

GIS REGISTRY INFORMATION

SITE NAME: FORT MCCOY ACTIVE EXPLOSIVE ORD DISPOSAL

BRRTS #: 02-42-279963 **FID #** 642024900

COMMERCE # (if appropriate): _____

CLOSURE DATE: October 29, 2003

STREET ADDRESS: FORT MCCOY

CITY: SPARTA

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 463,194 Y= 398,584

CONTAMINATED MEDIA: Groundwater Soil Both

OFF-SOURCE GW CONTAMINATION >ES: Yes No

IF YES, STREET ADDRESS 1: _____

GPS COORDINATES (meters in WTM91 projection): X= _____ Y= _____

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): Yes No

IF YES, STREET ADDRESS 1: _____

GPS COORDINATES (meters in WTM91 projection): X= _____ Y= _____

CONTAMINATION IN RIGHT OF WAY: Yes No

DOCUMENTS NEEDED:

- Closure Letter, and any conditional closure letter issued
- Copy of most recent deed, including legal description, for all affected properties
- Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties
- County Parcel ID number, if used for county, for all affected properties
- Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.
- Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.
- Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)
- Tables of Latest Soil Analytical Results (no shading or cross-hatching)
- Isoconcentration map(s), if required for site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map.
- GW: Table of water level elevations, with sampling dates, and free product noted if present
- GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)
- SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour
- Geologic cross-sections, if required for SI. (8.5x14" if paper copy)
- RP certified statement that legal descriptions are complete and accurate
- Copies of off-source notification letters (if applicable)
- Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)
- Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Scott Humrickhouse, Regional Director

West Central Region Headquarters
1300 W. Clairemont Avenue
PO Box 4001
Eau Claire, Wisconsin 54702-4001
Telephone 715-839-3700
FAX 715-839-6076
TTY 715-839-2786

October 29, 2003

FID#642024900
BRRTS #02-42-279963
SW LIC. #6022
RR/CORR

Alan L. Balliett, Chief
Environmental Branch
ATTN: AFRC-FM-SSE
2171 S. 8th Ave.
Fort McCoy, WI 54656-5136

Subject: Final Case Closure by Closure Committee with Conditions Met - Fort McCoy
Active Explosive Ordnance Disposal Site, Wisconsin BRRTS #02-42-279963

Dear Mr. Balliett:

On May 20, 2003, the Fort McCoy Active Explosive Ordnance Disposal (AEOD) Site was reviewed for closure by the West Central Region (WCR) Closure Committee. The WCR Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On June 6, 2003, you were sent a letter notifying you that the WCR Closure Committee had granted conditional closure to this case.

On September 11th, the Department received correspondence indicating that you had complied with the conditions of closure, and on October 27th we received the \$250 fee for listing this site on the groundwater GIS Registry of Closed Remediation Sites. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time. Furthermore, the NR 140.28 exemptions described in the conditional closure letter dated June 6, 2003 are now in effect.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

Please be aware that 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 to the environment.

As was noted in the conditional closure letter, the AEOD is still a licensed RCRA treatment unit. This closure letter only deals with environmental investigation and remediation rules (NR 700 Series, Wis. Adm. Code). The hazardous waste license (NR 600 Series, Wis. Adm. Code) still must be closed out. Ginger Hooper will review the documentation that has been provided and you will separately receive the appropriate RCRA closure response from her.

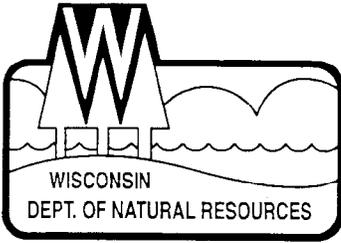
If you have questions regarding hazardous waste management issues for the AEOD site, please contact Ginger Hooper at (715) 839-3752. If you have any other questions regarding this letter, please contact me at (715) 839-1603. We appreciate your efforts to restore the environment at this site.

Sincerely,



Joseph E. Traynor, P.G.
Remediation and Redevelopment Program
West Central Region

cc: Tim Gelhaus / Craig Bartholomew - AEEU
Ginger Hooper - WCR
[Redacted]



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Scott Humrickhouse, Regional Director

West Central Region Headquarters
1300 W. Clairemont Avenue
PO Box 4001
Eau Claire, Wisconsin 54702-4001
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TTY 715-839-2786

June 6, 2003

FID#642024900
BRRTS #02-42-279963
SW LIC. #6022
RR/CORR

Alan L. Balliett, Chief
Environmental Branch
ATTN: AFRC-FM-SSE
2171 S. 8th Ave.
Fort McCoy, WI 54656-5136

Subject: Conditional Case Closure With NR 140 Exemption Fort McCoy Active Explosive Ordnance Disposal Site, Wisconsin BRRTS #02-42-279963

