

N00210.AR.000952  
NSTC GREAT LAKES, IL  
5090.3a

RESULTS OF TANK TESTING CONDUCTED ON TANKS 21-T-7, 21-T-9, 23-T-9, 23-T-10, 23-T-12 WITH TRANSMITTAL FORT SHERIDAN IL

8/10/1993  
U S ARMY

57

5090  
Ser FAC3B/003497  
10 AUG 93

Illinois Environmental Protection Agency  
Division of Land Pollution Control  
Leaking Underground Storage Tank Section  
2200 Churchill Road  
P.O. Box 19276  
Springfield, Illinois 62794-9276

Dear Sir/Madame:

As an owner/operator of an Underground Storage Tank (UST) Site, Naval Training Center (NTC) Great Lakes is enclosing required documentation of results of tank testing conducted by IEPA/EPA certified contractors on tanks 21-T-7, 21-T-9, 23-T-9, 23-T-10, and 23-T-12. Results show that these USTs are not potential leak hazards. These tanks are located near Buildings 324, 329 and 2710 at NTC, Great Lakes. Incident numbers 922931, 922928 and 922929 refer.

If we can be of any further assistance, please do not hesitate to contact my office at 708-688-3482, or Mr. Edward J. Bickel, Code FAC3B, of my staff at 708-688-4295.

Sincerely,

Original Signed

D. J. SMITH  
Lieutenant (Junior Grade), CEC, USN  
Staff Civil Engineer  
By direction of the Commander

Enclosure:  
Certification of Tank Tests

Blind Copy to:  
SOUTHNAVFACENGCOM Charleston (Code 184)  
→ PWC Great Lakes (Code 30E)  
SERVSCOLCOM Great Lakes  
NAVEX Great Lakes



**RISK MANAGEMENT CORPORATION**  
**ENVIRONMENTAL SERVICES**

April 26, 1993

Navy Exchange  
 Bldg. 2710 BPA (116-956)  
 Great Lakes, IL 60088

RE: Test # : 930423

Test Date : April 23, 1993

Station : Navy Exchange, 2710 Merinian, Great Lakes, IL  
 60088

To Whom It May Concern:

A tank integrity test was performed on the above storage tanks using the LEAK COMPUTER SYSTEM. This test was performed in accordance with the precision test requirements of NFPA-329-87. The criteria for acceptable tank integrity allowed by this test procedure is based upon a leak detection limit of 0.05 gallons per hour, for tanks having a capacity of up to and including 12,500 gallons, and a consideration of other variable factors.

The results of the tests are given below and indicated whether the tanks, and the tanks with the associated piping, passed or failed the integrity criteria.

Included is the computer printout of the test data, indicating the average leak rate and the confidence level as shown at the end of each strip chart. This information is stored in a permanent file if future verification is needed to confirm the tank integrity at the time of the test.

TANK TEST RESULTS

GRADE	VOLUME (GAL)	HIGH LEVEL LEAK RATE (GPH/INCHES)	LOW LEVEL LEAK RATE (GPH/INCHES)	PIPING	TANK
Special	10,000	.021 at 35	---	Pass	Pass

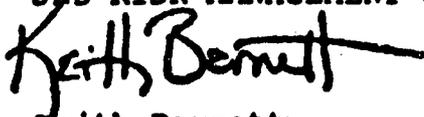
Navy Exchange  
Page 2  
April 26, 1993

PRODUCT LINE TEST

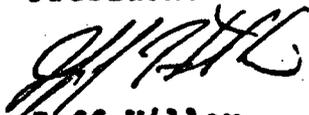
<u>GRADE</u>	<u>VOLUME (GAL)</u>	<u>PRESSURE (PSI)</u>	<u>TIME (MIN)</u>	<u>LEAK RATE (GPH)</u>	<u>RESULTS</u>
Special	10,000	---	---	---	No Test

Sincerely,

JND RISK MANAGEMENT CORPORATION



Keith Barnett  
President



Jeff Hiller  
Tank Testing Engineer

JH/mk

Enclosure(s)



**RISK MANAGEMENT CORPORATION**  
ENVIRONMENTAL SERVICES

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July 23, 1993

Navy Exchange  
Ed Bickell  
Bldg. 5  
Fac. 3B  
Great Lakes, IL 60088

Dear Mr. Bickell:

The following are the certification numbers that you requested:

ACUTEST CERT # A/P 045

I.E.P.A. REGISTRATION # 362932459

These are being made available for your files.

Sincerely,

Keith Barnett  
Service Manager

A handwritten signature in black ink, appearing to read 'Keith Barnett', written over a horizontal line.

KB:sd



**CERTIFICATION**

Job Number : 210197

Date : 06/03/93

Location: Great Lakes Naval Training Ctr.  
Great Lakes, IL

<b>TANK #</b>	<b>PRODUCT</b>	<b>SIZE(gal)</b>	<b>TRACER</b>	<b>LEAK STATUS</b>
Tank 1-23-T-10	Diesel	3,600	C	Pass
Tank 2-23-T-9	Waste Oil	3,600	B	Pass
Tank 3-23-T-12	Diesel	2,200	B	Pass
Tank 4-21-T-9	Gas	20,000	D	Pass
Tank 5-21-T-7	Gas	10,000	A	Fail

Tracer Research Corporation certifies that the tanks listed in the above table have been tested by means of Tracer Tight®, which meets the criteria set forth in NFPA 329 for a precision leak test. According to EPA standard test procedures for evaluating leak detection methods, the Tracer Tight® method is capable of detecting leaks of 0.05 gallons per hour with a Probability of Detection (P<sub>D</sub>) of 0.97 and Probability of False Alarm (P<sub>FA</sub>) of 0.029.

Submitted by:

*Carolyn Norby*  
 Carolyn Norby  
 Tracer Research Corporation

Testers State License Number: 363831777

The following criteria are used for the classification of leakage based on the presence or absence of tracer.

**PASS**

Criteria:

No tracer detected

**FAIL**

Criteria:

tracer detected



**CERTIFICATION**

Job Number : 210197

Date : 06/03/93

Location: Great Lakes Naval Training Ctr.  
Great Lakes, IL

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