

**GIS REGISTRY INFORMATION**

**SITE NAME:** FORT MCCOY INACTIVE EXPLOSIVE ORD DISPOSAL

**BRRTS #:** 02-42-279971 **FID # 642024900**

**COMMERCE # (if appropriate):** \_\_\_\_\_

**CLOSURE DATE:** 10/22/2003

**STREET ADDRESS:** FORT MCCOY

**CITY:** SPARTA

**SOURCE PROPERTY GPS COORDINATES** (meters in WTM91 projection): X= 462757 Y= 397830

**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

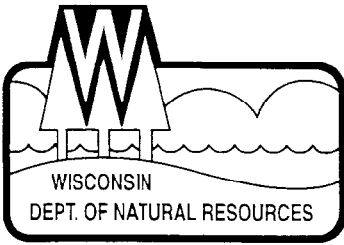
**IF YES, STREET ADDRESS 1:** \_\_\_\_\_

**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

July 18, 2003

FID#642024900  
BRRTS #02-42-279971  
GEMS ID. #4217  
RR/CORR

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

Subject: Conditional Case Closure With NR 140 Exemption Fort McCoy Inactive Explosive Ordnance Disposal Site, Wisconsin BRRTS #02-42-279971

Dear Mr. Balliett:

On June 12, 2003, your request for closure of the Fort McCoy Inactive Explosive Ordnance Disposal (IEOD) 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 IEOD 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/](http://www.dnr.state.wi.us/org/water/dgw/gw/) or provided by the Department of Natural Resources.

### **Placement on the GIS Registry of Closed Remediation Sites**

Recent groundwater monitoring data at this site indicates levels of RDX at OW-124, OW-126, OW-127 and OW-128 that exceed Lifetime Health Advisories found in the EPA Drinking Water Health Advisory Table. Currently there is no NR 140 standard for this parameter, however the Department is using the EPA Lifetime Health Advisory level as a site specific standard for this case. Also, the industrial soil standard for arsenic and the non-industrial standard for lead were exceeded in soil samples collected at the IEOD site.

Due to the exceedances of site specific standards the Department is requiring that this site be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites for both groundwater and soil. 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 and soil conditions at the IEOD will be considered in the planning for future uses of this area. It is my understanding that Fort McCoy staff will be providing the required \$450 fee (\$250 for the groundwater and \$200 for the soil listing) for placing this site on the registry.

**Groundwater Quality Standard Exemptions**

Recent groundwater monitoring data at this site indicates exceedances of the ch. NR 140, Wis. Adm. Code, preventive action limit for iron at OW-126 and OW-128. The Department may grant an exemption for a substance of public welfare concern, or nitrate, pursuant to s. NR 140.28(2)(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(2)(a), Wis. Adm. Code, an exemption to the preventive action limit is granted for iron at OW-126 and OW-128. This letter serves as your exemption.

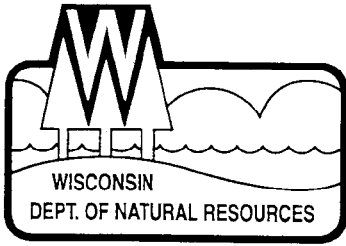
Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment. If you have questions regarding this 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  
Bob Egan - USEPA



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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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 22, 2003

FID#642024900  
BRRTS #02-42-279971  
GEMS ID #4217  
RR/CORR

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

Subject: Final Case Closure by Closure Committee with Conditions Met - Fort McCoy  
Inactive Explosive Ordnance Disposal Site, Wisconsin BRRTS #02-42-279971

Dear Mr. Balliett:

On June 12, 2003, the Fort McCoy Inactive Explosive Ordnance Disposal 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 July 18, 2003, you were sent a letter notifying you that the WCR Closure Committee had granted conditional closure to this case.

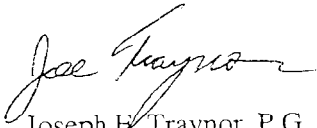
On October 1<sup>st</sup>, the Department received correspondence indicating that you had complied with the conditions of closure, and on October 20<sup>th</sup> we received the \$450 fee for listing this site on the GIS Registry of Closed Remediation Sites for both soil and groundwater. Based on the 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 July 18, 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.

If you have any questions regarding this letter, please contact me at (715) 839-1603. We appreciate your efforts to restore the environment at this site.

Sincerely,



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

cc: Tim Gelhaus / Craig Bartholomew - AEEC  
Bob Egan - USEPA

NUMBER

This Indenture, Made by **Loren H. Nicks, a single man,**

B-110

211296

grantor, of

Monroe

County, Wisconsin, hereby conveys and warrants to

UNITED STATES OF AMERICA

grantee ~~its~~ successors and assigns ~~XXXXXXXXXXXX~~, for

the sum of **TWO HUNDRED SIXTY DOLLARS (\$260.00)**

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

.554  
cancelled.

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

**PRINCIPAL MERIDIAN.**

**SECTION TEN (10)**

**The South One Half of the Northeast Quarter (S<sup>1</sup>/<sub>2</sub> NE<sup>1</sup>/<sub>4</sub>) containing eighty (80) acres, more or less.**

IN WITNESS WHEREOF, the said grantor has hereunto set his hand and seal this **13th**

day of **August**, A. D., 19 **42**.

Signed and Sealed in Presence of

**Harold E. Markham**

**Dorothy H. Oswald**

**Loren H. Nicks** (SEAL)

**Loren H. Nicks** (SEAL)

(SEAL)

(SEAL)

STATE OF WISCONSIN,

**Monroe** County. } ss.

Personally came before me, this **13th** day of **August**, A. D., 19 **42**.

the above named **Loren H. Nicks, a single man,**

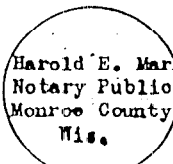
to me known to be the person who executed the foregoing instrument and acknowledged the same.