Dear Mr. Balliett:

On May 20, 2003, your request for closure of the Fort McCoy Active Explosive Ordnance Disposal (AEOD) Site was reviewed by the West Central Region (WCR) Closure Committee. The WCR Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the WCR Closure Committee has determined that the metals and energetics contamination on the AEOD site appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

Monitoring Well Abandonment

The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be provided to Joe Traynor on Form 3300-5B found at www.dnr.state.wi.us/org/water/dgw/gw/ or provided by the Department of Natural Resources. The AEOD and the Inactive Explosive Ordnance Disposal (IEOD) site are both located in the north impact area. It is my understanding that a closure request for the IEOD site will soon be sent to the Department. Given the limited access to the north impact area, it may be most appropriate to delay the abandonment of these wells until the IEOD is also approved for closure by the WCR Closure Committee. This will allow for wells at both sites to be abandoned at the same time.

Placement on the GIS Registry of Closed Remediation Sites

Recent groundwater monitoring data at this site indicates levels of RDX at OW-111 and OW-112 that exceed Lifetime Health Advisories found in the EPA Drinking Water Health Advisory Table. Currently there is no NR 140 standards for this parameter, however the Department is using the EPA Lifetime Health Advisory level as a site specific standard for this case. Due to the exceedance of this site specific standard the Department is requiring that this site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. This will help assure that if at some point in the future the north impact area is no longer used as an impact zone for military exercises the groundwater conditions at the AEOD will be considered in the planning for future uses of this area. It is my understanding that Fort McCoy staff will be providing additional documents for placing this site on the registry along with the required \$250 fee.

Groundwater Quality Standard Exemptions

Recent groundwater monitoring data at this site indicates exceedances of the NR 140 preventive action limit (PAL) for arsenic and cadmium at P123A, but compliance with the NR 140 enforcement standard. The Department believes these are background concentrations and not reflective of impacts from the ordnance disposal site. The Department may grant an exemption to a PAL for a substance of public health concern, other than nitrate, in an area where the background concentration of this substance attains or exceeds a preventive action limit for that substance, pursuant to s. NR 140.28(3)(b), Wis. Adm. Code, if either the following criteria are met:

1. The facility, practice or activity has not caused and will not cause the further release of that substance into the environment; or
2. If the background concentrations of the substance does not exceed the enforcement standard for that substance, the facility, practice or activity, has not caused and will not cause the concentration of the substance to exceed the enforcement standard for that substance at a point of standards application and the facility, practice or activity is designed to achieve the lowest possible concentration of that substance which is technically and economically feasible

Based on the information you provided, the Department believes that the above criteria have been or will be met. Therefore, pursuant to s. NR 140.28(3)(b), Wis. Adm. Code, an exemption to the PAL is granted for arsenic and cadmium at P123A. This letter serves as your exemption.

Recent groundwater monitoring data at this site also indicates exceedances of the ch. NR 140, Wis. Adm. Code, enforcement standard for manganese at OW110, OW112, OW123B, P123A and OW159, and the enforcement standard for iron at P123A. The Department may grant an exemption for a substance of public welfare concern, or nitrate, pursuant to s. NR 140.28(4)(a), Wis. Adm. Code, if actions have been taken to achieve the lowest possible concentration for that substance which is technically and economically feasible and the existing or anticipated increase in the concentration of that substance does not present a threat to public health or welfare.

Based on the information you provided, the Department believes that the above criteria have been or will be met. Therefore, pursuant to s. NR 140.28(4)(a), Wis. Adm. Code, an exemption to the enforcement standard for manganese at OW110, OW112, OW123B, P123A and OW159, and the enforcement standard for iron at P123A. This letter serves as your exemption.

Pursuant to s. NR 140.28(4)(c), Wis. Adm. Code, the department shall take action under s. NR 140.26 if it determines that an increase in concentration of manganese or iron causes an increased threat to public health or welfare or it determines that the incremental increase in the concentration of iron or manganese, by itself, exceeds the preventive action limit.

Please be aware that 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 to the environment.

It should be noted that the AEOD is still a licensed RCRA treatment unit. This closure letter only deals with environmental investigation and remediation rules (NR 700 Series, Wis. Adm. Code). You will still need to close out the hazardous waste license (NR 600 Series, Wis. Adm. Code). Ginger Hooper will review the documentation that has been provided with the "partial closure" already completed for the surface soils at the AEOD and the new information provided to the WCR Closure Committee. If additional information or fees are required for the RCRA closure she will contact you within a few weeks. Otherwise you will separately receive the appropriate RCRA closure response from her. If you have questions regarding hazardous waste management issues for the AEOD please contact Ginger Hooper at (715) 839-3752. If you have any other questions regarding this letter, please contact me at (715) 839-1603. We appreciate your efforts to restore the environment at this site.

