

Underground Tanks at Volk Field, Camp Williams and Hardwood Range

Bldg./Site No.	UID#	Location and Contaminant	Closure Status (as of 04/11/02)
Bldg. 12, site 1	03-29-000014	Camp Williams (2) 8000 gal. gasoline tanks	closed 02/21/97
Bldg. 12, site 2	03-29-152494	Camp Williams (1) 5000 gal. gasoline tanks	closed 03/12/98
Bldg. 15, site 1	03-29-001031	Camp Williams	closed 07/20/94
Bldg. 15, site 2	03-29-152484	Camp Williams Bldg. 15, SI 09/12/97; Rem. Design 05/01/00; closure request rec'd 10/23/03; this site had (1) 5000 gal. diesel; (1) 2000 gal. heating oil; and (1) 2000 gal. unleaded tanks removed	closed June 28, 2004
Bldg. 17	03-29-000349	Camp Williams, removed 6000 gal. fuel tank, confine investigation to tank area	closed c/PAL exemp. 07/23/97
Bldg. 18	03-29-513838	Camp Williams, 2000 gal. heating oil	closed 05/22/96
Bldg. 19	03-29-513831	Camp Williams, 5000 heating oil	closed 09/11/96
Bldg. 23	03-29-001304	Camp Williams heating oil, diesel #2, 1500 gal. (add to BRRTS)	closed 09/29/97
Bldg. 28	03-29-099636	Camp Williams, 100 gal. leaded gasoline tank	closed 05/30/96
Bldg. 100		500 gal. tank, no detects	removed in 1991, NFRAPed
Bldg. 102		500 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 113		500 gal. #2 tank, no detects	removed in 1991, NFRAPed
Bldg. 115		2000 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 117		500 gal. #2 diesel tank, detects of TPH diesel at 267 ug/g	removed in 1991, NFRAPed
Bldg. 121		500 gal. tank, no detects	removed in 1991, NFRAPed
Bldg. 122		2000 gal. tank, no detects	removed in 1991, NFRAPed
Bldg. 125		500 gal. #2 diesel tank, detects of TPH diesel at 40,500 ug/g	removed in 1991, NFRAPed
Bldg. 126		300 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 127 and 128		560 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 129 and 130		560 gal. #2 diesel tank, detects of toluene 3.6 ng/g	removed in 1991, NFRAPed
Bldg. 131 and 132		560 gal. #2 diesel tank, detects of TPH diesel at 1,370 ug/g	removed in 1991, NFRAPed
Bldg. 134		500 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 135		500 gal. #2 diesel tank, no detects but some soil staining	removed in 1991, NFRAPed
Bldg. 136		500 gal. #2 diesel tank, no detects but some soil staining	removed in 1991, NFRAPed
Bldg. 138		560 gal. #2 diesel tank, some contamination	removed in 1991, NFRAPed
Bldg. 302		500 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 309		500 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 313		500 gal. tank, no detects	removed in 1991, NFRAPed
Bldg. 316	03-29-113841	560 gal. #2 diesel tank, no detects	closed 10/09/91
Bldg. 324	03-29-099638	Volk Field, 10,000 gal. #2 diesel tank (waste oil)	closed 06/30/96
Bldg. 329	03-29-112003	Volk Field, 6000 gal. #2 diesel tank	closed 11/15/96

Bldg. 398	03-29-099646	Volk Filed, removed 10,036 gal. leaded gasoline tank	closed 05/30/96
Bldg. 398	03-29-099642	Volk Field, 500 gal. leaded gasoline	closed 05/30/96
Bldg. 398	03-29-099650	Volk Field, 10,000 gal. diesel fuel tank	closed 05/30/96
Bldg. 400	03-29-113840	1000 gal. #2 diesel tank, detects of TPA diesel at 2,400 ug/g	removed in 1991, NFRAPed
Bldg. 401		500 gal. #2 diesel tank, some stained soil	removed in 1991, NFRAPed
Bldg. 403	03-29-113839	Volk Field, 500 gal. #2 diesel tank	closed 02/21/97
Bldg. 414		500 gal. #2 diesel tank, some fuel oil stained soil	removed in 1991, NFRAPed
Bldg. 415		500 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 428		500 gal. #2 diesel tank	removed in 1991, NFRAPed
Bldg. 433		500 gal. #2 diesel tank, detects of TPH diesel at 8,920 ug/g	removed in 1991, NFRAPed
Bldg. 449	03-29-099648	Volk Filed, 6000 #2 diesel tank	closed 05/30/96
Bldg. 508		1000 gal. #2 diesel tank, detects of TPH diesel at 53.5 ug/g	removed in 1991, NFRAPed
Bldg. 509	03-29-099652	Volk Field, 1000 leaded gas tank	closed 05/30/96
Bldg. 510	03-29-099654	Volk Field, 4000 gal. leaded gasoline	closed 05-30-96
Bldg. 510	03-29-099656	Volk Field, 500 gal. #1 diesel fuel tank	closed 05-30-96
Bldg. 520		1000 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 522 & 523		1000 gal. #2 diesel tank, detects of TPH diesel at 288 ug/g	removed in 1991, NFRAPed
Bldg. 525		500 gal. #2 diesel tank, no detects	removed in 1991, NFRAPed
Bldg. 526		500 gal. #1 diesel tank, detects of TPH diesel at 240 ug/g and #2 500 gal. diesel tank	removed in 1991, NFRAPed
Bldg. 528	03-29-099658	Volk Filed, 500 gal. #1 diesel fuel tank	closed 05-30-96
Bldg. 530	03-29-099660	Volk Field, 500 gal. #1 diesel tank	closed 05/30/96
Bldg. 531	03-29-113842	Volk Field, 560 gal. #2 diesel tank	closed 10/30/91
Bldg. 601	03-29-111986	Volk Field 500 gal. #1 diesel tank	closed 10/15/96
Bldg. 613	03-29-001106	Volk Field, removed 300 gal. #2 diesel tank	closed c/gw use restr.07/23/97
Bldg. 616	03-29-152331	Volk Field, removed 300 gal. #2 diesel tank	closed c/gw use restr.06/23/94
Bldg. 907		450 gal. #2 diesel tank	removed in 1991, NFRAPed
Bldg. 908		500 gal. #1 diesel tank, some detects and 560 gal. #2 diesel tank	removed in 1991, NFRAPed
Bldg. 916		500 gal. #2 diesel tank, detects of TPH diesel at 139 ug/g, stained fuel oil soil	removed in 1991, NFRAPed
Bldg. 932	03-29-099662	Volk Field, removed 6000 gal. fuel oil tank	closed 05/30/96
Bldg. 950	03-29-099664	Volk Field, 500 gal. #1 diesel tank and 6000 gal. #2 diesel tank	closed 05/30/96
Bldg. 2000	03-29-099666	Volk Field, 300 gal. #2 diesel tank (550 gal. #1 diesel)	closed 05/30/96
A-4 Crash site	02-29-250442	A-4 Crash site	closed 02/11/94
Site 1	02-29-249438	Volk Field, Fire Training Area, estimated 266,500 gals. Fuel dumped, continue monitoring	in phytoremediation as of 05/2004
Site 2	02-29-250433	Volk Field, Former Landfil C, (municipal waste, hydrocarbons, fuels, demolition debris)	continue monitoring closed 7-20-01
Site 3	02-29-250434	Volk Field, noted as Sites 3/6, Chronic AST fuel spill area, continue monitoring	closed c/gw & soil restrict.12/09/04
Site 6	02-29-257894	Volk Field, JP-4 fuel spill (75 to 100 gals.) combined with Site 3 (continue monitoring)	closed c/gw & soil restrict.12/09/04

Site 4	02-29-250435	Volk Field, Transformer Fluid Disposal site (10 transformers emptied on ground 1967 or '68)	closed 05/08/97
Site 5	02-29-250436	Volk Field, KC97 crash site in 1978, 2000 to 5000 gal. of JP-4 released and burned ~50%	closed 05/08/97
Site 7	02-29-000038	Volk Field, Former Landfil A, continue monitoring	potential NFRAP <i>closed 2-22-06 NFA</i>
Site 8	02-29-250589	Volk Field, F-84 crash site in 1964 at end of east runway at Volk Field	closed 05/08/97
Site 9	02-29-250437	Volk Field, Former Landfill B	NFRAPed by close com. 04/12/98
Site 11	02-29-250438	Electron Tube Disposal site	closed 01/22/98
Site 12	02-29-250439	Oiled Roads and Parking Lot sites	closed 01/22/98
Site 13	02-29-181505	Ethylene Glycol Discharge area, conduct gw monitoring	NFRAPed by close com. 03/12/2001
Site 15	02-29-250440	Sanitary Wastewater System Ponds	closed 01-01-98
Site 16	02-29-181504	Bromochloromethane spill	NFRAPed by close com. 03/12/2001
Site 17	02-29-250441	Transformer Fluid spill, monitor gw	closed 05/08/97
Site 18	03-29-000559	WANG Hardwood Range, 560 gal. diesel & 1000 gal. unlead gas moved to Site 10 on 07/28/93	NFRAPed by close com. 11/15/96
Site 14	02-29-181499	WANG Hardwood Range, Small Solid Waste dump for household waste	NFRAPed by close com. 03/12/2001
Site 10	02-29-250590	WANG Hardwood Range, Munitions Burial site	open - planning to excavate munitions <i>NFA 4-12-01</i>
A-10 Crash site	02-29-000245	WANG A-10 Crash site in Neceedah wetlands in 1991 (02-29-001053)	closed 07/16/97
A-10 Crash site	02-29-001053	A-10 crash site at Hardwood Range	closed ????
Alert Hanger Area	04-29-047788	50-100 gals/JP-4 leak from transport truck on 10--29-92	
Motor Pool		1,500 gal. #1 diesel tank, unknown	
Motor Pool		2,000 gal. waste oil tank, unknown	
Motor Pool		10,036 gal. tank, MOGAS regular, good	
Motor Pool		5,264 gal. tank, MOGAS regular, good	
AGE Fueling Station		1,200 gal. tank MOGAS regular, good	
Hardwood Gun Range		550 gal. tank MOGAS regular, good	
Hardwood Gun Range		550 gal. #1 diesel tank, unknown	
POL Area		25,000 gal. tank AVGAS, good	
POL Area		2,000 gal. waste fuel tank, unknown	
POL Area		17,062 gal. #2 diesel, good	
POL Area		9,994 gal. #2 diesel, good	
POL Area		11,750 gal. #2 diesel, good	
Bldg. 17		6,000 gal. #2 diesel, unknown	
Bldg. 116		500 gal. #2 diesel, unknown	
Bldg. 133		300 gal. #2 diesel tank, unknown	
Bldg. 137		560 gal. #2 diesel, unknown	
Bldg. 300		500 gal. #2 diesel, unknown	
Bldg. 325		1,000 #2 diesel, unknown	

Bldg. 331		550 gal. #2 diesel, unknown
Bldg. 503		4,000 gal. #2 diesel, unknown
Bldg. 504		6,000 gal. #2 diesel, unknown
Bldg. 517		550 gal. #2 diesel, unknown
Bldg. 601		500 gal. #1 diesel tank, unkown
Bldg. 933		500 gal. #1 diesel tank, unkown
Bldg. 2013		300 gal. #1 diesel tank, unknown
Bldg. 2016		300 gal. #1 diesel tank, unknown
Bldg. 2020		550 gal. #2 diesel, unknown
Camp William's		
Not on 1884 list		
On 1884 list		
Unsure of BRRT's #		
Unknown additions		



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary

Wisconsin Rapids Area Headquarters
473 Griffith Avenue
Wisconsin Rapids, WI 54494
TELEPHONE 715-421-7800
FAX 715-421-7830

September 24, 1996

NCD UID # Various

Captain David Beck
WI Air National Guard
100 Independence Drive
Camp Douglas, WI 54618

SUBJECT: Status of Site Closure Requests

Dear Captain Beck:

The purpose of this letter is to update you on the status of various submittals that the Department has received both under the Remediation and Redevelopment, and, the Leaking Underground Storage Tank Programs. We discussed most of these comments and concerns by telephone on September 16, 1996.

* The following LUST areas (sites) will be submitted to the closure committee for closeout review and consideration:

Buildings 329 and 601, NCD UID #s to be assigned.

* The following LUST areas need additional work and/or monitoring:

Building 17 LUST (NCD UID #349), Building #613 LUST (NCD UID #1106), and Building #616 LUST (NCD UID # to be assigned).

Your consultant has recommended additional monitoring of these areas as well as inclusion of additional monitoring parameters in specific water supply wells. These recommendations were made in the "Report Subsurface Investigation and Remedial Action Plan", dated May 1996, prepared and submitted by Dames & Moore.

I have the following comments to make on that report and the recommendations:

- 1) The monitoring plan list on page 15 should include MW 613B along with the other points recommended, which are, MWs 17B, 613A, & 616C.

- 2) The report recommends inclusion of PAHs & DRO to the list of parameters for the high capacity water supply wells at buildings 28 & 319. Specific contaminant parameters that are being detected at the contamination areas should be added to the list. General parameters such as DRO do not have a groundwater or drinking water standard, so don't provide much information other than as an indicator parameter.
- 3) I think that the reference made to 17C on the top of page 9 should be 17B.

Also, Building 531 (NCD UID # to be assigned) required additional investigation as outlined in the UST Investigation Work Plan dated July 1996, prepared and submitted by Montgomery Watson. We understand that the field investigation work has been completed and a report with the findings will be submitted for review.

* Your request for closure of the UST site (NCD UID #559) and the A-10 crash site, both at the Hardwood Range, have been received. I am trying to locate the appropriate files as I have not been involved with these sites historically. It would appear from the letters we received on January 22, 1996 regarding these sites, that these sites are ready for closure. I will need to look at the files and discuss these sites with Lisa (Hrubesky) Gutknecht.

* With regard to the Installation Restoration Program (IRP) site reports prepared by your ANG Environmental Division and received June 4, 1996, we discussed the following comments:

- 1) The F84 crash site has some lead contamination, but it looks like from a preliminary review that this site can be submitted for closure as the levels are below NR 720, Wisconsin Administrative Code (WAC), soil cleanup standards.
- 2) The Former Landfill A site has NR 140, WAC, groundwater enforcement standard (ES) exceedances for arsenic and cadmium. This area needs to be further investigated to determine the extent and degree of contamination and potential threats to human health and the environment.
- 3) The KC-97 crash site has lead levels at a maximum of 100mg/kg. The NR 720, WAC, soil cleanup levels are 50/500 for nonindustrial/industrial. It would depend on how this area is classified for use as far as which standard would be used.

There is also xylene contamination at 2100 mg/kg, exceeding the NR 720, WAC, soil cleanup standard of 4100 ug/kg, and toluene at 1900 mg/kg,

exceeding the cleanup standard of 1500 ug/kg. These levels must be further investigated and/or remediated.

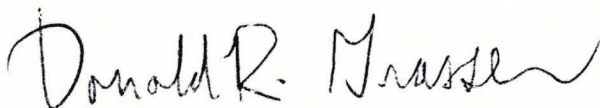
- 4) The transformer disposal area showed no detections, however, only one sample of the 18 sample locations was at 8.5 feet. All of the others were limited to the 1.0-3.5 feet range. In addition, there were no groundwater samples taken for analyses.

My concern is that the samples collected during the investigations may not adequately address the extent and degree of potential contamination because they were limited to the shallow soils, especially if there was fill material placed over the original ground surface on which the transformers and/or fluid was placed or disposed.

