GIS REGISTRY INFORMATION

SITE NAME: Canadian National - Osh Roundhouse

BRRTS #: #02-71-138900 **FID # (if appropriate):**

COMMERCE # (if appropriate):

CLOSURE DATE: 12/06/2005

STREET ADDRESS: Pioneer Drive

CITY: Oshkosh

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 637355 Y= 393718
refer to polygon on attachment

CONTAMINATED MEDIA: Groundwater [ ] Soil [X] Both [ ]

OFF-SOURCE GW CONTAMINATION >ES: [ ] 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	X
Copy of most recent deed, including legal description, for all affected properties **Railroad property - polygon map**	x
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.	x
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.	x
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	x
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	x
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	x
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)	x
RP certified statement that legal descriptions are complete and accurate	x
Copies of off-source notification letters (if applicable)	
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW) **INFORM CITY** Site specific letter	✓
Cap Maintenance	X
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	NA

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center
625 East County Road Y
Suite 700
Oshkosh, Wisconsin 54901-9731
Telephone 920-424-3050
FAX 920-424-4404
TTY Access via relay - 711

December 6, 2005

Mr. Geoffrey Nokes
Director of Environmental Affairs
Canadian National Midwest Division
17641 South Ashland Avenue
Homewood, Illinois 60430-1345

SUBJECT: Site Specific Conditional Closure at
Canadian National – Oshkosh Roundhouse
WDNR BRRTS ID # 02-71-138900

Dear Mr. Nokes:

On February 7, 2005, the Northeast Region (NER) Closure Committe reviewed your request for closure of the case described above. The NER 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 NER Closure Committee has determined that the petroleum-related contamination on the site from the various rail yard spills 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 Kathy Sylvester on Form 3300-5B found at www.dnr.state.wi.us/org/water/dwg/gw/ or provided by the Department of Natural Resources.

SOIL GIS REGISTRY

This site will be listed on the Bureau for Remediation and Redevelopment GIS Registry of Closed Remediation Sites due to remaining soil impacts that contain concentrations of PAHs above the Industrial Direct Contact levels. Information that was submitted with your closure request application will be included on the registry.

CAP MAINTENANCE & INDUSTRIAL ZONING RESTRICTION

Due to the presence of contaminated soils less than 4' depth from surface, a cap is required to prevent direct contact. The site is not a "deeded" property, so a standard restriction cannot be written for the zoning and cap maintenance conditions as normally required upon closure. Therefore, this site specific letter will be copied to the City of Oshkosh Planning & Zoning

Department as notification of the Industrial Zoning restriction. The Cap Maintenance Plan is contained in the GIS Registry and the current property owner is required to follow the annual inspections and maintain file copies.
Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 920-424-0399.

Sincerely,

Kathleen M. Sylvester

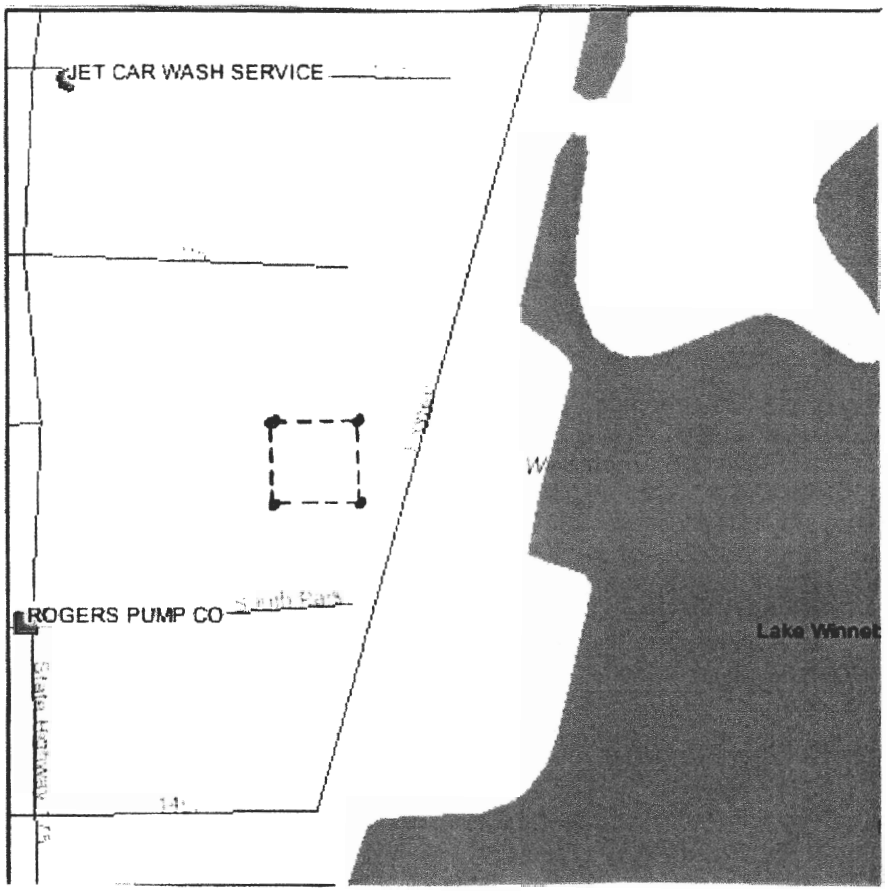
Kathleen M. Sylvester, Hydrogeologist
Remediation & Redevelopment Program

