

**GIS REGISTRY INFORMATION**

**SITE NAME:** FORT MCCOY LF #9

**BRRTS #:** 02-42-280008 **FID # 642024900**

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

**CLOSURE DATE:** 10/29/2003

**STREET ADDRESS:** FORT MCCOY

**CITY:** SPARTA

**SOURCE PROPERTY GPS COORDINATES** (meters in WTM91 projection): X= 461415 Y= 393806

**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)

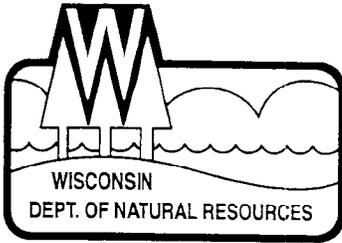
RP certified statement that legal descriptions are complete and accurate

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

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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 #02-42-280008  
GEMS ID #4225  
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  
Landfill #9, Wisconsin BRRTS #02-42-280008

Dear Mr. Balliett:

On July 10, 2003, the Fort McCoy Landfill #9 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 21, 2003, you were sent a letter notifying you that the WCR Closure Committee had granted conditional closure to this case.

On October 13<sup>th</sup>, the Department received correspondence indicating that you had complied with the conditions of closure, and on October 27<sup>th</sup> we received the \$200 fee for listing this site on the soil 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.

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.

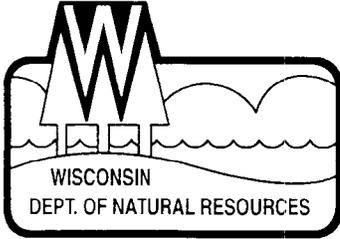
If you have any questions regarding this letter, please contact me at (715) 839-1603. We appreciate your efforts to restore the environment at this site.

Sincerely,

A handwritten signature in cursive script that reads "Joe Traynor".

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

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



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
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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 21, 2003

FID#642024900  
BRRTS #02-42-280008  
GEMS ID. #4225  
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 Fort McCoy Landfill 9  
Wisconsin BRRTS #02-42-280008

Dear Mr. Balliett:

On July 10, 2003, your request for closure of the case described above 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 contamination on the site from Landfill 9 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 submitted 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**

The industrial soil standard for arsenic was exceeded in soil samples collected at the Landfill 9 site. Due to the exceedances of this standard the Department is requiring that this site be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites for soil. This along with the institutional controls implemented by Fort McCoy will help assure that if this area is considered for development in the future the soil conditions at Landfill 9 will be considered in the planning for the uses of this area. It is my understanding that Fort McCoy staff will be providing the required \$200 fee for placing this site on the registry.

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.

Conditional Case Closure Fort McCoy Landfill 9, BRRTS #02-42-280008

2

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

Sincerely,

A handwritten signature in cursive script that reads "Joe Traynor".

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

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

LF#9

NUMBER  
211614

A-42

This Indenture, Made by Thomas Edward Barry, sometimes known as Thos. E. Barry, and Anna Barry, his

Wife,

grantor s , of Monroe County, Wisconsin, hereby conveys and warrants to

UNITED STATES OF AMERICA

its successors and assigns  
grantee / .of

the sum of FIVE THOUSAND THREE HUNDRED DOLLARS (\$5,300.00)

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

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

SECTION TWENTY-TWO (22)

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

SECTION TWENTY-SEVEN (27)

North Half of Northwest Quarter (N $\frac{1}{2}$  NW $\frac{1}{4}$ );

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

Southwest Quarter of Northeast Quarter (SW $\frac{1}{4}$  NE $\frac{1}{4}$ );

West Half of Southeast Quarter of Northeast Quarter (W $\frac{1}{2}$  SE $\frac{1}{4}$  NE $\frac{1}{4}$ );

Northeast Quarter of Southwest Quarter (NE $\frac{1}{4}$  SW $\frac{1}{4}$ );

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

containing three hundred (300) acres, more or less.

605  
canceled

IN WITNESS WHEREOF, the said grantor s have hereunto set their hands and seals this 16th

day of October, A. D., 19 42 .