Received for Record this **14** day of

**August**, A. D., 19 **42**, at **1:30** o'clock P. M.

**Elizabeth F. Crossen** Register of Deeds.

Deputy.



**Harold E. Markham**

**Harold E. Markham** Notary Public, **Monroe** County, Wis.

My Commission expires **Sept. 6**, A. D., 19 **42**

JACKSON COUNTY  
MONROE COUNTY

ACTIVE EXPLOSIVE  
ORDNANCE DEMOLITION SITE  
  
INACTIVE  
EXPLOSIVE  
ORDNANCE  
DEMOLITION  
SITE

PESTICIDE DISPOSAL SITE

LANDFILL X

CLOSED LANDFILL 2

CLOSED LANDFILL 3

WASTEWATER  
TREATMENT  
FACILITY

Angelo

Sparta

SMALL ARMS IMPACT AREA

FIRE TRAINING  
BURN PIT 2

FORT

MCCOY

NORTH IMPACT AREA

MILITARY

RESERVATION

FORT MCCOY MILITARY RESERVATION

CLOSED  
LANDFILL 5

FIRE TRAINING  
BURN PIT 1

CLOSED  
LANDFILL 6

CLOSED  
LANDFILL 4

Tunnel  
City

Tomah

SCALE 0 1/2 1 2 MILES

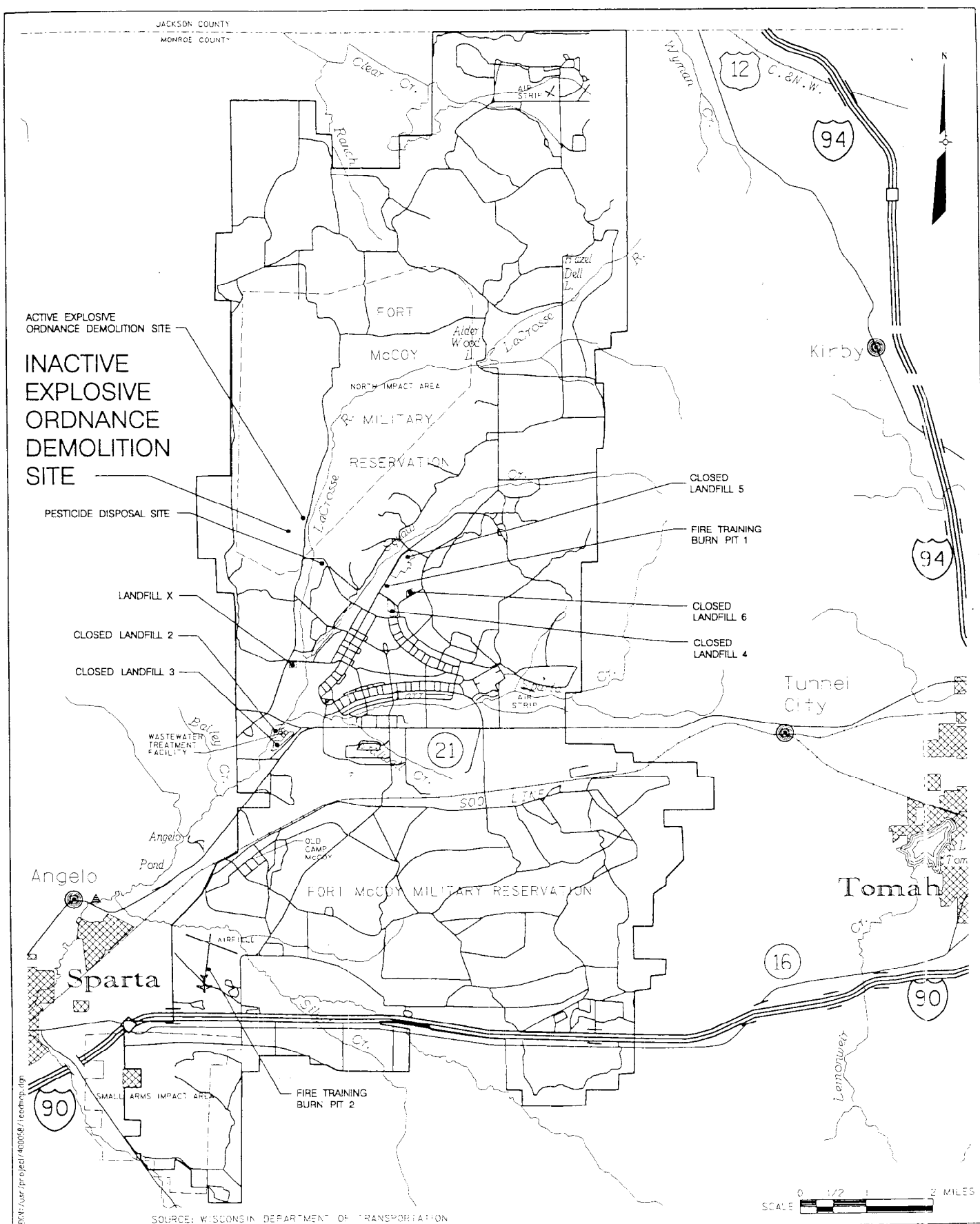
SOURCE: WISCONSIN DEPARTMENT OF TRANSPORTATION

NOV. 1994

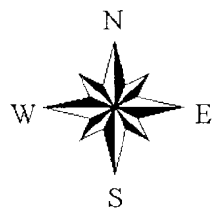
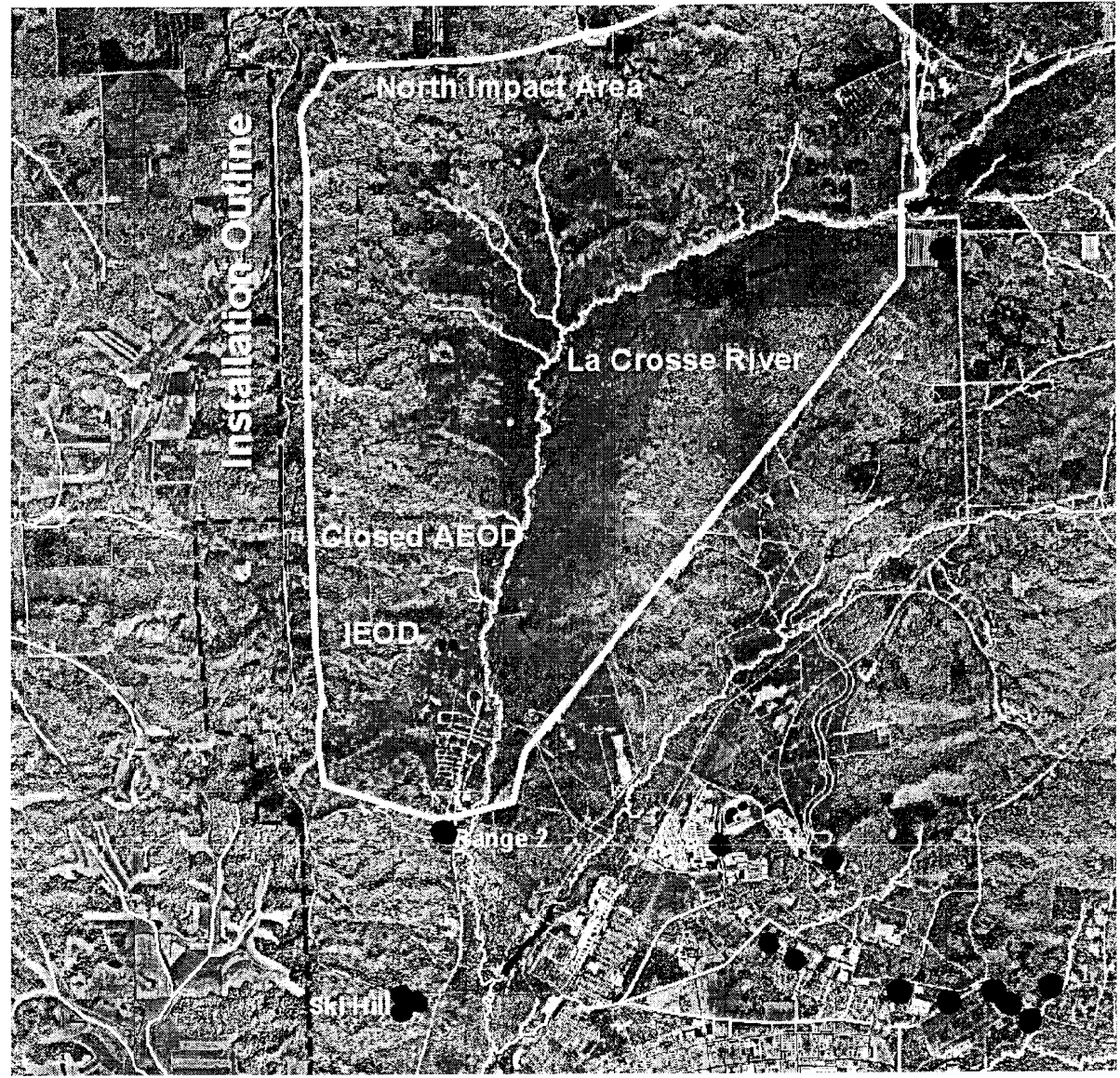
8903