- 5) The Former Landfill C has NR 140, WAC, groundwater PAL exceedances for metals, and, NR 720, WAC, soil standard exceedances for arsenic and lead. There were also a number of semi-volatile compounds detected in the soils which do not presently have established NR 720 standards. Those compounds have to have site specific clean-up standards developed as per NR 720.

If you have any questions regarding this letter, or, would like to discuss these comments further, you may contact me at 715/421-7840. For Internet users my address is: SMTP%"grassd@dnr.wi.state.us".

Sincerely,



Donald R. Grasser, P.E.
Waste Management Engineer

pc: Gary Kulibert, NCD
Lisa Gutknecht, Wausau
Mike Netzer, DSMOA Liason, SW/3, Madison
FILE



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Dale T. Urso, District Director

North Central District Headquarters
PO Box 818, 107 Sutliff Ave.
Rhineland, WI 54501-0818
TELEPHONE 715-365-8900
FAX 715-365-8932
TDD 715-365-8957

May 30, 1996

NCD UID #: 03-29-099636

Mr. David Beck
Captain, WI Air National Guard
100 Independence Drive
Camp Douglas, WI 54618

Subject: Volk Field Bldg 28 100-Gal Leaded Gas Tank, Camp Douglas, WI

Dear Captain Beck:

The Department of Natural Resources provided a notice to you that the degree and extent of gasoline contamination at the above-named site was required to be investigated and remediated. We have since been informed that the required investigation and remediation has been accomplished.

On May 22, 1996 the above-named site was reviewed by the North Central District Closeout Committee for a determination as to whether or not the case qualified for close out under ch. NR 726, Wis. Adm. Code.

Based on the investigative and remedial documentation provided to the Department, it appears that the gasoline contamination at the above-named site has been remediated in compliance with the requirements of chs. NR 700 to 724, Wis. Adm. Code. Therefore, the Department considers the case "closed," having determined that no further action is necessary at the site at this time. However, the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare or the environment.

If you have any questions, please call me at 715-365-8990.

Sincerely,
NORTH CENTRAL DISTRICT

Janet Kazda
North Central District Closeout Committee

→ cc: File
J P Walker, Dames & Moore, 2701 International Ln, Suite 210, Madison, WI 53704

Bldg 28

X

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
NORTH CENTRAL DISTRICT
Case Summary and Close-Out

(FOR DEPARTMENT USE ONLY)

Reviewers	Approval Signature for Closure	Date
Chuck Fitzgerald		
Chuck Weister	<i>Chuck Weister</i>	5/21/96
Scott Watson	<i>Scott Watson</i>	5/21/96
Connie Antonuk	<i>Connie Antonuk</i>	5/12/96

*only on sites with wells within 1,200 feet

DNR PROJECT MANAGER: Don Grasser and/or Lisa Gutknecht
CLOSURE PREPARED BY: Don Grasser DATE: 4/17/96
COMPANY NAME: WDNR

IF PREPARED BY NON-DEPARTMENT STAFF, PLEASE COMPLETE THE FOLLOWING INFORMATION.

Affiliation with responsible party: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone Number: _____

GENERAL SITE INFORMATION:

Case/FID#/UID#: 03-29-099636 (Building 28, 100 gal. leaded gas tank)
(Assign)
Site Name: Volk Field, Camp Douglas
Address: 100 Independence Drive (various buildings on base)
City: Camp Douglas State: WI Zip: 54618
Legal Description: 1/4, 1/4, Sec 17, R 2 (E) (All or part of sections 14, 15, 16, 17, 20, 21, 22, 23, 27, and 28)
Tnshp/Vill/City: Township of Orange
County: Juneau

Site Contact: David A. Beck, Captain, Wisc. Air National Guard
Address: 100 Independence Drive
City: Camp Douglas State: WI Zip: 54618
Phone Number: 608-427-1441

Date of Incident: Various Date Reported: Various

Contamination Type (General Description): None detected for this gasoline tank.
* Note: DRO sampling, not GRO sampling was used.

GENERAL SITE INFORMATION (CONT.):

Amount Released: None reported

Department Permits Closed Out? Yes No Not Applicable

Enforcement Actions Closed Out? Yes No Not Applicable

9/93, RT

Geologic Setting (General Description) Fine to coarse-grained sandstones with interbedded shales overlain by unconsolidated sand, silt and minor amounts of clay. Cambrian sandstone is at depth and exposed from uplift during Permian Period, creating the bluffs at this location.

Depth to Groundwater: 0 to 35 feet the sandstone - granites & undiff. igneous & meta. rock

Was Contamination Present In (Soils, Groundwater, Other) Before Remediation: No

DEGREE OF CONTAMINATION FOR SOILS

WAS SOIL CONTAMINATION PRESENT? YES NO (If no, continue to groundwater section)

Extent Defined (Yes, No):	
Analysis (Lab, Field, No Data): (If no data available, please explain)	<u>See attachments</u>
Number of Sample Points: <u>2</u>	Number of Sampling Rounds: <u>1</u>
Background Levels:	
Analysis Attached (Yes, No):	
Remedial Action Taken: <u>None DRO < 100 ppm (N.D.)</u> <u>No detects</u>	
Excavated Soils Final Disposal Method:	
Final Disposal Location:	
Soil Disposal Form Completed : Yes _____, No. _____ (PLEASE ATTACH COPY)	

SOIL (Complete below or attach data)

NOTE: If analytical methods other than those outlined in the current L.U.S.T. Analytical Guidance are used, please note the information below.

Contaminant	Pre-remediation Sample Date _____	Highest Field Data Sample Date _____	Post Remediation Sample Date _____	Applicable Standards	Detection Limits

Comments:

DEGREE OF CONTAMINATION FOR GROUNDWATER

WAS GROUNDWATER CONTAMINATION PRESENT? YES___ NO (If no, continue to next section)

Extent Defined (Yes, No):
Analysis (Lab, Field): (If no data available, please explain)
Groundwater Monitoring: <i>Permanent Wells</i> : Yes __, No __, # ____; Abandoned Yes __, No __, # ____, Forms submitted Yes __, No __, # ____. <i>Temporary Wells</i> : Yes __, No __, # ____; Abandoned Yes __, No __, # ____, Forms submitted Yes __, No __, # ____.
Number of Sampling Rounds:
Has groundwater analysis been attached? Yes ____, No __.
Remedial Action Taken:
Remedial Action Completed: Yes __, No __. (If no, please provide documentation)
Has this site been remediated to current groundwater standards?: Yes __, No __ (If no, please provide documentation)

GROUNDWATER (Complete below or attach data)

NOTE: If analytical methods other than those outlined in the current L.U.S.T. Analytical Guidance are used, please note the information below.

Contaminant	Pre-remediation Sample Date _____	Highest Field Data Sample Date _____	Post Remediation Sample Date _____	Applicable Standards	Detection Limits

Comments:

Please Attach the Following Information:

- Location Map and Site Map
- Cross-section Map, If Applicable
- Map of Public/Private Wells Within 1,200 Foot Radius

Narrative Summary of Case: (attach additional sheets as needed)

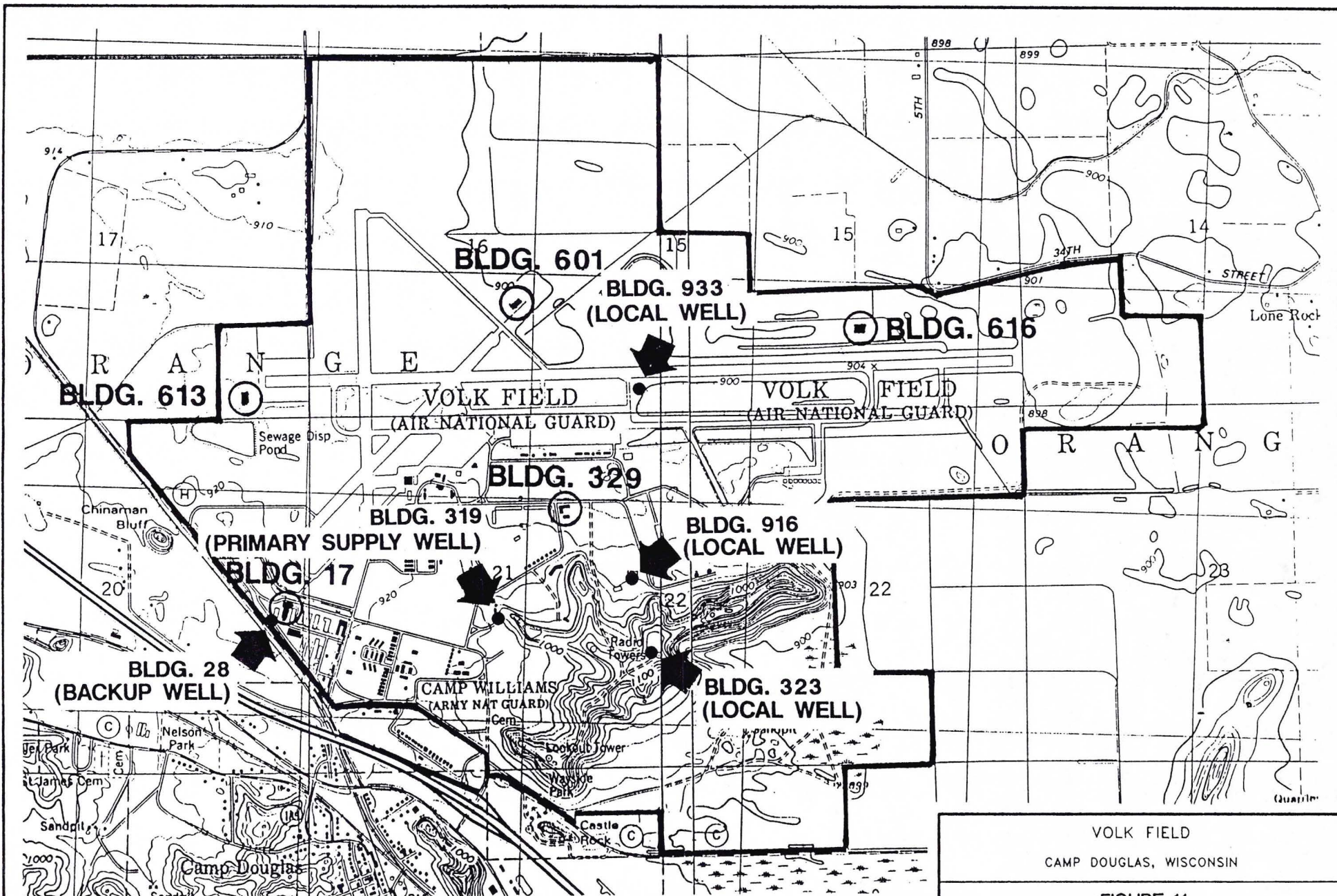
SITE: Volk Field, Camp Douglas, WI, Closure Requests (Summary by D. Grasser, WDNR)

<u>LOCATION</u>	<u>UST TYPE</u>	<u>UID#</u>	<u>DETECT</u> (mg/kg)	<u>COMMENTS</u>	<u>REQUEST</u>
Building 28	100 gal. leaded gas.	Assign	DRO/ND DRO/ND	Under tank Under piping	Closure
Building 324	Waste Oil	Assign	DRO/21 DRO/59 PVOCs/NS PVOCs/ND	Under tank Under piping Under tank Stockpile soil	Closure
Building 398	5000 gal. leaded gas.	Assign	GRO/ND GRO/ND	Under tank Under piping	Closure
	10036 gal. leaded gas	Assign	GRO/88 GRO/61	Under tank Under pump	Closure
	10000 gal. diesel fuel	Assign	? ?	Under tank Under piping	Closure
Building 449	6000 gal. fuel oil	Assign	DRO/ND DRO/44.3	Under tank Under tank	Closure
Building 509	1000 gal. leaded gas.	Assign	GRO/ND PVOCs/ND	Under tank Under tank	Closure
Building 510	4000 gal. fuel oil	Assign	DRO/11-39 DRO/ND-24	Under tank Under piping	Closure
	500 gal. diesel fuel	Assign	DRO/7.6 DRO/12 DRO/290 ug/l PVOCs/ND	Under tank Under piping GW in excav. GW in excav.	Closure
Building 528	500 gal. diesel fuel	Assign	DRO/ND DRO/BDL	Under tank Under tank	Closure
Building 530	500 gal. fuel oil	Assign	DRO/ND	Under tank	Closure
Building 932	6000 gal. fuel oil	Assign	DRO/ND DRO/ND	Under tank Under piping	Closure
Building 950	500 gal. diesel fuel	Assign	DRO/ND DRO/ND-6.2	Under tank Under piping	Closure
Building 2000	550 gal. diesel fuel	Assign	DRO/ND-16.8	Under tank	Closure

ND = No Detect

NS = Not Sampled

BDL = Below Detection Limit



SCALE: 1" = 2,000'

MAP SOURCE: USGS 7.5 MINUTE QUADRANGLES, CAMP DOUGLAS, WISCONSIN (1983)
AND NEW LISBON NORTH, WISCONSIN (1983).

VOLK FIELD
CAMP DOUGLAS, WISCONSIN

FIGURE 11
WATER SUPPLY WELL LOCATIONS

DAMES & MOORE

DATE: APRIL 1996

PROJ. No.: 21442-009

CONVERSATION - DETAILED REPORT

Date: 4/25/96 **Time:** 1:52 PM **Call Duration:** 00:00:50

DAMES & MOORE

Bob Nauta

608-244-1788

FAX 244-7823

SITE 848-8669

Call Regarding: Volk Field Closure Information

Call/Receive: Receive

Call Status: Contacted

NOTES:

The building #28 sampling was GRO. He will FAX a revised table reflecting the corrections. He will also FAX the lab data. I asked him to FAX a copy to Janet Kazda, NCD, as well. He will do that.

CONVERSATION - DETAILED REPORT

Date: 4/25/96 Time: 1:28 PM Call Duration: 00:04:09

DAMES & MOORE

Bob Nauta

608-244-1788

FAX 244-7823

SITE 848-8669

Call Regarding: Volk Field Closeouts

Call/Receive: Call

Call Status: Contacted

NOTES:

Building 398. He couldn't find the lab results for the 10000 gal. diesel tank. He will call Volk Field to get these results. He is sure they have them, but they didn't put them in the table.

I also inquired about Building 28, 100 gal. leaded gas tank. DRO, instead of GRO, sampling was conducted. He said he thinks that was a typing error on his part. He is sure this was tested for GRO, but he will check to make sure.

He also informed me that they have been to Volk Field to conduct the follow-up sampling for the other tanks that required additional investigation.

**DAMES & MOORE***Madison*2701 International Lane, Suite 210
Madison, Wisconsin 53704

PHONE: (608) 244-1788

FAX: (608) 244-7823

TO: Don Grasser 715-421-7840 FROM: Bob Nauta
Janet Kazda 715-365-8932 DATE: April 25, 1996
RE: Laboratory Analyses, **Building 28, Volk Field**
TOTAL PAGES (INCLUDING COVER): 7

Dear Ms. Kazda & Mr. Grasser:

After this afternoon's conversation with Mr. Grasser, I pulled the laboratory data for the tank removal at Building 28. The samples were, in fact, analyzed for gasoline range organics, as shown on the attached laboratory sheets. Also attached is a corrected table for our June 20, 1995 letter.

As I also discussed with Mr. Grasser, our files do not contain the laboratory results for the diesel fuel storage tank at Building 398. We have requested that our subcontractor forward a copy of these results to us. We will provide an addendum to our June 20 letter after we receive those analyses.