Signed and Sealed in Presence of

B. G. Finch

L. A. Hansen

Thomas Edward Barry (SEAL)

Thomas Edward Barry (SEAL)

Anna Barry (SEAL)

Anna Barry (SEAL)

\_\_\_\_\_ (SEAL)

\_\_\_\_\_ (SEAL)

STATE OF WISCONSIN,

Monroe County. } ss.

Personally came before me, this 16 day of October, A. D., 19 42,

the above named Thomas Edward Barry, sometimes known as Thos. E. Barry, and Anna Barry, his wife,

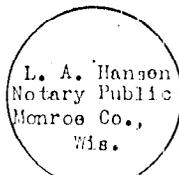
to me known to be the person s who executed the foregoing instrument and acknowledged the same.

Received for Record this 16 day of

October A. D., 19 42, at 4 o'clock P. M.

Elizabeth F. Crossen Registrar of Deeds.

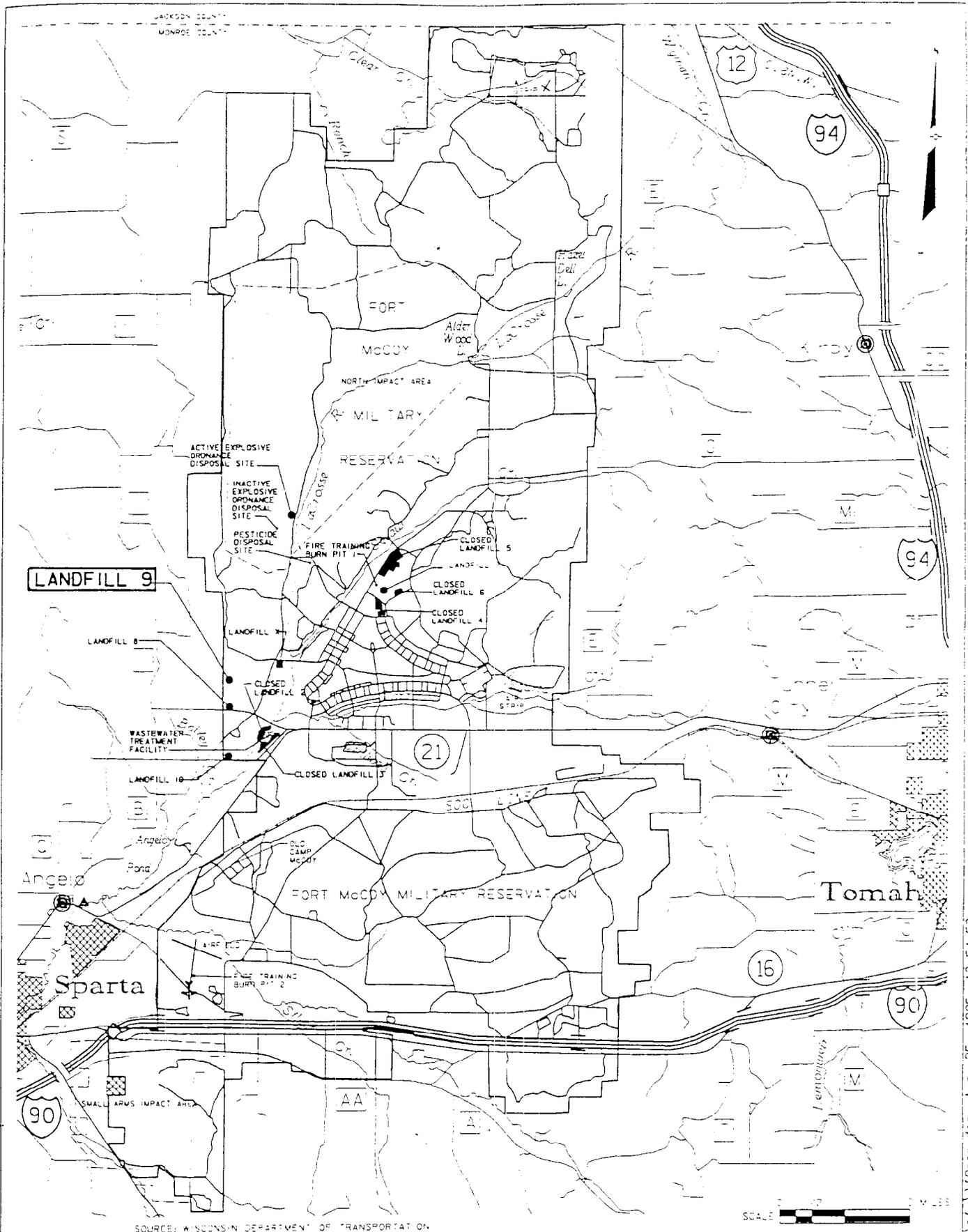
Deputy.