cc: Case File – OSH
Bob Mottl, STS Consultants, Ltd., 1035 Kepler, Green Bay, WI 54311 (e-copy)

Portion of the city of Oshkosh Plat Map.

GIS Coordinates
Former Roundhouse - Wisconsin Central, Ltd.
Pioneer Drive
Oshkosh, Wisconsin

BRRTS No. 02-71-138900

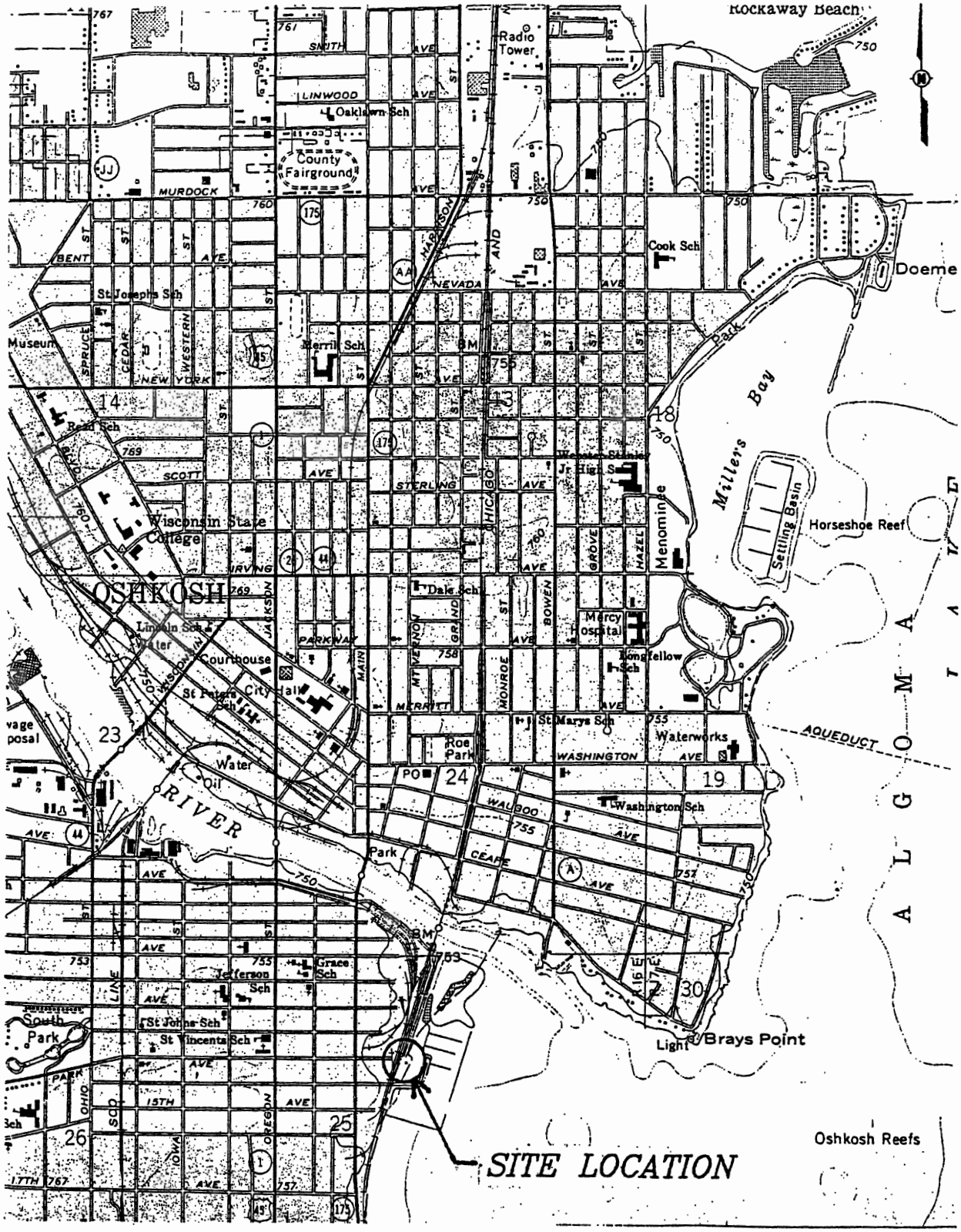