 **SEC DONOHUE**  
Environment & Infrastructure

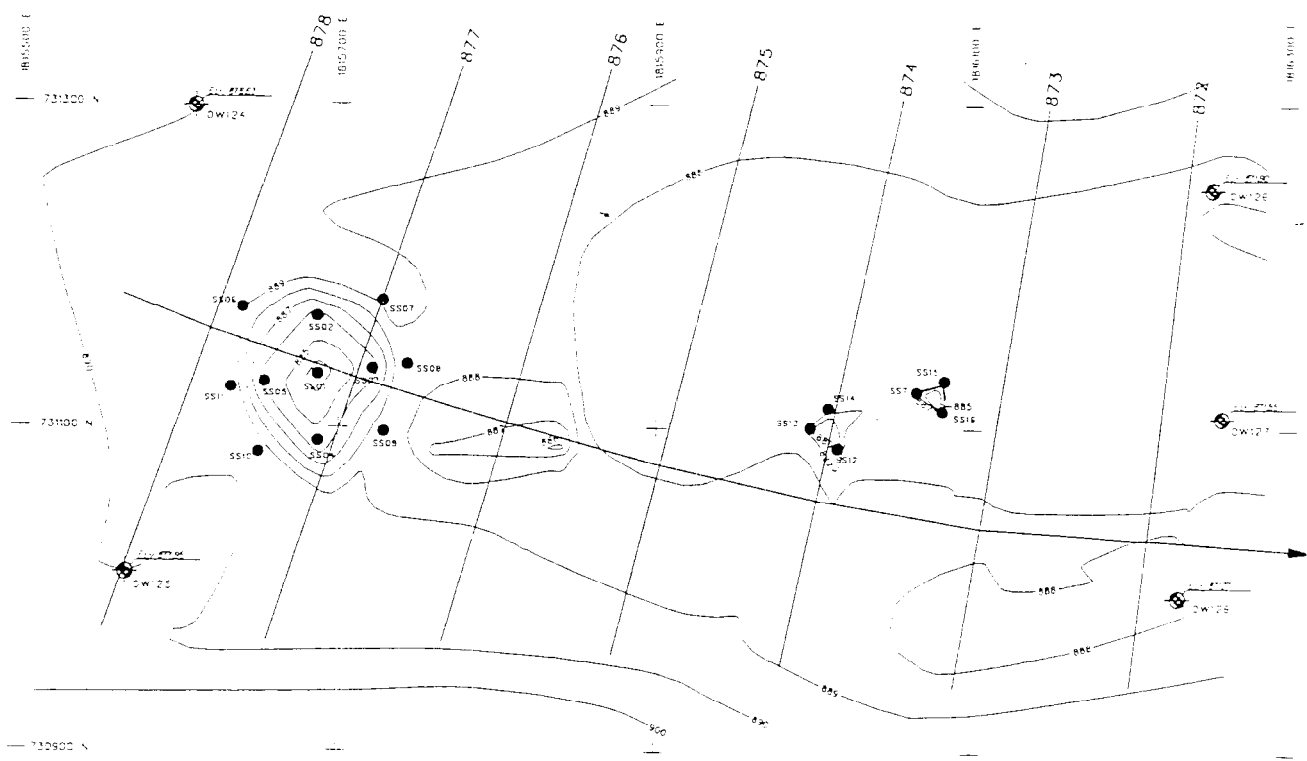
FIGURE 15-1  
INACTIVE EXPLOSIVE ORDNANCE DISPOSAL SITE  
LOCATION MAP  
FORT MCCOY RFI  
MONROE COUNTY, WISCONSIN



# IEOD LOCATION MAP

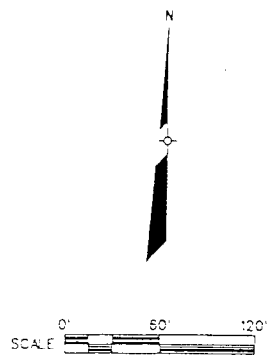






- LEGEND**
- 874 — TOPOGRAPHIC CONTOUR
  - 870 — GROUNDWATER CONTOUR
  - GROUNDWATER FLOW DIRECTION
  - ⊙ SS10/SS11 GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
  - SS10 SHALLOW SOIL SAMPLE LOCATION PHASE 1

- NOTES**
1. GROUNDWATER TABLE ELEVATIONS AND CONTOURS ARE DERIVED FROM THE PHASE 1 INVESTIGATION
  2. SHALLOW SOIL SAMPLE LOCATIONS INDICATE THE CENTER OF THE COMPOSITE SAMPLE; SUBSAMPLES WERE LOCATED 1 FEET NORTH-SOUTH, EAST AND WEST OF THE CENTER