L. A. Hansen

Notary Public, Monroe County, Wis.

My Commission expires May 9, A. D., 19 43



SOURCE: WISCONSIN DEPARTMENT OF TRANSPORTATION

SCALE 0 0.5 1 2 MILES

SEPT. 1995

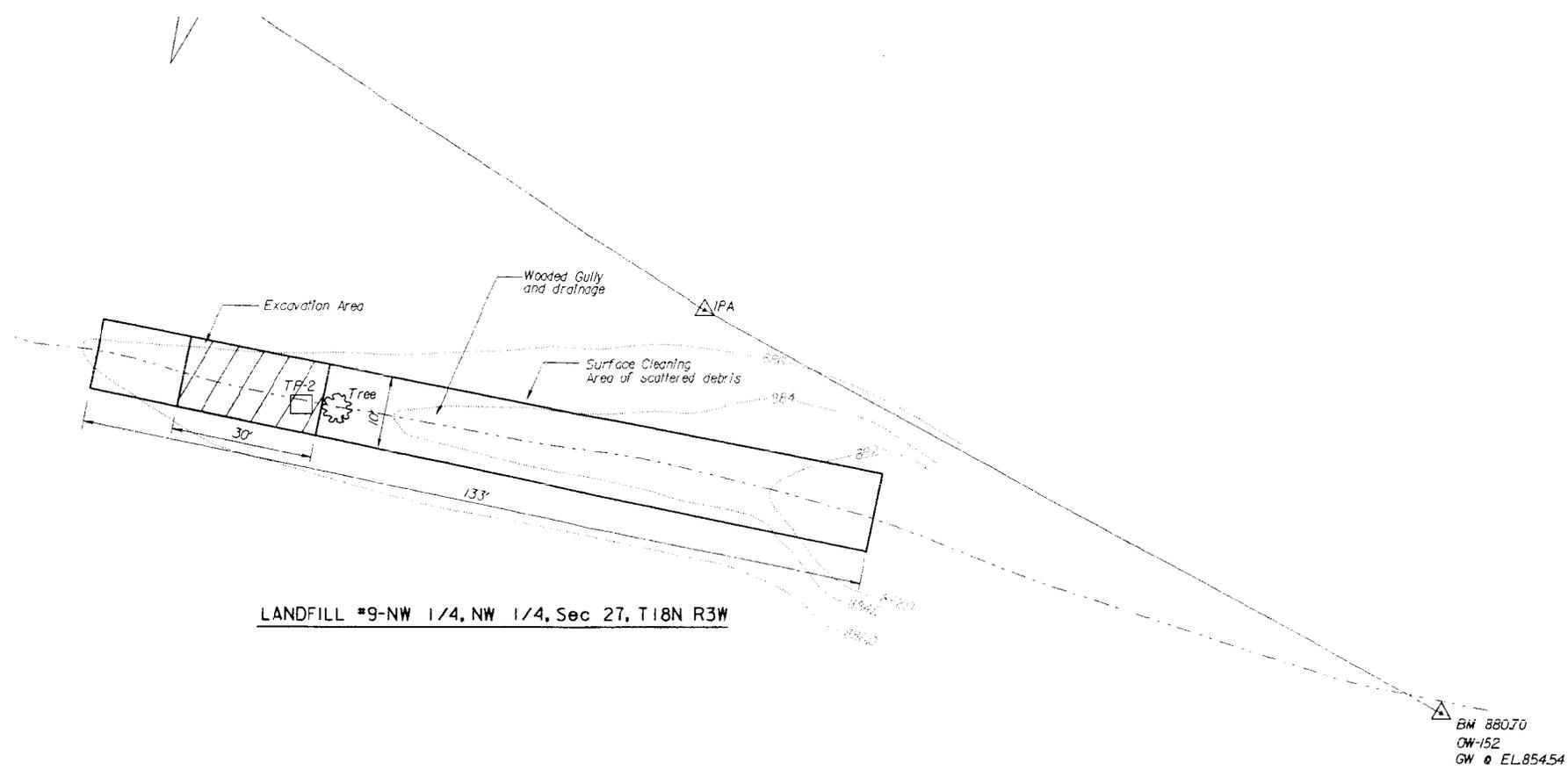
71842

**SEC DONOHUE**  
Environment & Infrastructure

FIGURE 22-1  
LANDFILL 9  
LOCATION MAP

FORT MCCOY RFI  
MONROE COUNTY, WISCONSIN

e:\project\400099\rfi\figmap.dgn Aug. 25, 1995 13:54:53



**LANDFILL #9-NW 1/4, NW 1/4, Sec 27, T18N R3W**

- CONST. NOTES:**
1. EXCAVATE CROSS HATCHED AREA TO A DEPTH 3 FEET BELOW THE EXISTING SURFACE.
  2. CLEAR SURFACE TRASH FROM SURFACE AREA AS SHOWN AND STAKED IN THE FIELD.
  3. FOLLOWING CONFIRMATION SAMPLING, IF RESULTS INDICATE NO CONTAMINATION, NO FURTHER REMOVAL IS REQUIRED, BACKFILL THE EXCAVATION TO THE ELEVATION OF THE SURROUNDING TOPOGRAPHY.
  4. THE CONTRACTOR SHALL NOT EXCAVATE BELOW THE GROUNDWATER ELEVATION.
