

Introduction

This fact sheet is a summary of the 5th Five Year Review Report for the Otis Air National Guard Base/Camp Edwards Superfund Site which was prepared by the Air Force Civil Engineer Center (AFCEC) and accepted by the U.S. Environmental Protection Agency's (EPA) New England Regional Office on TBD. This site is known as Joint Base Cape Cod (JBCC) and was formerly named the Massachusetts Military Reservation (MMR).

The time period covered in the 5th Five Year Review is October 2012 through September 2017. It is specific to the AFCEC Installation Restoration Program (IRP). The review does not cover source area sites or groundwater plumes in the Impact Area Groundwater Study Program (IAGWSP) located in the northern portion of the base with the exception of Chemical Spill-19 or sites that are undergoing investigation and do not have a Record of Decision. The Army's IAGWSP focuses on the northern portion of JBCC and is addressed in a separate five year review. For more information please visit <http://jbcc-iagwsp.org/>

Otis ANGB was listed on the National Priorities List (NPL) in 1989 (CERCLIS ID – MA2570024487). It occupies over 22,000 acres in portions of the Towns of Bourne, Falmouth, Mashpee, and Sandwich. There are currently seven source areas in the program. 74 have been cleaned up and no longer require a Five Year Review. AFCEC currently operates groundwater cleanup systems for 8 groundwater plumes, monitors an additional 10 plumes (e.g., CS-19, CS-20, CS-4, CS-23, FTA-2/LF-2, PFSA (FS-10 and FS-10), and FS-13) and treats approximately 10 million gallons per day.

The five year review evaluates the implementation and performance of site remedies. Evaluations are based on three technical assessment questions and results in a determination of short- and long-term protectiveness. The three questions are:

- Is the remedy functioning as intended?
- Are exposure assumptions, toxicity data, cleanup levels, and remedial action objectives still valid?
- Has any other information come to light?

The report finds that all JBCC Superfund source areas and groundwater plumes associated with the AFCEC IRP program, with remedies in place, are either protective or protective in the short-term (i.e., there are no immediate threats to human health or the environment) with additional actions needed in order for the remedy to be protective in the long-term.

Where to Find a Copy of the 5th Five Year Review Report

Jonathan Bourne Library
19 Sandwich Road
Bourne, MA 02532
(508) 759-0644

Mashpee Public Library
64 Steeple Street
Mashpee, MA 02649
(508) 539-1435

Falmouth Public Library
123 Katherine Lee Bates Rd.
Falmouth, MA 02540
(508) 457-2555

Sandwich Public Library
142 Main Street
Sandwich, MA 02563
(508) 888-0625

AFCEC's IRP Administrative Record (search under Joint Base Cape Cod):
<http://afcec.publicadmin-record.us.af.mil/Search.aspx>

Site History

The Otis ANGB IRP was established in 1982 leading to numerous soil and groundwater investigations and cleanups in the southern, developed portion of the base. In addition, the military extended public water supply lines in neighborhoods where plumes had affected groundwater underneath homes previously reliant on private wells.

Table 1 on Page 2 lists all the source area sites. Table 2 identifies the groundwater contaminant plumes. For more information on the IRP visit:

<https://www.massnationalguard.org/JBCC/afcec.html>

Summary of the Five Year Review Report

The IRP sites have been divided into three general categories:

- Sites Not Requiring a Five Year Review
- Source Area Sites Requiring a Five Year Review
- Groundwater Sites Requiring a Five Year Review

Note that previous Five Year Review Reports resulted in additional source areas not being required for future reviews. They are listed below along with those identified in the current report (5th Five Year Review), and those still requiring review.

Table 1
Source Areas No Longer Requiring a Five Year Review
and those Requiring a Review

2nd 5 YR Review	LF-3	CS-6	FS-22
CS-2	LF-3 CG	CS-6 CG	FS-25
CS-3	LF-4	CS-11	FTA-1*
CS-3 CG	LF-5	CS-14	FTA-3
CS-5 CG	LF-6	CS-15	SD-1
CS-7		CS-16	SD-2
CS-7 CG	3rd 5 YR Review	CS-17	SD-3
CS-8	CS-1 CG	CY-1	SD-4
CS-9	CS-4	CY-2	SD-5
CS-10 TWOU	CS-8 CG	CY-3	CD-500
CS-12	CS-22	CY-4	OWS C524-6165
FS-2	FS-13	DDOU	
FS-14		FS-1	
FS-15	4th 5 YR Review	FS-1 CG	Review Needed
FS-16	CS-18	FS-2 CG	CS-10/FS-24
FS-17	CS-19	FS-3	LF-1
FS-19	FS-1*	FS-4	FTA-2/LF-2
FS-20	FS-13	FS-5	LF-7
FS-21		FS-6	PFSA
FS-23	5th 5 YR Review	FS-7	
FS-26	CS-1	FS-8	

Key:

- * = Currently being investigated for emerging contaminant under Supplemental RI.
 - CG = U.S. Coast Guard
 - CY = Coal Yard
 - FS = Fuel Spill
 - LF = Landfill
 - PFSA = Petroleum Fuels Storage Area
 - SD = Storm Drain
 - CS = Chemical Spill
 - DDOU = Drum Disposal Operable Unit
 - FTA = Fire-Fighting Training Area
 - OWS = Oil Water Separator
 - TWOU = Tank Wash Operable Unit
- = No future review required
- = Future review required

Table 2
Groundwater Plumes Requiring a Five Year Review

Ashumet Valley	CS-20	FS-12	FTA-2
CS-4	CS-21	FS-13	PFSA
CS-10	CS-23	FS-28	LF-1
CS-19	FS-1	FS-29	SD-5

Key:

- CS = Chemical Spill
 - FS = Fuel Spill
 - FTA = Fire-Fighting Training Area
 - PFSA = Petroleum Fuels Storage Area
 - LF = Landfill
 - SD = Storm Drain
- = Future review required

The Five Year Review covers multiple remedies and operable units in the JBCC cleanup program. Each site was evaluated according to the EPA guidance for Five Year Reviews. Technical assessments were made of every site requiring review to determine the current level of protectiveness of the cleanup actions that have occurred or are occurring at each site.

Next Steps

AFCEC, the U.S. EPA and MassDEP will address future needed actions and recommendations in the coming years. Some of the issues covered in the report relate to additional sampling, further evaluations, emerging contaminants, exposure assessment, and aquifer restoration timeframe clarifications. The next IRP JBCC Five Year Review will be completed in 2022.

Public Involvement

Updates of the IRP sites and plumes are provided to the public at periodic JBCC Cleanup Team meetings. The Team meetings are advertised and open to the public.

A paid advertisement was placed in the Falmouth, Mashpee, Bourne and Sandwich editions of the Enterprise Newspaper announcing the availability of the 5th Five Year Review Report and the fact sheet.

This fact sheet, the Five Year Review and other IRP information, including the Community Involvement Plan, are available on AFCEC's webpage on the JBCC website at:

<https://www.massnationalguard.org/JBCC/afcec.html>

Public Involvement Contacts

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