Please call if you have any additional questions or data needs.

Sincerely,

DAMES & MOORE

Robert J. Nauta, P.G.
Senior Hydrogeologist



**ENVIRONMENTAL
LABORATORIES INC.**

LABORATORY REPORT

12/02/93

PAGE 1

A822 9308108 W31

AA ENVIRONMENTAL
176 TH & ROUTE 6 17601 SOUTHWEST HWY.
ORLAND PARK , IL 60462
ATTN: MARK SCHIEFELBEIN

CHAIN OF CUSTODY

SAMPLE 93321-A09042 PIPE/SOIL VOLK FIELD/CAMP DOUGLAS/BLDG # 28
DATE COLLECTED 11/08/93 DATE RECEIVED 11/17/93
PRESERVED: YES TEMPERATURE: ON ICE

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
% MOISTURE	11	%	11/19/93	SW846	5030

<u>TEST NAME</u>	<u>WET RESULT</u>	<u>DRY RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>
GASOLINE RANGE ORGANICS	<5.4	\$ <6.1	MG/KG	11/19/93	WDNR MOD. GRO
NET SAMPLE WEIGHT = 23.24 GRAMS.					

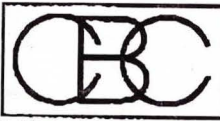
PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

= ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.

\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

AIHA ACCREDITED

APPROVAL



**ENVIRONMENTAL
LABORATORIES INC.**

12/02/93

LABORATORY REPORT

PAGE 1

A822 9308108 W31

AA ENVIRONMENTAL
176 TH & ROUTE 6 17601 SOUTHWEST HWY.
ORLAND PARK ,IL 60462
ATTN: MARK SCHIEFELBEIN

CHAIN OF CUSTODY

SAMPLE 93321-A09641 NORTH EXCAVATION/SOIL/VOLK FIELD/CAMP DOUGLAS/
BLDG # 28

DATE COLLECTED 11/08/93 DATE RECEIVED 11/17/93
PRESERVED: YES TEMPERATURE: ON ICE

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
% MOISTURE	11	%	11/19/93	SW846 5030	
<u>TEST NAME</u>	<u>WET RESULT</u>	<u>DRY RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>
GASOLINE RANGE ORGANICS	<5.0	<5.6	MG/KG	11/19/93	WDNR MOD. GRO

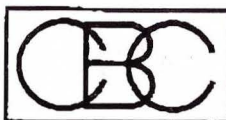
PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

⊖ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.

⊘ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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ENVIRONMENTAL LABORATORIES INC.

12/02/93

LABORATORY REPORT

PAGE 1

AB22 9308108 W31

AA ENVIRONMENTAL
176 TH & ROUTE 6 17601 SOUTHWEST HWY.
ORLAND PARK , IL 60462
ATTN: MARK SCHIEFELBEIN

CHAIN OF CUSTODY

SAMPLE 93321-A09640 SOUTH EXCAVATION/SOIL/VOLK FIELD/CAMP DOUGLAS/
~~BLDG 2B~~

DATE COLLECTED 11/08/93 DATE RECEIVED 11/17/93
PRESERVED: YES TEMPERATURE: ON ICE

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
% MOISTURE	12	%	11/19/93	SW846 5030	

<u>TEST NAME</u>	<u>WET RESULT</u>	<u>DRY RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>
GASOLINE RANGE ORGANICS	<5.3	\$ <6.0	MG/KG	11/19/93	WDNR MOD. GRO
NET SAMPLE WEIGHT = 23.45 GRAMS.					

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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APPROVAL



**ENVIRONMENTAL
LABORATORIES INC.**

12/02/93

LABORATORY REPORT

PAGE 1

A822 9308108 W31

AA ENVIRONMENTAL
176 TH & ROUTE 6 17601 SOUTHWEST HWY.
ORLAND PARK , IL 60462
ATTN: MARK SCHIEFELBEIN

CHAIN OF CUSTODY

SAMPLE 93321-A096438 METHANOL BLANK/VOLK FIELD/CAMP DOUGLAS
DATE COLLECTED 11/08/93 DATE RECEIVED 11/17/93
PRESERVED: YES TEMPERATURE: ON ICE

<u>TEST NAME</u>	<u>RESULT</u>	<u>UNITS</u>	<u>ANALYZED</u>	<u>METHOD</u>	<u>LIMIT</u>
GASOLINE RANGE ORGANICS	<5.0	MG/KG	11/19/93	WDNR MOD. GRO	

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT; SOIL SAMPLES WILL BE DISPOSED OF 6 WEEKS AFTER RECEIPT; WASTE SAMPLES (NON-WATER, NON-SOIL) WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, N/D = NOT DETECTED.

@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.

\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE QUANTITY. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.

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APPROVAL WV

Note: This form is required by the Department of Natural Resources for leaking underground storage tank sites in compliance with ch. NR 500.5-10, NR 158 and NR 419, Wis. Adm. Code.

11-17-93
93321

SENT BY:

Sample Collector(s) M SCHIEF	Title/Work Station/Company AA ENV	Telephone Number (include area code) 708 479-5050
Property Owner VOLK FIELD	Property Address CAMP DOUGLAS	Telephone Number (include area code)

I hereby certify that I received, properly handled, and disposed of these samples as noted below:

Relinquished By (Signature) <i>M Schief</i>	Date/Time 11/15/93 11A	Received By (Signature) <i>Joe Johnson</i>
Relinquished By (Signature)	Date/Time	Received By (Signature)
Relinquished By (Signature) <i>John H</i>	Date/Time 11/10/93 2:55	Received for Laboratory By (Signature) <i>John</i>

Temperature of temperature blank: _____

If samples were received on ice and there was ice remaining, you may report the temperature as "received on ice". If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.

Field ID Number	Date Collected	Time Collected	Sample		Preserv. Type	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	No./Type of Containers	Sample Condition			
			Type ¹	Device						Cracked /Broken	Improperly Sealed	Good Condition	Other Comment
#28	11/8	11A	S		MEOH	SOUTH EKCU	GR0	A091635	1-401				
#28	11/8	11A	S		MEOH	NORTH EKCU	GR0	A091636	1-401				
#28	11/8	11A	S		MEOH	P.P.E	GR0	A091637	1-402				

¹ Specify groundwater, surface water, soil, leachate, sludge, etc.
² Sample description must clearly correlate the sample ID to the sampling location.

DEPARTMENT USE/OPTIONAL FOR SOIL SAMPLERS	DEPARTMENT USE ONLY
Disposition of unused portion of sample Laboratory should:	Split samples: Offered? <input type="checkbox"/> Yes <input type="checkbox"/> No (Check one)
<input type="checkbox"/> Dispose <input type="checkbox"/> Retain for ___ days	Accepted? <input type="checkbox"/> Yes <input type="checkbox"/> No (Check one)
<input type="checkbox"/> Return <input type="checkbox"/> Other	Accepted by: _____ Signature

4-25-96 : 1:27PM : DAMES & MOORE- 715 369 8932 : # 6 / 7

TABLE 1
SOIL ANALYSES
 (All concentrations in mg/kg)

SAMPLE LOCATION	DRO	GRO	BENZENE	ETHYL-BENZENE	TOLUENE	TOTAL XYLENES	MTBE	1,3,5-TRI METHYL BENZENE	1,2,4-TRI METHYL BENZENE
<i>Building 17:</i>									
Fill pipe	18								
South end of excavation	7800								
North end of excavation	8000								
Stockpiled soil	3800		N.D.	0.52	N.D.	0.72			
<i>Building 28:</i>									
Pipeline		N.D.							
North end of excavation		N.D.							
South excavation		N.D.							
<i>Building 324:</i>									
Pipeline	59								
West end of excavation	21								
East end of excavation	N.D.								
Stockpiled soil	N.D.		N.D.	N.D.	N.D.	N.D.			
<i>Building 329:</i>									
Middle of excavation	280								
North end of excavation	12								
South end of excavation	N.D.								
Stockpiled soil	11		N.D.	N.D.	N.D.	N.D.			

CONVERSATION - DETAILED REPORT

Date: 4/25/96 **Time:** 8:47 AM **Call Duration:** 00:00:19

DAMES & MOORE

Bob Nauta

608-244-1788

FAX 244-7823

SITE 848-8669

Call Regarding: Volk Field Closeouts

Call/Receive: Receive

Call Status: Left Message

NOTES:

Returned my call. Also, a message on 4/23/96, 1:37 PM, 27 seconds.

NCD UID#: Assign for each

DATE: 4/17/96

SITE NAME: Volk Field

ADDRESS: Camp Douglas, WI 54618

FROM Program Staff: Don Grasser

TO Program Supervisor: Connie Antonuk, NCD

COPIED TO LUST P.A.: YES NO (sent closure forms + file to Janet Kazda)

Please (✓) any that have not been completed:

- Extraction Well _____
- Contaminated Soils _____
- Air Permit _____
- High Cap. Well Permit _____
- Monitoring Wells _____
- Wastewater Permit _____
- Private Well Notification _____
- Above PAL _____

Janet Kazda
-NCD

Program Supervisor Approval:

_____ Not Approved _____ Approved

Signature: _____ Date: _____

Committee

- TO: _____ Chuck Fitzgerald
- _____ Chuck Weister
- _____ Connie Antonuk
- _____ Scott Watson
- _____ Other

Based on my review, I recommend this case for closure.

Donald R. Grasser
Staff Signature

Comments to the Committee:

* I recommend closure of ~~built~~ tanks at Building #'s 28, 324, 398, 449, 509, 510, 528, 530, 932, 950 & 2000.

There are a total of 14 tanks to be closed.

* Other tanks at Buildings #'s 17 (UID 349), 329, 601, 613 (UID 1106), and 616 require additional investigation and/or remediation.

* Please note: 500 gal. diesel fuel tank @ Building #510 has DRO = 220 mg/l in GW in excavation, but no PVOs. Also note: DRO, not GRO, sampling done for building 28 gas tank.

SITE: Volk Field, Camp Douglas, WI, Closure Requests (Summary by D. Grasser, WDNR)

<u>LOCATION</u>	<u>UST TYPE</u>	<u>UID#</u>	<u>DETECT</u> (mg/kg)	<u>COMMENTS</u>	<u>REQUEST</u>
Building 28	100 gal. leaded gas.	Assign	DRO/ND DRO/ND	Under tank Under piping	Closure
Building 324	Waste Oil	Assign	DRO/21 DRO/59 PVOCs/NS PVOCs/ND	Under tank Under piping Under tank Stockpile soil	Closure
Building 398	5000 gal. leaded gas.	Assign	GRO/ND GRO/ND	Under tank Under piping	Closure
	10036 gal. leaded gas	Assign	GRO/88 GRO/61	Under tank Under pump	Closure
	10000 gal. diesel fuel	Assign	? ?	Under tank Under piping	Closure
Building 449	6000 gal. fuel oil	Assign	DRO/ND DRO/44.3	Under tank Under tank	Closure
Building 509	1000 gal. leaded gas.	Assign	GRO/ND PVOCs/ND	Under tank Under tank	Closure
Building 510	4000 gal. fuel oil	Assign	DRO/11-39 DRO/ND-24	Under tank Under piping	Closure
	500 gal. diesel fuel	Assign	DRO/7.6 DRO/12 DRO/290 ug/l PVOCs/ND	Under tank Under piping GW in excav. GW in excav.	Closure
Building 528	500 gal. diesel fuel	Assign	DRO/ND DRO/BDL	Under tank Under tank	Closure
Building 530	500 gal. fuel oil	Assign	DRO/ND	Under tank	Closure
Building 932	6000 gal. fuel oil	Assign	DRO/ND DRO/ND	Under tank Under piping	Closure
Building 950	500 gal. diesel fuel	Assign	DRO/ND DRO/ND-6.2	Under tank Under piping	Closure
Building 2000	550 gal. diesel fuel	Assign	DRO/ND-16.8	Under tank	Closure

ND = No Detect

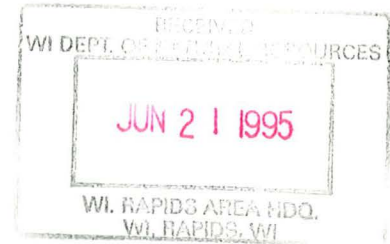
NS = Not Sampled

BDL = Below Detection Limit

 **DAMES & MOORE**

2701 INTERNATIONAL LANE, SUITE 210, MADISON, WI 53704
(608) 244-1788 FAX: (608) 244-7823

June 20, 1995



Mr. Don Grasser
Wisconsin Department of Natural Resources
Room 118
1681 Second Avenue, South
Wisconsin Rapids, WI 54494

RE: Proposed Work Plan
Leaking Underground Storage Tank
Site Investigations

Dear Mr. Grasser:

This document summarizes the recent fuel system removal activities at Volk Field, Camp Douglas, Wisconsin (Figure 1). Recommendations are presented with respect to site closures or additional site investigative activities, based upon results of analyses of soil samples, collected at the time of system removals. These recommendations are made pursuant to the interim guidance for soil quality (part of the proposed Wisconsin Administrative Code ch. NR 700), and in accordance with Wisconsin Department of Natural Resources (WDNR) guidance on investigations of leaking underground storage tanks. Because of the limited scope of the previous work performed at the site, adequate data do not exist for full compliance with the required components of a site investigation work plan. Those components will be provided at the time of submittal of the site investigation report.

At the time of fuel system removals, soil samples were collected and analyzed for diesel range organics (DRO) or gasoline range organics (GRO), as appropriate. Samples of stockpiled soil were analyzed for DRO, petroleum volatile organic compounds (PVOCs) and polynuclear aromatic hydrocarbons (PAHs). The Wisconsin interim Enforcement Standards (ESs) for soil quality contains guidance for GRO, DRO and PVOCs. Results of all laboratory analyses are presented in Table 1. Because the in-place samples were not analyzed for PVOCs, our recommendations are based solely on a comparison of DRO or GRO values to those contained in the guidance.

Mr. Don Grasser
Wisconsin Department of Natural Resources
June 20, 1995
Page 2

Closure Recommendations:

✓ *Building 28:*

A 100-gallon underground leaded gasoline storage tank was removed at Building 28. One sample was collected from beneath both the piping run and the storage tank. Laboratory analyses of these samples yielded non-detects for DRO. Consequently, we request that a clean closure be granted for the Building 28 site.

BETX?
close?

✓ *Building 324:*

A soil sample collected from beneath the pipeline, between the building and the waste oil tank, yielded 59 mg/kg (parts per million - ppm), of diesel range organics. Additionally, a sample collected at the west end of the tank excavation yielded 21 ppm of DRO; the sample collected at the east end of the excavation was non-detect. (The analytical report indicated that there was not a diesel pattern match in the samples collected from beneath the pipeline and at the west end of the tank. This is likely due to the fact that the contaminant is waste oil, rather than diesel fuel.)

BETX?
close?

The interim ES for DRO is 100 ppm. Although the samples collected from the excavation were not analyzed for PVOCs, these analyses were performed on the sample collected from the stockpiled soil. The analyses of this sample indicate that PVOCs are significantly lower than the interim ESs; consequently, the concentrations appear to be within the criteria for closure. Based upon this, we request that a clean closure be granted for Building 324.

✓ *Building 398:*

Three underground storage tanks were removed from Building 398, including one 5,000 gallon leaded gasoline tank, one 10,036-gallon leaded gasoline tank, and one 10,000-gallon diesel fuel tank. Additionally, the associated piping and dispensers were removed. Samples were collected from beneath the tanks, piping and dispensers, and were analyzed for GRO or DRO, as appropriate. All samples except two yielded non-detects. The sample collected beneath the west end of the 10,000-gallon gasoline tank resulted in 88 mg/kg of GRO; the sample collected from beneath the west gasoline dispenser resulted in 61 mg/kg of GRO. Because no interim soil quality exceedances were detected, we recommend closure for the Building 398 site.