Scale 1: 4,731

Source: http://maps.dnr.state.wi.us/imf/dnrimf.jsp?site=brrts

GIS Coordinates

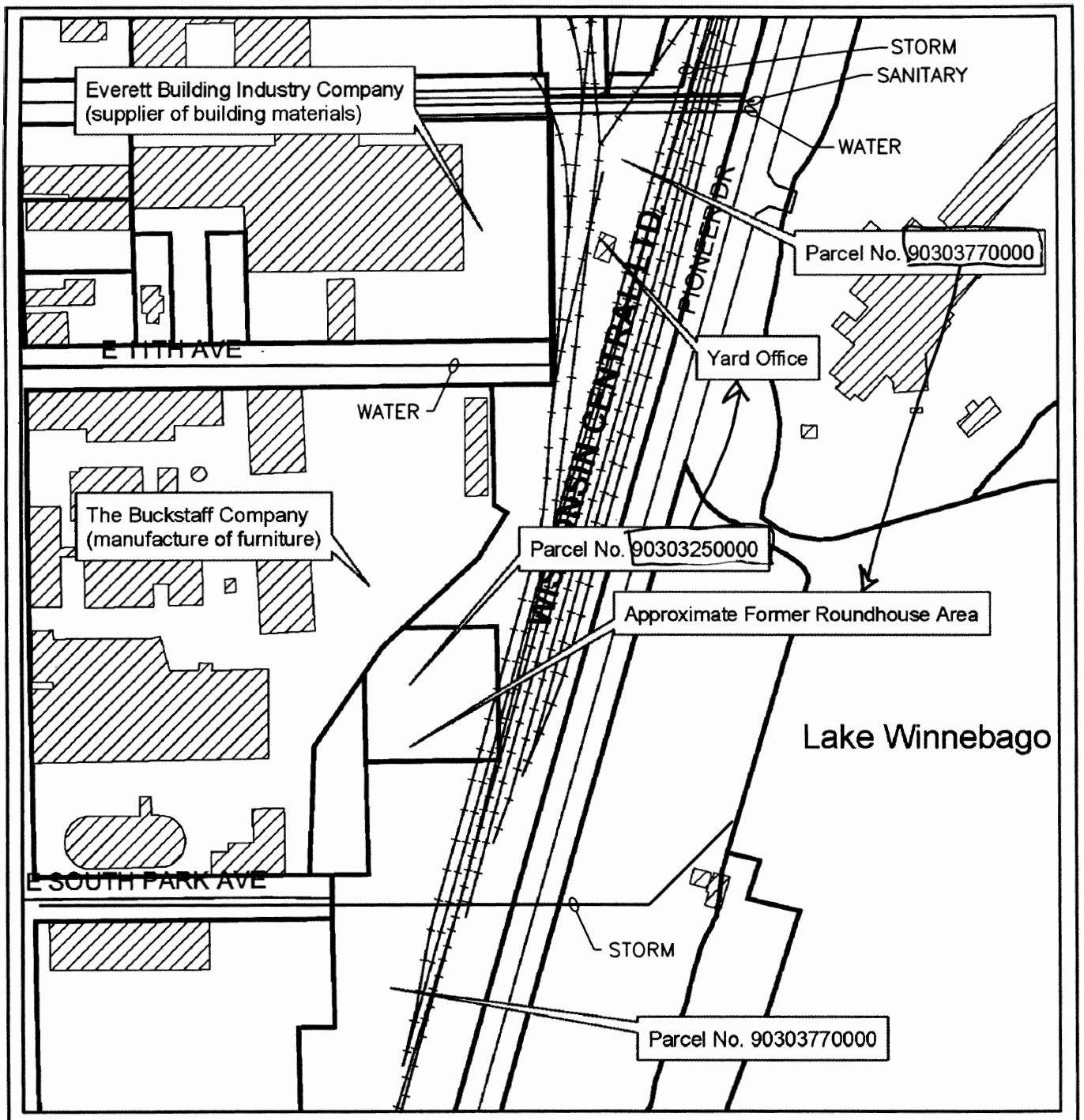
Northeast Corner: 637376, 393738
Northwest Corner: 637334, 393738
Southwest Corner: 637334, 393698
Southeast Corner: 637376, 393698



