DEPARTMENT OF THE ARMY
HEADQUARTERS FORT McCOY
SPARTA, WISCONSIN 54656-5000

April 5, 1995

REPLY TO
ATTENTION OF

Environmental Management Division

Tank Response Unit-SW/3
Department of Natural Resources
P.O. Box 7921
Madison, Wisconsin 53707

Dear Sir or Madam:

Enclosed is a site assessment report for an underground storage tank (UST) which was located adjacent to Building 2177, Fort McCoy. Based on field observations and laboratory analysis, it is the feeling of Remedial Services, Inc. and Fort McCoy that a petroleum release did not occur at this site and no further action is warranted. If you have any questions concerning this or any other Fort McCoy UST removals, please contact the undersigned at (608) 388-4789.

Sincerely,

Kurt Brownell

Kurt A. Brownell
Environmental Protection
Specialist, Environmental
Management Division,
Directorate of Public Works

Enclosure

11-16-94

MONROE WD

SITE ASSESSMENT FOR UNDERGROUND STORAGE TANK

BUILDING 2177
FORT MCCOY, WISCONSIN

Underground

PREPARED FOR:

J&D ENTERPRISES, INC.
5197 LAVAQUE ROAD, DULUTH, MN 55803

PREPARED BY:

REMEDIATION SERVICES, INC.
102 SOUTH 29th AVENUE WEST, SUITE 100 DULUTH, MINNESOTA 55806
(218) 722-6013

WCR

MARCH 1995

RSI
Remediation Services, Inc.
Environmental Consultants
102 S 29th Ave W, Suite 100 • Duluth, Minnesota 55806
Phone: (218) 722-6013 Fax: (218) 722-6319

March 13, 1995

Mr. Rick Toland
J&D Enterprises, Inc.
5197 Lavaque Road
Duluth, Minnesota 55803

RE: *Site Assessment for Underground Storage Tank - Building 2177, Fort McCoy, Wisconsin.*

Dear Mr. Toland:

Remediation Services, Inc. (RSI) has completed it's services for the above-mentioned project. The scope of the project was to remove an abandoned 560 gallon leaded gasoline UST from the above mentioned site, and also to assess the tank system for evidence of a release.

Based on field observations, laboratory analytical results of soils collected from the excavation, and the document entitled *Site Assessment for Underground Storage Tanks Technical Guidance* (WDNR PUBL-SW-175-93), it is the opinion of RSI that a release from this system did not occur, and that further environmental investigation into the soils surrounding the tank is not warranted.

This site assessment report is being submitted in duplicate for your review. Upon approval, please send one copy to:

TANK RESPONSE UNIT - SW/3
DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 7921
MADISON, WISCONSIN 53707

Thank you for allowing RSI to be of service to you. If you have any questions on any aspect of the project, please call me at (218) 722-6013.

Sincerely,

REMEDIATION SERVICES, INC.

GARY A. JOHNSON
Environmental Geologist

GAJ:lmr
enclosures

SITE ASSESSMENT FOR UNDERGROUND STORAGE TANK

Underground Storage Tank Removal and Site Assessment
Wisconsin Department of Natural Resources
Wisconsin Department of Industry, Labor and Human Relations
Environmental Response & Repair Program

I. BACKGROUND

A. **Site:**
Fort McCoy - Building 2177
Street:
City, Zip: Ft. McCoy, 54656
County:
Legal Description:
$NE\frac{1}{4}$ of $NW\frac{1}{4}$ of $SW\frac{1}{4}$, S 25, T18N, R3W

B. **Tank Owner/Operator:**
Department of the Army
Mailing Address:
Fort McCoy Contracting
Street/Box: Building 2103
City, Zip: Fort McCoy, 54656
Telephone: (608) 388-2924

C. **Tank Remover:**
J&D Enterprises, Inc.

Contact: Todd Nylander
Telephone: (218) 729-9105
Certification #: 03684

D. **Site Assessor:**
Remediation Services, Inc.
ILHR 10 Registration #: 00928
Contact: Gary Johnson
Street/Box: 102 S 29th Ave West
City/Zip: Duluth, MN 55806
Telephone: (218) 722-6013

E. Others on-site during site work (e.g., fire marshall local officials, WDNR staff, etc.):
Tim Shea (I-Net Phone Co.), Don Schonansky (Engineering), Kurt Brownell, (Environmental)

Note: If person other than tank owner and/or operator is conducting the closure, provide name, address, and relationship to site on a separate attached sheet.

II. DATES

A. Date release reported to WDNR: No evidence of a release was discovered.

B. Dates site work performed:

Work Performed	Date
Excavate soil to expose top of tank and locate utilities	11/15/94
Remove 1-560 gallon leaded gasoline UST (abandoned) and performed Site Assessment	11/16/94

III. BACKGROUND INFORMATION

A. Describe past and present property use.
This site was used as a filling station for the base. The tank was abandoned several years ago and the site is no longer used.

B. Provide the following information for all removed tanks.

Tank 1: Capacity 560 gallons Type bare steel Age Unk

Condition: Poor - holes on sides and top; rusted and full of water (130 gallons); rusted seam with irregular shaped rust holes retaining maximum diameter of 3/4" on top and side of tank.

Product history: Leaded gasoline

Approximate quantity of petroleum released, if known:
Evidence of a release was not detected

Cause of release:
N/A

Tank 2: Capacity _____ Type _____ Age _____

Condition:

Product history:

Approximate quantity of petroleum released, if known:

Cause of release:

Tank 3: Capacity _____ Type _____ Age _____

Condition:

Product history:

Approximate quantity of petroleum released, if known:

Cause of release:

C. Provide the following information for all existing tanks.

Tank No.	Capacity	Contents	Type	Age
N/A				

D. Describe the condition of the piping system:
Piping was intact with only surface rusting; no noticeable leaks or breaks.

E. Describe the nature of any known releases:
None

F. Describe any past system repairs:
Unknown

G. Describe results of previous geotechnical or environmental investigations:
Unknown

IV. EXCAVATION

A. Dimensions of excavation: ~16'Long X 10'Wide X 8.5'Deep

B. Original tank backfill material (sand, etc.): Gravelly sand(SP)

C. Native soil type (clay, sand, etc.): Fine-med grained sand (SP)

D. Quantity of contaminated soil removed (cubic yards): 0

E. Was ground water encountered or was there evidence of a seasonally high ground water table? At what depth?
Groundwater was not encountered in the excavation, however, water present in the tank may possibly suggest a seasonably high water table.

F. If ground water was encountered, was there evidence of ground water contamination? Specify, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc.

Water in the tank had no petroleum, but a slight sheen was noticed.

G. Was bedrock encountered in the excavation? At what depth?
Bedrock was not encountered

H. Were other unique conditions associated with this site? If so, explain.
No

V. SAMPLING

A. Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil:

Soils freshly exposed in the excavation and materials in the stockpile were visually observed for evidence of contamination.

Contaminated soils were further identified and segregated using jar headspace techniques described in LUST Field Screening Procedures (PUBL-SW-176). A MicroTIP PID (Model MP-1000) with a 10.6 eV lamp was used to measure total organic vapors in volume parts per million (v/v) of a benzene equivalent (100 ppm isobutylene). Manufacturer's instructions were followed for operation, maintenance, and calibration of this instrument.

B. List soil vapor headspace analysis results. Indicate sampling locations using sample codes (with sampling depths in parentheses), e.g. R-1 (2 feet), R-2 (10 feet), etc. "R" stands for "removed." Samples collected at different depths at the same location should be labeled R-1A (2 feet), R-1B (4 feet), R-1C (6 feet), etc. If the sample was collected from the sidewall or bottom after excavation was complete, label it S-1 (for sidewall) or B-1 (for "bottom". Be sure the sample codes correspond with the site map required in part VI, below.

Sample Code	Soil Type	Reading ppm	Bottom/ Sidewall
R-1 (5′)	Sand	0.0	Backfill
B-1 (8.5′)	Sand	0.0	B
B-2 (8.5′)	Sand	0.0	B
R-2 (5′)	Sand	5.3	
B-3 (7′)	Sand	4.2	B
B-4 (4.5′)	Sand	1.4	B
B-5 (7′)	Sand	3.2	B

C. Briefly describe the soil analytical sampling and handling procedures used:

Grab samples were taken from previously unexposed native soils and placed into jars, preserved and analyzed according to Wisconsin Department of Natural Resources Modified Gasoline Range Organic (GRO) and/or Diesel Range Organic (DRO) method.

Sampling tools were cleaned between all sampling points and new disposable gloves were used for each sample collected. Care was taken to insure that correct sample temperature was maintained and that appropriate holding times were adhered to.

D. List below the soil sample analytical results from the bottom and sidewall samples (i.e., soils left in place when excavation is complete). Code the samples with sampling depths in parentheses as follows: sidewall samples S-1 (8 feet), S-2 (4 feet), etc.; bottom samples B-1 (13 feet), B-2 (14 feet), etc. Be sure the sample codes correspond to the site map required in part VI.

Sample Code	GRO/DRO	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
SS-1 (8.5′)	<PQL GRO	N/A	N/A	N/A	N/A	N/A	N/A
SS-2 (8.5′)	<PQL GRO	N/A	N/A	N/A	N/A	N/A	N/A
SS-3 (7′)	<PQL GRO	N/A	N/A	N/A	N/A	N/A	N/A
SS-4 (4.5′)	<PQL GRO	N/A	N/A	N/A	N/A	N/A	N/A
SS-5 (7′)	<PQL GRO	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS MUST BE INCLUDED.

E. List below the water sample analytical results (if collected).

Sample Code	GRO/DRO	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
N/A							

NOTE: COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS MUST BE INCLUDED.

VI. DOCUMENTATION OF TANK, WASTE PRODUCT AND SLUDGE DISPOSAL

Indicate if tank contractor is supplying information (list company, address, phone and contact):

A. Tank cleaning method: Purged and cleaned (see attached sheet).

B. Firm which removed and cleaned tank: J&D Enterprises, Inc., Duluth, MN 55803 and J&D Services, Inc., Virginia, MN 55792.

C. Final destination of tanks and waste products removed: Tanks were cut and cleaned on site and were transported by J&D to Fort McCoy's scrap yard on base. See attached scrap ticket.

D. Types and quantities of materials collected during cleaning: ~165 gallons of water was hand bailed from the tank with 5 gallon buckets into barrels. No tank sludge was encountered.

E. Methods and firms used to store, transport and dispose of tank waste residues: Waste water will be picked up on 3/23/95 by WRR, Eau Claire, WI 54701.

F. Waste characterization data: J&D will provide this information.

G. Disposal or treatment of contaminated soil and backfill: None

H. Attach copies of:
   1) Tank inventory forms for all tanks being closed
   2) Hazardous Waste Manifest and EPA generator ID numbers. J&D will provide this information.

VII. FIGURES

Attach the following figures to this report:

1. Site location map.
2. Site map(s) drawn to scale illustrating the following:
   a. Location (or former location) of all present and former tanks, lines, and dispensers;
   b. location of other structures (buildings, canopies, etc.);
   c. adjacent city, township, or county roadways;
   d. final extent of excavation;
   e. location of soil vapor analyses (e.g. R-1), soil samples (e.g., S-1), and soil borings (e.g. SB-1). Also, attach all boring logs.
   f. North arrow and map legend.