BETX?
close?

✓ *Building 449:*

A single 6,000-gallon fuel oil tank was removed from the Building 449 site. At the time of excavation, two soil samples were collected: One at the west end of the tank bed, and one at the east end. The sample collected from the east end yielded non-detects for DRO compounds. The

BETX?
close?

Mr. Don Grasser
Wisconsin Department of Natural Resources
June 20, 1995
Page 3

sample from the west end yielded 44.3 mg/kg of DRO. Clean closure is recommended for this site.

✓ *Building 509:*

A 1,000-gallon leaded gasoline storage tank was removed from Building 509. Samples were collected from the north and south ends of the tank bed. These samples resulted in non-detects for GRO and PVOCs. Consequently, we recommend clean closure for this site. close?

✓ *Building 510:*

Work completed at Building 510 included the removal of a 4,000-gallon underground fuel oil storage tank, a 500-gallon underground diesel fuel storage tank, approximately 80 feet of piping associated with the fuel oil tank, and a short piping run from the diesel tank to an electrical generator. Four samples were collected from the fuel oil piping run, two samples were collected from each of the excavations for the two storage tanks, and one sample was collected along the diesel fuel supply line. DRO concentrations in these samples ranged from below the level of quantification to 39 ppm. A sample was collected of groundwater which had accumulated in the excavation. This sample yielded non-detects for PVOCs and 290 $\mu\text{g/L}$ of DRO. Because no water quality or interim soil quality standards were exceeded, we recommend closure for the Building 510 site. close?

✓ *Building 528:*

A 500-gallon diesel fuel storage tank was removed from Building 528. Soil samples were collected from the west and east ends of the tank excavation, which yielded non-detects and detects below the quantification limit, respectively, of DRO compounds. We therefore recommend clean closure for this tank. BETX?
close?

✓ *Building 530:*

A 500-gallon fuel oil storage tank was removed from Building 530. Soil samples were collected from the west and east ends of the tank bed, which yielded non-detects for DRO compounds. Clean closure is recommended for this tank. BETX?
close?

✓ *Building 932:*

One 6,000-gallon fuel oil storage tank was removed from Building 932, along with the transfer piping from the tank to the building. The ground surface above the tank had been capped with concrete, which was removed for the tank excavation. Four soil samples were collected from BETX
close?

Mr. Don Grasser
Wisconsin Department of Natural Resources
June 20, 1995
Page 4

beneath the former concrete slab, at the base of the tank excavation. Additionally, two samples were collected from beneath the piping run. All samples were analyzed for DRO, and yielded non-detects.

✓ *Building 950:*

At the time of the excavation of a 500-gallon underground diesel storage tank and approximately 70 feet of fill line at Building 950, samples were collected at three locations along the piping run, and at either end of the tank bed. All samples were non-detect for DRO except the sample collected along the south end of the piping run. This sample yielded 6.2 ppm of DRO, which is significantly below the interim ES. Consequently, we recommend closure for the Building 950 site.

BETX?
close?

✓ *Building 2000:*

A 550-gallon diesel fuel tank was removed from Building 2000, along with a short piping run to the building. Soil samples were collected from the north and south ends of the tank bed, which yielded 16.8 ppm and non-detects, respectively, for DRO. Clean closure is recommended for this tank.

BETX
close?

Work Plan for Buildings 17, 329, 601, 613 and 616:

✓ *Building 17: (on list)*

The following work was completed at Building 17:

- Excavation of a 6,000-gallon underground fuel oil storage tank (see Figure 2); and
- Excavation of a fill line extending to the boiler room.

One soil sample was collected from beneath the fill line at Building 317. This sample yielded 18 ppm of DRO, which is below the interim ES. Samples collected from the north and south ends of the tank excavation yielded 8,000 and 7,800 ppm, respectively, of DRO; a sample collected from the stockpiled soil yielded 3,800 ppm of DRO. Therefore, we recommend that the investigation of contamination at Building 17 be confined to the area of the tank.

Mr. Don Grasser
Wisconsin Department of Natural Resources
June 20, 1995
Page 5

Building 329:

The following work was completed at Building 329:

- Excavation of a 6,000-gallon underground diesel fuel storage tank (see Figure 3); and
- Excavation of approximately 30 feet of fill line.

At this location, samples were collected at the middle, north end, and south end of the excavation. The sample collected at the middle of the excavation yielded 280 ppm of DRO, which is in excess of the interim ES.

✓ *Building 601:*

The following work was completed at Building 601:

- Excavation of a 500-gallon underground diesel fuel tank (see Figure 4); and
- Removal of a vent line and transfer line.

Two soil samples were collected from the tank excavation, at the north and south ends. The sample collected from the north end yielded non-detects for DRO compounds; however, the sample collected at the south end yielded 1,560 ppm of DRO. It is therefore recommended that additional investigation be conducted at this location.

✓ *Building 613: (on list)*

Several tasks were completed at Building 613, including:

- Removal of a concrete pad;
- Excavation and removal of a 300-gallon diesel fuel tank (see Figure 5); and
- Removal of vent, fill and transfer line.

Six soil samples were forwarded for laboratory analyses, including one collected from the stockpiled soil, which was analyzed for DRO and PVOCs. Samples collected from the excavation were analyzed for DRO and PAHs. The results of the PAH analyses are presented in Table 2; DRO and PVOC analyses are in Table 1. Although no interim enforcement standards were exceeded for PVOCs or PAHs, three samples (stockpiled soil, S-10 and S-13), yielded DRO at concentrations in excess of the interim enforcement standards. Consequently, additional site investigation is recommended at this location.

Mr. Don Grasser
Wisconsin Department of Natural Resources
June 20, 1995
Page 6

Building 616:

The following tasks were completed at Building 616:

- Removal of approximately 30 sq. ft. of concrete;
- Excavation and removal of one 300-gallon diesel fuel tank (see Figure 6); and
- Removal of the product transfer line to the building.

A soil sample was collected from the south wall of the tank excavation and from the stockpiled soil. The sample collected from the excavation was analyzed for DRO, yielding 6,250 ppm. The stockpiled sample was analyzed for DRO and PVOCs, yielding concentrations below the interim enforcement standards. Due to the high DRO concentrations in the sample collected from the excavation, we recommend additional investigation at this location.

Site Investigation:

Dames & Moore recommends that a Geoprobe investigation be conducted at Buildings 17, 329, 601, 613 and 616. We recommend that this investigation be conducted using the Geoprobe sampling method. A Geoprobe permits multiple-depth soil and groundwater sampling without the advancement of a boring or the installation of a monitor well. A truck-mounted unit advances a sampling device to the desired depth, at which point a soil or groundwater sample is collected. The vehicle is equipped with a gas chromatograph, with which highly sensitive field screening can be conducted. At each of the sampling points indicated on Figures 2 through 6, Dames & Moore recommends that soil samples be collected at 2.5-foot intervals, beginning at a depth of 6 feet below ground surface. Based upon field screening, the sample yielding the highest concentrations will be forwarded to a WDNR-certified environmental analytical laboratory, for analyses of DRO, PVOCs and PAHs, in accordance with WDNR sampling guidance for underground diesel fuel storage tank investigations. If field screening indicates that the vertical extent of contamination has been reached at a point above the water table, a sample which field screening indicates is not contaminated will also be forwarded to the lab for verification purposes. Finally, at the sampling point at the center of the former tank bed (see Figures 2 through 6), sampling will proceed to the water table, or to a depth of 10 feet below the last field screening detect (whichever is shallowest). If the water table is encountered in that interval, a groundwater sample will be collected and forwarded to the laboratory for analyses. Alternatively, one soil sample will be collected at a depth of 10 feet below the last screening level detect, which will be forwarded to the analytical laboratory for DRO, PVOC and PAH analyses.

If field screening indicates that contaminants have likely reached the water table, we recommend that additional groundwater samples be collected to define the horizontal extent of groundwater contamination, as well as soil contamination. In this event, based upon field screening and



Mr. Don Grasser
Wisconsin Department of Natural Resources
June 20, 1995
Page 7

observations, a decision will be made in the field to collect an additional 3 groundwater samples at both sites for this purpose. Based upon the results of the groundwater sampling, the WDNR may require that permanent monitor wells be installed, for purposes of long-term monitoring.

Upon completion of the field sampling and analyses, a remedial action plan (RAP) will be prepared, which will assess options for soil and, if necessary, groundwater remediation.

If you have any questions about the work plan described above, or require additional site information, please call Dames & Moore at (608) 244-1788.

Sincerely,

DAMES & MOORE

A handwritten signature in black ink that reads "J.P. Walker".

J.P. Walker, P.E.
Project Manager

A handwritten signature in blue ink that reads "Robert J. Nauta".

Robert J. Nauta, P.G.
Hydrogeologist

cc: Major Rick McKittrick - ANG/CRTC

TABLES

TABLE 1
SOIL ANALYSES
 (All concentrations in mg/kg)

SAMPLE LOCATION	DRO	GRO	BENZENE	ETHYL- BENZENE	TOLUENE	TOTAL XYLENES	MTBE	1,3,5-TRI METHYL BENZENE	1,2,4-TRI METHYL BENZENE
<i>Building 17:</i>									
Fill pipe	18								
South end of excavation	7800								
North end of excavation	8000								
Stockpiled soil	3800		N.D.	0.52	N.D.	0.72			
<i>Building 28:</i>									
Pipeline	N.D.								
North end of excavation	N.D.								
<i>Building 324:</i>									
Pipeline	59								
West end of excavation	21								
East end of excavation	N.D.								
Stockpiled soil	N.D.		N.D.	N.D.	N.D.	N.D.			
<i>Building 329:</i>									
Middle of excavation	280								
North end of excavation	12								
South end of excavation	N.D.								
Stockpiled soil	11		N.D.	N.D.	N.D.	N.D.			

TABLE 1 (cont.)
SOIL ANALYSES
 (All concentrations in mg/kg)

SAMPLE LOCATION	DRO	GRO	BENZENE	ETHYL- BENZENE	TOLUENE	TOTAL XYLENES	MTBE	1,3,5-TRI METHYL BENZENE	1,2,4-TRI METHYL BENZENE
<i>Building 398:</i>									
2 ft. below elbow, remote fill		N.D.							
2 ft. below elbow, fill pipe		N.D.							
2 ft. below pipe		N.D.							
2 ft. below pipe, 1st 20 ft.		N.D.							
West end of 5000 gal. gasoline tank		N.D.							
East end of 5000 gal. gasoline tank		N.D.							
West end of 10000 gal. gasoline tank		88							
East end of 10000 gal. gasoline tank		N.D.							
3 ft. below pump		61							
<i>Building 449:</i>									
West end of tank	44.3								
East end of tank	N.D.								
<i>Building 509:</i>									
North end of tank		N.D.	N.D.	N.D.	N.D.	N.D.			
South end of tank		N.D.	N.D.	N.D.	N.D.	N.D.			

TABLE 1 (cont.)
SOIL ANALYSES
 (All concentrations in mg/kg)

SAMPLE LOCATION	DRO	GRO	BENZENE	ETHYL- BENZENE	TOLUENE	TOTAL XYLENES	MTBE	1,3,5-TRI METHYL BENZENE	1,2,4-TRI METHYL BENZENE
<i>Building 950:</i>									
North end of pipeline	N.D.								
Middle of pipeline	N.D.								
South end of pipeline	6.2								
North end of excavation	N.D.								
South end of excavation	N.D.								
<i>Building 2000:</i>									
North end of tank	16.8								
South end of tank	N.D.								

N.D. Non-detect.

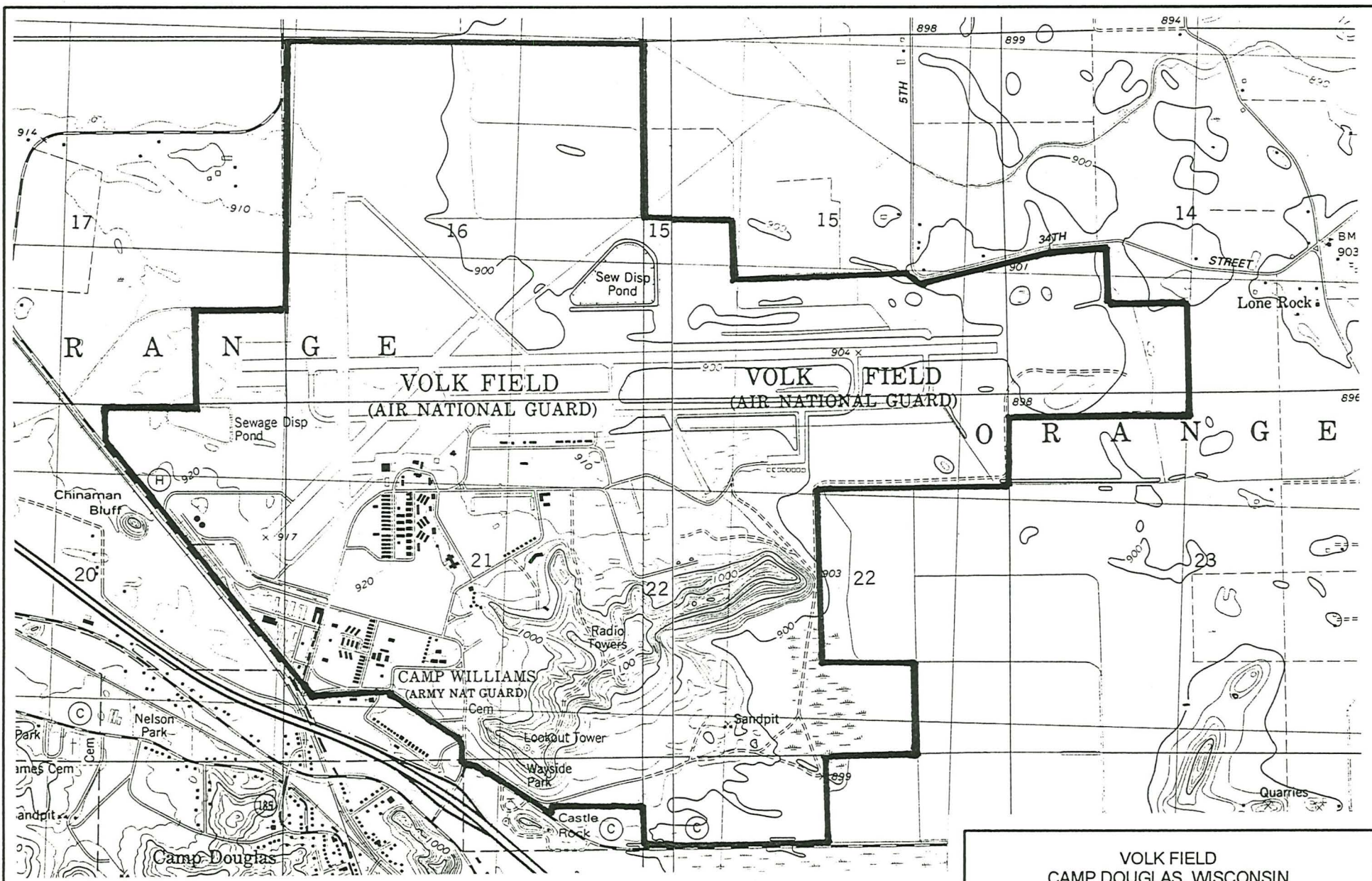
B.D.L. Peaks present, but at concentrations below detection limit.