STS Consultants Ltd.
Consulting Engineers
1035 Kepler Dr.
Green Bay, WI 54311
920.468.1978

SITE LOCATION DIAGRAM
OSHKOSH STATION
OSHKOSH, WISCONSIN

DESIGNED BY	VMK	5-24-01
DRAWN BY	DJM	5-24-01
APPROVED BY		
CADFILE	SCALE 1"= 2000'	
STS PROJECT NO. 22046XJ	FIGURE NO. 1	



Legend

- Railroads
- Approximate Parcel Boundary
- Buildings

UTILITIES SHOWN IN BLUE

Source: 2004 City of Oshkosh Shapefiles

UTILITIES INFORMATION OBTAINED FROM CITY OF OSHKOSH PUBLIC WORKS DEPARTMENT

STS Consultants, Ltd.
Consulting Engineers
1035 Kepler Drive
Green Bay, WI 54311
920.468.1978

SITE DIAGRAM
OSHKOSH YARD
OSHKOSH, WISCONSIN

DESIGNED BY	AGM	9/16/04
DRAWN BY	AGM	9/16/04
APPROVED BY		
FILE	SCALE	1"=200'
STS PROJECT NO. 22046XJ	FIGURE NO. 2	

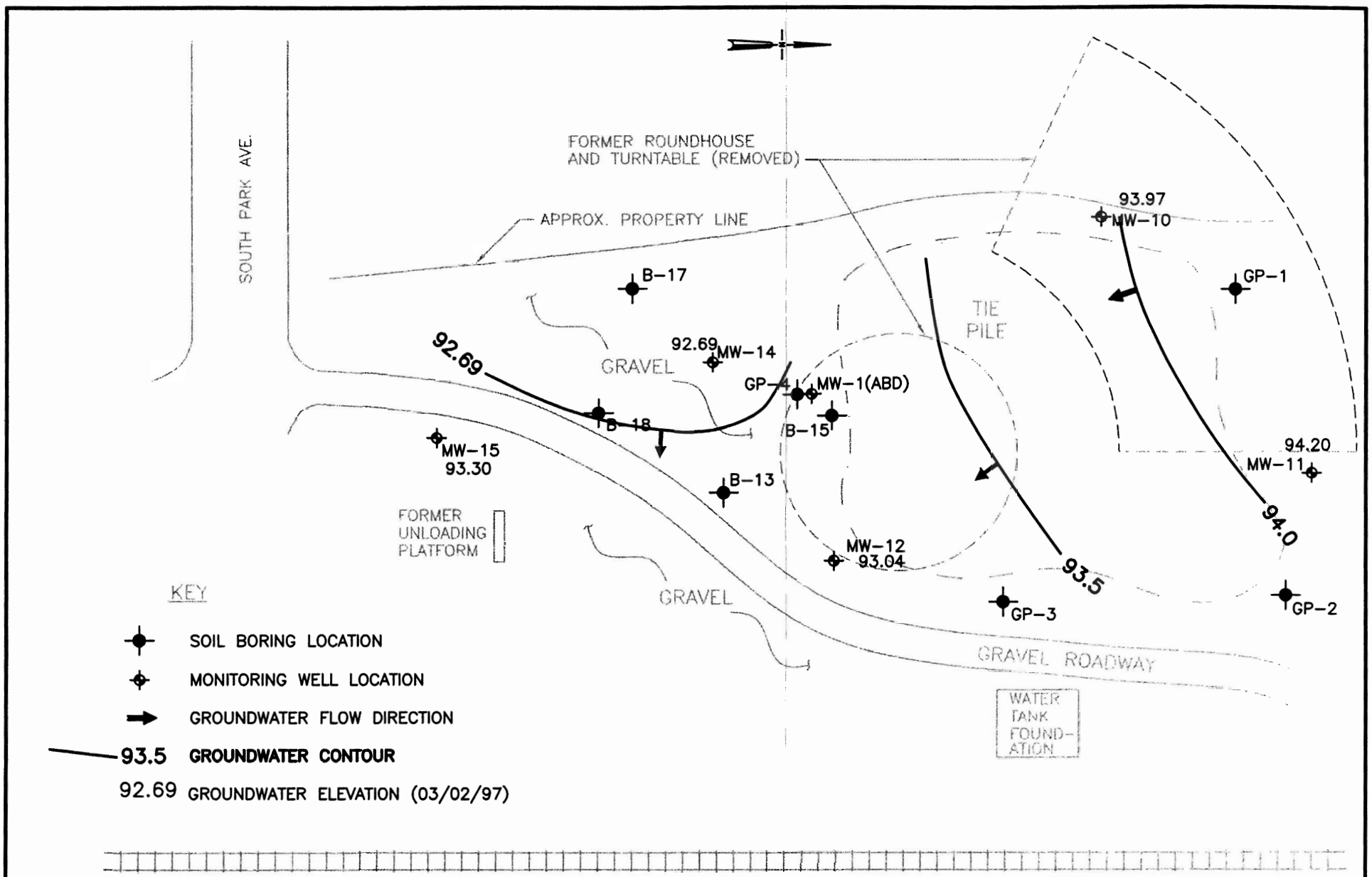


FIGURE NO. 3	SCALE 1"=40'	STS PROJECT FILE	STS PROJECT NO. 22046XJ

STS Consultants Ltd.
Consulting Engineers

SOIL BORING LOCATIONS AND GROUNDWATER FLOW DIRECTION
OSHKOSH STATION–FORMER ROUNDHOUSE
OSHKOSH, WISCONSIN

DRAWN BY P.D.P.	DATE 4–13–98
CHECKED BY R.J.M.	DATE 3–16–01
APPROVED BY	DATE
CADFILE	

X:\PROJECTS\422046XJ\422046XJ_GND_WTR_FLOW_DIR_FIG003.dwg, Model, 12/15/2004 11:31:09 AM, reince

Table 1
Groundwater Analytical Results
Oshkosh Station - Roundhouse Area
Oshkosh, Wisconsin