VIII. SUMMARY

On November 15th and 16th, 1994, Remediation Services, Inc. (RSI) provided site assessment services for the removal of an abandoned 560 gallon leaded gasoline UST and piping at Building 2177, Fort McCoy, Wisconsin (Figure 1).

The weather conditions during the tank closure ranged from sunny and 50°-55° on November 15th to mostly clear with frost and 25°-30° temperatures on November 16, 1994.

The UST system was an abandoned 4′ X 6′ bare steel UST, and associated piping. The tank was rusted and in poor condition with holes half-way up the side of the tank and one hole in the top of the tank. Before removal, a hole was made in the top of the tank and approximately 165 gallons of water was hand-bailed from the tank into plastic drums. The water had no odor, but a slight sheen was noticed.

The bare steel piping connected to the tank appeared to be in good condition with only surface rust and no noticeable breaks or leaks and. One section of the piping ran approximately 5½′ north to the center of a 3′X 3′ concrete slab, formerly the base of a dispenser island (Figure 2). It appeared that the dispenser had been removed several years ago. The piping for the remote fill and vent ran approximately 18′ and 20′ respectively westward to the front of the building. Piping ranged in depth from 1′ to 3′ below grade.

The original backfill consisted of a light brown, fine to medium grained sand with gravel. The native soils encountered in the excavation included fine to medium grained sands beneath approximately 6" of black topsoil, and 6" of yellow/tan broken up sandstone. The sands ranged in color from a light brown, fine to medium grained sand to a depth of 3½′ below grade; a fine to medium grained grayish sand to 7½′; and a fine grained white to tan sand beneath. Neither bedrock nor groundwater were encountered in the excavation.

Soils were monitored using a portable PID (MicroTip Model MP-1000). Headspace readings obtained from the excavation ranged from 0.0 ppm to 5.3 ppm. These readings are listed in part V.B. of this report. Figure 3 shows the approximate soil sample locations. No petroleum odors were observed in any of the samples. The excavated soils were later backfilled into the excavation.

Five soil samples were taken from the excavation for laboratory analysis (see Figure 4 for sample locations). Analytical results for all samples gave GRO readings at lower than WDNR action levels.

Based on field observations and laboratory analytical results taken from the excavation, it is the opinion of RSI that a petroleum leak has not occurred at this site. RSI therefore recommends that further investigation into a release of petroleum from this UST system is not warranted.

IX. CONSULTANT PREPARING THIS REPORT

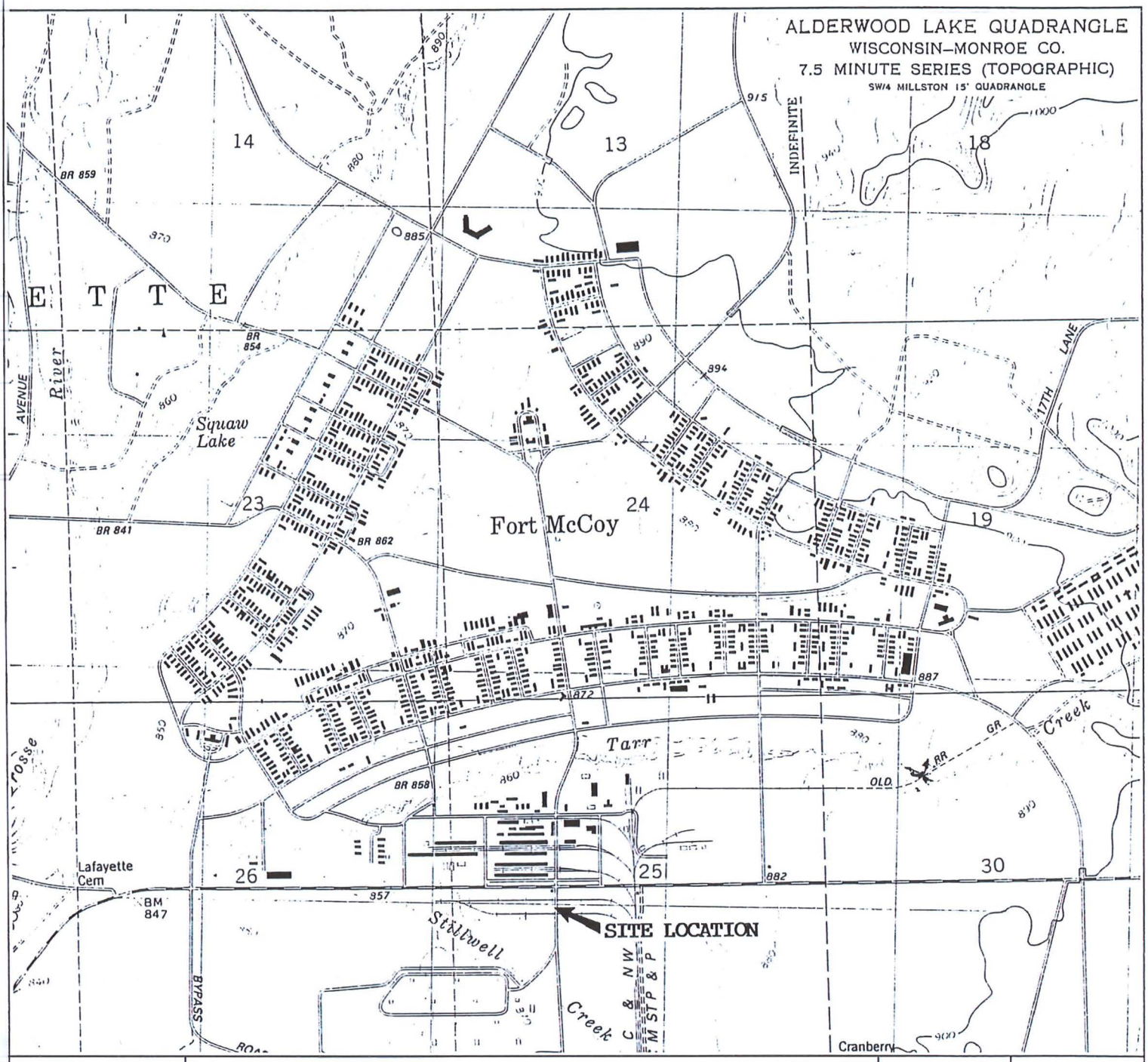
Company Name: Remediation Services, Inc.
Street/Box: 102 South 29th Avenue West Suite 100
City, Zip: Duluth, Minnesota 55806
Telephone: (218) 722-6013
Contact: Gary A. Johnson

Signature: Gary A. Johnson Date: 3/16/95 Cert # 05345

If additional investigation is not required at the site, please mail this form and all necessary attachments to:

Tank Response Unit - SW/3
Department of Natural Resources
P.O. Box 7921
Madison, Wisconsin 53707