  5. LANDFILL NO. 9 IS APPROXIMATELY 1/4 MI. DISTANCE FROM BUCKLEY COURT ROAD.

**LEGEND**

- Groundwater Monitoring Well  
OW152
- Estimated Limits of Waste
- 884.0 Ground Surface Contour (Contour Interval 2.0' Foot)
- BM** Elev. on Concrete Pad @ Base of Well Riser OW152 (El. 880.70)
- TP** Test Pit Location
- IPA** Instrument Point (2 X 2 hub)

NOTE: GROUNDWATER ELEVATIONS SHOWN WERE MEASURED DECEMBER 15, 1993.



SCALE: 1" = 10 FEET  
10' 0' 10'

**\$\$ - THINK VALUE ENGINEERING - \$\$**

Revisions			
Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
OMAHA, NEBRASKA

Designed by:	S.D.R.	FORT McCOY, WI.	EXCAVATION PLAN
Drawn by:	C.M.C.	<b>LANDFILL NO. 9</b>	
Checked by:	X	REMOVAL ACTION	
Reviewed by:		Plot Scale Ratio: 1"=10'	Date:
Submitted by:		Design File: FM19:0001G008.DGN	Sheet reference number:
Chief: M & E Section		Spec. No.: DACAA-5-95-R-0059	Drawing Code:
		Contract No.: DACW 46	<b>P1.05</b>