Sincerely,



Joseph E. Traynor, P.G.
Remediation and Redevelopment Program
West Central Region

cc: Bill Phelps, DG/2
Tim Gelhaus / Craig Bartholomew - AEEC
Ginger Hooper - WCR
Bob Egan - USEPA

NUMBER

211913

This Indenture, Made by Eliza J. Paul, a widow; Maud Jeffers; Ray Paul and Julia Paul, his wife, B-92

grantors, of Monroe County, Wisconsin, hereby convey and warrant to

UNITED STATES OF AMERICA

grantee / its successors and assigns County of Wisconsin, for

the sum of THREE THOUSAND FIVE HUNDRED NINETY-EIGHT DOLLARS (\$3,598.00)

the following tract of land in Monroe County, State of Wisconsin;

TOWNSHIP EIGHTEEN (18) NORTH, RANGE THREE (3) WEST OF THE FOURTH (4th) PRINCIPAL MERIDIAN.

SECTION TWO (2)

The Northwest Quarter of the Southwest Quarter (NW $\frac{1}{4}$ SW $\frac{1}{4}$); and

The Southwest Quarter of the Southwest Quarter (SW $\frac{1}{4}$ SW $\frac{1}{4}$)

SECTION THREE (3)

The Northeast Quarter of the Southeast Quarter (NE $\frac{1}{4}$ SE $\frac{1}{4}$), and

The Northwest Quarter of the Southeast Quarter (NW $\frac{1}{4}$ SE $\frac{1}{4}$)

containing One Hundred Sixty (160) acres, more or less.

7/2
4.40
Cancelled

IN WITNESS WHEREOF, the said grantors have hereunto set their hands and seals this 29

day of Oct., A. D., 1912

Signed and Sealed in Presence of

B. G. Finch

L. A. Hansen

Eliza J. Paul (SEAL)

Eliza J. Paul

Maud Jeffers (SEAL)

Maud Jeffers

Ray Paul (SEAL)

Ray Paul

Julia Paul (SEAL)

Julia Paul

STATE OF WISCONSIN, } ss.
Monroe County, }

Personally came before me, this 29th day of Oct., A. D., 1912,

the above named Eliza J. Paul, a widow; Maud Jeffers; Ray Paul and Julia Paul, his wife,

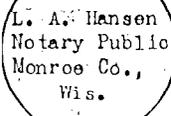
to me known to be the person who executed the foregoing instrument and acknowledged the same.

Received for Record this 30th day of

October A. D., 1912, at 9:45 o'clock A. M.

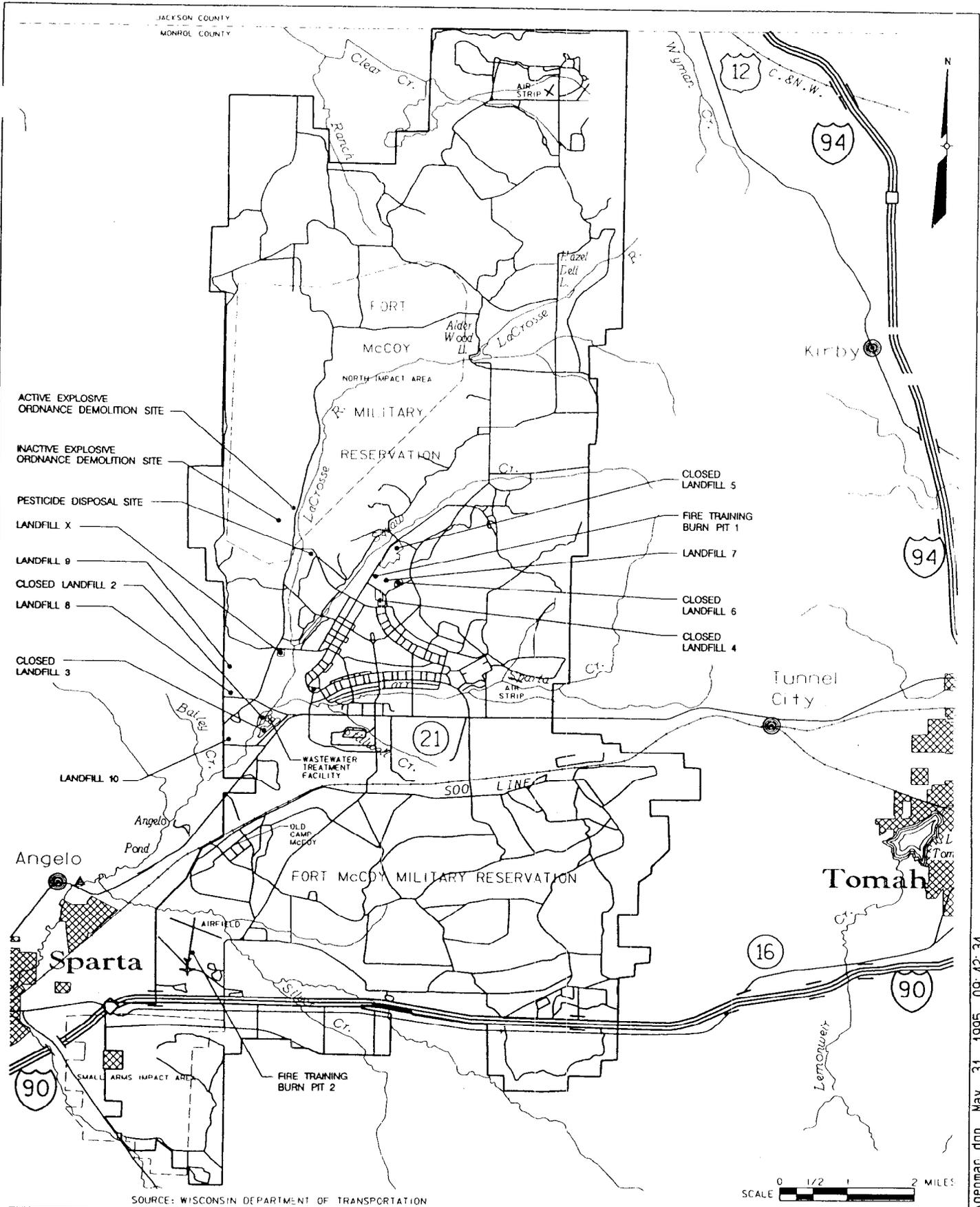
Elizabeth F. Crossen Register of Deeds.