FIGURES



RSI
ENVIRONMENTAL CONSULTANTS

FIGURE 1
SITE LOCATION MAP – BUILDING 2177

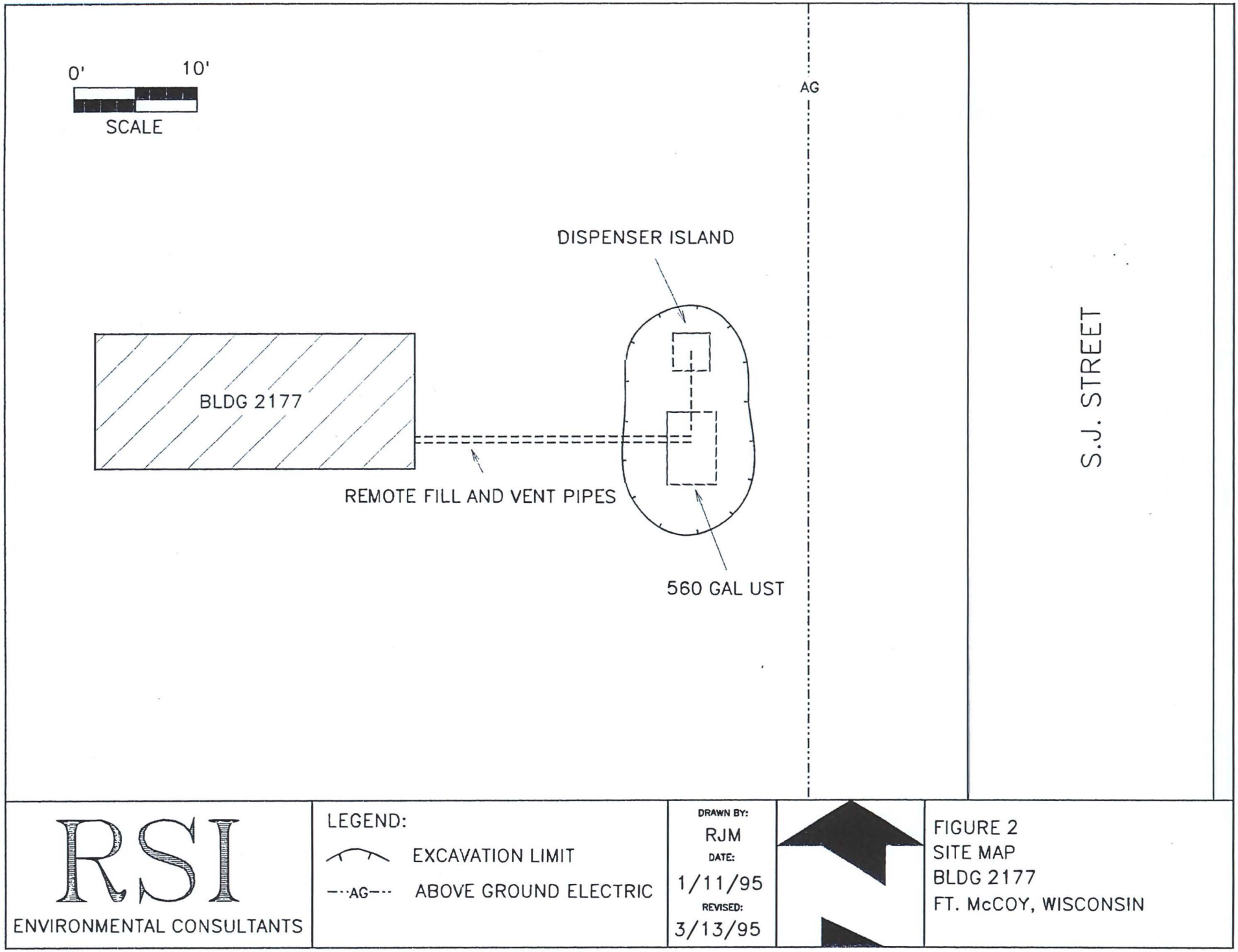
WISCONSIN
QUADRANGLE LOCATION

SCALE 1:24,000

1 0 MILES 1 2

5000 0 FEET 5000 10000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

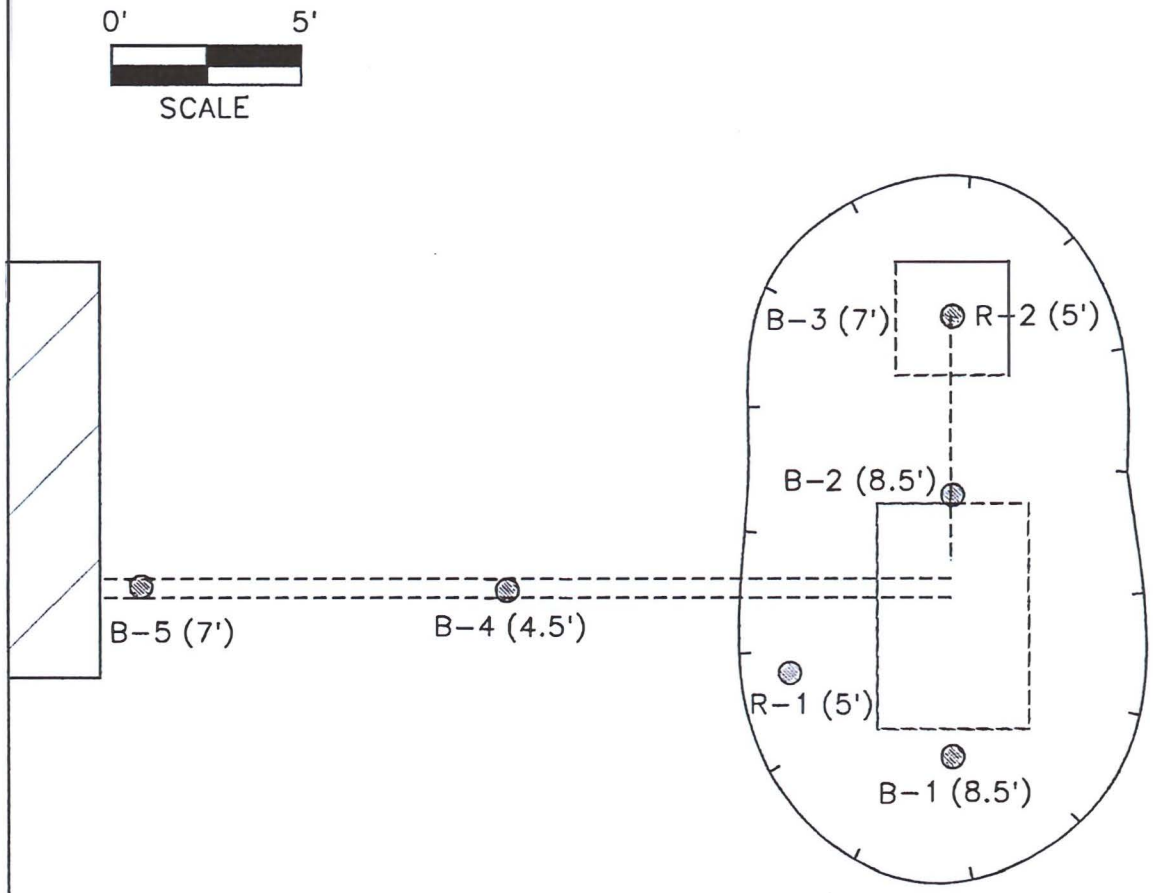


RSI
ENVIRONMENTAL CONSULTANTS

LEGEND:
EXCAVATION LIMIT
---AG--- ABOVE GROUND ELECTRIC

DRAWN BY: RJM
DATE: 1/11/95
REVISED: 3/13/95

FIGURE 2
SITE MAP
BLDG 2177
FT. McCOY, WISCONSIN

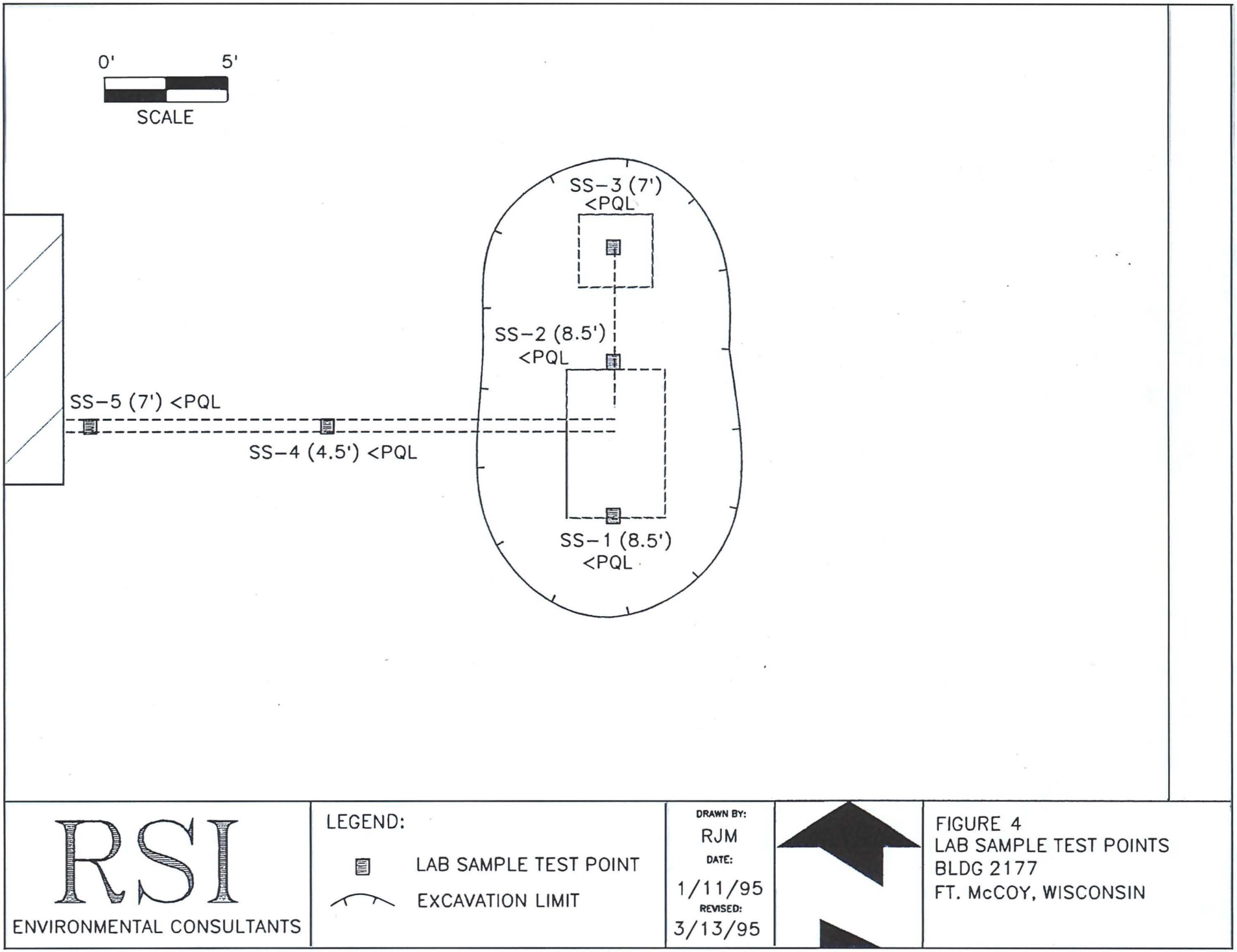


RSI
ENVIRONMENTAL CONSULTANTS

LEGEND:
SOIL VAPOR TEST POINT
EXCAVATION LIMIT

DRAWN BY:
RJM
DATE:
1/11/95
REVISED:
3/13/95

FIGURE 3
SOIL VAPOR TEST POINTS
BLDG 2177
FT. McCOY, WISCONSIN



RSI
ENVIRONMENTAL CONSULTANTS

LEGEND:

LAB SAMPLE TEST POINT

EXCAVATION LIMIT

DRAWN BY:
RJM
DATE:
1/11/95
REVISED:
3/13/95

FIGURE 4
LAB SAMPLE TEST POINTS
BLDG 2177
FT. McCOY, WISCONSIN

LABORATORY REPORTS

Accurate Environmental Testing 2231 Catlin Avenue #420 ◆ Superior WI 54880
PHONE: (715) 392-5844 ◆ FAX: (715) 394-7414 ◆ (800)TEST-AET 837-8238

Remediation Services, Inc.
102 South 29th Avenue West..Suite 100
Duluth, MN 55806

Chain of Custody 94339
Project Name: Fort McCoy
Client: Building 2177
Sampler Name: Gary A. Johnson

Collected on		11/16/94	11/16/94	11/16/94	11/16/94	11/16/94	11/16/94
Received on		11/18/94	11/18/94	11/18/94	11/18/94	11/18/94	11/18/94
GRO Analyzed on		11/26/94	11/26/94	11/26/94	11/26/94	11/26/94	11/26/94
Sample Description		South End Tank	North End Tank	Dispenser Island	Piping 4.5'	Remote Fill Pipe	Trip Blank
Sample I.D.		SS-1	SS-2	SS-3	SS-4	SS-5	MeOH
Lab I.D.		1595	1596	1597	1598	1599	1600
Parameter	PQL	SOIL	SOIL	SOIL	SOIL	SOIL	MeOH
% Moisture	NA	5%	14%	5%	3%	5%	NA
Temperature	NA	on ice	on ice	on ice	on ice	on ice	on ice
Gasoline Range Organics	10 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL	< PQL
Comments	none	none	none	none	none	none	none

PQL indicates that practical quantitation limits were not met in analyses.
NA implies that this parameter was not analyzed or not applicable to test run

Filled out by: Jay Thompson Date: 12/9/94 4:05 PM

The following tests were performed according to the WI DRN specification listed in ch. NR 149 of the WI Adm. Code. WI DNR Certification # 816079330

ACCUTEST
ENVIRONMENTAL
TESTING
2231 CATLIN SUITE 420
SUPERIOR, WI 54880

CHAIN OF CUSTODY RECORD
AND
REQUEST FOR ANALYSIS

TOLL FREE (800) TEST-AET
LAB (715) 392-5844
FAX (715) 394-7414

CLIENT: Fort McCoy,
PROJECT ID: Fort McCoy, Bldg 2177
REPORTS TO BE SENT TO: Remediation Services, Inc. (RSI)
SAMPLER NAME: Gary A. Johnson
SAMPLER SIGNATURE: Gary A. Johnson
REMARKS:
BILLING ADDRESS: RSI, 102 South 29th Avenue West, Suite 100, Duluth, MN 55806

NO. OF CONTAINERS	COMP.	GRAB	DATE	TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX: OTHER	SAMPLE IDENTIFICATION: SAMPLE	SAMPLE NO.	LABORATORY I.D. NO.	GRO (includes BTEX)	DRO	BTEX	VOC (465-D)	PAH	Pb (Diss. or Total)	RCRA 8 METALS	BOD or CBOD	TSS	FOOL or TCOL	HCl	HNO3	PRESERVATIVE: MeOH	PRESERVATIVE: ICE	PRESERVATIVE: OTHER
2		X	11/16/44	11:15 Am		X		SS-1 (8.5') South end of tank	1	1595	X												X	X	
2		X	11/16/44	11:30 Am		X		SS-2 (8.5') North end of tank	2	1596	X												X	X	
2		X	11/16/44	11:45 Am		X		SS-3 (7') dispenser island	3	1597	X												X	X	
2		X	11/16/44	12:15 pm		X		SS-4 (4.5') piping	4	1598	X												X	X	
2		X	11/16/44	12:00 pm		X		SS-5 (7') remote fill pipe	5	1599	X												X	X	
1			11/16/44					Trip Blank	6	1600	X												X	X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Gary A. Johnson	11/18/44 5:15 PM	Richard Allen			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Contents Temperature:
Comments on Sample Condition:

CHECK HERE FOR DRINKING WATER DETECTION LIMITS ☐

TURNAROUND TIME REQUIRED:
☒ NORMAL ☐ RUSH

DATE REQUIRED:

SINCE 1972
TWIN PORTS TESTING INC.

