental review process. These have included Biological Assessments pursuant to the Endangered Species Act (ESA), Section 7 Coordination (ESA), Section 303c Evaluations per the USDOT Act, Section 106 documentation per the National Historic Preservation Act, and wetland function/value assessments for Section 404 compliance.

Environmental Resource Inventory & Mapping

FHI's expertise includes compiling natural resource inventories for airport projects using a variety of techniques such as analysis of existing mapped sources, GIS data, aerial photographic interpretation, and field surveys. We have experience in mapping



Tidal Wetland Delineation and Assessment, Sikorsky Memorial Airport, Bridgeport, CT

and interpreting tidal wetlands, inland wetlands, floodplains, surface and groundwater resources, fish and wildlife habitat, farmland soils, threatened and endangered species, cultural resources, land use, hazardous risk sites, and other environmental resources of concern. The firm is skilled in utilizing and synthesizing GIS data sources, and has the capability to incorporate specific field-located data using geographic positioning systems (GPS).

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Cultural Resource Surveys & Historical Documentation

FHI's experienced architectural historians have assessed the historical significance and provided documentation of terminal buildings pursuant to Section 106 of the Historic Preservation Act. Our cultural resource staff has also gathered data for large scale on-airport and off-airport inventories of historic structures within the airport's sphere of influence, often corresponding to the area of potential effect within the 65 decibel (day-night level) airport noise contour. FHI has managed archaeological investigations on airport properties, consulted with State Historic Preservation Officers (SHPOs), and facilitated coordination between the FAA and Tribal Historic Preservation Officers (THPOs) relative to cultural resource impacts from airport improvement projects. Our experience includes preparation of impact mitigation documents and site monitoring during construction. FHI's comprehensive cultural resource management services are enhanced by the use of GIS data gathering, mapping, and analysis capabilities.

Wetland Delineation & Biological Studies

FHI has carried out a variety of baseline documentation studies at airports, including tidal wetland and high tide delineation, wetland classification and functional assessment, and surveys of flora and fauna. We have assessed aircraft-wildlife hazards and habitat conflicts. Pursuant to Section 404 of the Clean Water Act, we have prepared wetland documentation and have undertaken agency coordination with the Army Corps of Engineers (ACOE) and state regulators relative to wetland jurisdictional determinations, wetland impacts, and potential mitigation. We also have experience with Section 7 consultation requirements of the ESA and have prepared Biological Assessments for potential impacts to federally listed threatened and endangered species pursuant to the ESA.



Endangered Species Habitat Assessment, Easton Airport, MD

Wetlands, Water, & Coastal Zone Permitting

Regulatory compliance and permitting for activities affecting wetland, water, and coastal zone resources are critical for any proposed changes at airports. FHI staff have ongoing contact with regulatory agencies and work hard to keep abreast of changing requirements and policies which may affect permitting decisions in these areas. Our regulatory understanding, thorough agency coordination, and meticulous preparation of permit applications significantly reduce the time for permit processing. Our permitting experience includes a broad range of permit types, including ACOE nationwide and individual permits, Programmatic General Permits, state permits for marine structures and dredging, tidal wetlands, water quality certification, coastal zone consistency, inland wetlands and watercourses, stream alterations, flood management, and stormwater discharge.

Landside Transportation, Traffic, & Land Use Studies

FHI informs airport decision making on the landside through land use and growth management studies, vehicular traffic circulation and origin-destination studies, and travel demand analyses. Our expertise includes multi-modal transfer studies including roadway networks and transit alternatives. We also have experience evaluating airport-related vehicular traffic impact on local communities, environmental constraints to roadway development, access to airport-related jobs, and transit access. We also identify sensitive land uses within the area of noise influence of airports and evaluate consistency of airport planning with local planning.

Public Involvement

FHI staff includes planners who are familiar with technical issues while being expert at crafting and orchestrating public involvement programs or individual events. We are experienced with many aspects of public involvement that are often integral to airport planning efforts, including design and establishment of project websites, project newsletters, and meeting facilitation. Our public involvement team includes media coordination specialists skilled in public outreach efforts for projects of varying size and scope.

Representative Airport Projects

- Easton Municipal Airport Obstruction Removal EA
- Groton-New London Airport Runway Improvements EIS
- Airport Parkway/Southern Expressway EIS (Pittsburgh)
- Airport Busway Transitional Analysis (Pittsburgh)
- Tweed-New Haven Airport Master Plan Update
- Bradley Airport Sub-Area Transportation Planning Study
- Waterbury-Oxford Airport Master Plan EA - 2000
- Waterbury-Oxford Airport Master Plan Update 2004
- Windham Airport Master Plan Update
- Terminal A Replacement at Logan International Airport
- T.F. Green Airport Master Plan and EIS
- Sikorsky Memorial Airport Safety Improvements
- Philadelphia International Airport Master Plan and EIS - 1999
- Delta Air Lines Terminal Replacement at JFK Airport
- Tweed-New Haven Airport HIRLS Installation
- Sikorsky Memorial Airport Taxiway D Reconstruction