Deputy.



L. A. Hansen Notary Public, Monroe County, Wis.

My Commission expires May 9, A. D., 1913



JUNE 1995

18903

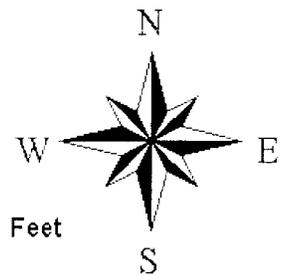
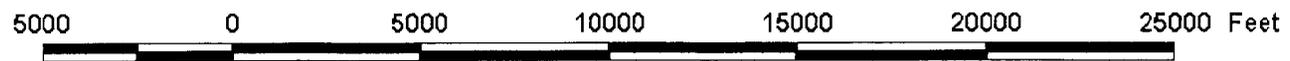
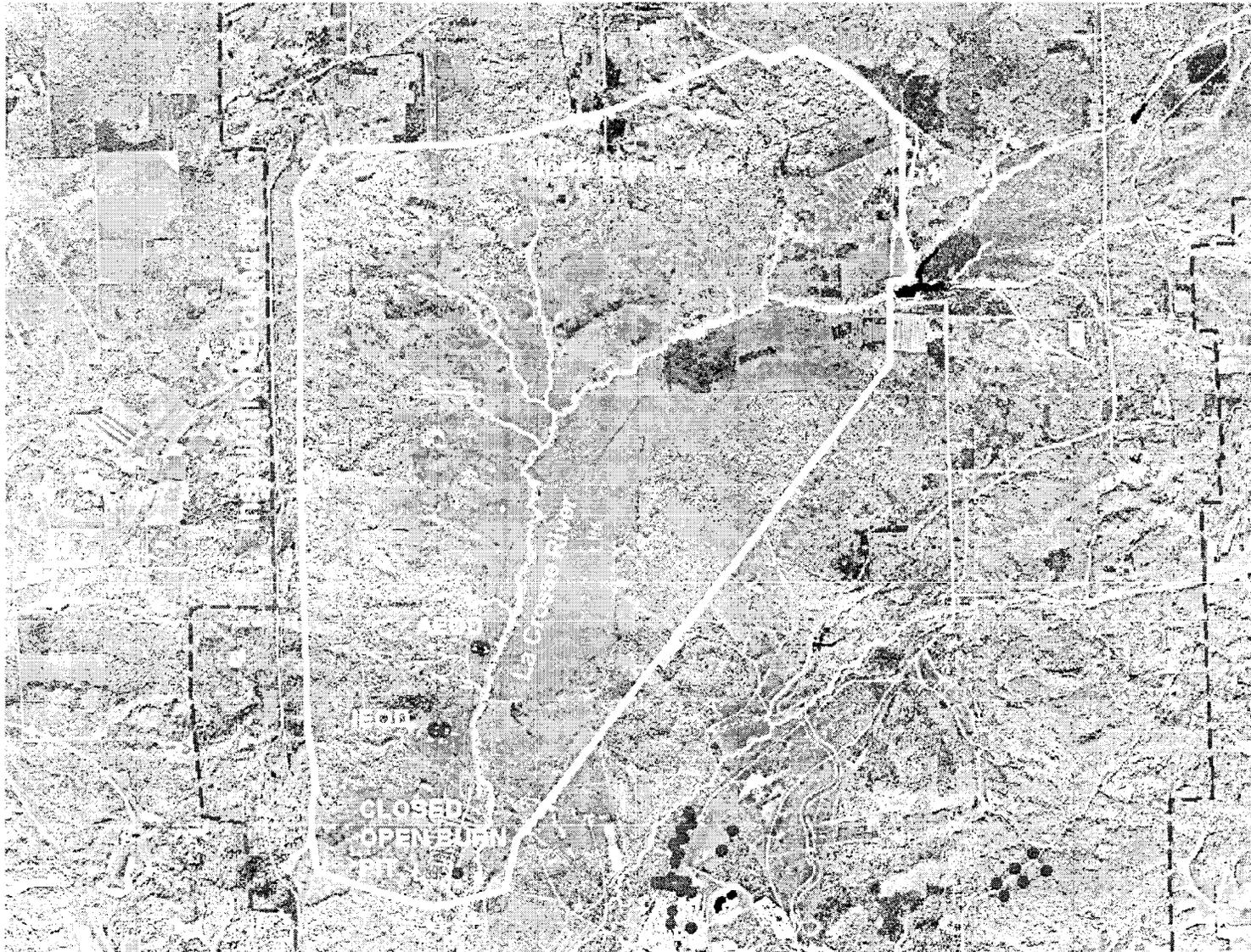
RUST ENVIRONMENT & INFRASTRUCTURE