BCH-705/Project/14000567-3736-4-81



RCRA Facility Investigation Report May 1994

MAY 1994

18903

FIGURE 2-6  
SOIL SAMPLING LOCATIONS INACTIVE EOD SITE

FORT MCCOY RFI  
MONROE COUNTY, WISCONSIN

**FORT MCCOY IEOD**  
**Groundwater Sampling**  
**25-Apr-02**

WELL ID NUMBER	OW 124	OW 126	OW 127	OW 128	ES Limit	PAL Limit	Life Time Limit	SDWR Limit	Region 3 RBC's
Date Sampled	04/25/2002	04/25/2002	04/25/2002	04/25/2002	*= =	*= =	*= =	*= =	*= =
Groundwater Elevation/MSL	877.04	870.46	870.22	870.50	*= =	*= =	*= =	*= =	*= =
Temperature/Celsius	8.9	9.3	9.5	9.3	*= =	*= =	*= =	*= =	*= =
Conductivity/umho/cm	26	23	28	33	*= =	*= =	*= =	*= =	*= =
TOT Dissolved Solids/ppm	24	21.5	26.5	27.5	*= =	*= =	*= =	500 ppm	*= =
Oxidation/Reduction Potential/mv	484	473	466	456	*= =	*= =	*= =	*= =	*= =
Dissolved Oxygen/ppm	12.5	12.4	11.7	12.4	*= =	*= =	*= =	*= =	*= =
TOT Nitrate Nitrogen/ppm	1.0RL	1.0RL	1.0RL	1.0RL	10	2	*= =	*= =	*= =
TOT Nitrite Nitrogen/ppm	0.15RL	0.15RL	0.15RL	0.15RL	10	2	*= =	*= =	*= =
TOT Phosphorus/ppm	0.017	0.02	0.069	0.062	NS	NS	NS	NS	NS
TOT REC Aluminum/ppb	88.1	188	<79	220	NS	NS	*= =	50 to 200 ppb	*= =
TOT REC Antimony/ppb	<3.3	<3.3	<3.3	<3.3	6	1.2	*= =	*= =	*= =
TOT REC Arsenic/ppb	2.5	<2.4	<2.4	<2.4	50	5	*= =	*= =	*= =
TOT REC Barium/ppb	35.1	19.8	28.8	44.2	2000	400	*= =	*= =	*= =
TOT REC Beryllium/ppb	<0.2	<0.2	<0.2	<0.2	4	0.4	*= =	*= =	*= =
TOT REC Cadmium/ppb	<0.1	<0.1	<0.1	<0.1	5	0.5	*= =	*= =	*= =
TOT REC Calcium/ppm	1.9	1.67	2.01	2.4	NS	NS	NS	NS	NS
TOT REC Chloride/ppm	2.5RL	2.5RL	2.5RL	2.5RL	250	125	*= =	*= =	*= =
TOT REC Chromium/ppb	<3.8	<3.8	<3.8	<3.8	100	10	*= =	*= =	*= =
TOT REC Cobalt/ppb	<6.8	<6.8	<6.8	<6.8	40	8	*= =	*= =	*= =
TOT REC Copper/ppb	<9.5	<9.5	9.5	<9.5	1300	130	*= =	*= =	*= =
TOT REC Flouride/ppm	0.25RL	0.25RL	0.25RL	0.25RL	4	0.8	*= =	*= =	*= =
TOT REC Iron/ppm	0.138	0.194	0.142	0.285	0.3	0.15	*= =	*= =	*= =
TOT REC Lead/ppb	<0.6	<0.6	<0.6	<0.6	15	1.5	*= =	*= =	*= =
TOT REC Magnesium/ppm	0.337	0.318	0.509	0.515	NS	NS	NS	NS	NS
TOT REC Manganese/ppb	<b>3.7</b>	<b>3.4</b>	<b>11.6</b>	<b>9.1</b>	0.05	0.025	*= =	*= =	*= =
TOT REC Mercury/ppb	<0.08	<0.08	<0.08	<0.08	2	0.2	*= =	*= =	*= =
TOT REC Nickel/ppb	<19	<19	<19	<19	100	20	*= =	*= =	*= =
TOT REC Potassium/ppm	0.364	0.256	0.406	0.48	NS	NS	NS	NS	NS
TOT REC Selenium/ppb	<1.9	<1.9	<1.9	<1.9	50	10	*= =	*= =	*= =
TOT REC Silver/ppb	<0.9	<0.9	<0.9	<0.9	50	10	*= =	*= =	*= =
TOT REC Sodium/ppm	<0.6	<0.6	0.7	0.9	NS	NS	NS	NS	NS
TOT REC Sulfate/ppm	5.0RL	5.0RL	5.0RL	7.09	250	125	*= =	*= =	*= =
TOT REC Thallium/ppb	<0.7	<0.7	<0.7	<0.7	2	0.4	*= =	*= =	*= =
TOT REC Vanadium/ppb	<6.7	<6.7	<6.7	<6.7	30	6	*= =	*= =	*= =
TOT REC Zinc/ppb	<3.8	<3.8	3.9	4.7	5000	2500	*= =	*= =	*= =
HMX/ppb	0.62	2.3	1.1	0.75	NS	NS	400 ppb	*= =	*= =
RDX/ppb	8.7	19	7.1	4.6	NS	NS	2.0 ppb	*= =	*= =
1,3,5-Trinitrobenzene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	*= =	*= =	1100 ppb
2,4,6-Trinitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.62	NS	NS	2.0 ppb	*= =	*= =
2,4-Dinitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	0.05	0.005	*= =	*= =	*= =
2,6-Dinitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	0.05	0.005	*= =	*= =	*= =
2-Amino-4,6-Dinitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	NS	NS	NS
2-Nitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	*= =	*= =	611 ppb
3-Nitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	*= =	*= =	1200 ppb
4-Amino-2,6-Dinitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	NS	NS	NS
4-Nitrotoluene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	*= =	*= =	611 ppb
Nitrobenzene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	*= =	*= =	3.5 ppb
Tetryl/ppb	0.5RL	0.5RL	0.5RL	0.5RL	NS	NS	*= =	*= =	370 ppb
M-Dinitrobenzene/ppb	0.25RL	0.25RL	0.25RL	0.25RL	NS	NS	NS	NS	NS
Field pH	5.3	5.4	5.3	5.2	*= =	*= =	*= =	*= =	*= =
Specific Conductance	26	23	28	33	*= =	*= =	*= =	*= =	*= =

**Bold Analysis = ES Exceedance**

RL = Reporting Limit/No Detects or Analysis Found

< = < Level of Detection (LOD)

