

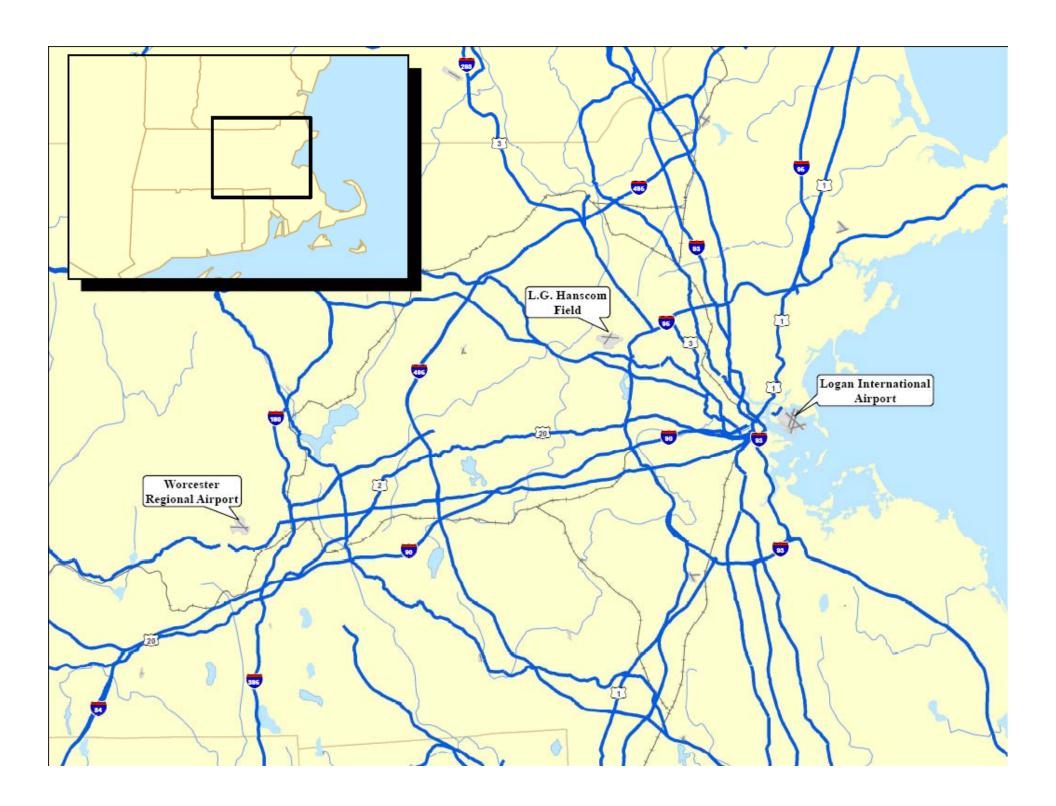


2012 L.G. Hanscom Field Environmental Status and Planning Report (ESPR) Scope

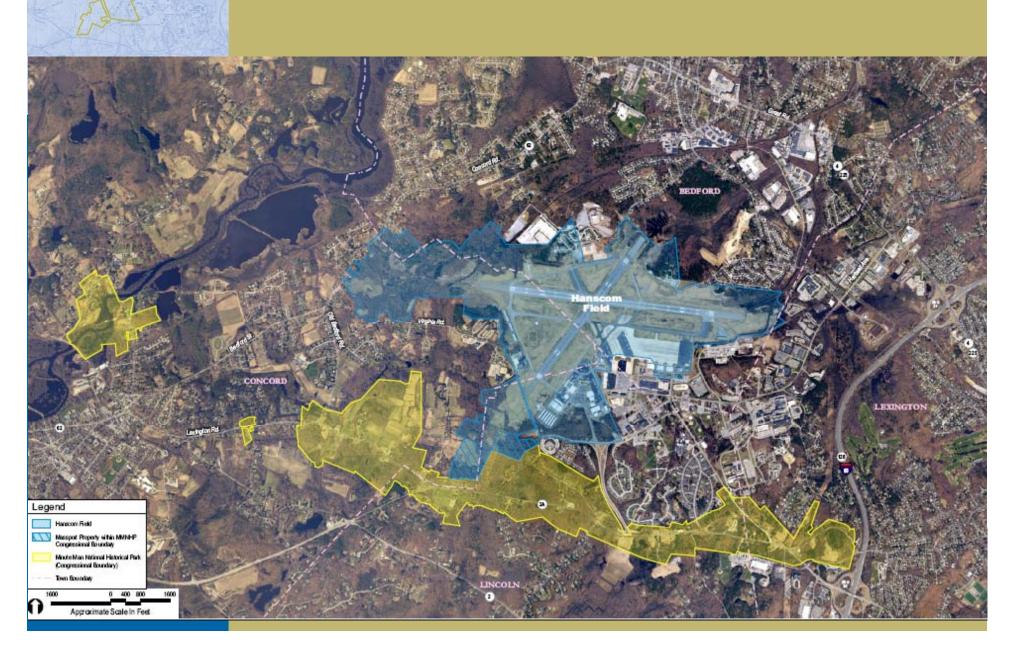
Massachusetts Port Authority

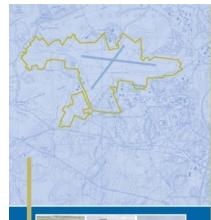
April 4, 2012 6:00pm MEPA Scoping Meeting Bedford Town Hall Multi-Purpose Room 10 Mudge Way Bedford, MA 01730





Hanscom Field



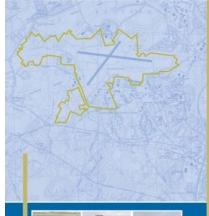




Hanscom: A Regional Resource

- GA reliever to Logan International Airport
- Handles over 6 times more GA operations than Logan
- Serves the businesses of Massachusetts
- Located adjacent to Route 128 corridor which serves the Route 2, 3, and 495 corridor businesses and has easy access into Boston
- L.G. Hanscom Field utilized by Hanscom Air Force Base



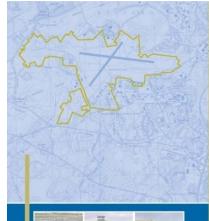




ESPR: What It Is & How It Is Used

- Required by MA Secretary of the Executive Office of Energy & Environmental Affairs since 1985
- To be prepared every five years to evaluate:
 - cumulative effect of growth and change at Hanscom Field
- Provides data and analyses on:
 - airport facilities/activity levels / planning
 - noise