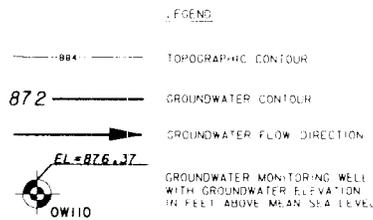
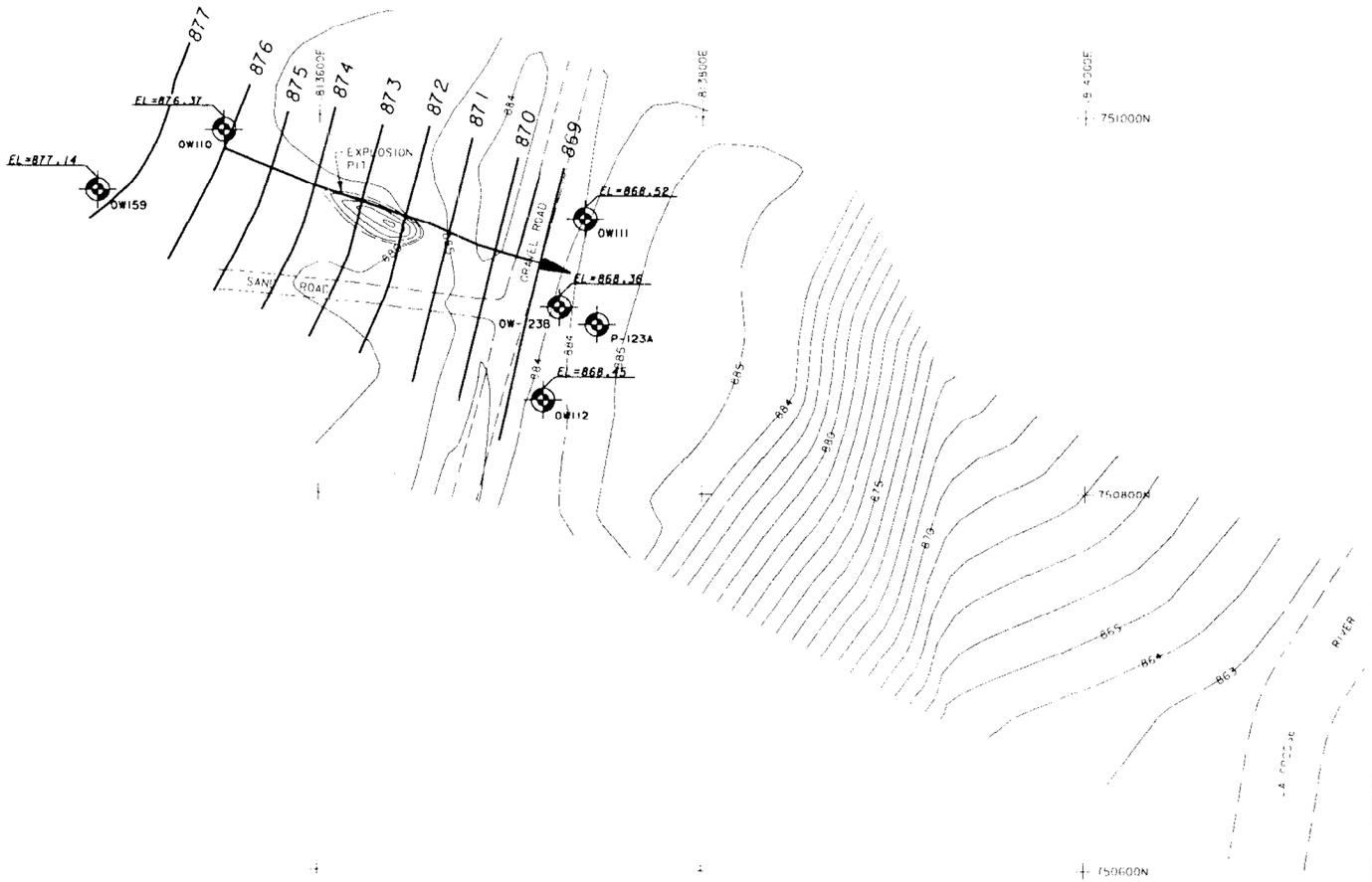
FIGURE I-2
LOCATION MAP OF SITES