**FORT MCCOY**  
**Land Fill #9 Groudwater Sampling**  
**29-Apr-02**

WELL ID NUMBER	OW 151	OW 152	WDNR ES Limit	WDNR PAL Limit	EPA DWS Life Time Limit	EPA DWS SDWR Limit	Region IX PRGs Tap Water
Date Sampled	04/29/2002	04/29/2002	*= =	*= =	*= =	*= =	*= =
Groundwater Elevation/MSL	853.93	860.86	*= =	*= =	*= =	*= =	*= =
Temperature/Celsius	11.4	10	*= =	*= =	*= =	*= =	*= =
Conductivity/umho/cm	184	169	*= =	*= =	*= =	*= =	*= =
Oxidation/Reduction Potential/mv	413	439	*= =	*= =	*= =	*= =	*= =
Dissolved Oxygen/ppm	14	11.3	*= =	*= =	*= =	*= =	*= =
Field pH	6.5	6.3	*= =	*= =	*= =	*= =	*= =
TOT Nitrate Nitrogen/ppm	1 RL	1RL	10	2	*= =	*= =	*= =
TOT Nitrite Nitrogen/ppm	0.15RL	0.15RL	10	2	*= =	*= =	*= =
TOT Phosphorus/ppm	0.063	0.089	NS	NS	NS	NS	NS
TOT REC Aluminum/ppb	<79	270	NS	NS	*= =	50 to 200 ppb	36000 ppb
TOT REC Antimony/ppb	<3.3	<3.3	6	1.2	*= =	*= =	*= =
TOT REC Arsenic/ppb	<2.4	<2.4	50	5	*= =	*= =	*= =
TOT REC Barium/ppb	11.4	27.3	2000	400	*= =	*= =	*= =
TOT REC Beryllium/ppb	<0.2	<0.2	4	0.4	*= =	*= =	*= =
TOT REC Cadmium/ppb	<0.1	<0.1	5	0.5	*= =	*= =	*= =
TOT REC Calcium/ppm	18.4	18.6	NS	NS	NS	NS	NS
TOT REC Chloride/ppm	8.4	2.7	250	125	*= =	*= =	*= =
TOT REC Chromium/ppb	7.6	<3.8	100	10	*= =	*= =	*= =
TOT REC Cobalt/ppb	<6.8	<6.8	40	8	*= =	*= =	*= =
TOT REC Copper/ppb	<9.5	<9.5	1300	130	*= =	*= =	*= =
TOT REC Flouride/ppm	0.25RL	0.25RL	4	0.8	*= =	*= =	*= =
TOT REC Iron/ppm	0.099	<b>0.68</b>	0.3	0.15	*= =	*= =	*= =
TOT REC Lead/ppb	<0.6	<0.6	15	1.5	*= =	*= =	*= =
TOT REC Magnesium/ppm	7.27	8.14	NS	NS	NS	NS	NS
TOT REC Manganese/ppb	<1.5	9.4	50	25	*= =	*= =	*= =
TOT REC Mercury/ppb	<0.08	<0.08	2	0.2	*= =	*= =	*= =
TOT REC Nickel/ppb	<19	<19	100	20	*= =	*= =	*= =
TOT REC Phosphorus/ppm	0.063	0.089	NS	NS	NS	NS	0.73 ppb
TOT REC Potassium/ppm	0.431	0.316	NS	NS	NS	NS	180 ppb
TOT REC Selenium/ppb	<1.9	<1.9	50	10	*= =	*= =	*= =
TOT REC Silver/ppb	<0.9	<0.9	50	10	*= =	*= =	*= =
TOT REC Sodium/ppm	3.4	1.6	NS	NS	NS	NS	NS
TOT REC Sulfate/ppm	15.9	9.3	250	125	*= =	*= =	*= =
TOT REC Thallium/ppb	<0.7	<0.7	2	0.4	*= =	*= =	*= =
TOT REC Vanadium/ppb	<6.7	<6.7	30	6	*= =	*= =	*= =
TOT REC Zinc/ppb	<3.8	<3.8	5000	2500	*= =	*= =	*= =

