

AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. §§1251 et seq.; the "CWA", and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§26-53),

**Massachusetts Port Authority**

is authorized to discharge from a facility located at

**Logan International Airport  
Fire Training Facility**

to receiving water named

**Boston Harbor**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This Permit shall become effective on the first day of the calendar month following 60 days after signature.

This Permit and the authorization to discharge expire at midnight, five (5) years from the last day of the month preceding the effective date.

This Permit supersedes the Permit issued on August 31, 2001.

This Permit consists of 6 pages in Part I including effluent limitations, monitoring requirements, and 27 pages in Part II including General Conditions and Definitions.

Signed this 1<sup>st</sup> day of November, 2006

/s/ SIGNATURE ON FILE

Linda M. Murphy, Director  
Office of Ecosystem Protection  
Environmental Protection Agency  
Boston, MA

Glenn Haas, Director  
Division of Watershed Management  
Department of Environmental Protection  
Commonwealth of Massachusetts  
Boston, MA

**PART I****A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

1. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge treated effluent through Outfall Serial Number 001. Such discharge shall: 1) be limited and monitored by the permittee as specified below; and 2) not cause a violation of the State Surface Water Quality Standards of the receiving water.

Effluent Characteristic	Units	Discharge Limitation		Monitoring Requirements <sup>(1)</sup>	
		Average Monthly	Maximum Daily	Measurement Frequency	Sample Type
Flow	gpm	----	60	1/Discharge Event <sup>(2)</sup>	Estimate Total Volume and Maximum Rate <sup>(3)</sup>
Total Suspended Solids (TSS)	mg/L	Report	Report	1/Discharge Event <sup>(2)(4)</sup>	Grab
Oil and Grease (O&G)	mg/L	----	15	1/Discharge Event <sup>(2)(4)</sup>	Grab
Total BTEX	ug/L	----	100	1/Discharge Event <sup>(2)(4)</sup>	Grab
	ug/L	Report	Report	1/Discharge Event <sup>(2)(4)</sup>	Grab
Toluene	ug/L	Report	5.0	1/Discharge Event <sup>(2)(4)</sup>	Grab
Benzene	ug/L	Report	Report	1/Discharge Event <sup>(2)(4)</sup>	Grab
Ethylbenzene	ug/L	Report	Report	1/Discharge Event <sup>(2)(4)</sup>	Grab
Xylene pH	S.U.	----	6.5-8.5 <sup>(5)</sup>	1/Discharge Event <sup>(2)</sup>	Grab
PAHs	ug/L	Report	100	1/Discharge Event <sup>(2)(4)</sup>	Grab

Effluent Characteristic	Units	Discharge Limitation		Monitoring Requirements <sup>(1)</sup>	
		Average Monthly	Maximum Daily	Measurement Frequency	Sample Type
Whole Effluent Toxicity <sup>(7)</sup> 50 Acute LC	%	Report		1/Year <sup>(8)</sup>	Composite <sup>(6)</sup>

**Footnotes:**

1. All samples, except for WET testing, shall be collected after treatment and prior to discharge from above ground holding tank.
2. Flows from more than one training session may be held in treatment train for several weeks. Treatment and subsequent discharge through Outfall 001 is usually triggered by tank levels. Sampling will be conducted during each discharge event with the sampling point after the GAC unit and prior to discharge from the above ground holding tank. Each sample shall be a composite of 3 equally weighted (same volume) grab samples taken at the bottom, middle and top of the above ground tank.
3. Total flow volume shall be reported monthly in gallons and the maximum flow rate in gallons per minute shall be reported for each month.
4. O&G is to be measured using EPA Method 1664. The BTEX and PAH compounds shall be analyzed by EPA approved methods found in Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition or USEPA Manual of Methods of Analysis of Water and Wastes. The testing method used and the method detection level (MDL) for each parameter tested shall be included with each DMR submittal.
5. See Part I.A.3., Page 4, for the pH limitations.
6. A composite sample is a sample consisting of grab samples collected at hourly intervals (two minimum) during a normal discharge.
7. The permittee shall conduct one acute toxicity test per year. The test results shall be submitted by the last day of the full month following completion of the test. The test must be performed in accordance with test procedures and protocols specified in Attachment A to this Permit.
8. Sampling frequency of 1/Year is defined as the sampling of one (1) discharge event in each calendar year, when discharge occurs. A year is defined as the interval of time between the months of: January through December, inclusive.