Shaded cells indicate parameters not analyzed.

TABLE 2
PAH ANALYSES - BUILDING 613
 All concentrations in mg/kg

PARAMETER	S-5	S-9	S-10	S-13	S-16
Naphthalene	0.03	ND	2.96	0.14	0.31
Acenaphthylene	0.03	ND	0.46	0.45	0.09
Acenaphthene	ND	ND	0.03	0.28	0.04
Fluorene	0.03	0.04	0.98	0.76	0.25
Phenanthrene	0.07	ND	1.19	1.04	0.36
Anthracene	ND	ND	0.31	0.11	0.03
Fluoranthene	0.02	ND	ND	0.73	1.9
Pyrene	0.04	ND	ND	0.46	1.5
Benzo(a)anthracene	ND	ND	0.03	0.04	0.07
Chrysene	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	0.02	0.03	0.01
Benzo(a)pyrene	ND	ND	0.03	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND
Benzoperylene	ND	ND	0.05	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND
1-Methylnaphthalene	0.29	0.04	22.47	8.79	3.94
2-Methylnaphthalene	0.06	0.02	17.31	4.29	1.94

FIGURES



SCALE: 1" = 2000'
 MAP SOURCE: USGS 7.5 MINUTE QUADRANGLES - NEW LISBON
 NORTH, WISCONSIN (1983) AND CAMP DOUGLAS, WISCONSIN (1983).



VOLK FIELD CAMP DOUGLAS, WISCONSIN	
FIGURE 1 SITE LOCATION MAP	
DAMES & MOORE	DATE: JUNE 1995
DRAWN BY: RJN	JOB No: 21442-009

APPROXIMATE AREA OF EXCAVATION

FORMER TANK

BLDG 17

NORTH

⊕ RECOMMENDED INITIAL
GEOPROBE SAMPLE LOCATION



SCALE: 1" = 10'

VOLK FIELD
CAMP DOUGLAS, WISCONSIN

FIGURE 2
INITIAL GEOPROBE SAMPLE LOCATIONS
BUILDING 17

DAMES & MOORE

DATE: JUNE 1995

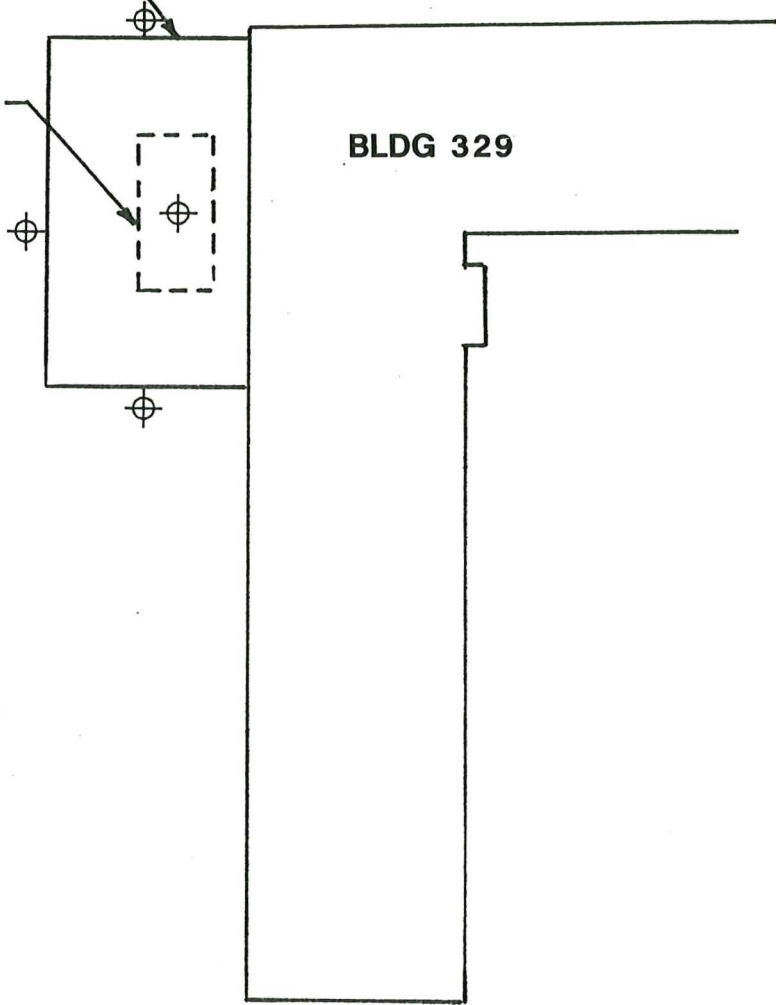
DRAWN BY: RJN

JOB No: 21442-009

APPROXIMATE AREA OF EXCAVATION

FORMER TANK

BLDG 329



NORTH

⊕ RECOMMENDED INITIAL
GEOPROBE SAMPLE LOCATION



SCALE: 1" = 20'

VOLK FIELD
CAMP DOUGLAS, WISCONSIN

FIGURE 3
INITIAL GEOPROBE SAMPLE LOCATIONS
BUILDING 329

DAMES & MOORE

DATE: JUNE 1995

DRAWN BY: RJN

JOB No: 21442-009

APPROXIMATE AREA OF EXCAVATION

FORMER TANK

BLDG 601

NORTH

⊕ RECOMMENDED INITIAL
GEOPROBE SAMPLE LOCATION



SCALE: 1" = 10'

VOLK FIELD
CAMP DOUGLAS, WISCONSIN

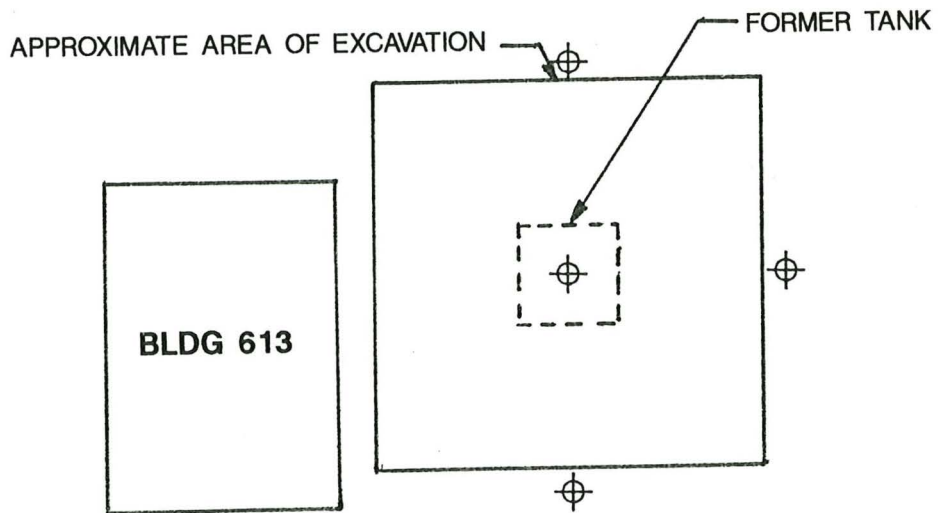
FIGURE 4
INITIAL GEOPROBE SAMPLE LOCATIONS
BUILDING 601

DAMES & MOORE

DATE: JUNE 1995

DRAWN BY: RJN

JOB No: 21442-009

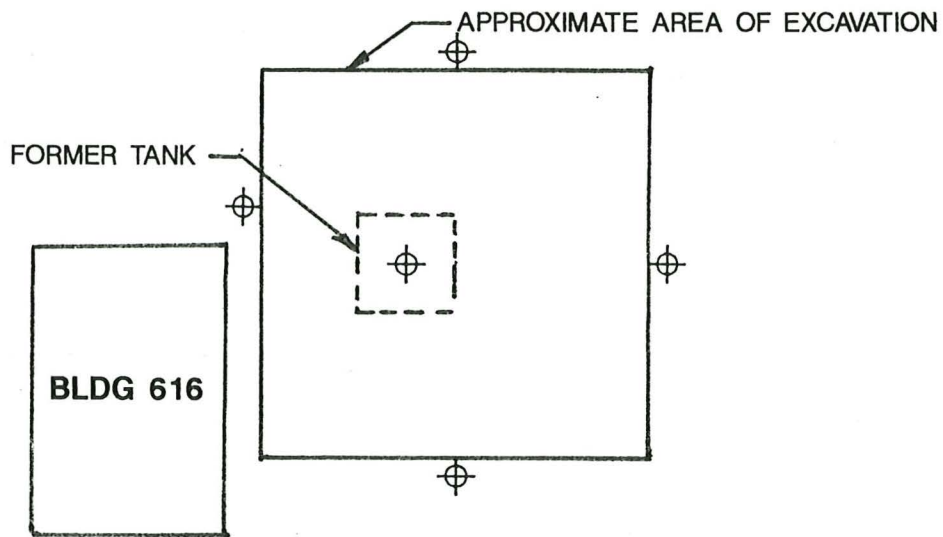


NORTH

⊕ RECOMMENDED INITIAL
GEOPROBE SAMPLE LOCATION
SCALE: 1" = 10'



VOLK FIELD CAMP DOUGLAS, WISCONSIN	
FIGURE 5 INITIAL GEOPROBE SAMPLE LOCATIONS BUILDING 613	
DAMES & MOORE	DATE: JUNE 1995
DRAWN BY: RJN	JOB No: 21442-009



NORTH



⊕ RECOMMENDED INITIAL
GEOPROBE SAMPLE LOCATION

SCALE: 1" = 10'

VOLK FIELD
CAMP DOUGLAS, WISCONSIN

FIGURE 6
INITIAL GEOPROBE SAMPLE LOCATIONS
BUILDING 616

DAMES & MOORE

DATE: JUNE 1995

DRAWN BY: RJN

JOB No: 21442-009



VOLK FIELD COMBAT READINESS TRAINING CENTER

WISCONSIN AIR NATIONAL GUARD
CAMP DOUGLAS, WI

4 Oct 94

MEMORANDUM FOR Wisconsin DNR, WI Rapids Office
ATTENTION: Mr. Dennis Fuster

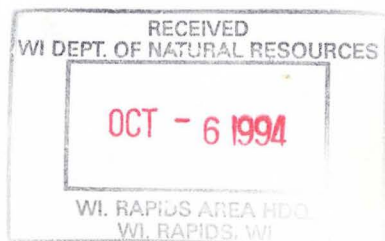
245

FROM: CRTC/EM
100 Independence Drive
Volk Field ANGB, Camp Douglas, WI 54618-5001

SUBJECT: UST Project Progress
--Information Memorandum.

1. This letter is in response to your request for a status of UST projects at Volk Field and Hardwood Range. Currently, there is one UST to be removed in the Volk Field UST removal project with the potential for still one more tank to be added to the list (runway de-icer tank). The consultant has been preparing a work plan which will be finalized as soon as all tanks are removed and site conditions are known. It is believed that by mid-november the last tank will be removed. The de-icer tank, if it is to be removed, will be next spring. The work plan would not cover the de-icer tank and should be available to you this fall.
2. Work to be done at Hardwood Range is being contracted by the Air National Guard Readiness Center (ANGRC) in Washington, D.C.. The package for site assessment and work plans etc. are in the ANGRC Contracting Office. The consulting firm will probably be Warzyn. My contact at ANGRC is Ruth Lodder. She will probably be contacting you when they are ready to go to work on the project at Hardwood.
3. Contaminated soils from the Volk Field project are being remediated by the UST removal contractor. Soils that were excavated at Hardwood have been turned over to Soils Remediation Service, Butler, WI.
4. I realize that there are not yet any firm dates to give you, but I hope that this update will be of some help to you. If you have any questions, please call me at (608) 427-1441.


DAVID A. BECK, Capt, WIANG
Environmental Manager





WISCONSIN AIR NATIONAL GUARD
COMBAT READINESS TRAINING CENTER
Volk Field Air National Guard Base
Camp Douglas, Wisconsin 54618-5001

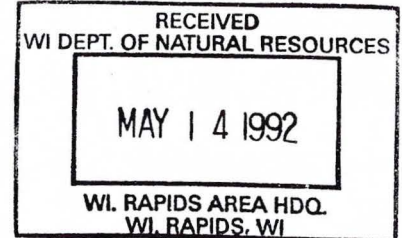
215

Telephone: (608) 427-1210
AUTOVON: 798-3210

REPLY TO
ATTN OF: CRTC/EM

8 May 1992

SUBJECT: Additional Air Emissions Information



TO: Wisconsin DNR
Attn: Kieth Pierce

1. Per your request for additional information regarding Volk Field and its air emissions sources, the following types of information is being provided:

- a. Read vapor pressures
- b. Description of Underground Tank Project
- c. Electrical Generator summary
- d. Summary of Aerospace Ground Equipment (AGE)

2. Read vapor pressures were requested for both gasoline and JP-4. Gasoline read vapor pressures vary by season. From January through March, read vapor pressures average 15 psia. During the months of June to August, read vapor pressures average 10 psia. JP-4 that is received has an average read vapor pressure of 2.6 psia at 38 degrees centigrade. Diesel fuels have read vapor pressures of less than 1 psia.

3. We currently have a project in design to remove all existing UST's and replace those that are required with above-ground tank systems. The attached tank summary lists those tanks to be replaced, those which have already been removed, and those which are empty. Please let me know if this list is not satisfactory.

4. Electrical generators at Volk Field are powered by gasoline, diesel, liquid propane, and natural gas. There are some that have underground tanks and some with self-contained tanks. Others are portable generators or generators which are part of transportable lighting units. The attached summary indicates the locations, fuel types, rated horsepower, and whether there is an associated underground storage tank. Hopefully this summary will provide all necessary information.

5. Aerospace Ground-support Equipment is equipment specifically used in the servicing and support of aircraft. This equipment is powered by gasoline, diesel, or JP-4. The attached summary indicates the type of equipment and the fuel type. Please let me know if any additional information is required.

