

ACCEPTED  
4/27/98  
JAV

IBM

Steve

International Business Machines Corporation

522 South Road  
Poughkeepsie, NY 12601

**RECEIVED**  
NYSDEC

April 9, 1998

**APR 21 1998**

BUREAU OF  
HAZARDOUS WASTE FACILITIES  
DIVISION OF SOLID &  
HAZARDOUS MATERIALS

Mr. Edwin Dassatti  
Bureau of Hazardous Waste Facilities  
Division of Solid and Hazardous Materials  
New York State Department of  
Environmental Conservation  
50 Wolf Road, Room 460  
Albany, New York 12233-7252

**Re:** *Final Report: RCRA Facility Assessment - Sampling Visit Work Plan  
SWMU Number 98, B006 Truck Crib Sump  
IBM Poughkeepsie RCRA Permit No. 3-1346-00035/00123*

Dear Mr. Dassatti:

As specified in the referenced RCRA Permit [Module III, E.2(c)], the NYSDEC approved RFA-SV Work Plan describing the procedures to evaluate the integrity of the B006 Truck Crib Sump, SWMU Number 98 has been completed.

The objective of the approved procedure was to verify that the sump and collection well are watertight and therefore no leakage occurs to underlying soil. Appendix III-F of the Permit specifies the outline for the integrity tests.

The results of the test indicate that the Building 006 Truck Crib Sump is structurally sound and watertight. Enclosed please find a copy of the Professional Engineer certified report documenting the test results, along with a description of the actual testing procedures. If you need additional information or have any questions, please call Mr. Stephen Brannen at (914) 433-1509.

Very truly yours,



Joseph Ferri,

Manager of Environmental Health & Safety Programs

enc.

**Lawler,  
Matusky  
& Skelly  
Engineers LLP**

Environmental Science & Engineering Consultants

JOHN P. LAWLER, P. E.  
MICHAEL J. SKELLY, P. E.  
KARIM A. ABOOD, P. E.  
PATRICK J. LAWLER, P. E.  
THOMAS L. ENGLERT, P. E.  
PETER M. MCGRODDY, P. E.  
THOMAS E. PEASE, P. E.  
THOMAS B. VANDERBEEK, P. E.

Principal  
SUSAN G. METZGER, Ph.D.

ONE BLUE HILL PLAZA  
P. O. BOX 1509  
PEARL RIVER, NEW YORK 10965  
(914) 735-8300  
FACSIMILE (914) 735-7466

April 10, 1998  
File: 680-045

Joseph Ferri, Manager  
Environmental Health & Safety Programs  
IBM Corporation  
522 South Road  
Poughkeepsie, New York 12601

*Re: B006 Truck Crib Hydrostatic Testing*

Dear Mr. Ferri:

Enclosed please find the Professional Engineer certified report for the hydrostatic test performed at the Building 006 truck crib sump. This testing was performed as described in the February 18, 1998 letter from you to Edwin Dassatti, NYSDEC *Re: RCRA Facility Assessment - Sampling Visit Work Plan; SWMU No. 98, B006 Truck Crib Sump; IBM Poughkeepsie RCRA Permit No. 3-1346-00035/00123.*

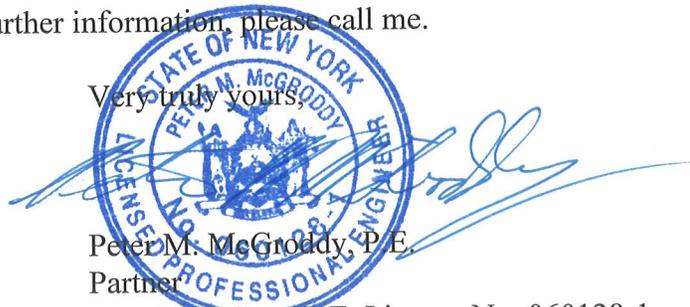
The results of the test indicate that the B006 truck crib sump is structurally sound and watertight.

If you have any questions or require further information, please call me.

Very truly yours,

Peter M. McGroddy, P.E.  
Partner

New York State P.E. License No. 060128-1



**HYDROSTATIC TEST  
B006 TRUCK CRIB SUMP**

**Date:** March 27, 1998

**Time:** 1200-1900

**Location:** Northwest corner of B006, SWMU Number 98

**Personnel:** Barry Babcock and Charles Lutomski - Lawler, Matusky & Skelly Engineers  
LLP (LMS)  
Karen Maloy - Grubb & Ellis Management Services, Inc. (G&E)

**Objective:** To provide a documented and certified evaluation of the integrity of the B006  
Truck Crib Sump.

**NYSDEC Approved Test Procedure:**

1. Prior to commencing the test procedure, washing operations in the area will be stopped for the duration of the test period when the sump is deactivated.
2. The sump will be emptied completely and dried by pumping and wet vacuum if necessary.
3. Any residue or coating on the walls or floors will be cleaned and removed by washing and/or steam cleaning if necessary. After surfaces are cleaned, the interior will be visually inspected for any surface defects or visible leakage areas. Any visible defects will be documented prior to testing.
4. The transfer pump system will be deactivated and the sump and well will be filled to the level of the grate surface with city water. The initial water level will be measured from a reference point with an accuracy of  $\pm 2$ mm. The water will be left standing for one hour to stabilize (i.e. saturate the concrete surfaces), after which the level will be measured and water added to bring the level to the original high level if necessary. The water will be left standing for an additional one hour, with measurements every 15-minutes. If the level is stable ( $\pm 2$ mm) after one hour, the test will be concluded. If the level has changed more than  $\pm 2$ mm, the test will be extended for two hours to document the rate of change. In the event of water loss, depending on the observations of the test crew and the rate of water level drop, the test may be continued to determine if a stable level is achieved. This may indicate the level of a possible leak and provide useful information for assessing leakage rates and possible remedial actions.

The results of the tests will be documented in a report, along with a description of the actual testing procedures. The report will describe and assess any leaks, if found, and provide

estimates of leakage under normal operating conditions. If necessary, corrective measures will be recommended. The report and test results will be certified by a Professional Engineer.

**Methods:** The B006 Truck Crib Sump grates were removed by G&E Industrial Waste Treatment Plant personnel prior to cleaning. After removal of the grates, LMS personnel began the cleaning procedure by shovelling the heavier bottom sludge into a 55 gallon open top steel drum. Approximately 30 gallons of sludge were removed. Drums and absorbent material were provided by G&E and staged at the area. After removal of the sludge, the sump was steam cleaned using a soap solution and rinsed with clean water. The steam cleaning and rinse were repeated a second time to remove any oily residues.

The concrete walls and floor of the sump were visually inspected for cracks or defects. No defects or abnormalities were found (see Figure 1).

Before the main test, the central sump collection area was filled with water and tested. It held a steady water level for 45 minutes with no loss. The entire sump area was then filled with water to the level of the grate surface. The concrete was judged to be sufficiently saturated with water and the test was started immediately.

The entire sump area held a steady water level with no loss for one hour (see Table 1). Testing was terminated at 1755.

**Results:** It was determined that the B006 Truck Crib Sump is structurally sound and watertight.

**TABLE 1**

**B006 TRUCK CRIB SUMP HYDROSTATIC TEST - 3/27/98**

<b>Test Duration - Minutes</b>	<b>Inches - From Top of Steel Beam</b>
Start Test 1655 - 00	.25
15	.25
30	.25
45	.25
End Test 1755 - 00	.25

# FIGURE 1

## B006 TRUCK CRIB SUMP HYDROSTATIC TEST - 3/27/98