**Bold Analysis = ES Exceedance**

**RL = Reporting Limit/No Detects**

**< = < 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 IX PRGs Table**

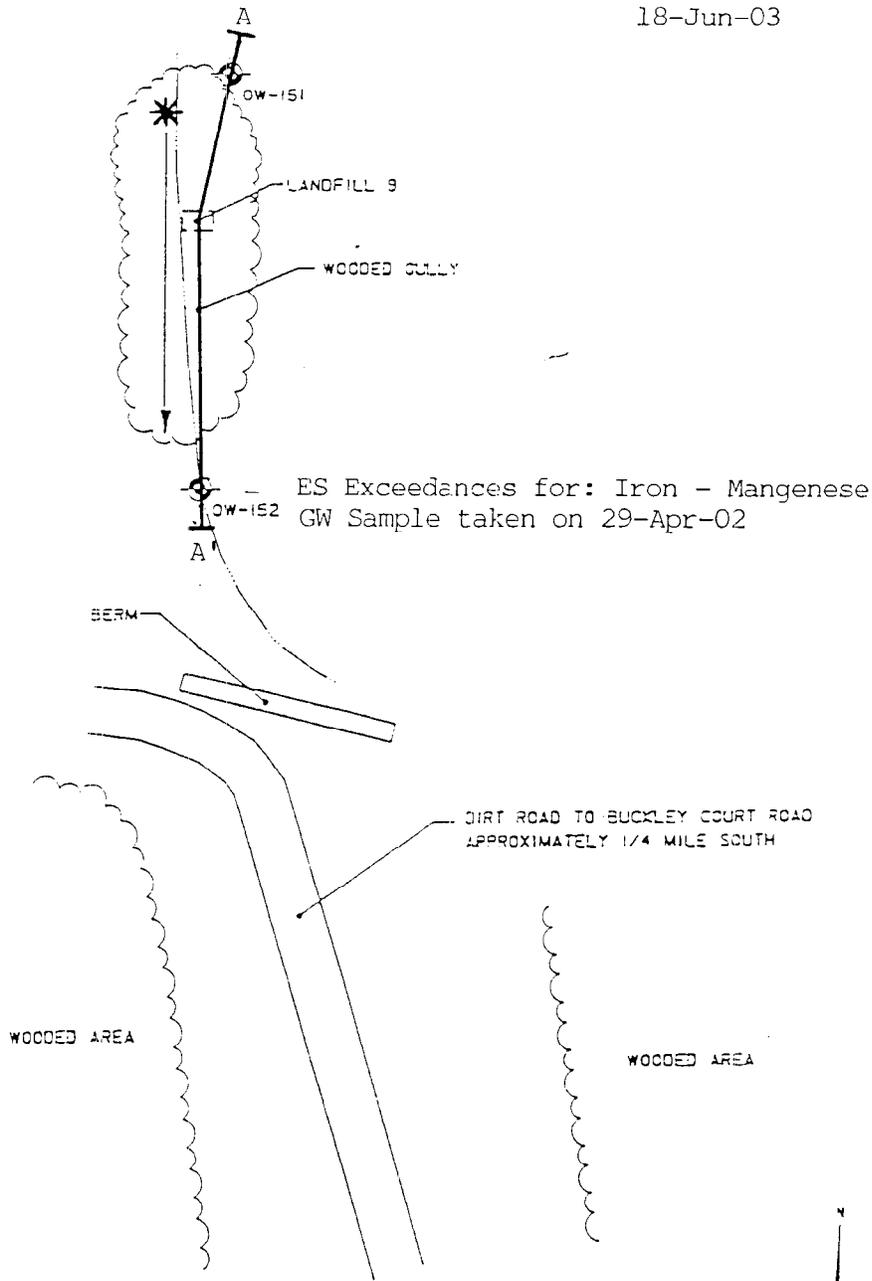
**FORT MCCOY LAND FILL #9**  
**Groudwater Elevation Table**  
**Last Four Rounds**

<b>WELL ID NUMBER</b>	<b>OW 151</b>	<b>OW152</b>
	<b>Feet (MSL)</b>	<b>Feet (MSL)</b>
<b>Date Elevation Taken</b>		
<b>04/29/2002</b>	853.93	860.86
<b>11/05/2001</b>	855.01	851.94
<b>04/25/2001</b>	853.63	850.44
<b>11/02/2000</b>	854.91	851.92

Note: Elevation taken on 4/29/02 for OW152 is questionable.