FORT MCCOY
SAMPLING AND REPORTING PLAN
MONROE COUNTY, WISCONSIN

e:\project\400351\genmap.dgn May. 31. 1995 09:42:34

AEOD/IEOD





NOTES:
GROUNDWATER TABLE ELEVATIONS AND CONTOURS ARE DERIVED FROM THE APRIL 1996 SAMPLING EVENT.

RUST ENVIRONMENT & INFRASTRUCTURE

JUNE 1996

18903

ACTIVE EXPLOSIVE ORDNANCE DISPOSAL SITE
POTENTIOMETRIC SURFACE MAP

FORT McCOY
MONROE COUNTY, WISCONSIN

FORT MCCOY AEOD
Groundwater Sampling
25-Apr-02

WELL ID NUMBER	OW 110	OW 159	OW 111	OW 123B	P123A	OW 112	OW 112DUP	OW 112 Equip Blank	Field Blank
Date Sampled	*= =	04/25/2002	04/25/2002	04/25/2002	04/25/2002	04/25/2002	04/25/2002	*= =	*= =
Groundwater Elevation/MSL	*= =	876.26	868.05	867.93	868.63	868.17		*= =	*= =
Temperature/Celsius	*= =	7.4	8.5	8.9	10.5	9		*= =	*= =
TOT Dissolved Solids/ppm	*= =	19	34.5	25.5	58	20.5	17	ND	ND
TOT Suspended Solids/ppm	*= =	2.1	ND	1	12.8	1	ND	ND	ND
Oxidation/Reduction Potential/mv	*= =	514	471	473	264	306	306	0.048	0.044
Dissolved Oxygen/ppm	*= =	7.9	11.9	10.5	1.5	10	10	ND	ND
TOT REC Calcium/ppm	*= =	1.61	2.63	3.17	7.22	2.26	2.26	ND	ND
TOT REC Magnesium/ppm	*= =	0.545	2.19	1.39	3.61	0.797	0.814	ND	ND
TOT REC Nickel/ppb	*= =	ND	ND	ND	ND	ND	ND	0.7	ND
TOT REC Potassium/ppm	*= =	0.239	2.2	0.388	0.654	0.254	0.271	ND	ND
TOT REC Sodium/ppm	*= =	ND	1.5	1.1	0.9	ND	ND	122	ND
TOT REC Vanadium/ppb	*= =	ND	ND	ND	7.3	7.4	ND	ND	ND
Dissolved Aluminum/ppb	*= =	ND	107	ND	ND	ND	ND	ND	ND
Dissolved Barium/ppb	*= =	23	33.3	16.1	17.2	16.1	13.6	ND	ND
Dissolved Cobalt/ppb	*= =	ND	ND						
Dissolved Copper/ppb	*= =	ND	ND						
Dissolved Iron/ppm	*= =	0.007	0.013	0.012	6.28	0.008	0.008	ND	ND
Dissolved Magnesium/ppb	*= =	0.547	2.01	1.39	3.57	0.853	0.86	ND	ND
Dissolved Manganese/ppb	*= =	18.7	ND	ND	93.6	1.8	ND	ND	ND
Dissolved Nickel/ppb	*= =	ND	ND						
Dissolved Potassium/ppm	*= =	0.5	2.8	0.7	1	0.5	0.5	ND	ND
Dissolved Sodium/ppm	*= =	ND	1.2	0.7	1.7	ND	1.1	ND	0.9
Dissolved Vanadium/ppb	*= =	ND	ND						
Dissolved Zinc/ppb	*= =	ND	ND						
Dissolved Chromium/ppb	*= =	ND	ND						