1301 NORTH THIRD STREET • SUPERIOR, WISCONSIN 54880
(715) 392-7114 • FAX (715) 392-7163

728 GARFIELD AVENUE • DULUTH, MINNESOTA 55802
(218) 722-1911 • FAX (218) 722-3295

8 INDUSTRIAL PARK ROAD • NEGAUNEE, MICHIGAN 49866
(906) 226-6553 • FAX (906) 226-3699

LABORATORY REPORT

Firm J & D ENTERPRISES

TPT Lab No. see bleow

Material water gas-fuel oil mix

Taken By Todd Norlander

Date Received 12/26/94

Date Tested 12/26/94

Sample Designation Fort McCoy flashhpoints

DATA

LSL #	SAMPLE ID	FLASHPOINT('F)
5024-94LS	SS-8	+150
5025-94LS	SS-1	130
5026-94LS	SS-7	> 55

NOTE: These samples were analyzed using the Pensky-Martens closed cup method (ASTM D 93). This test does not determine nor imply the amount of volatile constituents a sample may or may not contain. This is not a test for total petroleum hydrocarbons.

Post-it™ Fax Note 7671	Date 2/17	# of pages ▶ 2
To Rick	From Jim Barr	
Co./Dept. J+D	Co. TPT	
Phone #	Phone # 392-7114	
Fax # 729296	Fax #	

PREPARED BY James P. Barr **DATE** 2-17-95

REVIEWED BY Karen L. Ellis **DATE** 2-17-95

Client
J+D Ent ?

SINCE 1972

TWIN PORTS TESTING, inc.

1301 NORTH THIRD STREET - SUPERIOR, WISCONSIN 54880
FAX # (715) 392-7163 - (715) 392-7114

LABORATORY REQUEST AND CHAIN OF CUSTODY RECORD

№ 1346

PROJECT NO. | PROJECT NAME: Fort McCoy

SAMPLERS: (Signature) Todd Nylander

SAMPLE NO.	DATE	TIME	SAMPLE MATRIX: AIR	LIQUID	SOLID	SAMPLE LOCATION	NO. OF CONTAINERS	BTEX	TPH gasoline	TPH fuel oil	VOC	LEAD	MTBE	FLASH POINT	REMARKS
SS-8	12/22	Noon		X		Fuel Tank	1	Diff @ or below 150°F					X		LSL 5024
SS-1	"	12:30				" " 6-115	1	130°F					X		LSL 5025
SS-7	"	12:45				" " Fuel	1	Below 150°F Temp					X		LSL 5026

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
Todd Nylander	12/29/94 9 AM	Bill Donovan	Bill Donovan	12/29/94	Dawn Peterson 12-30-94
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)
		P.M. Anderson			
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY:	DATE / TIME	REMARKS	

WRR™
Waste Research & Reclamation Co. Inc.
715-834-9624 FAX 715-836-8785
5200 State Road 93, Eau Claire, Wisconsin 54701

Printed on recycled paper

DATE: March 7, 1995 TO: J & D Services

RE: PROFILE ID#: 95030046 -1HE802

CUSTOMER: Fort McCoy

MATERIAL: Water

Since a sample of your UST material was not provided, WRR is unable to provide a specific classification. See current ***UST PRICING SCHEDULE*** for estimated cost of disposal. **Off-specification material will result in a price adjustment.**

Transportation of this material requires special licenses and paperwork. WRR will handle all necessary paperwork for the transportation of your material.

In order for you to have a pick-up of your material or delivery of a product, you must call our Dispatch Office at 715-836-8774 or 715-836-6722.

If you have any questions concerning this proposal, please call. Thank you.

UST INFORMATION

Wisconsin Department of Industry, Labor and Human Relations

Complete one form for each site closure.

CHECKLIST FOR UNDERGROUND TANK CLOSURE

RETURN COMPLETED CHECKLIST TO:
Safety & Buildings Division
Fire Prevention & Underground Storage Tank Section
P. O. Box 7969, Madison, WI 53707

A. IDENTIFICATION: (Please Print) Indicate whether closure is for: ☒ Tank System ☐ Tank Only ☐ Piping Only

1. Site Name	2. Owner Name
Fort McCoy	Department of the Army
Site Street Address (not P.O. Box)	Owner Street Address
Building 2177	Headquarters
☐ City ☒ Village ☐ Town of:	☐ City ☒ Village ☐ Town of: State: WI Zip Code: 54656
Fort McCoy	Fort McCoy
State: WI Zip Code: 54656 County: Monroe	County: Monroe Telephone No. (include area code): ( )

3. Closure Company Name (Print)	Closure Company Street Address
J&D Enterprises of Duluth, Inc.	5197 Lavaque Road
Closure Company Telephone No. (include area code)	Closure Company City, State, Zip Code
(218) 729-9105	Duluth, MN 55803
4. Name of Company Performing Closure Assessment	Assessment Company Street Address, City, State, Zip Code
Remediation Services, Inc.	102 South 29th Avenue West, Suite 100, Duluth, MN 55806

Telephone # (include area code)	Certified Assessor Name (Print)	Assessor Signature	Assessor Certification No.
(218) 722-6013	Gary A. Johnson	Gary A. Johnson	05345

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1.	☒	☐	☐	560	02	☐ Y ☐ N
2.	☐	☐	☐			☐ Y ☐ N
3.	☐	☐	☐			☐ Y ☐ N
4.	☐	☐	☐			☐ Y ☐ N
5.	☐	☐	☐			☐ Y ☐ N
6.	☐	☐	☐			☐ Y ☐ N

* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 09-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(s) _____ _____ _____; 14-Kerosene; 15-Aviation.

Written notification was provided to the local agent 15 days in advance of closure date. ☒ Y ☐ N ☐ NA
All local permits were obtained before beginning closure. ☒ Y ☐ N ☐ NA

Check applicable box at right in response to all statements in Sections B - E.

	Remover Verified	Inspector Verified	NA
B. TEMPORARILY OUT OF SERVICE			
Written inspector approval of temporary closure obtained, which is effective until (provide date) _____	☐ Y ☐ N	☐	☐
1. Product Removed			
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	☐ Y ☐ N	☐	☐
b. All product removed to bottom of suction line, OR	☐ Y ☐ N	☐	☐
c. All product removed to within 1" of bottom.	☐ Y ☐ N	☐	☐
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	☐ Y ☐ N	☐	☐
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	☐ Y ☐ N	☐	☐
4. Dispensers/pumps left in place but locked and power disconnected.	☐ Y ☐ N	☐	☐
5. Vent lines left open.	☐ Y ☐ N	☐	☐
6. Inventory form filed indicating temporary closure.	☐ Y ☐ N	☐	☐
C. CLOSURE BY REMOVAL			
1. Product from piping drained into tank (or other container).	☒ Y ☐ N	☐	☐
2. Piping disconnected from tank and removed.	☒ Y ☐ N	☐	☐
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	☒ Y ☐ N	☐	☐
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	☒ Y ☐ N	☐	☐
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. **NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.**	☒ Y ☐ N	☐	☐
6. Vent lines left connected until tanks purged.	☒ Y ☐ N	☐	☐
7. Tank openings temporarily plugged so vapors exit through vent.	☒ Y ☐ N	☐	☐
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	☒ Y ☐ N	☐	☐
9. Tank removed from excavation after **PURGING/INERTING**; placed on level ground and blocked to prevent movement.	☒ Y ☐ N	☐	☐
10. Tank cleaned before being removed being removed from site.	☒ Y ☐ N	☐	☐

- CONTINUE ON NEXT PAGE -

C. CLOSURE BY REMOVAL (continued)

	Remover Verified	Inspector Verified	NA
11. Tank labeled in 2" high letters after removal but before being moved from site.	☒ Y ☐ N	☐	☐
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.			
12. Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site.	☒ Y ☐ N	☐	☐
13. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal.	☒ Y ☐ N	☐	☐
14. Site security is provided while the excavation is open.	☒ Y ☐ N	☐	☐

D. CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT.

1. Product from piping drained into tank (or other container).			
2. Piping disconnected from tank and removed.	☐ Y ☐ N	☐	☐
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	☐ Y ☐ N	☐	☐
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	☐ Y ☐ N	☐	☐
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	☐ Y ☐ N	☐	☐
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE.			
6. Vent lines left connected until tanks purged.	☐ Y ☐ N	☐	☐
7. Tank openings temporarily plugged so vapors exit through vent.	☐ Y ☐ N	☐	☐
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	☐ Y ☐ N	☐	☐
9. Tank properly cleaned to remove all sludge and residue.	☐ Y ☐ N	☐	☐
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled.	☐ Y ☐ N	☐	☐
11. Vent line disconnected or removed.	☐ Y ☐ N	☐	☐
12. Inventory form filed by owner with Safety and Buildings Division indicating closure in place.	☐ Y ☐ N	☐	☐

E. CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.

1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site.	☒ Y ☐ N	☐	☐
2. Do points of obvious contamination exist?	☐ Y ☒ N	☐	☐
3. Are there strong odors in the soils?	☐ Y ☒ N	☐	☐
4. Was a field screening instrument used to pre-screen soil sample locations?	☒ Y ☐ N	☐	☐
5. Was a closure assessment omitted because of obvious contamination?	☐ Y ☒ N	☐	☐
6. Was the DNR notified of suspected or obvious contamination?	☐ Y ☒ N	☐	☐

Agency, office and person contacted: _____

7. Contamination suspected because of: ☐ Odor ☐ Soil Staining ☐ Free Product ☐ Sheen On Groundwater ☐ Field Instrument Test

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

☐ Educator Or Diffused Air Blower

Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground. Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

☐ Dry Ice

Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.

☒ Inert Gas (CO/2 or N/2) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent. Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

☐ Tank atmosphere monitored for flammable or combustible vapor levels.

Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper po ion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

H. REMOVER/CLEANER INFORMATION

Remover Name (print)	Remover Signature	Remover Certification No.	Date Signed
TODD NYLANDER	Todd Nylander	03684	12/27/94

I. INSPECTOR INFORMATION

Inspector Name (print)	Inspector Signature	Inspector Certification No.

FDID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed

Wisconsin Department of Industry, Labor and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Sec. 101.142, Wis. Stats.