 - ground transportation
 - air quality
 - wetlands, wildlife, water quality
 - cultural and historical resources
 - sustainability



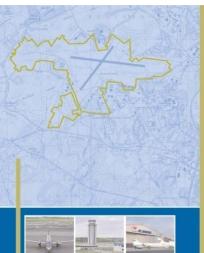




ESPR: What It Is & How It Is Used

- The original GEIR, the 1995 GEIR Update, the 2000 ESPR, the 2005 ESPR, and now the 2012 ESPR provide a retrospective analysis of the environmental effects of Hanscom Field while including analyses for future forecasts.
- The 2012 ESPR will present an overview of the operational environment and planning status of Hanscom Field and will provide long-range projections of environmental conditions against which the effects of future individual projects can be compared.





Environmental Status & Planning

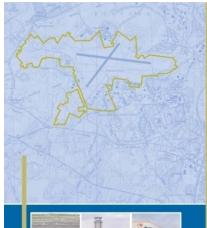
Report

ESPR: What It Is & How It Is Used

• The ESPR will allow the reader to see historical environmental information, current information, and a forecast of future environmental effects at Hanscom Field.

• ESPRs do not replace the requirement for filing an Environmental Notification Form (ENF) for a specific project if that project meets or exceeds a MEPA regulation threshold.