6. Once again if there are any additional requirements feel free to call me at (608) 427-1441.


David A. Beck

DAVID A. BECK, 1LT, WIANG
Environmental Manager

3 Atch

1. UST summary
2. Generator summary
3. AGE summary

cc. Joe Ancell, WDNR

 pc: SHANNA LAUBE, FRIENDSHIP

ITEM	FACILITY NUMBER LOCATION	CAPACITY U.S. GALLONS	FUEL TYPE	ANNOTATED TASK LIST		
1	17	4,000	FUEL OIL	REMOVE ONLY Empty		
2	20	100	* FUEL OIL	REMOVE + REPLACE WITH 100 GALLON TANK OR LESS		
3	117	500	FUEL OIL	NOT IN CONTRACT already removed		
4	125	500	FUEL OIL	NOT IN CONTRACT " "		
5	122	500	FUEL OIL	NOT IN CONTRACT " "		
6	134	500	FUEL OIL	NOT IN CONTRACT " "		
7	300	500	FUEL OIL	REMOVE ONLY		
8	314	500	FUEL OIL	NOT IN CONTRACT already removed		
9	324	2,000	USED OIL	REMOVE + REPLACE WITH 75 GALLON SYSTEM EMPTY		
10	324-GW	1,000	OIL-WATER	REMOVE + REPLACE, OIL HOLDING CAPACITY LESS THAN 100 GAL		
11	320	6,000	FUEL OIL	REMOVE ONLY		
12	300	5,000	* FUEL OIL	REMOVE + REPLACE TOTAL NEW CAPACITY 15000 GAL OR LESS		
13	300	10,000	* FUEL OIL	REMOVE + REPLACE		
14	300	10,000	DIESEL	REMOVE + REPLACE TOTAL NEW CAPACITY 10,000 GAL OR LESS		
15	400	1,000	FUEL OIL	NOT IN CONTRACT already removed		
16	405	500	FUEL OIL	NOT IN CONTRACT " "		
17	420	500	FUEL OIL	NOT IN CONTRACT " "		
18	432	500	FUEL OIL	NOT IN CONTRACT " "		
19	440	6,000	FUEL OIL	REMOVE + REPLACE FUEL SOURCE WITH NG TO COLLECT		
20	504	1,000	OIL-WATER	REMOVE + REPLACE, OIL HOLDING CAPACITY LESS THAN 100 GAL		
21	508	1,000	FUEL OIL	NOT IN CONTRACT already removed		
22	509	1,000	* FUEL OIL	REMOVE + REPLACE WITH DIESEL 1000 GALLON OR LESS		
23	510-GW	500	OIL-WATER	REMOVE + REPLACE, OIL HOLDING CAPACITY LESS THAN 100 GAL		
24	570	4,000	FUEL OIL	REMOVE + REPLACEMENT REQUIREMENT UNCLEAR		
25	510	500	DIESEL	REMOVE + REPLACE WITH DIESEL 500 GAL OR LESS GEN		
26	522	1,000	FUEL OIL	NOT IN CONTRACT already removed		
27	526	500	FUEL OIL	NOT IN CONTRACT already removed		
28	528	500	DIESEL	REMOVED FROM PROJECT		
29	530	500	DIESEL	REMOVE + REPLACE WITH DIESEL 500 GAL OR LESS GEN		
30	531	500	FUEL OIL	NOT IN CONTRACT already removed		
31	601	500	DIESEL	REMOVE + REPLACE WITH DIESEL 500 GAL OR LESS GEN		
32	613	300	DIESEL	REMOVE + REPLACE WITH DIESEL 300 GAL OR LESS GEN		
33	614	300	DIESEL	REMOVE + REPLACE WITH DIESEL 300 GAL OR LESS GEN		
34	616	500	FUEL OIL	NOT IN CONTRACT already removed		
35	632	6,000	FUEL OIL	REMOVE ONLY GEN		
36	633	500	DIESEL	REMOVED FROM PROJECT already removed		
37	630	500	DIESEL	REMOVAL BY "ABANDONMENT IN PLACE" Empty		

NG-note
502

EXISTING UNDECOMMISSIONED TANKS
Located Within Hazardous Waste Boundary:

ITEM	FACILITY NUMBER LOCATION	CAPACITY U.S. GALLONS	FUEL TYPE	
38	200	500	DIESEL	NOT IN CONTRACT

EXISTING UNDECOMMISSIONED TANKS
Located within the Outer Marker Boundary:

ITEM	FACILITY NUMBER LOCATION	CAPACITY U.S. GALLONS	FUEL TYPE	
39	200	500	DIESEL	REMOVE + REPLACE WITH DIESEL 500 GAL OR LESS GEN

not located
at Volk
Field

**ADDITIONAL TANKS REFERENCED
(But not in SOW)**

a)	BLDG 807	300 GAL DIESEL	NOT IN CONTRACT
b)	BLDG 828	O/W SHP	NOT IN CONTRACT
c)	BLDG 2014	850 GAL USED OIL	NOT IN CONTRACT
d)	BLDG 833	500 GAL DIESEL	REMOVE & REPLACE WITH A DIESEL TANK 500 GAL OR LESS
e)	BLDG 934	500 GAL DIESEL	REMOVE & REPLACE WITH A DIESEL TANK 500 GAL OR LESS



**WISCONSIN AIR NATIONAL GUARD
COMBAT READINESS TRAINING CENTER**

Volk Field Air National Guard Base
Camp Douglas, Wisconsin 54618-5001

245

Telephone: (608) 427-1210
AUTOVON: 798-3210

WDNR, NORTH CENTRAL DISTRICT
5301 Rib Mountain Dr.
Wausau, WI 54401

12 March 1991

MAR 14 1991
Wausau DNR Office

Bob Gutknecht, Leaking Underground Storage Tank Coordinator

1. Please find enclosed, a draft copy of the subsurface investigation report prepared by Dames and Moore Environmental Engineers along with the sludge removal record and other pertinent data.
2. In our attempts to satisfy the WDNR requirements as they were coordinated through Richard Eakins we hope to have completely restored the underground storage tank site in the vicinity of building 504 to an acceptable and safe condition. In addition, a monitoring well was installed northeast of building 509, with soil and water analyzed to ascertain the extent of contamination from an above ground storage area which Mr. Eakins was also concerned about.
3. I hope the information included fulfills WDNR requirements. Also included are copies of our Tank Tightness Testing Program. The following locations are under contract to be tested: 28, 528, 530 and Hardwood Gunnery Range.
4. The process of removing the underground fuel storage tank at building 504 has been extensive and the cost high. Through the effort expended by all parties involved I hope you can see the high level of professionalism, concern and willingness to cooperate that Volk Field personnel have demonstrated. Please feel free to call on me at any time and to notify me at your earliest convenience if I can be of further service.

Sincerely,

Scott D King
SCOTT D. KING, TSgt, WIANG
Liquid Fuels Maintenance Technician
(608) 427-1255/1226

cc: Maj David Lindsey, BCE
MSgt Dennis Wiitanen, DEE
Mr. Mark Chryst, DEV
Dames & Moore
Attn: Jeff Anderson
Files

**UNDERGROUND
PETROLEUM PRODUCT
TANK INVENTORY**

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

For Office Use Only:
Tank ID #

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.

This registration applies to a tank that is (check one):			Fire Department Providing Fire Coverage Where Tank Is Located Is In:	
1. <input type="checkbox"/> In Use	4. <input type="checkbox"/> Abandoned - Tank Removed	8. <input type="checkbox"/> Changed Ownership	Where Tank Is Located Is In:	
2. <input type="checkbox"/> Abandoned With Product	6. <input type="checkbox"/> Abandoned - Filled With Inert Material	(Indicate new owner in section A. 4. below)	<input type="checkbox"/> City <input checked="" type="checkbox"/> Village <input type="checkbox"/> Town of	
3. <input type="checkbox"/> Abandoned No Product (empty) or With Water	7. <input checked="" type="checkbox"/> Out of Service Removed		Camp Douglas, Wi	

A. IDENTIFICATION: (Please Print)

1. Installation Name Volk Field CRTC			2. Mailing Name if Different Than #1		
Installation Street Address			Mailing Address if Different Than #1		
<input type="checkbox"/> City	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:
Camp Douglas					
State	Zip Code	County	State	Zip Code	County
Wisc	54618-5001	Juneau			
3. Name of Contact Person Maj. David D. Lindsey			4. Owner Name if Different Than #3		
Street Address			Street Address		
<input type="checkbox"/> City	<input type="checkbox"/> Town	State	Zip Code	<input type="checkbox"/> City	<input type="checkbox"/> Town
<input type="checkbox"/> Village of:				<input type="checkbox"/> Village of:	
County	Telephone No. (include area code)	County	Telephone No. (include area code)		
	608-427-1220				
5. Tank Age (date installed, if known: or years old)	6. Tank Capacity (gallons)	7. Tank Manufacturer's Name (if known)			
1957	34 yrs	6,000			

B. TYPE OF USER (check one):

1. <input type="checkbox"/> Gas Station	2. <input type="checkbox"/> Bulk Storage	3. <input type="checkbox"/> Utility	4. <input type="checkbox"/> Mercantile
5. <input type="checkbox"/> Industrial	6. <input checked="" type="checkbox"/> Government	7. <input type="checkbox"/> School	8. <input type="checkbox"/> Residential
9. <input type="checkbox"/> Agricultural	10. <input type="checkbox"/> Other (specify):		

C. TANK CONSTRUCTION:

1. <input type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated Steel (a. <input type="checkbox"/> Sacrificial Anodes or b. <input type="checkbox"/> Impressed Current)
3. <input type="checkbox"/> Coated Steel	4. <input type="checkbox"/> Fiberglass
6. <input type="checkbox"/> Relined	7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite
	5. <input type="checkbox"/> Other (specify):
	9. <input type="checkbox"/> Unknown
Approval: 1. <input type="checkbox"/> Nat'l Std. 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other:	
Is Tank Double Walled? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Overfill Protection Provided? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, identify type:	
Spill Containment? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Tank leak detection method: 1. <input type="checkbox"/> Automatic tank gauging 2. <input type="checkbox"/> Vapor monitoring 3. <input type="checkbox"/> Groundwater monitoring	
4. <input type="checkbox"/> Inventory control and tightness testing 5. <input type="checkbox"/> Interstitial monitoring 6. <input type="checkbox"/> Not required at present	

D. PIPING CONSTRUCTION

1. <input type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (a. <input type="checkbox"/> Sacrificial Anodes or b. <input type="checkbox"/> Impressed Current)	3. <input type="checkbox"/> Coated Steel
4. <input type="checkbox"/> Fiberglass	5. <input type="checkbox"/> Other (specify):	9. <input type="checkbox"/> Unknown
Piping System Type: 1. <input type="checkbox"/> Pressurized piping with: a. <input type="checkbox"/> auto shutoff; b. <input type="checkbox"/> alarm; or c. <input type="checkbox"/> flow restrictor 2. <input type="checkbox"/> Suction piping with check valve at tank		
3. <input type="checkbox"/> Suction piping with check valve at pump and inspectable		
Piping leak detection method: used if pressurized or check valve at tank: 1. <input type="checkbox"/> Vapor monitoring 2. <input type="checkbox"/> Interstitial monitoring		
3. <input type="checkbox"/> Groundwater monitoring 4. <input type="checkbox"/> Tightness testing 5. <input type="checkbox"/> Line Leak Detector 6. <input type="checkbox"/> Not Required		
Approval: 1. <input type="checkbox"/> Nat'l Std 2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other:		Double Walled: <input type="checkbox"/> Yes <input type="checkbox"/> No

E. TANK CONTENTS

1. <input type="checkbox"/> Diesel	2. <input type="checkbox"/> Leaded	3. <input type="checkbox"/> Unleaded	4. <input checked="" type="checkbox"/> Fuel Oil
5. <input type="checkbox"/> Gasohol	6. <input type="checkbox"/> Other	7. <input type="checkbox"/> Empty	8. <input type="checkbox"/> Sand/Gravel/Slurry
9. <input type="checkbox"/> Unknown	10. <input type="checkbox"/> Premix	11. <input type="checkbox"/> Waste Oil	12. <input type="checkbox"/> Propane
13. <input type="checkbox"/> Chemical *		14. <input type="checkbox"/> Kerosene	15. <input type="checkbox"/> Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

If Tank Abandoned, Give Date (mo/day/yr):	Has a site assessment been completed? (see reverse side for details) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

If installation of a new tank is being reported, indicate who performed the installation inspection:		
1. <input type="checkbox"/> Fire Department	2. <input type="checkbox"/> DILHR	3. <input type="checkbox"/> Other (identify)

Signature of Person Completing Report: <i>Scott D. King</i> Scott D. King, ASgt	Date Signed: 12 March 1991
---	-------------------------------

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23, 1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

(a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

"(e) Vapor monitoring." This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.

"(f) Ground-water monitoring." This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to both the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

When submitting a site assessment, you must include a copy of the Inventory form which was submitted to report the tank closure.

For Office Use Only:
Tank ID #

TANK INVENTORY

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored currently store or will store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.

- This Individual Tank Registration Applies To (check one):
- Tank still in active use
 - Inoperative or abandoned tank with product still in tank
 - Inoperative or abandoned tank with no known product in tank
 - Location for which tank has been removed
 - New tank to be installed (provide date): _____

A. IDENTIFICATION

1. Name of Installation VOLK FIELD ANGB Street Address of Installation CAMP DOUGLAS <input type="checkbox"/> City <input checked="" type="checkbox"/> Village <input type="checkbox"/> Town of:			2. Name for Mailing if Different Than #1 Mailing Address if Different Than #1 <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		
State WT	Zip Code 54618-5001	County JUNEAU	State	Zip Code	County
3. Name of Contact Person MAJ ROBERT D. GREEN Street Address <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:			4. Name of Owner if Different from #3 Street Address <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		
State	Zip Code	County	State	Zip Code	County
Telephone Number (include area code) 1-608-427-1227			Telephone Number (include area code)		
5. Fire Department Name and ID # POC SMS STASZEWSKI VOLK FIELD FIRE DEPT		6. Tank Age (date installed, if known; or years old) 1962, 24 YEARS OLD		7. If Tank Abandoned, Give Date (mo / day / yr)	
8. Tank Capacity (in gallons) 1200		9. Tank Manufacturer's Name, if known:			

B. TANK CONSTRUCTION:

- Bare Steel
- Cathodically Protected Steel
- Coated Steel
- Fiberglass
- Other (specify): _____

C. TANK CONTENTS:

- Diesel
- Leaded Gasoline
- Unleaded Gasoline
- Fuel Oil
- Gasohol
- Other (specify): _____

D. TYPE OF USER (check one):

- Gas Station
- Bulk Storage
- Utility
- Mercantile
- Industrial
- Government
- School
- Residential
- Agricultural
- Other (specify): _____

Signature of Person Completing Form: <i>Scott D. King</i> SCOTT D. KING, TSG DEMLF	Date Completed: 18 FEB 1986
--	--------------------------------

REPORT OF AINLAY TTT TANK TEST

File 5B-3
JR

Company: Wisconsin Air National Guard
Address: Volk Field
City: Camp Douglas State: WI

Brand Name:
Grade of
Product: Regular Gasoline

Minute Temperature Check

Start Time: 1:20
Completion Time: 2:20

A	B	C	D	E	F
Temperatures					
Probes	: Start of Test	: End of Test	: Temp. Shift: (B from C) : + or -	: Multiply Column D by E	: Add up for Weight Shift
Top	: 31.96	: 31.86	: -.1	: x .25	: -.025
Middle	: 31.34	: 31.34	: -.000	: x .50	: -0-
Bottom	: 31.30	: 31.30	: -.000	: x .25	: -0-

Add the three results in Column F (Weighted Ave. Temp. Shift: -.025
Tank dia. and lgth: 54" Gallon Capacity: 1200
Exact Water Level in tank bottom.
Test Start: -0- Test End: -0-

Minute Volume Check

Start Time: 1:20
Completion Time: 2:20

Exact amount of liquid lost and replaced (-)
or gained and removed (+) in fill pipe to
restore original level

API Gravity of tested liquid in graduate : 57.5
Temperature of tested liquid in graduate : 33
Subtract Line 6 from 60 degrees.
(Result is + or -). : N/A
Multiply Line 7 x .1 (+ x - = -/+ x + = +). : N/A
Line 5 + or - Line 8 (API gravity adjusted

- for temperature). : 60.9
- 1. With Line 9 enter Table C, Read Coefficient of Expansion. : .00068833
- 2. Multiply Line 10 by Line 2 (Gallons) (Volume change for each degree of temperature change. : .82596
- 3. Multiply Line 11 by Line 1 (Volume change due to temperature). : -.020
- 4. Change sign of Line 12 (See Sec. 9.4) and add to line 4 mathematically (net change in gallons), + or - : +.026
- Double Check sign: - Product Lost
+ Product Gained

Note: NFPA Publication # 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a ~~loss~~/gain of (Line 13): +.026 gallons per hour it Does: X Does Not: meet the NFPA criterion for tank tightness.