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

For Office Use Only:
Tank ID #

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. 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. Have you previously registered this tank by submitting a form?** ☐ YES ☐ NO **If yes, are you correcting/updating information only?** ☐ Yes ☐ No

This registration applies to a tank that is (check one):
1A. ☐ In Use or 1B. ☐ Newly Installed 4. ☒ Closed - Tank Removed 8. ☐ Changed Ownership (Indicate new owner below)
2. ☐ Abandoned With Product 6. ☐ Closed - Filled With Inert Material
3. ☐ Abandoned No Product (empty) or With Water 7. ☐ Out of Service - Provide Date: _____

Fire Department Providing Fire Coverage Where Tank Located:

A. IDENTIFICATION: (Please Print)

1. Tank Site Name: Fort McCoy | Site Address: Building 2177 | Site Telephone No.: ( )
☐ City ☒ Village ☐ Town of: Fort McCoy | State: WI | Zip Code: 54656 | County: Monroe

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Department of the Army | Owner Mailing Address (mail sent here unless indicated otherwise in #3): Headquarters
☐ City ☒ Village ☐ Town of: Ft McCoy | State: WI | Zip Code: 54656 | County: Monroe

3. Alternate Mailing Name if Different Than #2: Fort McCoy | Alternate Mailing Street Address if Different From #2: Directorate of Contracting, 2103 S 8th Avenue
☐ City ☒ Village ☐ Town of: Fort McCoy | State: WI | Zip Code: 54656 | County: Monroe

4. Tank Age (date installed, if known: or years old): Unknown | 5. Tank Capacity (gallons): 560 | 6. Tank Manufacturer's Name (if known): Unknown

B. 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): _____

C. TANK CONSTRUCTION:
1. ☒ Bare Steel 2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☒ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (specify): _____
6. ☐ Relined - Date _____ 7. ☐ Steel - Fiberglass Reinforced Plastic Composite 9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other: N/A | Is Tank Double Walled? ☐ Yes ☒ No
Overfill Protection Provided? ☐ Yes ☒ No If yes, identify type: | Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☐ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☒ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): _____ 9. ☐ Unknown

Piping System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☒ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☒ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☐ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other: N/A | Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS
1. ☐ Diesel 2. ☒ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5. ☐ Gasohol 6. ☐ Other 7. ☐ Empty 8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown 10. ☐ Premix 11. ☐ Waste Oil 12. ☐ Propane
13. ☐ Chemical* _____ _____ _____ 14. ☐ Kerosene 15. ☐ Aviation

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

If Tank Closed, Give Date (mo/day/yr): | Has a site assessment been completed? (see reverse side for details) ☐ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify) _____

Name of Owner or Operator (please print): | Indicate Whether: ☐ Owner or ☐ Operator

Signature of Owner or Operator: | Date Signed:

SBD-7437 (R. 04/92)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BLDG'S, 1557, 2177, 2191

REQUEST FOR ISSUE OR TURN-IN

(DA PAM 710-2-1)

ISSUE	TURN-IN	SHEET NO.	NO. SHEETS
	X	1	1

3. REQUEST NO. C-001 — APC-V1452

1. SEND TO: DE

5. DATE MATERIEL REQUIRED: 29 NOV. 94

6. DODAAC:

7. PRIORITY:

8. ACCOUNTING/FUNDING DATA: HAC0006-4P/DAKF61-94-C-0041

2. REQUEST FROM: J & D ENTERPRISES

9. END ITEM IDENT:

9a. NAME/MANUFACTURER:

9b. MODEL:

9c. SERIAL NO.:

*CODE — ISSUE: I—Initial, R—Replacement; TURN-IN: FWT—Fair Wear And Tear, RS—Report of Survey, EX—Excess, SC—Stmt of Charges

10. PUBLICATION:

11. JOB ORDER NO.:

12. ITEM NO. a	STOCK NO. b	ITEM DESCRIPTION c	UNIT OF ISSUE d	QUANTITY e	CODE* f	SUPPLY ACTION g	UNIT PRICE h	TOTAL COST i	J. POSTED DATE	J. POSTED BY
1.		14,000 GAL. STL. TANK	EA	1	SCRAP	BLDG. 2174	#50.00	#50.00		
2.		8,000 GAL. STL. TANK	EA	1	SCRAP		30.00	30.00		
3.		Actually a 560 gal. (4'x6') ~~1,000~~ GAL. STL. TANK	EA	1	SCRAP		5.00	5.00		
4.		STL. PIPE	LS	1	SCRAP		5.00	5.00		
							SHEET TOTAL	#90.00	GRAND TOTAL	#90.00

13. ISSUE/TURN-IN "QUANTITY" COLM IS REQUESTED	DATE	BY	14. ISSUE QTY IN "SUPPLY ACTION" COLUMN	DATE	BY	15. REC QTY IN "SUPPLY ACTION" COLUMN	DATE	BY
	29 Nov. 94	Ronald J. Schoracky Jr.					11/30/94	

DA FORM 3161 MAY 83

REPLACES EDITION OF JUN 73 WHICH WILL BE USED UNTIL EXHAUSTED.

Fort McCoy
Sparta, WI 54656

Date ____/____/____

№ 059419

Empty Weight

07:56AM NO 30 94 26100LB

Truck No. HT-31

Weigher truck empty

Product SCRAP IRON

tanks cut & scraped At Ft. McCoy

Delivered By J & D Enterprises

Received By

Remarks

Fort McCoy
Sparta, WI 54656

Date ____/____/____

№ 059426

10:24AM NO 30 94 30360LB
26100LB-TR
4260LB-TR

Truck No.

Weigher

Product SCRAP IRON

Delivered By

Received By

Remarks

Fort McCoy
Sparta, WI 54656

Date ____/____/____

№ 059428

12:33PM NOV 30 94 — 34480LB
26100LB IE
8380LB IEF

Truck No. _____

Weigher _____

Product SCRAP METAL

Delivered By _____

Received By _____

Remarks SCRAP METAL From tanks + P.P.

Fort McCoy
Sparta, WI 54656

Date ____/____/____

№ 059425

09:22AM NOV 30 94 — 35590LB
26100LB IE
34800LB IE

Truck No. _____

Weigher _____

Product Steel

Delivered By J+D Enterprises

Received By _____

Remarks SCRAP METAL From Tanks Pipe

GUIDANCE DOCUMENTS

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
LEAKING UNDERGROUND STORAGE TANK PROGRAM
FIELD SCREENING PROCEDURES
PUBL-SW-176-92

Field instruments including photoionization detectors, flame ionization detectors and gas chromatographs may be used to field screen soil and groundwater samples using headspace techniques outlined in this document. Other types of instruments should not be used to screen soil samples in the field without prior approval of the Department of Natural Resources.

Note: The term "headspace sample" is used herein to refer to samples collected for headspace analysis. Samples collected for laboratory analysis should be collected in glass or inert synthetic containers obtained from or approved by the certified laboratory which will analyze the samples.

A. General Requirements:

1. Field instruments should only be used by operators thoroughly familiar with the operation of the instrument. Operators should, through training or education, be familiar with each of the following aspects of instrument use:

   a. principles of instrument operation;
   b. interferences;
   c. instrument sensitivity and linear range for petroleum constituents;
   d. general maintenance including filter cleaning;
   e. flame lighting techniques (for FIDs);
   f. battery maintenance;
   g. calibration procedures.

2. The calibration of field instruments should be checked at least once per operating day using methods approved by the manufacturer. FIDs should be checked using methane or other appropriate commercial gases. PIDs should be checked using an appropriate field standard such as benzene or iso-butylene.

3. All samples should be analyzed in a manner consistent with written procedures which substantially conform to this guidance.

4. If a headspace sample is found through headspace analysis to be contaminated and lab analysis is needed to confirm the analysis, the sample sent to the laboratory should be a split sample from the same sampling point where the headspace sample was collected. Split samples should be collected and immediately preserved at the same time the headspace sample is collected. Headspace samples should not be submitted to an environmental laboratory for analysis.

5. PID's should have a lamp energy of 10.6 electrovolts (eV) or greater.

B. Headspace Sample Containers and Analytical Preparation

1. All headspace sample containers (with the exception of new polyethylene bags) should be thoroughly cleaned using water/detergent solutions, methanol, or other appropriate solvents. Following washing, sample containers should undergo multiple rinses using distilled water.

2. Headspace sample containers should be constructed of glass or inert synthetics. All headspace sample containers used should be the same size. Bottles and caps should be reused if tested in advance for VOC carryover. New one quart plastic bags may also be used. (see part 5 below.)

3. Headspace sample containers are to be filled 1/2 to 3/4 full. All headspace sample containers used at an UST site should be the same size and shall be filled to the same volume. A headspace fill-line should be marked on all containers.

4. Polyethylene bags used as headspace sample containers should be resealable freezer bags. A consistent sample/headspace ratio should be maintained. This can be achieved through the use of three-way valves (Imperial Eastman Inc. No. 108-HD or equivalent) attached to the bags and sealed with Buna-N gaskets and lamp nuts (See figure below). Once sealed, all bags should be inflated to the same volume using a bicycle pump. Valves and connective tubing should be purged to prevent carryover from previous samples or replaced.

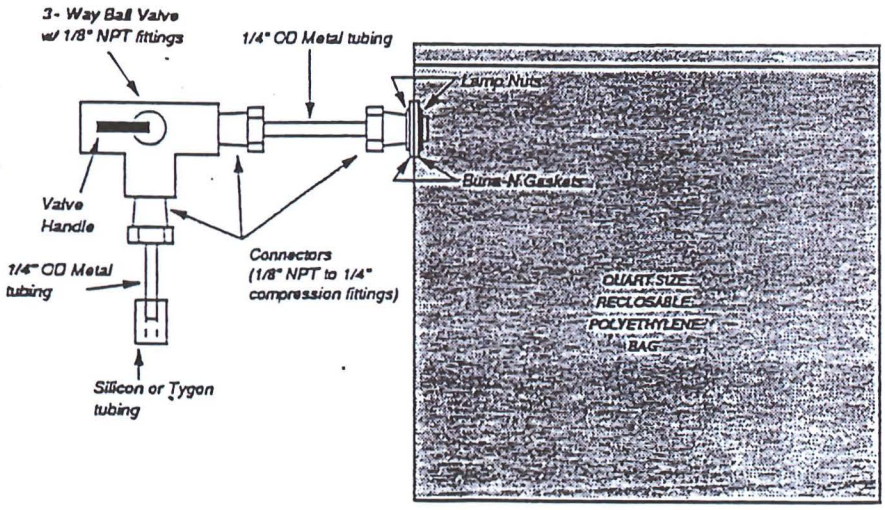


Figure source: Field Measures: Dependable Data When You Need It, September, 1990, Office of Underground Storage Tanks, EPA/530/UST-90/003, pp. 25.

5. Headspace sample containers should be closed or covered immediately. Sample containers should be covered with heavy gauge aluminum foil or a tight fitting cap or collar equipped with a tight fitting capped septum. Tight fitting caps or collars may be used only if the field instrument is capable of drawing a sample under tension for a long enough period to take a stable reading.

C. Headspace Sample Analysis

1. Once collected and sealed, headspace samples should be agitated for at least 30 seconds to break soil clods and release vapors. Headspace samples in containers sealed with aluminum foil should first be capped to allow agitation without damage to the foil seal.

2. Headspace samples should be allowed to equilibrate prior to analysis. Minimum equilibration time should conform to the specifications in the table below.

Minimum Sample Headspace Equilibration Time

Ambient Outside Air Temperature At Time of Sample Collection	Minimum Amount of Time Sample Must Equilibrate at 70 F or Greater Temperature
< 40 F	40 min.
41 - 55 F	20 min.
56 - 69 F	10 min.
> 70 F	5 min.

Headspace samples should be warmed out of direct sunlight by bringing them into a heated vehicle or building. At temperatures less than 55 F, headspace sample equilibration time can be reduced to 10 min. through the use of a 70 F water bath.

3. Following equilibration, the sample headspace should be analyzed promptly. The highest instrument reading should be recorded. Time averaged readings may also be recorded but they are not a substitute for the highest instrument reading. Meter "quenching", which is defined as flooding of a PID with non-detectable alkanes, may be observed as a sudden drop in instrument response and must be recorded if experienced.