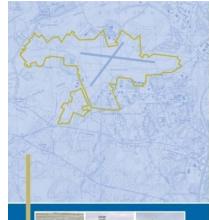




The Framework

- Hanscom Field 1978 Master Plan and 1980
 Noise Rules & Regulations
 - Commercial passenger aircraft limited to no more than
 60 seats
 - Nighttime field use fee to help discourage activity between 11 pm and 7 am
- Aviation Activities at Hanscom Field include:
 - Corporate aviation
 - Recreational flying
 - Pilot training
 - Air charter
 - Cargo (does not include commercial cargo carriers)
 - Commercial service (within the Noise Rules)
 - Military flights







2012 ESPR

- A prospective analysis using 2012 as the analysis year and 2020 and 2030 as the forecast years
- Historical information for comparison & trend analysis
- An analysis of current and future operating conditions
- Overview of near-term capital planning and long-term development concepts
- Evaluation of potential environmental effects





12 Chapters in a Single Document with Supporting Appendices



- 1. Introduction
- 2. Facilities and Infrastructure
- 3. Airport Activity Levels
- 4. Airport Planning
- Regional Transportation Context
- 6. Ground Transportation
- 7. Noise
- 8. Air Quality
- 9. Wetlands/Wildlife/Water Quality

- 10. Cultural and Historical Resources
- 11. Sustainable Development and Environmental

 Management System
- 12. Environmentally Beneficial Measures

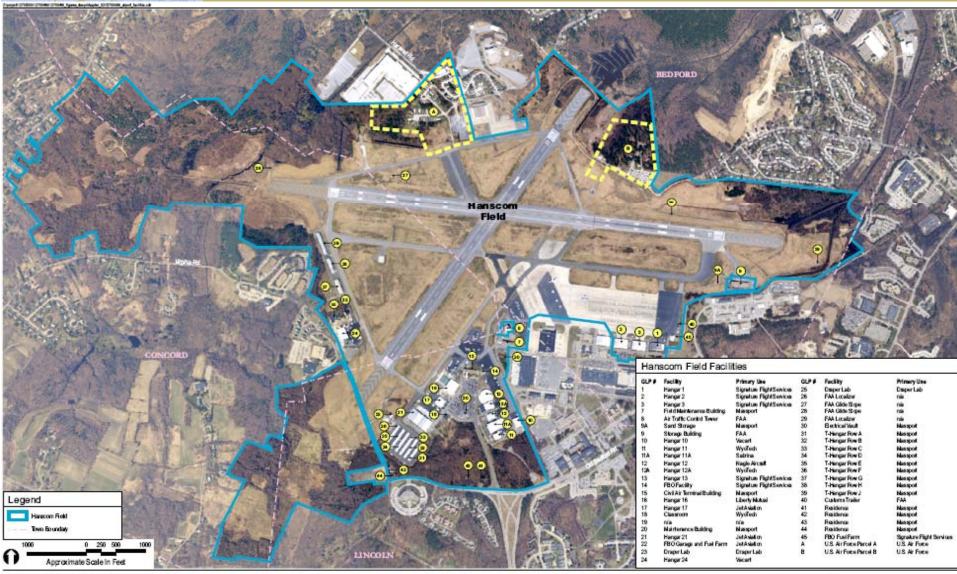
Appendices:

- MEPA Documentation
- Response to Comments
- MEPA Reviewers
- Other Tech. Appendices





Facilities and Infrastructure



missiport

2005 Hanscom Field DRAFT ESPR Bedford, Concord, Lexington and Lincoln, Mass achusetts Airport Facilities

Figure 2-1



Airport Activity Levels

Table 3-2 History of Hanscom Field Aircraft Operations (7:00 a.m. to 11:00 p.m.) from 1990 to 2005