Cross Section - Aerial View

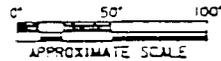
By: AECC - Tim Gelhaus  
18-Jun-03



ES Exceedances for: Iron - Manganese  
GW Sample taken on 29-Apr-02

LEGEND

- APPROXIMATE GROUNDWATER FLOW DIRECTION
- ESTIMATED LIMITS OF WASTE
- GROUNDWATER MONITORING WELL AND CONCENTRATION OF CHEMICAL OF POTENTIAL CONCERN
- OW-151
- NO NOT DETECTED

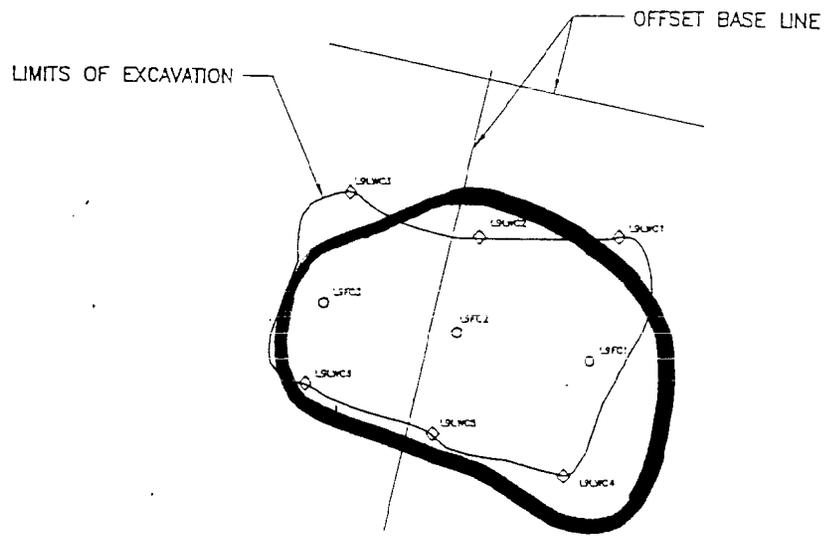


D:\k\usr\p\01\1700031\1180.dwg

OW-151

NOTE:  
NO SHORT SIDEWALL SAMPLES COLLECTED.  
3 BOTTOM SAMPLES  
8 LONG SIDEWALL SAMPLES

LEGEND	
○	BOTTOM SAMPLE
◇	LONG SIDEWALL SAMPLE
▽	SHORT SIDEWALL SAMPLE
△	GROUNDWATER MONITORING WELL
—	LIMITS OF WASTE
—	OFFSET BASE LINE
BM	BENCH MARK ON CONCRETE PAD @ BASE OF WELL RISER OW148 (E.L. 549.20)
○	TREE
—	TREE LINE



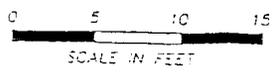
IPA

NOTE:  
1.) COLLECT SIDEWALL SAMPLES MIDWAY BETWEEN GROUND SURFACE AND EXCAVATION BOTTOM.  
2.) A NORTH-SOUTH AND EAST-WEST BASE LINE WERE ESTABLISHED AND SAMPLE LOCATIONS WERE MEASURED FROM THESE BASE LINES.