NOTE: the Department of Natural Resources interprets FID responses to be petroleum related unless there is independent confirmation that the gas is not petroleum-derived.

D. Documentation

If field instruments are used in conjunction with an UST closure assessment the following minimum documentation standards must be adhered to:

1. Record all relevant ambient conditions. At a minimum record:

   a. Ambient outside temperature
   b. temperature where samples are held during equilibration
   c. weather conditions (e.g. cloud cover, humidity, wind speed, wind direction and precipitation)

2. Record all relevant instrument conditions including:

   a. instrument make and model
   b. date of last factory calibration
   a. field calibration gas used and concentration
   b. date and time of last field calibration
   c. lamp energy in electrovolts (for PID's)
   d. instrument gain setting
   e. erratic instrument readings
   f. cleaning or repairs performed in the field

3. Record all field results including:

   a. headspace results as "instrument units as (calibration gas)". Example: 151 instrument units as benzene. DO NOT RECORD RESULTS AS CONCENTRATIONS UNLESS INSTRUMENT READINGS HAVE BEEN CALIBRATED AGAINST PREPARED SOIL/PETROLEUM CALIBRATION CURVES.
   b. relative sample moisture content. Example: saturated, wet, moist, damp, dry.
   c. any noticeable petroleum product odor for any sample.
   d. instrument "quenching" caused by highly contaminated soils.

ATTACHMENT 3
SOIL SAMPLING REQUIREMENTS

Soil samples collected to comply with Closure Assessment requirements shall comply with the following requirements.

A. General Requirements

1. Soil samples must be collected in a manner which causes the least disturbance to the sample.

2. Composite samples are not to be collected for purposes of complying with the closure assessment requirements.

3. All soil samples shall be properly labeled with the sample number and collection date.

B. Soil Sampling Methods

1. If the UST system is closed by removal of the tank system from the ground, the following sample collection method must be used:

   a. If the excavation, pipe trench or other sampling location can be entered in accordance with applicable OSHA regulations, samples may be collected using a hand auger or trowel.

   b. If the excavation, pipe trench or other sampling location cannot be entered safely for sampling, a sample must be collected from the excavation using a hand auger extension or from the backhoe bucket.

2. If the UST system is closed in place, soil samples shall be collected through one of the following techniques:

   a. If the tank is entered for cleaning and samples are collected through holes cut in the tank, they shall be collected using a hand held soil auger or trowel.

   b. If the samples are to be collected by drilling, then split spoon (barrel, tube) samplers or thin walled (Shelby) samplers must be used when conditions permit. Grab samples from drill cuttings cannot be used unless undisturbed samples are impossible to collect.

3. Whenever hand held tools are used to collect samples the first three to four inches of soil must be scraped away immediately before sampling so that the sample is collected from a previously unexposed soil area.

4. All soil sampling tools must be thoroughly cleaned between all sampling points using water/detergent solutions, methanol, or other appropriate solvents.

C. Sample Containers for Laboratory Analysis

1. Samples shall be collected in glass or inert synthetic containers obtained from or approved by the certified laboratory which will analyze the samples. Polyethylene bags are not to be used for laboratory samples.

2. All sample containers shall have Teflon or equivalent lined caps.

3. Sample containers shall be filled to the top such that no headspace remains.

4. The use of "wide mouth" vials is highly recommended.

D. Sample Handling

1. Seal and label samples prior to collection or immediately following collection.

2. Chill samples immediately using adequate quantities of ice, "blue ice", or equivalent. Note: Closure assessment documentation requires analytical laboratories to report sample temperatures. Improper storage resulting in sample warming could result in rejection of report results.

3. Follow chain of custody procedures.

4. Ship samples to analytical laboratory as soon as possible. Do not allow samples to be held so long that the maximum holding time is violated.

5. Unless otherwise specified, the maximum holding time for soil samples collected for TPH analysis is 14 days.

NOTE: HEADSPACE ANALYSIS USING FIELD INSTRUMENTS SHOULD NOT BE PERFORMED ON SAMPLES COLLECTED FOR LAB ANALYSIS. DUPLICATE SAMPLES SHOULD BE COLLECTED FOR HEADSPACE ANALYSIS.

PRODUCT REMOVAL

It will be necessary to remove product from the underground storage tanks prior to the tank removal. Product will be pumped from the tanks into tanker trucks and sold to local licensed recycling facilities.

PURGING/INERTING PROCEDURES

Tanks will be inerted with nitrogen before being removed from the excavation. The procedures to be followed for purging of the tanks are outlined in API. section 4. Removal of Underground Tanks.

TANK CLEANING & CUTTING PROCEDURES

After the tank has been removed from the excavation it will be opened to allow access for cleaning. Burning (cutting) permits will be obtained prior to cutting of the tanks. The tank will then be entered following the outline in our Site Health & Safety Plan and cleaned. Tank cleaning will be accomplished by manual means (with rags. squeegees and shovels). and barreled for disposal. The barreled material will be tested to determine proper disposal management. All tank contents will be disposed of in compliance with applicable local, state and federal regulations.

FORT MCCOY UNDERGROUND STORAGE TANK INVENTORY

FACILITY NAME	BUILDING NUMBER	TANK NUMBER	TANK CAPACITY GALLONS	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	TANK STATUS	TANK REGISTER	REMARKS
FORT MCCOY	105		750	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	106		1,500	FUEL OIL	BARE STEEL	1943	ABAN 1979	YES	REMOVE '89
FORT MCCOY	108		750	FUEL OIL	BARE STEEL	1943	ABAN	YES	REMOVE '89
FORT MCCOY	242	1	1,500	UNUSED SOLVENT	COATED STEEL	1977	IN USE	YES	
FORT MCCOY	242	2	5,000	UNLEADED GAS	COATED STEEL	1971	IN USE	YES	
FORT MCCOY	242	3	5,000	DIESEL FUEL	COATED STEEL	1971	IN USE	YES	
FORT MCCOY	242	4	10,000	DIESEL FUEL	COATED STEEL	1971	IN USE	YES	
FORT MCCOY	457		750	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	659		750	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	1152	1	1,000	DIESEL FUEL	BARE STEEL	1970	IN USE	YES	
FORT MCCOY	1152	2	1,500	UNLEADED GAS	BARE STEEL	1970	IN USE	YES	
FORT MCCOY	1266	1	12,000	USED ENG OIL	BARE STEEL	1943	ABAN 1981	YES	REMOVE '89
FORT MCCOY	1266	2	12,000	USED ENG OIL	BARE STEEL	1943	ABAN 1981	YES	REMOVE '89
FORT MCCOY	1358		12,000	UNLEADED GAS	BARE STEEL	1943	IN USE	YES	LEAKER REMOVE '89
FORT MCCOY	1409		4,000	FUEL OIL	FIBERGLASS	1978	IN USE	YES	
FORT MCCOY	1467	1	12,000	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	LEAKER REMOVE '89
FORT MCCOY	1467	2	12,000	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	TIGHT UNKNOWN REMOVE '89
FORT MCCOY	1546		500	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	1550	1	750	FUEL OIL	BARE STEEL	1943	ABAN 1981	YES	REMOVE 89
FORT MCCOY	1550	2	750	FUEL OIL	BARE STEEL	1943	ABAN 1981	YES	REMOVE 89
FORT MCCOY	1550	3	500	FUEL OIL	BARE STEEL	1943	REMVD 1978	YES	UPDATE REGISTRATION
FORT MCCOY	1553	1	1,000	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	1553	2	14,000	LEADED GAS	BARE STEEL	1965	IN USE	YES	SUSPECTED LEAKER
FORT MCCOY	1553	3	8,000	UNLEADED GAS	BARE STEEL	1965	IN USE	YES	
FORT MCCOY	1553	4	3,000	UNLEADED GAS	COATED STEEL	1975	IN USE	YES	
FORT MCCOY	1554		12,000	FUEL OIL	BARE STEEL	1943	IN USE	YES	NOT TESTED REMOVE '89
FORT MCCOY	1557		340	FUEL OIL	BARE STEEL	1964	IN USE	YES	
FORT MCCOY	1562		500	FUEL OIL	BARE STEEL	1971	IN USE	YES	
FORT MCCOY	1565		500	FUEL OIL	FIBERGLASS	1977	IN USE	YES	
FORT MCCOY	1656		750	FUEL OIL	BARE STEEL	1972	IN USE	YES	
FORT MCCOY	1658		4,000	WASTE OIL	FIBERGLASS	1978	ABAN 1986	YES	REMOVE '89
FORT MCCOY	1661		4,000	USED ENG OIL	FIBERGLASS	1978	ABAN 1986	YES	REMOVE 89
FORT MCCOY	1666		1,500	FUEL OIL	BARE STEEL	1977	REMVD 1982	YES	
FORT MCCOY	1668	1	1,650	FUEL OIL	FIBERGLASS	1977	ABAN 1978	YES	
FORT MCCOY	1668	2	1,650	FUEL OIL	FIBERGLASS	1977	ABAN 1978	YES	REMOVE 89
FORT MCCOY	1669	1	12,000	UNLEADED GAS	BARE STEEL	1943	IN USE	YES	LEAKER REMOVE '89
FORT MCCOY	1669	2	12,000	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	TIGHT UNKNOWN REMOVE '89
FORT MCCOY	1680		4,000	FUEL OIL	FIBERGLASS	1978	IN USE	YES	
FORT MCCOY	1754		1,500	FUEL OIL	BARE STEEL	1972	IN USE	YES	
FORT MCCOY	1849		750	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	1853		750	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	1857		4,000	USED ENG OIL	FIBERGLASS	1978	ABAN 1986	YES	REMOVE '89
FORT MCCOY	1859		4,000	USED ENG OIL	FIBERGLASS	1978	ABAN 1986	YES	REMOVE '89
FORT MCCOY	1862		4,000	USED ENG OIL	FIBERGLASS	1978	ABAN 1986	YES	REMOVE '89
FORT MCCOY	1879	1	12,000	UNLEADED GAS	BARE STEEL	1943	IN USE	YES	LEAKER REMOVE '89
FORT MCCOY	1879	2	12,000	UNLEADED GAS	BARE STEEL	1943	IN USE	YES	TIGHT UNKNOWN REMOVE '89
FORT MCCOY	1938		860	FUEL OIL	BARE STEEL	1951	ABAN 1970	YES	REMOVE '89
FORT MCCOY	2011		4,000	USED ENG OIL	FIBERGLASS	1978	ABAN 1986	YES	REMOVE '89