			Business							
Year	SE Piston Local (Training)	SE Piston Itinerant	ME/ Turbo- prop	Jet	Subtotal	Helicopter	Subtotal GA	Military	Sched. Airline	Total Airport ¹
1990	76,732	124,756	13,240	8,630	21,870	7,262	230,620	2,058		232,678
1991	80,805	102,478	12,142	8,368	20,510	6,942	210,735	2,902		213,637
1992	83,427	92,328	10,519	8,105	18,624	6,834	201,213	2,542		203,755
1993	85,872	82,756	9,060	8,838	17,898	6,811	193,337	2,801		196,138
1994	86,287	74,294	8,804	9,345	18,149	6,819	185,549	2,001		187,550
1995	86,048	76,685	8,586	9,592	18,178	6,804	187,715	2,567		190,282
1996	76,735	74,872	8,786	10,390	19,176	6,915	177,698	1,799		179,497
1997	76,217	83,515	7,890	11,248	19,138	6,912	185,782	2,305		188,087
1998	68,506	81,976	10,321	13,583	23,904	6,878	181,264	1,921		183,185
1999	73,483	88,137	9,959	16,108	26,067	6,885	194,572	1,566	1,164	197,302
2000	75,676	90,323	11,373	20,226	31,599	6,914	204,512	1,287	6,572	212,371
2001	72,605	84,803	12,024	22,839	34,863	5,499	197,770	1,252	6,414	205,436
2002	76,849	82,282	13,290	30,788	44,078	7,012	210,221	1,424	6,603	218,248
2003	71,696	70,912	10,851	30,352	41,203	6,978	190,789	1,142	2,956	194,887
2004	60,794	63,755	10,665	33,021	43,686	7,066	175,301	1,195	4,308	180,804
2005	58,535	57,894	9,646	32,345	41,991	7,004	165,424	904	3,627	169,955
Average Annual Growth										
1990-2005	-1.8%	-5.0%	-2.1%	9.2%	4.4%	-0.2%	-2.2%	-5.3%	-	-2.1%
1990-2000	-0.1%	-3.2%	-1.5%	8.9%	3.7%	-0.5%	-1.2%	-4.6%	-	-0.9%
2000-2005	-5.0%	-8.5%	-3.2%	9.8%	5.8%	0.3%	-4.2%	-6.8%	-11.2%	-4.4%

Source: Massport and FAA Tower Counts

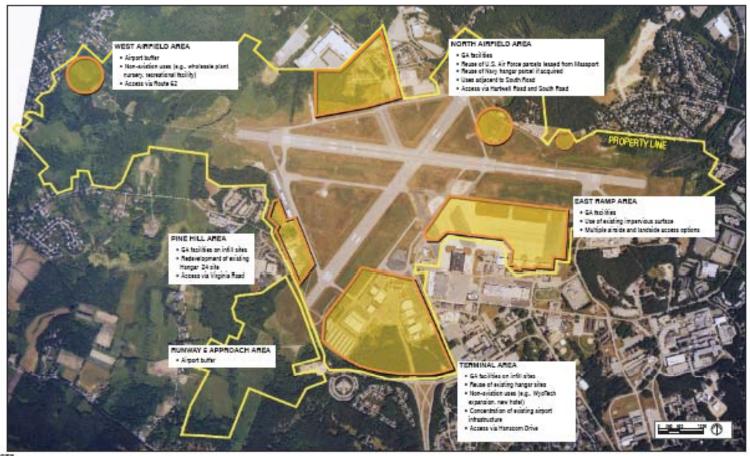
 In 1970, four years before Massport assumed operations of Hanscom Field, airport activity peaked at slightly more than 300,000 total annual aircraft operations.



Airport Planning



Environmental Status & Planning Report



NOTE

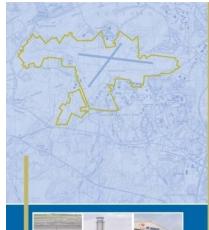
Corpupts are for illustrative purposes only and may need to be adjusted in response to specific requirements.