BM 880.70

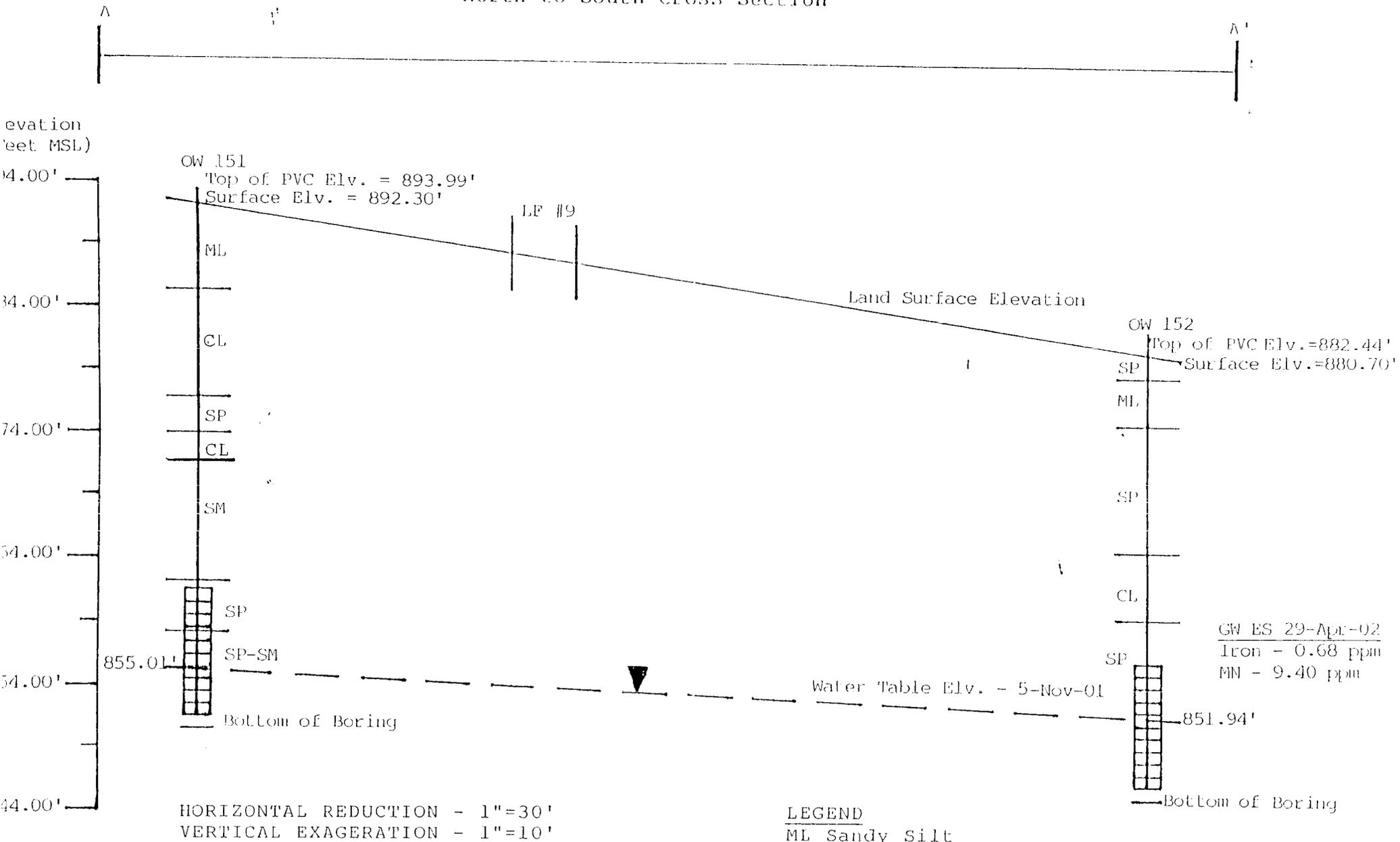
NTATS

Area of N5720, Table 2 - Industrial Exceedances  
Industrial Limit: 16 ppm for Arsenic



<b>SONAG</b> COMPANY, INC.		M. 59 W. 14809 BOBOLAK AVENUE MEMONOWEE FALLS, WISCONSIN 53051	PHONE (414) 252-1911 FAX (414) 252-1922
<b>LANDFILL #9</b>			
NW 1/4, NW 1/4, SEC 27, T18N R3W			
<b>Fort McCoy Landfill #9</b>			
Soil Sample Locations / Confirmation			
REVISIONS	SCALE 1" = 5'	DATE 1/2/96	PAGE 8
	DRAWN BY ICDS		
	FILE NO 1062	PLAT NO SITE-3	

Fort McCoy - Land Fill #9  
North to South Cross Section



LEGEND  
 ML Sandy Silt  
 CL Lean Clay w/Sand  
 SP Poorly Graded Sand  
 SM Silty Sand

Tim Gelhaus-AFEC  
 19 Jan 02



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 Landfill #9 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