FORT MCCOY UNDERGROUND STORAGE TANK INVENTORY

FACILITY NAME	BUILDING NUMBER	TANK NUMBER	TANK CAPACITY GALLONS	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	TANK STATUS	TANK REGISTER	REMARKS
FORT MCCOY	2013		750	FUEL OIL			ABAN	NO	REMOVE '89
FORT MCCOY	2113		4,000	FUEL OIL	BARE STEEL	1947	ABAN 1980	YES	REMOVE '89
FORT MCCOY	2114		860	FUEL OIL	BARE STEEL	1947	IN USE	YES	
FORT MCCOY	2124		500	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2177		500	LEADED GAS	BARE STEEL	1943	REMVD 1974	YES	UPDATE REGISTRATION
FORT MCCOY	2190	1	12,000	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2190	2	12,000	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2190	3	12,000	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2190	4	4,000	UNLEADED GAS	BARE STEEL	1943	IN USE	YES	LEAKER REMOVE '89
FORT MCCOY	2190	5	1,000	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2190	6	1,000	LEADED GAS	BARE STEE;	1943	IN USE	YES	
FORT MCCOY	2190	7	500	DIESEL FUEL	BARE STEEL	1943	ABAN 1979	YES	REMOVE 89
FORT MCCOY	2190	8	500	DIESEL FUEL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2197		500	FUEL OIL	FIBERGLASS	1977	IN USE	YES	
FORT MCCOY	2204		1,000	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2321		12,000	FUEL OIL	BARE STEEL	1943	IN USE	YES	MAY BE ABANDONED
FORT MCCOY	2541		1,000	FUEL OIL	BARE STEEL	1946	IN USE	YES	
FORT MCCOY	2569		1,000	FUEL OIL	BARE STEEL	1943	IN USE	YES	
FORT MCCOY	2572		500	FUEL OIL	BARE STEEL	1977	IN USE	YES	
FORT MCCOY	2773		4,000	USED ENG OIL	FIBERGLASS	1978	ABAN 1986	YES	REMOVE '89
FORT MCCOY	2846		1,500	FUEL OIL	BARE STEEL	1958	IN USE	YES	
FORT MCCOY	2846							NO	TANK IN FENCED AREA
FORT MCCOY	2852		1,000	FUEL OIL	BARE STEEL	1961	IN USE	YES	
FORT MCCOY	3050	1	10,000	UNLEADED GAS	BARE STEEL	1975	IN USE	YES	
FORT MCCOY	3050	2	10,000	DIESEL FUEL	BARE STEEL	1975	IN USE	YES	
FORT MCCOY	3050	3	8,000	USED ENG OIL	BARE STEEL	1975	IN USE	YES	
FORT MCCOY	3050	4	25,000	USED ENG OIL	BARE STEEL	1975	IN USE	YES	
FORT MCCOY	3050	5	1,500	FUEL OIL	FIBERGLASS	1976	IN USE	YES	
FORT MCCOY	3050	6	25,000	FUEL OIL	BARE STEEL	1975	IN USE	YES	
FORT MCCOY	6062	1	500	FUEL OIL	COATED STEEL	1976	IN USE	YES	
FORT MCCOY	6062	2	500	FUEL OIL	COATED STEEL	1976	IN USE	YES	
FORT MCCOY	6062	3	1,000	FUEL OIL	COATED STEEL	1976	ABAN 1978	YES	REMOVE '89
FORT MCCOY	6062	4	500	DIESEL FUEL	COATED STEEL	1976	IN USE	YES	
FORT MCCOY	6062	5	500	DIESEL FUEL	COATED STEEL	1976	IN USE	YES	
FORT MCCOY	6188		1,500	FUEL OIL	BARE STEEL	1952	IN USE	YES	
FORT MCCOY	7051		1,500	FUEL OIL		1969	IN USE	NO	
FORT MCCOY	10111		12,000	FUEL OIL	BARE STEEL	1973	IN USE	YES	SUSPECTED LEAKER
FORT MCCOY	10111		500	FUEL OIL	BARE STEEL	1943	ABAN 1972	YES	REMOVE '89
	Q. HILL								
	Q. HILL								
IOWA RESERVE CENTERS									
AMES IOWA	USARC	1	8,000	FUEL OIL	COATED STEEL	1979	ABAN	NA	TANK NOT EMPTY
AMES IOWA	OMS	2	1,000	FUEL OIL	COATED STEEL	1979	ABAN	NA	TANK NOT EMPTY
CHEROKEE IOWA	USARC	1	4,000	FUEL OIL		1959	IN USE	NA	
CHEROKEE IOWA	OMS	2	2,000	FUEL OIL		1959	IN USE	NA	

FORT MCCOY UNDERGROUND STORAGE TANK INVENTORY

FACILITY NAME	BUILDING NUMBER	TANK NUMBER	TANK CAPACITY GALLONS	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	TANK STATUS	TANK REGISTER	REMARKS
COUNCIL BLUFFS LEASE			3,000	FUEL OIL				NA	REMOVAL SPRING 89
CRESTON IOWA									
DAVENPORT IOWA	USARC	1	3,000	FUEL OIL		1958	ABAN	NA	FILLED W/SAND '87
DAVENPORT IOWA	OMS	2	550	SHOP WASTE		1958	IN USE	NO	
DECORAH	USARC	1	5,000	FUEL OIL		1979	ABAN	NA	185 GALLONS LEFT
DECORAH	USARC/OMS	2	3,000	FUEL OIL		1979	ABAN	NA	3460 GALLONS LEFT
FT. DESMOINES/USARC	139	1	1,500	DIESEL			ABAN	YES	TANK NOT EMPTY
	139	2	1,500				ABAN	YES	TANK NOT EMPTY
		3	500	FUEL OIL			ABAN	NA	TANK NOT EMPTY
		4	500	FUEL OIL			ABAN	NA	TANK NOT EMPTY
		5	10,000	GASOLINE			ABAN	NO	TANK NOT EMPTY
		6	1,500	FUEL OIL			ABAN	NA	TANK NOT EMPTY
		7	10,000	GASOLINE			ABAN	NO	TANK NOT EMPTY
		8	20,000	FUEL OIL		1975	ABAN	NA	TANK NOT EMPTY
		9	500	WASTE OIL			IN USE	NO	
		10	400	WASTE	BUFFALO		IN USE	NO	ABANDON
DUBUQUE IOWA/ SHARED									
GARNER IOWA									
IOWA CITY IOWA	USARC		3,000	FUEL OIL	BARE STEEL	1958		NA	2,650 GALLONS LEFT
POCHONTAS IOWA		1	2,500	FUEL OIL	ENAMEL COATED	1977	IN USE	NA	UL SEAL ON TANK
POCHONTAS IOWA		2	7,500	FUEL OIL	COAL TAR PRIMER	1977	IN USE	NA	UL SEAL ON TANK
SAC CITY IOWA			4,000	FUEL OIL		1976	ABAN?	NA	1500 GAL LP '88
SIOUX CITY			3,500	FUEL OIL		1958/'72	IN USE	NA	
WASHINGTON IOWA									
WATERLOO IOWA	SHOP	1	1,000	FUEL OIL				NA	203 GALLONS LEFT
		2	1,000	FUEL OIL				NA	203 GALLONS LEFT
WATERLOO LEASED		3		FUEL OIL				NA	2677 GALLONS LEFT
	AMSA	4		DIESEL					
	AMSA	5		GASOLINE					
MINNESOTA RESERVE CENTERS									
BUFFALO	USARC	1	2,000	FUEL OIL			ABAN?	YES	MN REG SHOWS 1 3000 TANK
BUFFALO	OMS	2	1,000	FUEL OIL			ABAN?	YES	REGISTERED
CAMBRIDGE	USARC	1	2,000	FUEL OIL			IN USE	YES	MN REG SHOWS 1 10000 TANK
CAMBRIDGE	OMS	2	1,000	FUEL OIL			IN USE	YES	REGISTERED

FORT MCCOY UNDERGROUND STORAGE TANK INVENTORY

FACILITY NAME	BUILDING NUMBER	TANK NUMBER	TANK CAPACITY GALLONS	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	TANK STATUS	TANK REGISTER	REMARKS
FORT SNELLING	BLDG 510	1	600	WASTE OIL	STEEL		IN USE?	NO	TANK LOCATED AMSA 226
	BLDG 511	2	250	WASTE OIL	STEEL	1976	IN USE?	NO	TANK LOCATED AMSA 226
	BLDG 511	3	250	MIXED WASTE	STEEL	1976	IN USE?	NO	TANK LOCATED AMSA 226
	BLDG 511	4	1,500	FUEL OIL		1978	IN USE?	NO	TANK LOCATED AMSA 226
	BLDG 505	5		FUEL OIL					
LESUER									
MANKATO	USARC	1	12,000	FUEL OIL		1961/78	IN USE	YES	TANK REGISTERED 1978
MANKATO	OMS	2	2,000	FUEL OIL		1961/78	IN USE	YES	TANK REGISTERED 1978
NEW PRAGUE									
PAYNESVILLE	USARC	1	2,000	FUEL OIL		1960	IN USE	YES	
PAYNESVILLE	OMS	2	1,000	FUEL OIL		1960	IN USE	NO	
ROCHESTER	USARC		2,000	FUEL OIL		1979	IN USE	YES	
ST CLOUD									
ST. JOSEPH	AMSA 23		1,000	FUEL OIL		1971	IN USE	NO	
ST. PAUL	USARAF-21								
INTERNATIONAL FALLS	USARC		2,500	FUEL OIL	CATHOD STEEL	1972	ABAN	NO	ABAN WITH FUEL
WABASHA	USARC	1	2,000	FUEL OIL	COATED STEEL	1983	IN USE	NO	THIS IS CENTER IN USE
WABASHA	OMS	2	2,000	FUEL OIL	COATED STEEL	1983	IN USE	NO	TANKS AT OLD CENTER?
WALKER	USARC	1	2,000	FUEL OIL			IN USE	YES	TANK REG AS 1 2500 GALLON
	OMS	2	500	FUEL OIL			IN USE	YES	AS 1959 CONSTRUCTION
WILLMAR									
WINONA		1						NO	TANK DRAIN, FLUSH & SEAL
WINONA		2	2,000	FUEL OIL		1959	IN USE	NO	
WINTHROP	USARC	1	1,500	FUEL OIL			IN USE	NO	10,000 OIL ORDERED 1988
WINTHROP	OMS	2	1,000	FUEL OIL		1959	IN USE	NO	
WORTHINGTON									
WISCONSIN									
APPLETON			6,000	FUEL OIL		1958	ABAN	YES	TWO TANKS MAYBE IN PLACE

FORT MCCOY UNDERGROUND STORAGE TANK INVENTORY

FACILITY NAME	BUILDING NUMBER	TANK NUMBER	TANK CAPACITY GALLONS	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	TANK STATUS	TANK REGISTER	REMARKS
BEAVER DAM									
BELOIT									
CHIPPEWA FALLS LEASE			500	WASTE OIL				NO	
DODGEVILLE									
EAU CLAIRE	USARC	1	6,000	FUEL OIL	COATED STEEL?	1958	ABAN	YES	250 GALLONS LEFT IN TANK
	OMS	2	1,500	FUEL OIL	COATED STEEL?	1958	ABAN	YES	250 GALLONS LEFT IN TANK
ELLSWORTH LEASED		1	1,000	FUEL OIL					
ELLSWORTH LEASED		2	500						
GREEN BAY									
JUNCTION CITY	USARC	1	4,000	FUEL OIL		1978	ABAN	YES	
JUNCTION CITY	OMS	2	550	FUEL OIL		1978	ABAN	YES	
KEWAUNEE	USARC	1	2,000	FUEL OIL		1961/78	ABAN	YES	
KEWAUNEE	OMS	2	1,000	FUEL OIL		1961	IN USE	YES	
KEWAUNEE		3	2,000	FUEL OIL		1961	ABAN?	YES	INFO FROM TANK REG FOLDER
LADYSMITH	USARC	1	10,000	FUEL OIL		1978	ABAN	YES	ABAN WITH FUEL
LADYSMITH	OMS	2	4,000	FUEL OIL		1978	IN USE	YES	WILL ABAN BY SUMMER 89
MADSION									
MENASHA									
MILWAUKEE	AMSA 49	1					ABAN		
MILWAUKEE	301	1	3,000	FUEL OIL	BARE STEEL	1951	IN USE	YES	
SILVER SPRING DRIVE	302	2	1,500	FUEL OIL	BARE STEEL	1951		YES	
	303	3	2,000	FUEL OIL	BARE STEEL	1951		YES	
	304	4	1,500	FUEL OIL	BARE STEEL	1951		YES	NATURAL GAS '89
	305	5	1,500	FUEL OIL	BARE STEEL	1951		YES	NATURAL GAS '89
	306	6	2,000	FUEL OIL	BARE STEEL	1951		YES	
	307	7	2,000	DIESEL	BARE STEEL	1951		YES	
	308	8	3,000	FUEL OIL	BARE STEEL	1951		YES	
	309	9	1,000	FUEL OIL	BARE STEEL	1951		YES	NATURAL GAS '89
	310	10	6,000	LEADED GAS	BARE STEEL	1951	REMOVED	YES	
	312	11	3,000	DIESEL	BARE STEEL	1951	REMOVED	YES	
	315	12	1,000	FUEL OIL	BARE STEEL	1951		YES	
	315	13	1,000	FUEL OIL	BARE STEEL	1951		NO	
	315	14	1000	DIESEL	BARE STEEL		ABANDON	NO	REMOVE 89
ONALASKA									