2005 Hanscom Field ESPR
Bedford, Concord, Lexington and Lincoln, Massachusetts

Source: Massport

Summary of Planning Concepts in the 2010 and 2020 Scenarios





Regional Transportation Context

- FAA forecasts for New England regional airports
- Examine roles and market relationship among Massport's airports -Logan, Hanscom
 Worcester
- Identify significant transportation infrastructure improvements within the region
- Describe national and regional aviation context and define Hanscom's role within the region and in relationship to Massport's three airports - Logan, Hanscom & Worcester



Environmental Status & Planning Report

Legend

Hanscom Field



Intersection Turning Movement Count Locations



24 Hour Count Locations



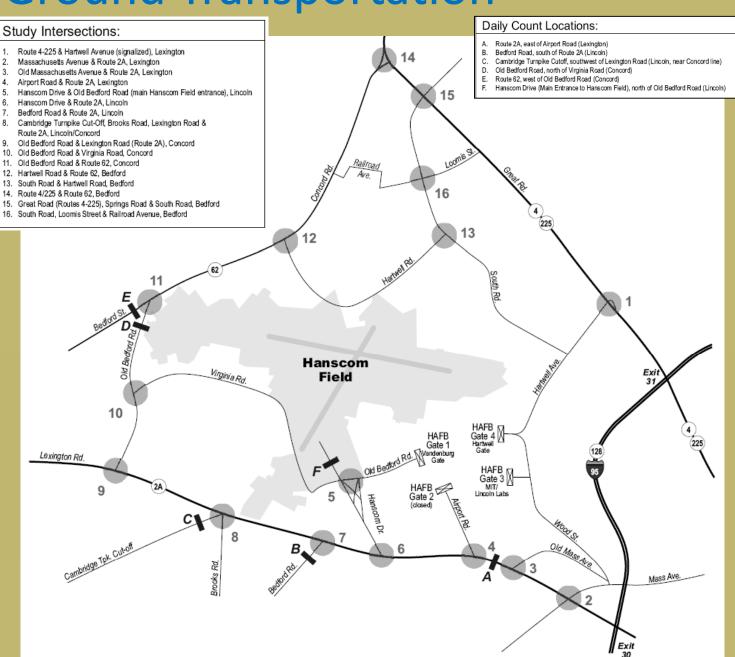
Gates to Hanscom AFB

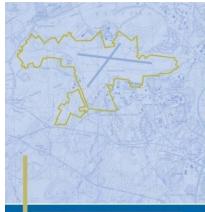


Not To Scale



Ground Transportation







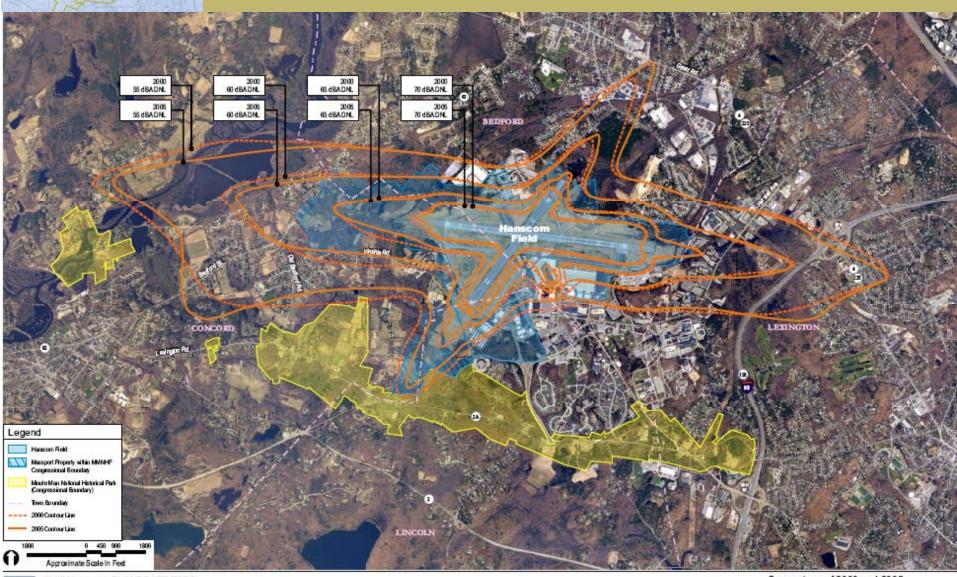
Noise

Report on current conditions for the year 2012 and projections for the forecast activity levels and use the following indicators:

- Day-Night Average Sound Level (DNL) contours
- Time-Above (TA) contours for a Given Threshold
- EXP as calculated in accordance with FAA prescribed standards for the Integrated Noise Model (INM) and past practice at Hanscom Field
- Run Up Procedures
- 11PM 7AM Field Use Fee
- Noise and Operations Monitoring System
- Fly Friendly program and recommended touch and go procedures over the MMNHP
- Flight Tracks



Noise - DNL Contours 55-70

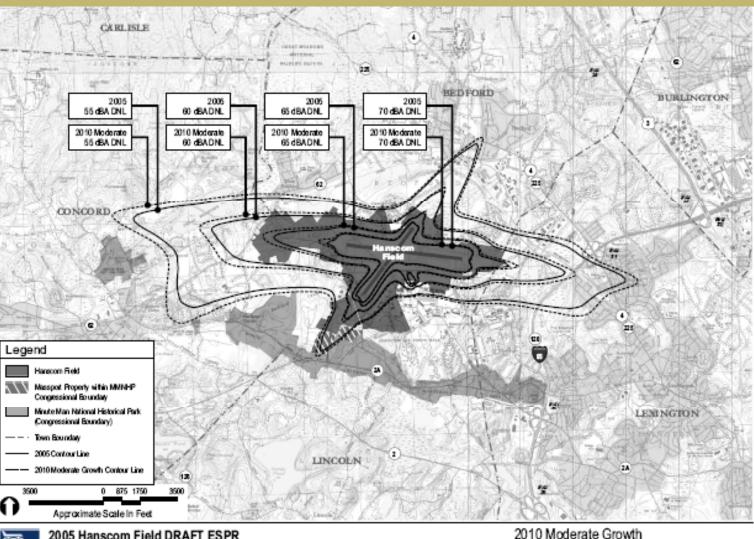




Environmental Status & Planning Report

Noise Contours - Planning Horizons

Includes associated noise impacts using DNL contours





2005 Hanscom Field DRAFT ESPR Bedford, Concord, Lexington and Lincoln, Massachusetts

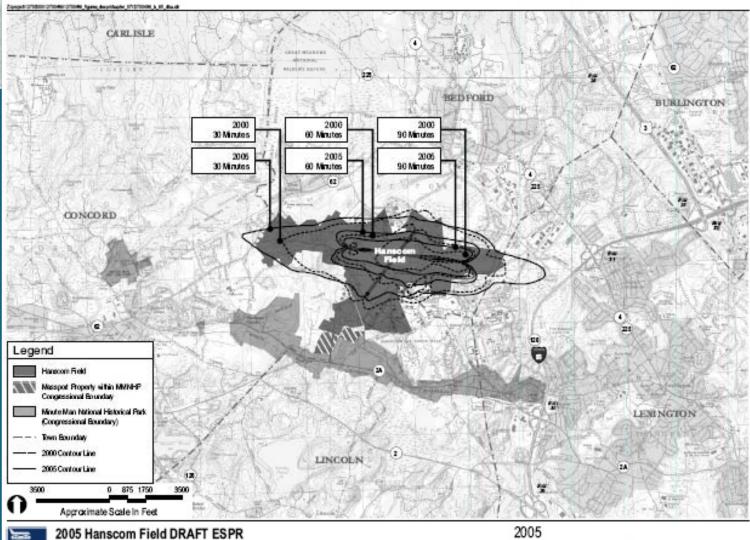
Base Map: MA USGS Topographic Maps from CD Source: HMMH 2010 Moderate Growth Scenario DNL Contours

Figure 7-17



Environmental Status & Planning Report

Noise Supplemental Metrics Time Above Contours

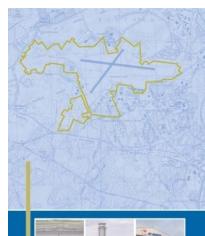


Base Map : MA USGS Topographic Maps from CD Source: HMMH Time Above 65 dBA Contours