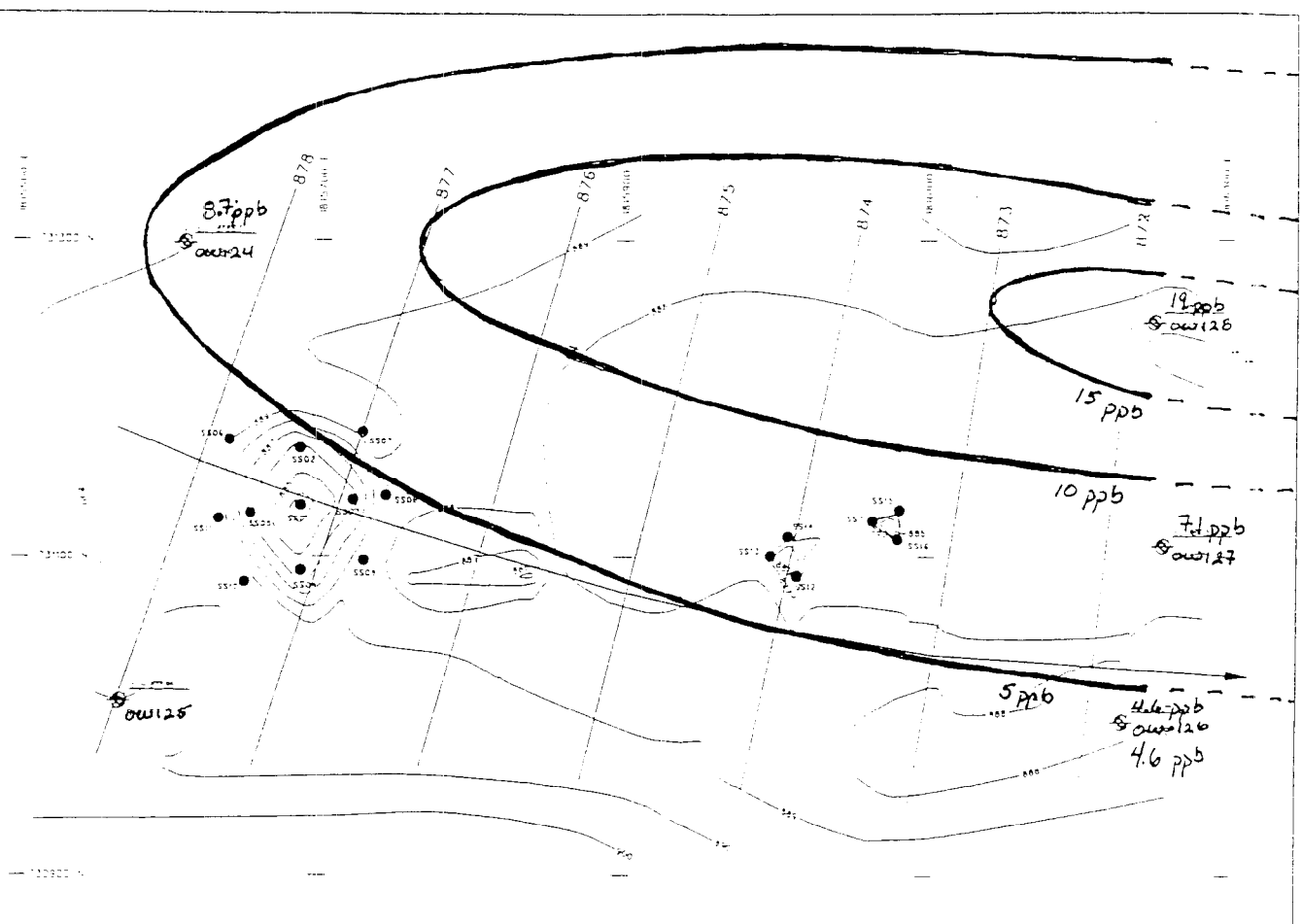
\*= = No Field or Lab Analysis Available or Not Applicable

Other Limits Found in EPA 822-R-02-038 Document - 2002 Edition of the Drinking Water Standards and Health Advisories

SDWR = Secondary Drinking Water Limits

LT = Health Advisory / Lifetime

Other Limits Found in EPA Region III RBC Table 4/25/2003



IEOD ISOCONCENTRATION MAP  
FOR RDX  
Groundwater Sampled on 25-Apr-02

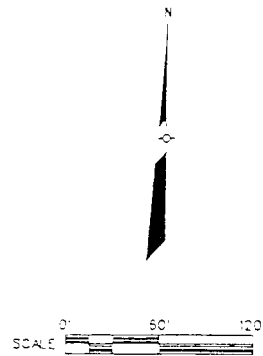
Note: Gw Elevations/Contours from Summer 1992 Investigation

- LEGEND
- TOPOGRAPHIC CONTOUR
  - GROUNDWATER CONTOUR
  - GROUNDWATER FLOW DIRECTION
  - GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
  - SHALLOW SOIL SAMPLE LOCATION PHASE I

NOTES

GROUNDWATER TABLE ELEVATIONS AND CONTOURS ARE DERIVED FROM THE PHASE I INVESTIGATION

SHALLOW SOIL SAMPLE LOCATIONS INDICATE THE CENTER OF THE COMPOSITE SAMPLE SUBSAMPLES WERE LOCATED 1 FEET NORTH-SOUTH-EAST AND WEST OF THE CENTER



**FORT MCCOY IEOD**  
**Groudwater Elevation Table**  
**Last Four Rounds**

<b>WELL ID NUMBER</b>	<b>OW 124</b>	<b>OW125</b>	<b>OW 126</b>	<b>OW 127</b>	<b>OW 128</b>
	<b>Feet (MSL)</b>	<b>Feet (MSL)</b>	<b>Feet (MSL)</b>	<b>Feet (MSL)</b>	<b>Feet (MSL)</b>
<b>Date Elevation Taken</b>					
<b>04/25/2002</b>	877.04	Na	870.46	870.22	870.50
<b>10/31/2001</b>	877.68	Na	871.18	870.88	871.10
<b>05/02/2001</b>	877.52	Na	870.86	870.70	874.00
<b>11/01/2000</b>	878.18	Na	871.18	870.86	871.12

Note: Groundwater Elevation for OW 128 taken on 5/2/2001 is questionable.