FORT MCCOY UNDERGROUND STORAGE TANK INVENTORY

FACILITY NAME	BUILDING NUMBER	TANK NUMBER	TANK CAPACITY GALLONS	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	TANK STATUS	TANK REGISTER	REMARKS
OSHKOSH									
PEWAUKEE	USARC	1	6,000	FUEL OIL		1959	ABAN	YES	FUEL LEFT IN TANK
PEWAUKEE	OMS	2	1,000	FUEL OIL		1959	ABAN	YES	FUEL LEFT IN TANK
RACINE	USARC	1	6,000	FUEL OIL	EST. STEEL	1951	ABAN	YES	2875 GAL LEFT SUS LEAKER
RACINE	OMS	2	1,000	FUEL OIL	EST. STEEL	1951-59	ABAN	NO	TANK NOT EMPTY

FORT MCCOY 1989 UNDERGROUND STORAGE TANK INVENTORY

BUILDING NUMBER	TANK CAPACITY -GALLONS	TANK PRODUCT	TANK CONSTRUCTION	TANK INSTALLATION DATE
105	750	FUEL OIL	BARE STEEL	1943
457	750	FUEL OIL	BARE STEEL	1943
659	750	FUEL OIL	BARE STEEL	1943
1546	500	FUEL OIL	BARE STEEL	1943
1553	1000	FUEL OIL	BARE STEEL	1943
1553	14,000	LEAD GAS	BARE STEEL	1965
1553	8,000	UNLE GAS	BARE STEEL	1965
1557	500	FUEL OIL	BARE STEEL	1943
1849	750	FUEL OIL	BARE STEEL	1943
1853	750	FUEL OIL	BARE STEEL	1943
2114	860	FUEL OIL	BARE STEEL	1947
2124	500	FUEL OIL	BARE STEEL	1943
2190	500	DIESEL	BARE STEEL	1943
2321	12,000	FUEL OIL	BARE STEEL	1943
2541	1,000	FUEL OIL	BARE STEEL	1943
2569	1,000	FUEL OIL	BARE STEEL	1943
2849	1,500	FUEL OIL	BARE STEEL	1943
2852	1,000	FUEL OIL	BARE STEEL	1943

FORT MCCOY UST REMOVAL INVENTORY 03/30/95

BLDG NUMBER	TANK CAPACITY GAL	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	REMOVAL YEAR	CLEAN CLOSURE YES/NO/UNK	DNR SITE ID NUMBER
659	250	FUEL OIL	BARE STEEL	1943	1992	NO	897
1010	500	GASOLINE	UNKNOWN	?	1992	YES	907
1553	3,000	GASOLINE	BARE STEEL	1975	1992	NO	721
1557	340	GASOLINE	BARE STEEL	1964	1992	YES	
1562	500	FUEL OIL	BARE STEEL	1971	1992	NO	906
1565	500	FUEL OIL	FIBERGLASS	1977	1992	NO	905
1656	750	FUEL OIL	BARE STEEL	1972	1992	NO	900
1680	4,000	FUEL OIL	FIBERGLASS	1978	1992	NO	1003
1849	750	FUEL OIL	BARE STEEL	1943	1992	NO	895
1853	750	FUEL OIL	BARE STEEL	1943	1992	YES	896
2197	500	FUEL OIL	UNKNOWN	1977	1992	YES	904
2204	1,000	FUEL OIL	BARE STEEL	1943	1992	YES	
2541	1,000	FUEL OIL	BARE STEEL	1946	1992	YES	892
2569	1,000	FUEL OIL	BARE STEEL	1943	1992	NO	1004
2572	500	FUEL OIL	BARE STEEL	1977	1992	YES	894
2852	1,000	FUEL OIL	BARE STEEL	1961	1992	YES	
5007	550	DIESEL	COATED STEEL?	1985	1992	YES	
5014	?	FUEL OIL	BARE STEEL	1942	1992	NO	354
5030	750	FUEL OIL	BARE STEEL	1943	1992	YES	
5030	750	FUEL OIL	BARE STEEL	1943	1992	NO	909
5040	500	FUEL OIL	BARE STEEL	1943	1992	YES	908
6062	500	DIESEL	COATED STEEL	1976	1992	YES	891
6062	500	DIESEL	COATED STEEL	1976	1992	YES	891
6062	500	DIESEL	COATED STEEL	1976	1992	YES	891
6065	500?	DIESEL	UNKNOWN	1975	1992	YES	
6250	140	DIESEL	UNKNOWN	1976	1992	YES	893
10111	12,000	FUEL OIL	BARE STEEL	1973	1992	YES	903
10137	500	DIESEL	UNKNOWN	?	1992	YES	
242	1,500	UNUSED SOLV	COATED STEEL	1977	1992	YES	
242	5,000	DIESEL	COATED STEEL	1971	1992	YES	
242	5,000	GASOLINE	COATED STEEL	1971	1992	YES	
242	10,000	FUEL OIL	COATED STEEL	1971	1993	YES	
3050	25,000	FUEL OIL	BARE STEEL	1975	1993	NO	837
3050	25,000	FUEL OIL	BARE STEEL	1975	1993	NO	837
3050	10,000	DIESEL FUEL	BARE STEEL	1975	1993	YES	
3050	1,500	FUEL OIL	FIBERGLASS	1976	1993	NO	837
3050	10,000	UNLEADED GA	BARE STEEL	1975	1993	NO	837
3050	7,500	USED ENG OIL	BARE STEEL	1975	1993	NO	837
5050	500	FUEL OIL	BARE STEEL	1943	1993	YES	
2190	12,000	UNLEADED GA	BARE STEEL	1943	1994	NO	1130
2190	1,000	DIESEL FUEL	BARE STEEL	1943	1994	NO	1130
2190	1,000	UNLEADED GA	BARE STEEL	1943	1994	NO	1130
2190	12,000	DIESEL FUEL	BARE STEEL	1943	1994	NO	1130
2190	12,000	UNLEADED GA	BARE STEEL	1943	1994	NO	1130
1553	14,000	UNLEADED GA	BARE STEEL	1965	1994	NO	721

FORT MCCOY UST REMOVAL INVENTORY 03/30/95

BLDG NUMBER	TANK CAPACITY GAL	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	REMOVAL YEAR	CLEAN CLOSURE YES/NO/UNK	DNR SITE ID NUMBER
1553	8,000	UNLEADED GA	COATED STEEL	1965	1994	NO	721
2177	1,000	LEADED GAS	BARE STEEL	UNK	1994	YES	

FORT MCCOY UST REMOVAL INVENTORY 03/30/95

BLDG NUMBER	TANK CAPACITY GAL	TANK PRODUCT	TANK CONSTRUCTION INFORMATION	TANK INSTALL DATE	REMOVAL YEAR	CLEAN CLOSURE YES/NO/UNK	DNR SITE ID NUMBER
2114	860	FUEL OIL	BARE STEEL	1947	1978	UNK	
1754	1,500	FUEL OIL	COATED STEEL	1972	1986	UNK	
106	1,500	FUEL OIL	BARE STEEL	1943	1989	YES	
108	750	FUEL OIL	BARE STEEL	1943	1989	YES	
1266	12,000	WASTE OIL	BARE STEEL	1943	1989	NO	298
1266	12,000	WASTE OIL	BARE STEEL	1943	1989	NO	298
1358	12,000	GASOLINE	BARE STEEL	1943	1989	NO	299
1467	12,000	DIESEL	BARE STEEL	1943	1989	NO	300
1467	12,000	DIESEL	BARE STEEL	1943	1989	NO	300
1550	750	FUEL OIL	BARE STEEL	1943	1989	NO	305
1550	750	FUEL OIL	BARE STEEL	1943	1989	NO	305
1554	12,000	FUEL OIL	BARE STEEL	1943	1989	NO	301
1658	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1661	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1668	1,650	FUEL OIL	FIBERGLASS	1977	1989	NO	306
1668	1,650	FUEL OIL	FIBERGLASS	1977	1989	NO	306
1669	12,000	GASOLINE	BARE STEEL	1943	1989	NO	302
1669	12,000	DIESEL	BARE STEEL	1943	1989	NO	302
1857	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1859	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1862	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
1879	12,000	GASOLINE	BARE STEEL	1943	1989	NO	303
1879	12,000	GASOLINE	BARE STEEL	1943	1989	NO	303
1938	860	FUEL OIL	BARE STEEL	1951	1989	YES	
2011	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	304
2013	750	FUEL OIL	?	?	1989	YES	
2110	2,000	GASOLINE	?	?	1989	YES	
2113	4,000	FUEL OIL	BARE STEEL	1947	1989	YES	
2190	4,000	GASOLINE	BARE STEEL	1943	1989	YES	
2190	750	DIESEL	BARE STEEL	1943	1989	YES	
2190	750	DIESEL	BARE STEEL	1943	1989	YES	
2773	4,000	WASTE OIL	FIBERGLASS	1978	1989	YES	
6062	1,000	FUEL OIL	COATED STEEL	1976	1989	YES	
10111	500	FUEL OIL	BARE STEEL	1943	1989	YES	
5014	250	GASOLINE	BARE STEEL	1942	1990	NO	354
457	750	FUEL OIL	BARE STEEL	1943	1991	NO	440
1152	1,500	GASOLINE	BARE STEEL	1970	1991	YES	
1152	1,000	DIESEL	BARE STEEL	1970	1991	NO	1002
1409	4,000	FUEL OIL	FIBERGLASS	1978	1991	YES	
1553	1,000	FUEL OIL	BARE STEEL	1943	1991	NO	721
1669	1,000	SOLVENT	BARE STEEL	1943	1991	YES	
1669	1,000	KEROSENE	BARE STEEL	1943	1991	YES	
2321	12,000	FUEL OIL	BARE STEEL	1943	1991	YES	
2846	1,500	FUEL OIL	BARE STEEL	1958	1991	YES	
105	750	FUEL OIL	BARE STEEL	1943	1992	YES	902