Figure 7-12



Bedford, Concord, Lexington and Lincoln, Massachusetts





Air Quality

Report on current conditions for the year 2012, industry update on airport-related greenhouse gasses (GHG's), and projections for the forecast activity levels and years using the following indicators:

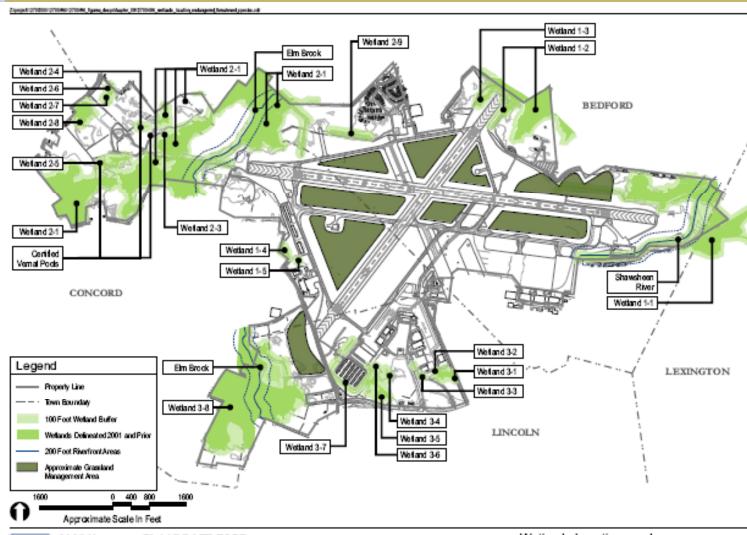
- Emissions Inventory for:
 - Carbon Monoxide (CO)
 - Oxides of Nitrogen (NOx)
 - Volatile Organic Compounds (VOCs)
 - Particulate Matter (PM10) and (PM2.5)
 - Green House Gases (GHG) (CO₂ N₂O CH₄)
- Available monitoring results for:
 - Ozone Precursors
 - Nitrogen Dioxide (NO_2)



Environmental Status & Planning

Report

Wetlands/Wildlife/Water Quality

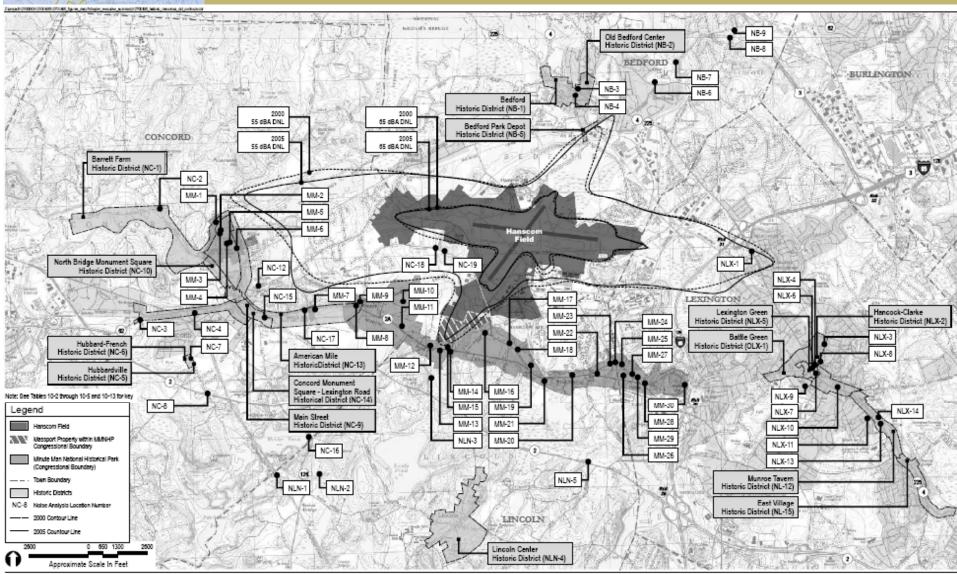




2005 Hanscom Field DRAFT ESPR Bedford, Concord, Lexington and Lincoln, Massachusetts Wetlands Locations and Grassland Management Areas