TABLE 1  
IEOD  
SOIL CONTAMINANT LEVELS FOR DIRECT CONTACT

Parameter in PPM	SS01	SS02	SS03	SS04	SS05	SS06	SS07	SS08	SS09	SS10	SS11	SS12	SS13	SS14	SS15	SS16	SS17	Units	Region IX PRGs	Region IX PRGs	NR720/Table2	NR720/Table2	Units
	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results		Residential	Industrial	Non Industrial	Industrial	
*Di-n-butylphthalate	1.1				0.46	1.4	5.3	0.7	2.6	1.8	2.6			0.52	0.54		1.7	MG/KG	NS	NS	NS	NS	MG/KG
N-nitrosodiphenylamine							5.5											MG/KG	130	580	NS	NS	MG/KG
2,4-Dinitrotoluene	6.6				0.73	1.04	3.2	0.29	1.3	4.712	3			0.578	0.07		0.35	MG/KG	120	1800	NS	NS	MG/KG
2,4,6-Trinitrotoluene																		MG/KG	16	82	NS	NS	MG/KG
RDX			2.617							0.8C2								MG/KG	4.4	82	NS	NS	MG/KG
HMX										1.366								MG/KG	3100	44000	NS	NS	MG/KG
*Aluminum	3510											3050	2570	3450	3500	3040		MG/KG	7.80E+04	1.00E+06	NS	NS	MG/KG
Arsenic	<b>2.2</b>							<b>2.8</b>	0.94									MG/KG	0.39	2.7	0.039	1.6	MG/KG
Barium	49	32.2			55.1		30.1	96.4	51.7		44	33.9	31.8	51.5	55.5	52.4	46.3	MG/KG	5400	100000	NS	NS	MG/KG
*Beryllium	1	0.95	0.95			1.5			1.2				1.3	1.9	1.9	1.7	1.5	MG/KG	160	2000	NS	NS	MG/KG
Chromium	6.3	1.7	15.7	2.1	1.8	1.9	2.7	3.3	2.5	2.3	2.3	3.4	2.1	7.4	4	3.2	3	MG/KG	210	450	NS	NS	MG/KG
Cobalt	3.9			2.3														MG/KG	16000	20000	NS	NS	MG/KG
Lead	123	30.9	143	15.7	25.2	63.5	92.2	310	146	56.1	65.9	20.8	61.9	90.5	31.3	7.5	74.2	MG/KG	400	750	50	500	MG/KG
Manganese	231					150							192	186	270	335	334	MG/KG	1800	32000	NS	NS	MG/KG
Nickel	3.1		3.6								2.5	2.5	2.7	5.3		4.3	3	MG/KG	1600	41000	NS	NS	MG/KG
Selenium	0.34												2.5	2.1				MG/KG	390	10000	NS	NS	MG/KG
*Vanadium	13.6	9.5	9	9.8	8.2						4.9	4.7	4.6	5.3	6.5	5.3	4	MG/KG	5500	72000	NS	NS	MG/KG
*Zinc	47.2	27	11.4	11.7	15	225.1	32.4	88.3	90.2	35.2	51.2	48.3	16.8	39.6	64.9	12.6	63.5	MG/KG	2.30E+04	3.10E+05	NS	NS	MG/KG

Notes: Analysis derived from the "RCRA Facility Investigation, Draft, Phase 2 RFI Summary of Results", SEC Donahue - February 1993

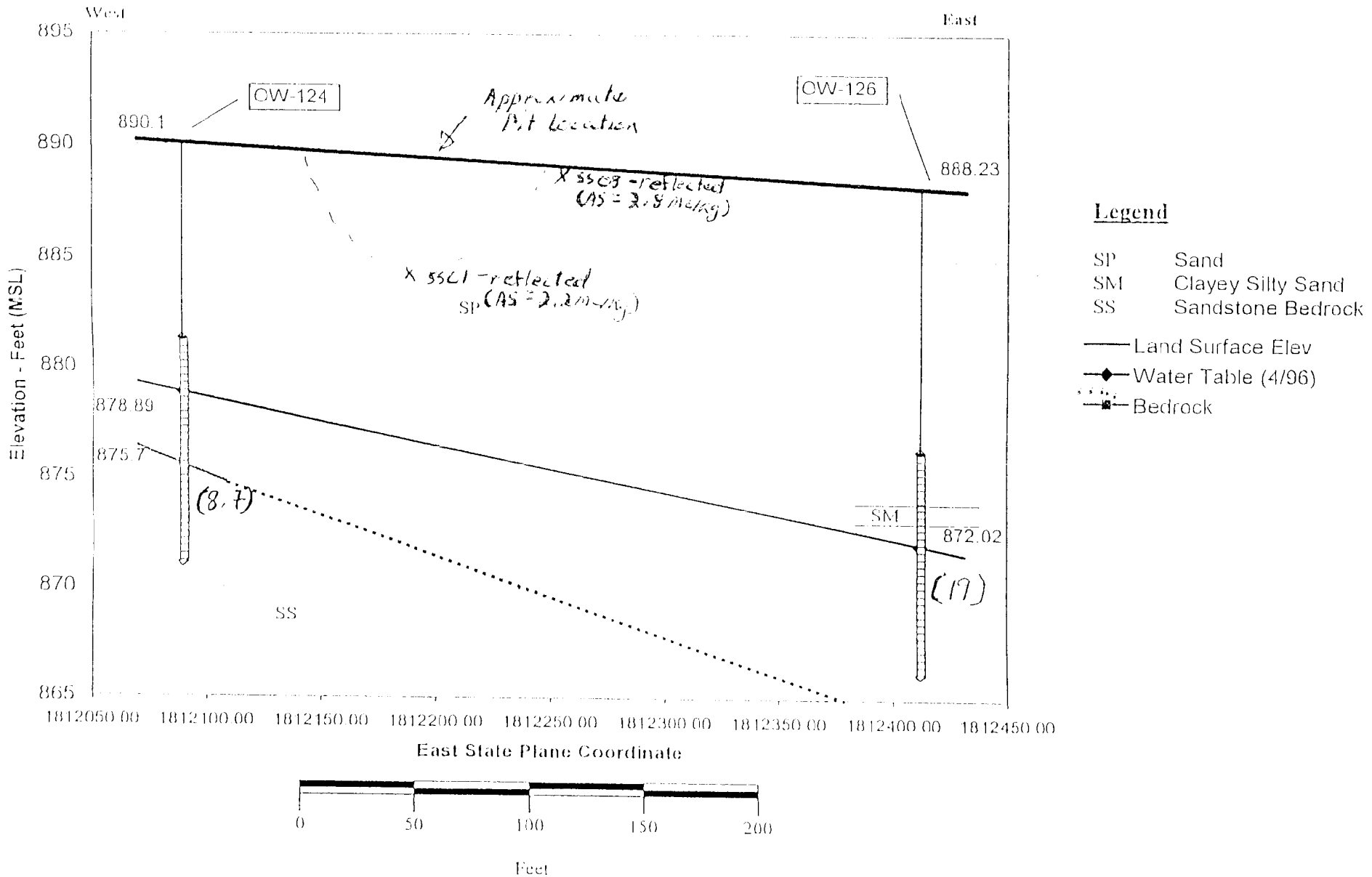
No laboratory analysis available - blank cells assumed "below detect"