TOT REC Aluminum/ppb	*= =	94.1	ND	ND	172	ND	ND	ND	ND
TOT REC Barium/ppb	*= =	25.4	41	22	30.9	15.3	15.8	ND	ND
TOT REC Cadmium/ppb	*= =	0.13	ND	ND	0.58	0.1	ND	ND	ND
TOT REC Chromium/ppb	*= =	ND	ND						
TOT REC Cobalt/ppb	*= =	ND	ND						
TOT REC Copper/ppb	*= =	ND	ND						
TOT REC Iron/ppm	*= =	0.136	0.118	0.073	9.42	0.05	0.036	0.011	ND
TOT REC Manganese/ppb	*= =	19.2	1.6	ND	86.4	2.2	1.8	ND	ND
TOT REC Zinc/ppb	*= =	ND	ND	ND	3.9	ND	ND	ND	ND
Dissolved Cadmium/ppb	*= =	0.11	ND	ND	0.32	ND	ND	ND	ND
Dissolved Calcium/ppm	*= =	1.63	2.26	3.25	7.19	2.32	2.32	ND	ND
Dissolved Antimony/ppb	*= =	ND	ND	ND	ND	3.4	ND	ND	ND
TOT REC Antimony/ppb	*= =	ND	ND						
Dissolved Arsenic/ppb	*= =	ND	ND	ND	4.9	ND	ND	ND	ND
TOT REC Arsenic/ppb	*= =	ND	ND	ND	11.7	ND	ND	ND	ND
Dissolved Beryllium/ppb	*= =	ND	ND						
TOT REC Beryllium/ppb	*= =	ND	ND						
Dissolved Lead/ppb	*= =	ND	ND	ND	ND	ND	ND	5.4	ND
TOT REC Lead/ppb	*= =	ND	ND						
Dissolved Mercury/ppb	*= =	ND	ND	ND	0.08	ND	ND	0.16	ND
TOT REC Mercury/ppb	*= =	ND	ND						
Dissolved Selenium/ppb	*= =	ND	ND						
TOT REC Selenium/ppb	*= =	ND	ND						
Dissolved Silver/ppb	*= =	ND	ND						
TOT REC Silver/ppb	*= =	ND	ND						
Dissolved Thallium/ppb	*= =	ND	ND						
TOT REC Thallium/ppb	*= =	ND	ND						
HMX/ppb	*= =	ND	2.2	0.31	ND	ND	ND	ND	ND
RDX/ppb	*= =	ND	16	1.8	ND	1.1	1.1	ND	ND
1,3,5-Trinitrobenzene/ppb	*= =	ND	ND						
1,3-Dinitrobenzene/ppb	*= =	ND	ND						
Tetryl/ppb	*= =	ND	ND						
Nitrobenzene/ppb	*= =	ND	ND						
2,4,6-Trinitrotoluene/ppb	*= =	ND	0.61	ND	ND	ND	ND	ND	ND
4-Amino-2,6-Dinitrotoluene/ppb	*= =	ND	8.2	ND	ND	ND	ND	ND	ND
2-Amino-4,6-Dinitrotoluene/ppb	*= =	ND	6.1	ND	ND	ND	ND	ND	ND
2,4,-Dinitrotoluene/ppb	*= =	ND	ND						
2,6-Dinitrotoluene/ppb	*= =	ND	ND						
2-Nitrotoluene/ppb	*= =	ND	ND						
3-Nitrotoluene/ppb	*= =	ND	ND	0.31	0.37	ND	0.37	ND	ND
4-Nitrotoluene/ppb	*= =	ND	ND						
TOT Cyanide/ppb	*= =	ND	ND						
Field pH	*= =	5	5.7	5.8	6.2	5.4	5.4	ND	ND
Specific Conductance	*= =	26	48	40	98	31	31	ND	ND
Nitrate as N	*= =	ND	1.43	ND	ND	ND	ND	ND	ND
Nitrite as N	*= =	ND	ND						