Additional

Remarks: Tank was short 4" below top of tank when I arrived at 9:00am Topped off.

This certifies that the tanks described were tested by the undersigned and that the stated results represent the true state of the tanks on this date to the best of my knowledge.

Midwest Petroleum Service, Inc.

[Signature], Tester

Month: 12 Day: 27 Year: 89

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

*File
518-2
KLP*

Send Completed Form To:
Safety & Buildings Division
Bureau of Petroleum Inspection
P.O. Box 7969
Madison, WI 53707
Telephone (608)266-8981

For Office Use Only: Tank ID #

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored, currently store or will store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.

- This Individual Tank Registration Applies To (check one):
1. Tank still in active use
 2. Inoperative or abandoned tank with product still in tank
 3. Inoperative or abandoned tank with no known product in tank
 4. Location for which tank has been removed
 5. New tank to be installed (provide date): _____

A. IDENTIFICATION

1. Name of Installation VOLK FIELD ANGB			2. Name for Mailing if Different Than # 1		
Street Address of Installation CAMP DOUGLAS			Mailing Address if Different Than #1		
<input type="checkbox"/> City <input checked="" type="checkbox"/> Village <input type="checkbox"/> Town of:			<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		
State WI	Zip Code 54618-5001	County JUNEAU	State	Zip Code	County
3. Name of Contact Person MAJ ROBERT D. GREEN			4. Name of Owner if Different from #3		
Street Address			Street Address		
<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:			<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		
State	Zip Code	County	State	Zip Code	County
Telephone Number (include area code) 1-608-427-1220			Telephone Number (include area code)		
5. Fire Department Name and ID # POC SMS STASZEWSKI VOLK FIELD FIRE DEPT		6. Tank Age (date installed, if known; or years old)		7. If Tank Abandoned, Give Date (mo / day / yr)	
8. Tank Capacity (in gallons) 500		9. Tank Manufacturer's Name, if known:			

B. TANK CONSTRUCTION:

1. Bare Steel
2. Cathodically Protected Steel
3. Coated Steel
4. Fiberglass
5. Other (specify): _____

C. TANK CONTENTS:

1. Diesel
2. Leaded Gasoline
3. Unleaded Gasoline
4. Fuel Oil
5. Gasohol
6. Other (specify): _____

D. TYPE OF USER (check one):

1. Gas Station
2. Bulk Storage
3. Utility
4. Mercantile
5. Industrial
6. Government
7. School
8. Residential
9. Agricultural
10. Other (specify): _____

Signature of Person Completing Form: <i>Scott D. King</i> SCOTT D. KING, ISG DEMLF	Date Completed: 18 FEB 1986
---	---------------------------------------



United Detection Systems, Inc.

CERTIFIED UNDERGROUND STORAGE TANK TESTING - TANK REMOVALS - SITE ASSESSMENTS
SOIL BORINGS - SOIL SAMPLE ANALYSIS - REMEDIATION CLEAN-UP

UNDERGROUND TANK AND DISTRIBUTION LINES TEST REPORT

Date of Test December 12, 1990

Project Location Bldg 933

Address Volk Field Air National Guard Base

Camp Douglas, WI 54618

Contact _____

Comments _____

Tester Vernon Chaltry Tank Identification No. #1-Df#1/500

Signed *Vernon Chaltry* Date December 20, 1990

CERTIFICATION

Certified -Non-Leaker-

Leak Rate -0- Gallons/Hour -0-

I hereby certify and swear to the best of my knowledge and belief that this is a true and complete report on the tightness of the tank described herein.

I further swear that I have not colluded with any person, private or public, to alter or amend this report.

Signed *Vernon Chaltry*

(Seal)

Subscribed and sworn to before me by

Carol J. Hamblin

this 20 day of December 1990.

C-EXP- 9/94

CORPORATE OFFICES 3466 HIGHWAY 41, DE PERE, WI 54115
1-800-448-1278 (715) 735-9520 FAX (414) 532-6134
IN ILLINOIS 400 E. SIBLEY BLVD., HARVEY, IL 60426
1-800-526-1788 (312) 210-3313 FAX (708) 672-6661

UNITED DETECTION SYSTEMS, INC.

UNDERGROUND TANK LEAK DETECTION

REPORT FORM

S/S LOCATION Bldg 933 DATE 12-12-90

Valk Field

S/S NUMBER Camp Douglas, WI

SKETCH OF S/S SHOWING TANK LOCATIONS

TANK	1	2	3	4	5	6
PRODUCT	DF#1					
TANK SIZE (GALS.)	500					
TANK IDENTIFICATION						
TYPE OF PUMP	SUC					

DISTRIBUTION LINE LEAK TEST

TYPE OF PUMP - SUBMERGED SYSTEM WAS TIGHT
VISUAL INSPECTION CONDUCTED

OR SUCTION
OR LEAK IS INDICATED

COMMENTS

UNITED DETECTION SYSTEMS, INC.

Underground Tank Leak Detection

DATA SHEET

Operator Vern Date 12-12-90 Time 0930
Tank Size (Gals) 500
Product DF#1
Tester Installed Product Riser Riser Size 2"
IN Vapor Riser
Tester ID _____

INITIAL MEASUREMENTS

Water Level: Start 0 End 0

UNITED DETECTION SYSTEMS, INC.

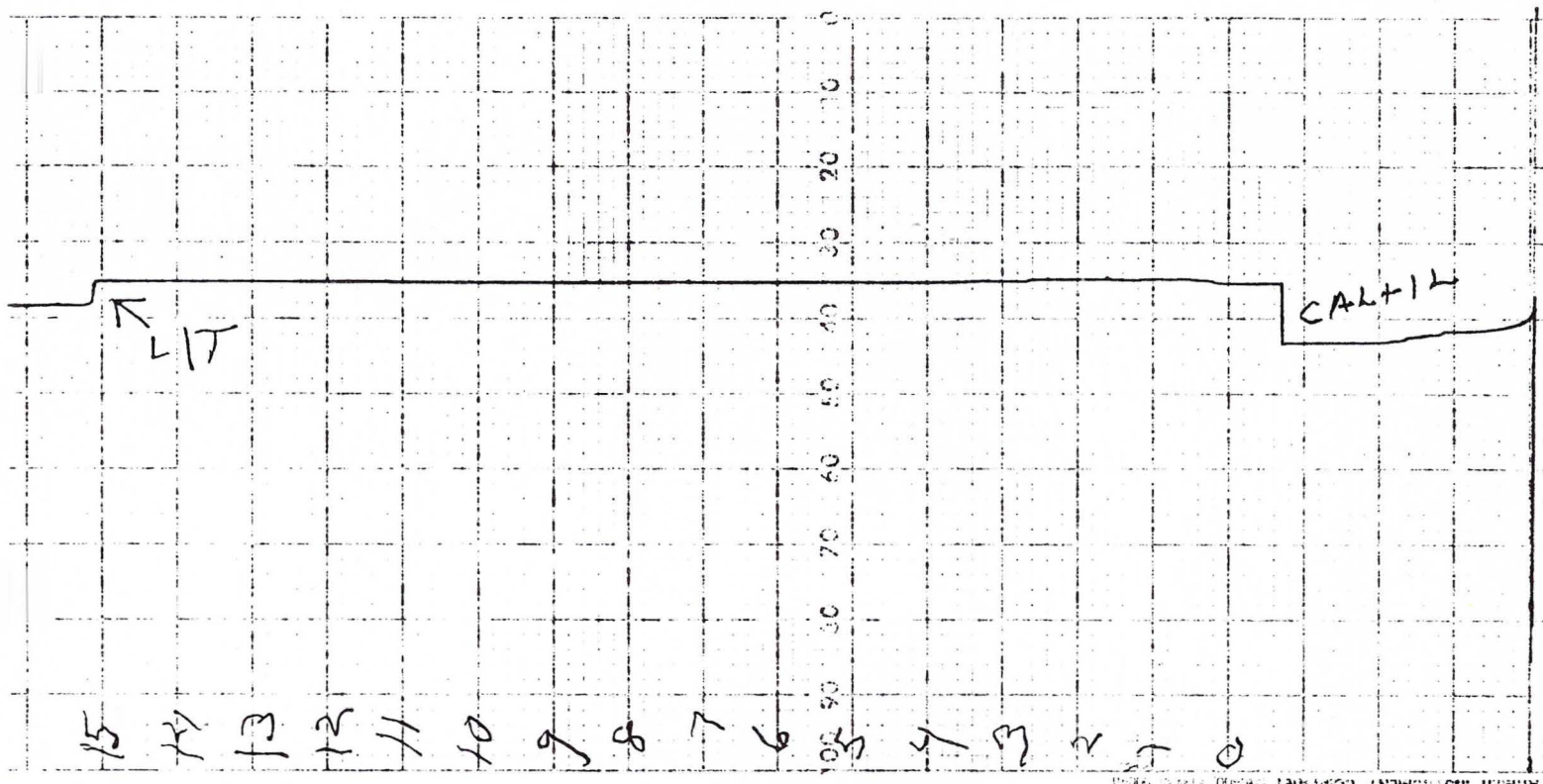
UDS Tester Assembly Calculation Sheet Bldg 933 500 DF#1

Product level (A) A 38
Distance from top of riser to bottom of tank (C) C 86
Distance from top of riser to top of tank (D) D 38
Tank diameter (B = C - D) B 48
Fraction of tank filled (A ÷ B) .792
Float depth in tank diameters (X)
(from Table 2) X .721
Length of float below the surface (h)
(h = X B) h 36.61
Minimum length of float required for test (h+4.5) 39.11
Length of float used (L) L 48
Length of float above the surface (L - h) 11.39
Distance hinge pin above surface (H)
(H = L - h + 1") H 12.39
Length of adjuster rod (J)
(J = C - A - H) J 35.61

Calculate amount of weight required

Type of fuel in tank UNL R P W O DF#1
Density of fuel (Q) Q .846
Total weight of float (W)
(W = hQ 80.440) W 2491.3925
Weight of float used (w)
(from Table 4) w 1321
Amount of weight required (R)
(R = W - w) R 1170.3925
Units of weight required (U)
(U = R ÷ 60) U 19.51
Units of weight used
(U Rounded to the nearest 0.5) 20

12-12-90 Bldg 933
DF#1 500
VOLK Field
Camp Douglas, WI



COLE PARSONS INSTRUMENT COMPANY (PRINTED IN REVERSE)

UNITED DETECTIONS SYSTEMS, INC.

UDS Test, Reduction Of Data

TEST I.

A. Measured Data

Voltage at start of calibration (Ci) 57
Voltage at end of calibration (Cf) 65
Voltage at end of test (Vf) 65 Time at end (tf) 1
Voltage at start of test (Vi) 65 Time at start (ti) 0
Volume added for calibration (P) 1 Liters

B. Calculations

Fractional change of tank level ($A = Vf \div Vi$) A 1 = 0
Fractional change resulting from calibration volume
($B = Ci \div Cf$) B .877 = .131
Fractional volume change ($n = \text{LOG } A \div \text{LOG } B$) n 0
Volume change during test ($N = np$) N 0 Liters
Duration of test ($t = tf - ti$) t 1 Hours
Leak Rate ($LR = N \div t$) x 0.26 LR 0 Gal/Hr.

TEST II.

A. Measured Data

Voltage at start of calibration (Ci) 57
Voltage at end of calibration (Cf) 65
Voltage at end of test (Vf) 65 Time at end (tf) 30
Voltage at start of test (Vi) 65 Time at start (ti) 0
Volume added for calibration (P) 1 Liters

B. Calculations

Fractional change of tank level ($A = Vf \div Vi$) A 1 = 0
Fractional change resulting from calibration volume
($B = Ci \div Cf$) B .877 = .131
Fractional volume change ($n = \text{LOG } A \div \text{LOG } B$) n 0
Volume change during test ($N = np$) N 0 Liters
Duration of test ($t = tf - ti$) t .5 Hours
Leak Rate ($LR = N \div t$) x 0.26 LR 0 Gals/Hr.

UNDERGROUND
**PETROLEUM PRODUCT
TANK INVENTORY**

For Office Use Only:
Tank ID #

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored, currently store or will store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.

This Individual Tank
Registration Applies
To (check one):

1. Tank still in active use
2. Inoperative or abandoned tank with product still in tank
3. Inoperative or abandoned tank with no known product in tank
4. Location for which tank has been removed
5. New tank to be installed (provide date): _____

A. IDENTIFICATION

1. Name of Installation <u>VOLK FIELD ANGB</u> Street Address of Installation <u>CAMP DOUGLAS</u> <input type="checkbox"/> City <input checked="" type="checkbox"/> Village <input type="checkbox"/> Town of:			2. Name for Mailing if Different Than # 1 Mailing Address if Different Than #1 <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		
State <u>WI</u>	Zip Code <u>54618-5001</u>	County <u>JUNEAU</u>	State	Zip Code	County
3. Name of Contact Person <u>MAJ ROBERT D. GREEN</u> Street Address <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:			4. Name of Owner if Different from #3 Street Address <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		
State	Zip Code	County	State	Zip Code	County
Telephone Number (include area code) <u>1-608-427-1220</u>			Telephone Number (include area code)		
5. Fire Department Name and ID # <u>POC SMS STASZEWSKI</u> <u>VOLK FIELD FIRE DEPT</u>		6. Tank Age (date installed, if known; or years old) <u>1956, 30 YEARS OLD</u>		7. If Tank Abandoned, Give Date (mo / day / yr)	
8. Tank Capacity (in gallons) <u>10,036</u>		9. Tank Manufacturer's Name, if known:			

B. TANK CONSTRUCTION:

1. Bare Steel
2. Cathodically Protected Steel
3. Coated Steel
4. Fiberglass
5. Other (specify): _____

C. TANK CONTENTS:

1. Diesel
2. Leaded Gasoline
3. Unleaded Gasoline
4. Fuel Oil
5. Gasohol
6. Other (specify): _____

D. TYPE OF USER (check one):

1. Gas Station
2. Bulk Storage
3. Utility
4. Mercantile
5. Industrial
6. Government
7. School
8. Residential
9. Agricultural
10. Other (specify): _____

Signature of Person Completing Form:

Date Completed:

Scott D. King
SCOTT D. KING, TSG DEMLF

18 FEB 1986

UNDERGROUND IN
PETROLEUM PRODUCT
TANK INVENTORY

*File
5B-3
AP*

Send Completed Form To:
Safety & Buildings Division
Bureau of Petroleum Inspection
P.O. Box 7969
Madison, WI 53707
Telephone (608)266-8981

For Office Use Only:
Tank ID #

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored currently store or will store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.