Bold indicates an NR720/Table 2 Industrial Exceedance;

\*Compound indicates Limits based on EPA Region 3 RBC Table 4/25/03 - Industrial and Residential

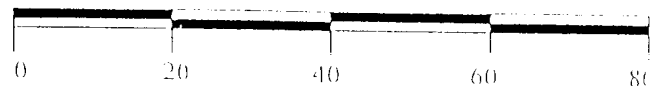
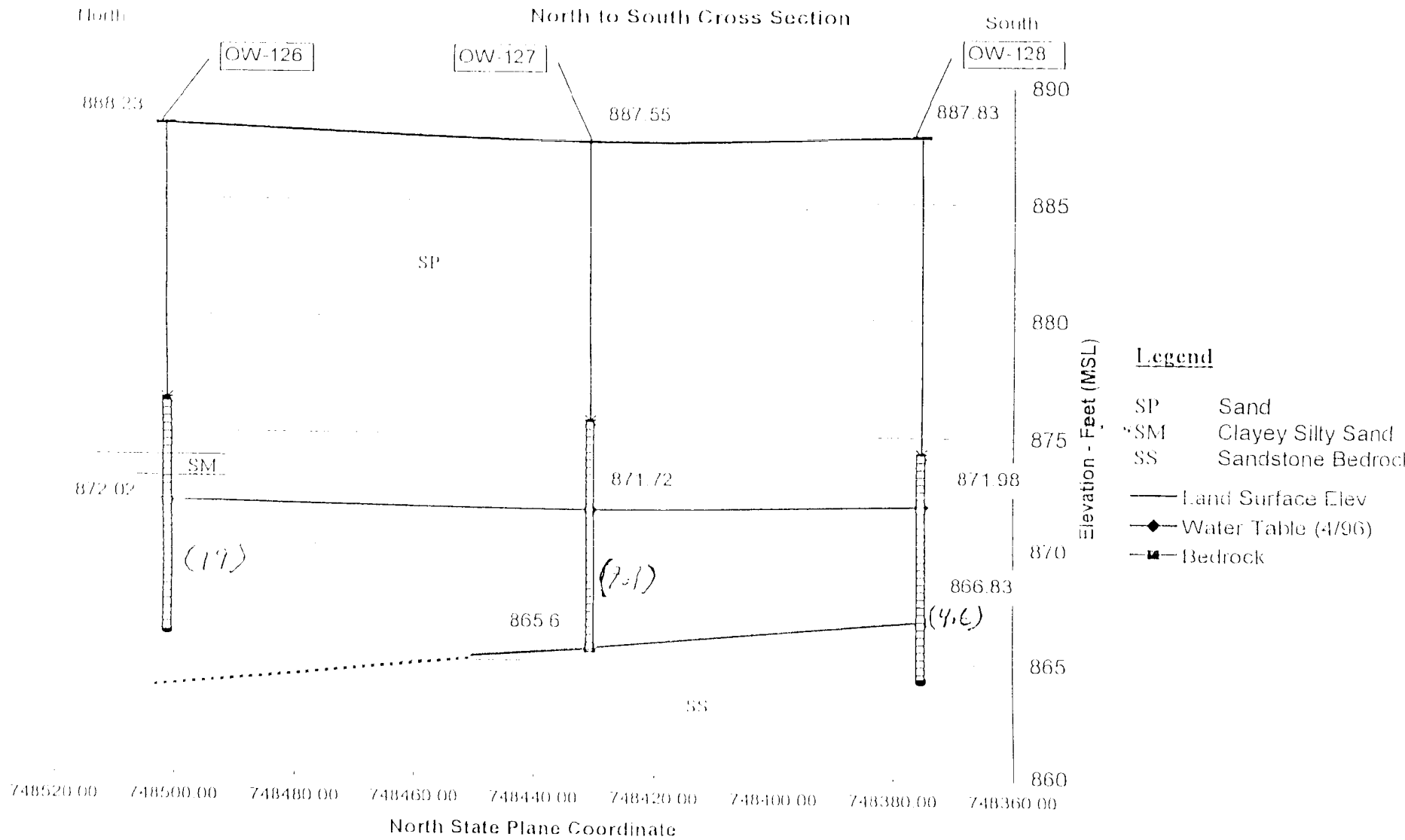
# Fort McCoy - Inactive Explosive Ordnance Disposal (IEOD) Area

## West to East Cross Section



(8.7) - RDX concentration in groundwater - April 2002 (ppb)

# Fort McCoy - Inactive Explosive Ordinance Disposal (IEOD) Area



(19) - RDX concentration in groundwater - April 2000 (ppb)



DEPARTMENT OF THE ARMY  
HEADQUARTERS, FORT McCoy  
FORT McCoy, WISCONSIN 54656-5146

I, Alan L. Balliett, Chief of The Environmental Branch - Fort McCoy, certify that to the best of my knowledge the Deed submitted within this Case Summary and Close Out Form for the IEOD is correct.

A handwritten signature in cursive script, reading "Alan L. Balliett", is positioned above the typed name.

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