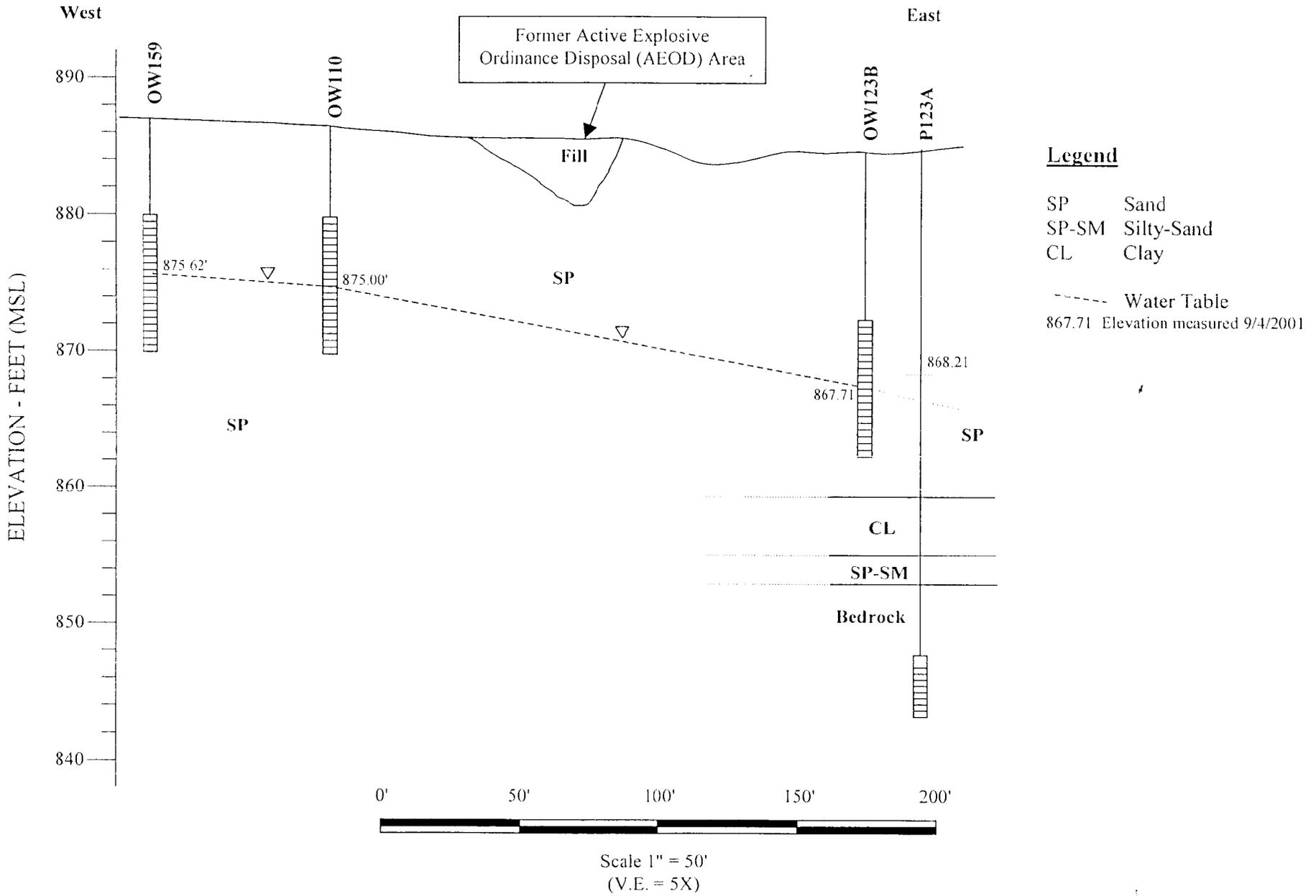
Bold = ES Exceedance
 Bold Italics = PAL Exceedance
 *= = No Field or Lab Analysis Available or Not Applicable

FORT MCCOY AEOD
Groudwater Elevation Table
Rounds 21 - 24

WELL ID NUMBER	OW 110 Feet (MSL)	OW 159 Feet (MSL)	OW111 Feet (MSL)	OW 123B Feet (MSL)	P123A Feet (MSL)	OW 112 Feet (MSL)
Date Elevation Taken						
04/25/2002	875.42	876.26	868.05	867.93	868.63	868.17
09/04/2001	875.00	875.62	867.89	867.71	868.21	867.91
07/02/2001	878.68	879.46	869.95	869.55	869.45	869.69
05/02/2001	876.44	877.20	868.65	866.49	867.85	868.71

Fort McCoy - (Former) Active Explosive Ordinance Disposal (AEOD) Area

West - East Cross Section





REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
HEADQUARTERS FORT McCOY
2171 SOUTH 8TH AVENUE
FORT McCOY, WISCONSIN 54656-5136



I, Alan L. Balliett, Chief of The Environmental Branch - Fort McCoy, certify that to the best of my knowledge the Deed submitted within this GIS Registry Packet for the Fort McCoy AEOD site is correct.

A handwritten signature in cursive script, appearing to read "Alan L. Balliett".

Alan L. Balliett
Chief, Environmental Branch
Directorate of Support Services