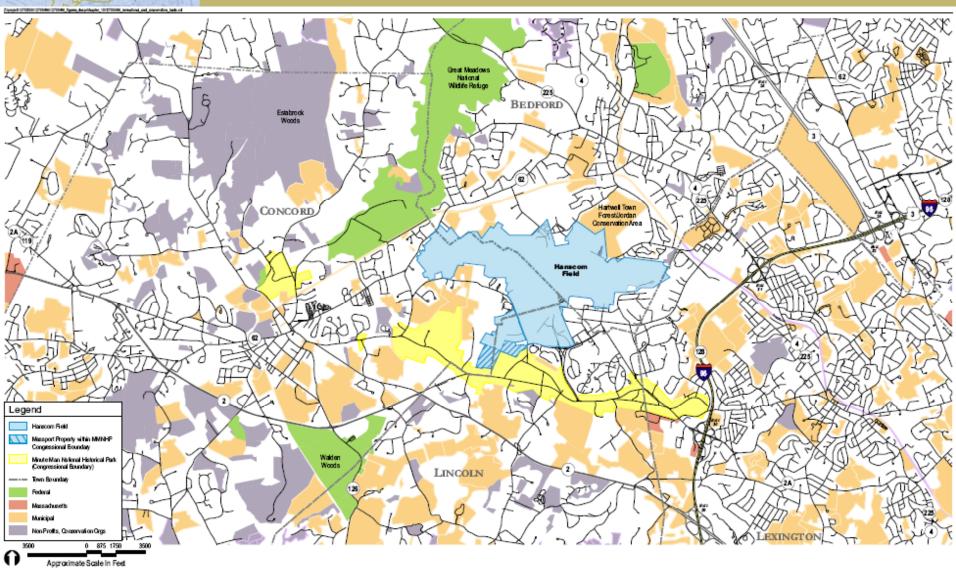
Figure 9-1

Cultural and Historical Resources



Cultural and Historical Resources

Recreation and Conservation Lands







Environmentally Beneficial Measures



- Ground Transportation
- Noise Monitoring
- Air Quality
- Stormwater Management
- Sustainable Development & Operations





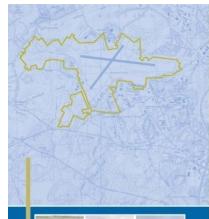


Proposed ESPR Process and Schedule

- Proposed Scope
 - February 2012 Filing
 - April 20, 2012 end of public comment period
 - April 30, 2012 MEPAScope
- ESPR
 - Fall 2013 Filing
 - 4 Technical Workshops in the Fall of 2013
 - MEPA Hearing
 - MEPA Certificate









Proposed Public Review Schedule

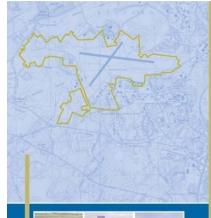
2012 ESPR Scoping

- Draft Scope filed with MEPA on February 29, 2012
- Extended public comment period of 45 days; began March 7th
- Public comment period ends on April 20, 2012

2012 ESPR Document

- 2012 ESPR proposed filing by Fall 2013
- Extended ESPR Review (60 days)
- 4 Technical
 Workshops and
 MEPA Hearing







Next Steps

- Receive MEPA Scope
- Undertake technical analyses (*Summer 2012 Summer 2013*)
- File ESPR by Fall 2013
- 4 Technical Workshops during fall 2013 comment period
- MEPA Public Hearing
- End of Public Comment for ESPR TBD (extended 60 day review period)
- MEPA Certificate following public review period 2013





Comments



• Comments to MEPA on the Proposed ESPR Scope are due by April 20, 2012

Comments should be addressed as follows:

Maeve Vallely Bartlett, Director

Massachusetts Environmental Policy Act Office (MEPA)

Assistant Secretary for Environmental Review

Executive Office of Energy and Environment Affairs

Commonwealth of Massachusetts

100 Cambridge Street, Boston, MA 02114