This Individual Tank
Registration Applies
To (check one):

- 1. Tank still in active use
- 2. Inoperative or abandoned tank with product still in tank
- 3. Inoperative or abandoned tank with no known product in tank
- 4. Location for which tank has been removed
- 5. New tank to be installed (provide date): _____

A. IDENTIFICATION

1. Name of Installation <u>VOLK FIELD ANGB</u> Street Address of Installation <u>Camp Douglas</u> <input type="checkbox"/> City <input checked="" type="checkbox"/> Village <input type="checkbox"/> Town of:			2. Name for Mailing if Different Than # 1		
State <u>WT</u> Zip Code <u>54618-5001</u> County <u>JUNEAU</u>			Mailing Address if Different Than #1		
3. Name of Contact Person <u>MAJ ROBERT D. GREEN</u> Street Address			4. Name of Owner if Different from #3		
<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:			<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		
State _____ Zip Code _____ County _____			State _____ Zip Code _____ County _____		
Telephone Number (include area code) <u>1-608-427-1220</u>			Telephone Number (include area code)		
5. Fire Department Name and ID # <u>POC SMS STASZEWSKI</u> <u>VOLK FIELD FIRE DEPT</u>		6. Tank Age (date installed, if known; or years old) <u>1968, 18 YRS OLD</u>		7. If Tank Abandoned, Give Date (mo / day / yr)	
8. Tank Capacity (in gallons) <u>5,000</u>		9. Tank Manufacturer's Name, if known:			

B. TANK CONSTRUCTION:

- 1. Bare Steel
- 2. Cathodically Protected Steel
- 3. Coated Steel
- 4. Fiberglass
- 5. Other (specify): _____

C. TANK CONTENTS:

- 1. Diesel
- 2. Leaded Gasoline
- 3. Unleaded Gasoline
- 4. Fuel Oil
- 5. Gasohol.
- 6. Other (specify): _____

D. TYPE OF USER (check one):

- 1. Gas Station
- 2. Bulk Storage
- 3. Utility
- 4. Mercantile
- 5. Industrial
- 6. Government
- 7. School
- 8. Residential
- 9. Agricultural
- 10. Other (specify): _____

Signature of Person Completing Form: <u>Scott D. King</u> SCOTT D. KING TSG DEMLF	Date Completed: 18 FEB 1986
---	--------------------------------

REPORT OF AINLAY TTT TANK TEST

Company: Wisconsin Air National Guard
 Address: Volk Field
 City: Camp Douglas State: WI

Brand Name:
 Grade of
 Product: Unlead Gasoline

1) Minute Temperature Check

Start Time: 10:40
 Completion Time: 12:40

A	B	C	D	E	F
Temperatures					
Probes	: Start of Test	: End of Test	: Temp. Shift: (B from C) : + or -	: Multiply Column D by E	: Add up for Weight Shift
Top	: 40.53	: 40.48	: -.05	: x .25	: -.0125
Middle	: 40.65	: 40.61	: -.04	: x .50	: -.02
Bottom	: 40.52	: 40.46	: -.06	: x .25	: -.015

Add the three results in Column F (Weighted Ave. Temp. Shift: -.0475
 Tank dia. and lgth: 96" Gallon Capacity: 15,000
 Exact Water Level in tank bottom.
 Test Start: -0- Test End: -0-

2) Minute Volume Check

Start Time: 10:40
 Completion Time: 12:40

- Exact amount of liquid lost and replaced (-) or gained and removed (+) in fill pipe to restore original level : +.48
- API Gravity of tested liquid in graduate : 58.5
- Temperature of tested liquid in graduate : 42.5
- Subtract Line 6 from 60 degrees. (Result is + or -). : N/A
- Multiply Line 7 x .1 (+ x - = -/+ x + = +). : N/A
- Line 5 + or - Line 8 (API gravity adjusted for temperature). : 60.7
- With Line 9 enter Table C, Read Coefficient of Expansion. : .00068725
- Multiply Line 10 by Line 2 (Gallons) (Volume change for each degree of temperature change. : 10.308
- Multiply Line 11 by Line 1 (Volume change due to temperature). : -.4896
- Change sign of Line 12 (See Sec. 9.4) and add to line 4 mathematically (net change in gallons), + or - : +.9696 ÷ 2 = +.4848
- Double Check sign: - Product Lost
 + Product Gained

Note: NFPA Publication # 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a ~~loss~~/gain of (Line 13): +.48 gallons per hour it Does: X Does Not: meet the NFPA criterion for tank tightness.

Additional

Remarks: 5K tank manifolded to a 10K tank. 10K tank had a drop tube all the way to its bottom.

This certifies that the tanks described were tested by the undersigned and that the stated results represent the true state of the tanks on this date to the best of my knowledge.

Midwest Petroleum Service, Inc.

[Signature], Tester

Month: 12 Day: 27 Year: 89

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

*File
5-B-2
SR*

Send Completed Form To:
Safety & Buildings Division
Bureau of Petroleum Inspection
P.O. Box 7969
Madison, WI 53707
Telephone (608)266-8981

For Office Use Only:
Tank ID #

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored, currently store or will store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.

- This Individual Tank Registration Applies To (check one):
1. Tank still in active use
 2. Inoperative or abandoned tank with product still in tank
 3. Inoperative or abandoned tank with no known product in tank
 4. Location for which tank has been removed
 5. New tank to be installed (provide date): _____

A. IDENTIFICATION

1. Name of Installation VOLK FIELD ANGB			2. Name for Mailing if Different Than #1		
Street Address of Installation CAMP DOUGLAS			Mailing Address if Different Than #1		
<input type="checkbox"/> City	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:
State WI	Zip Code 54618-5001	County JUNEAU	State	Zip Code	County
3. Name of Contact Person MAJ ROBERT D. GREEN			4. Name of Owner if Different from #3		
Street Address			Street Address		
<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:
State	Zip Code	County	State	Zip Code	County
Telephone Number (include area code) 1-608-427-1220			Telephone Number (include area code)		
5. Fire Department Name and ID # POC SMS STASZEWSKI VOLK FIELD FIRE DEPT		6. Tank Age (date installed, if known; or years old)		7. If Tank Abandoned, Give Date (mo / day / yr)	
8. Tank Capacity (in gallons) 500		9. Tank Manufacturer's Name, if known:			

B. TANK CONSTRUCTION:

1. Bare Steel
2. Cathodically Protected Steel
3. Coated Steel
4. Fiberglass
5. Other (specify): _____

C. TANK CONTENTS:

1. Diesel
2. Leaded Gasoline
3. Unleaded Gasoline
4. Fuel Oil
5. Gasohol
6. Other (specify): _____

D. TYPE OF USER (check one):

1. Gas Station
2. Bulk Storage
3. Utility
4. Mercantile
5. Industrial
6. Government
7. School
8. Residential
9. Agricultural
10. Other (specify): _____

Signature of Person Completing Form: <i>Scott D. King</i> SCOTT D. KING, TSG DEMLF	Date Completed: 18 FEB 1986
---	---------------------------------------



United Detection Systems, Inc.

CERTIFIED UNDERGROUND STORAGE TANK TESTING - TANK REMOVALS - SITE ASSESSMENTS
SOIL BORINGS - SOIL SAMPLE ANALYSIS - REMEDIATION CLEAN-UP

UNDERGROUND TANK AND DISTRIBUTION LINES TEST REPORT

Date of Test December 12, 1990

Project Location Bldg 601

Address Volk Field Air National Guard Base

Camp Douglas, WI 54618

Contact _____

Comments _____

Tester Vernon Chaltry Tank Identification No. #1-Df#1/500

Signed Vernon Chaltry Date December 20, 1990

CERTIFICATION

Certified -Non-Leaker-

Leak Rate -0- Gallons/Hour -0-

I hereby certify and swear to the best of my knowledge and belief that this is a true and complete report on the tightness of the tank described herein.

I further swear that I have not colluded with any person, private or public, to alter or amend this report.

Signed Vernon Chaltry

(Seal)

Subscribed and sworn to before me by

Carol J. Hamblen

this 20 day of December 1990.

Commission Expires 9/86 CORPORATE OFFICES 3466 HIGHWAY 41, DE PERE, WI 54115

1-800-448-1278 (715) 735-9520 FAX (414) 532-6134
IN ILLINOIS 400 E. SIBLEY BLVD., HARVEY, IL 60426
1-800-526-1788 (312) 210-3313 FAX (708) 672-6661

UNITED DETECTION SYSTEMS, INC.

UNDERGROUND TANK LEAK DETECTION

REPORT FORM

S/S LOCATION Bldg 601 DATE 12-12-90

Valk Field

S/S NUMBER Camp Douglas, WI

SKETCH OF S/S SHOWING TANK LOCATIONS

TANK	1	2	3	4	5	6
PRODUCT	DF#1					
TANK SIZE (GALS.)	500					
TANK IDENTIFICATION						
TYPE OF PUMP	Suc					

DISTRIBUTION LINE LEAK TEST

TYPE OF PUMP - SUBMERGED SYSTEM WAS TIGHT
VISUAL INSPECTION CONDUCTED

OR SUCTION
OR LEAK IS INDICATED

COMMENTS

UNITED DETECTION SYSTEMS, INC.

Underground Tank Leak Detection

DATA SHEET

Operator Vern Date 12-12-90 Time 0930
Tank Size (Gals) 500
Product DF#1
Tester Installed Product Riser Riser Size 3"
IN Vapor Riser
Tester ID _____

INITIAL MEASUREMENTS

Water Level: Start 0 End 0

UNITED DETECTION SYSTEMS, INC.

UDS Tester Assembly Calculation Sheet

BLOG 601 500 DF#1

Product level (A) A 44

Distance from top of riser to bottom of tank (C) C 86

Distance from top of riser to top of tank (D) D 38

Tank diameter (B = C - D) B 48

Fraction of tank filled (A ÷ B) .917

Float depth in tank diameters (X)
(from Table 2) X .721

Length of float below the surface (h)
(h = X B) h 34.61

Minimum length of float required for test (h+4.5) 39.11

Length of float used (L) L 48

Length of float above the surface (L - h) 13.39

Distance hinge pin above surface (H)
(H = L - h + 1") H 14.39

Length of adjuster rod (J)
(J = C - A - H) J 27.61

Calculate amount of weight required

Type of fuel in tank UNL R P W O DF#1

Density of fuel (ρ) ρ .947

Total weight of float (W)
(W = hρ 80.440) W 2358.0721

Weight of float used (w)
(from Table 4) w 1371

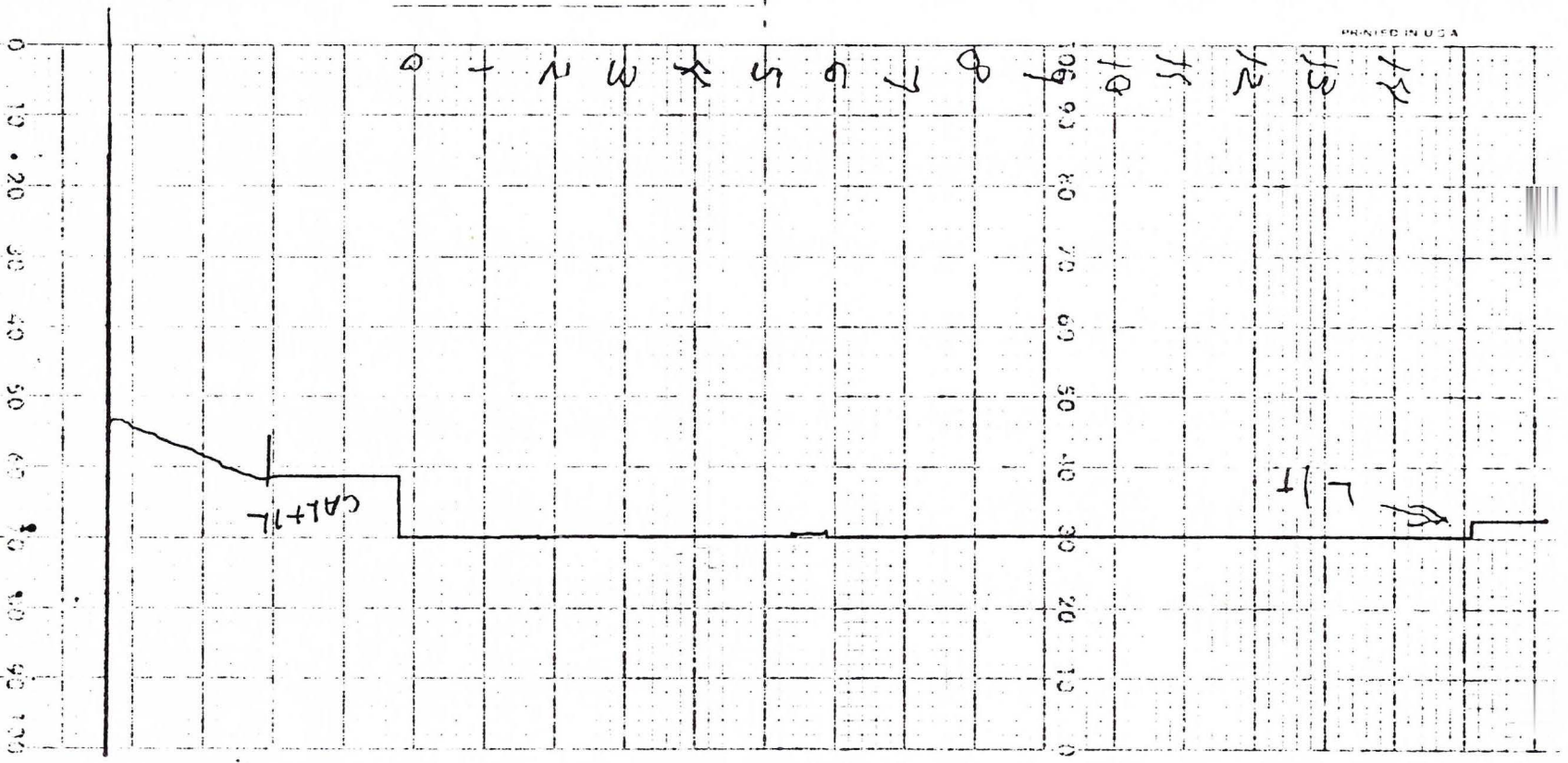
Amount of weight required (R)
(R = W - w) R 1037.0721

Units of weight required (U)
(U = R ÷ 60) U 17.28

Units of weight used
(U Rounded to the nearest 0.5) 18

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UNITED DETECTIONS SYSTEMS, INC.

UDS Test, Reduction Of Data

TEST I.

A. Measured Data

Voltage at start of calibration	(Ci)	<u>61</u>
Voltage at end of calibration	(Cf)	<u>70</u>
Voltage at end of test (Vf) <u>70</u> Time at end	(tf)	<u>1</u>
Voltage at start of test (Vi) <u>70</u> Time at start	(ti)	<u>0</u>
Volume added for calibration	(P)	<u>1</u> Liters

B. Calculations

Fractional change of tank level ($A = Vf \div Vi$)	A	<u>1 = 0</u>
Fractional change resulting from calibration volume ($B = Ci \div Cf$)	B	<u>.871 = .138</u>
Fractional volume change ($n = \text{LOG } A \div \text{Log } B$)	n	<u>0</u>
Volume change during test ($N - np$)	N	<u>0</u> Liters
Duration of test ($t = tf - ti$)	t	<u>1</u> Hours
Leak Rate ($LR = N \div t$) x 0.26	LR	<u>0</u> Gal/Hr.

TEST II.

A. Measured Data

Voltage at start of calibration	(Ci)	<u>61</u>
Voltage at end of calibration	(Cf)	<u>70</u>
Voltage at end of test (Vf) <u>70</u> Time at end	(tf)	<u>30</u>
Voltage at start of test (Vi) <u>70</u> Time at start	(ti)	<u>0</u>
Volume added for calibration	(P)	<u>1</u> Liters

B. Calculations

Fractional change of tank level ($A = Vf \div Vi$)	A	<u>1 = 0</u>
Fractional change resulting from calibration volume ($B = Ci \div Cf$)	B	<u>.871 = .138</u>
Fractional volume change ($n = \text{LOG } A \div \text{LOG } B$)	n	<u>0</u>
Volume change during test ($N = np$)	N	<u>0</u> Liters
Duration of test ($t = tf - ti$)	t	<u>.5</u> Hours
Leak Rate ($LR = N \div t$) x 0.26	LR	<u>0</u> Gals/Hr.