**Part I.A. (Continued)**

2. The discharge shall not cause a violation of water quality standards of the receiving waters.
3. The pH of the effluent shall not be less than 6.5 or greater than 8.5 at any time unless these values are exceeded as a result of natural causes or as a result of the approved treatment processes. The pH of the water may be adjusted to meet this effluent limit, prior to carbon treatment.
4. The discharge shall not cause objectionable discoloration of the receiving waters.
5. The discharge shall not contain a visible oil sheen, foam, or floating solids at any time.
6. All existing manufacturing, commercial, mining and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
  - a. That any activity has occurred or will occur which would result in the discharge, on a routine basis, of any toxic pollutant which is not limited in the Permit, if that discharge will exceed the highest of the following “notification levels”:
    - (1) One hundred micrograms per liter (100 ug/l);
    - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
    - (3) Five (5) times the maximum concentration value reported for that pollutant in the Permit application in accordance with 40 C.F.R.§122.21(g)(7); or
    - (4) Any other notification level established by the Director in accordance with 40 C.F.R.§122.44(f).
  - b. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant which is not limited in the Permit, if that discharge will exceed the highest of the following “notification levels”:
    - (1) Five hundred micrograms per liter (500 ug/l);
    - (2) One milligram per liter (1 mg/l) for antimony;
    - (3) Ten (10) times the maximum concentration value reported for that pollutant in the Permit application in accordance with 40 C.F.R.§122.21(g)(7); or

- (4) Any other notification level established by the Director in accordance with 40 C.F.R. §122.44(f).
- c. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the Permit application.
7. The permittee shall properly maintain all elements of its treatment system, including the timely replacement of its GAC unit components.
8. This permit may be modified, or revoked and reissued, on the basis of new information in accordance with 40 CFR §122.62.
9. The permittee shall notify the Massachusetts Division of Marine Fisheries Shellfish Management Program 48 hours prior to a discharge event via email (preferred) or fax.

**B. MONITORING AND REPORTING**

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report Form(s) postmarked no later than the 15th day of the month following the effective date of the Permit.

Signed and dated originals of these, and all other reports required herein, shall be submitted to EPA at the following address:

Environmental Protection Agency, Region 1  
Water Technical Unit (SEW)  
P.O. Box 8127  
Boston, Massachusetts 02114

Signed and dated Discharge Monitoring Report Form(s) and all other reports required by this Permit shall also be submitted to the State at the following addresses:

Massachusetts Department of Environmental Protection  
Northeast Regional Office  
Bureau of Waste Prevention  
205B Lowell Street  
Wilmington, Massachusetts 01887

and

Massachusetts Department of Environmental Protection  
Division of Watershed Management  
Surface Water Discharge Permit Program  
627 Main Street, 2nd Floor  
Worcester, Massachusetts 01608

The DMR cover letter only shall also be sent to:

Massachusetts Division of Marine Fisheries Shellfish Management Program  
30 Emerson Avenue  
Gloucester, MA 01930  
Attention: Supervising Shellfish Biologist

And notification 48 hours prior to a discharge event shall be sent:

via email: [Shellfish.Newburyport@state.ma.us](mailto:Shellfish.Newburyport@state.ma.us)

or

via FAX: (616) 727-3337  
Attention: Shellfish Management Program

### **C. STATE PERMIT CONDITIONS**

This discharge Permit is issued jointly by the EPA and the MassDEP under Federal and State law, respectively. As such, all the terms and conditions of this Permit are hereby incorporated into and constitute a discharge Permit issued by the Commissioner of the MassDEP pursuant to M.G.L. Chap. 21, §43.

Each Agency shall have the independent right to enforce the terms and conditions of this Permit. Any modification, suspension or revocation of this Permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this Permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation. In the event any portion of this Permit is declared, invalid, illegal or otherwise issued in violation of State law such Permit shall remain in full force and effect under Federal law as a NPDES Permit issued by the U.S. Environmental Protection Agency. In the event this Permit is declared invalid, illegal or otherwise issued in violation of Federal law, this Permit shall remain in full force and effect under State law as a Permit issued by the Commonwealth of Massachusetts.