		MW-1 10/16/1996	MW-10 3/2/1997	MW-11 3/2/1997	MW-12 3/2/1997	MW-14 3/2/1997	MW-15 3/20/1997	NR 140 ES (ug/L)	NR 140 PAL (ug/L)
VOCs									
Benzene	(ug/l)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.4	5	0.5
Ethylbenzene	(ug/l)	<0.6	<0.6	<0.6	<0.6	<0.6	<0.2	700	140
MTBE	(ug/l)	<2.7	NA	NA	<2.7	<2.7	NA	60	12
Toluene	(ug/l)	<0.6	3.7	3.7	<0.6	9.0	<0.4	1000	200
Total Trimethylbenzene	(ug/l)	<2.6	<2.6	<2.6	<2.6	<2.6	<0.9	480	96
Xylenes	(ug/l)	<2.2	<2.2	<2.2	<2.2	<2.2	<0.6	10,000	1,000
p-Isopropyltoluene	(ug/l)	<1.3	6.7	1.4 (p)	<1.3	6.4	<0.4		
PAH									
Acenaphthene	(µg/l)	<1.5	<3.3	<1.5	<1.5	<1.5	<1.7	-	-
Acenaphthylene	(µg/l)	<1.4	<3.1	<1.4	<1.4	<1.4	<1.6	-	-
Anthracene	(µg/l)	<0.11	<0.24	<0.11	<0.11	<0.11	0.26 (p)	3000	600
Benzo(a)anthracene	(µg/l)	<0.11	<0.24	<0.11	<0.11	<0.11	<0.13	-	-
Benzo(a)Pyrene	(µg/l)	<0.22	<0.49	<0.22	<0.22	<0.22	<0.26	0.2	0.02
Benzo(b)Fluoranthene	(µg/l)	<0.13	<0.29	<0.13	<0.13	<0.13	<0.15	0.2	0.02
Benzo(k)fluoranthene	(µg/l)	<0.24	<0.53	<0.24	<0.24	<0.24	<0.28	-	-
Benzo(ghi)Perylene	(µg/l)	<0.24	<0.53	<0.24	<0.24	<0.24	<0.28	-	-
Chrysene	(µg/l)	<0.095	<0.22	<0.097	<0.099	<0.098	<0.11	0.2	0.02
Dibenzo(a,h)Anthracene	(µg/l)	<0.26	<0.6	<0.27	<0.28	<0.27	<0.31	-	-
Fluoranthene	(µg/l)	<0.24	<0.53	<0.24	<0.24	<0.24	1.4	400	80
Fluorene	(µg/l)	<0.058	<0.13	<0.059	<0.060	<0.060	<0.068	400	80
Indeno(1,2,3-cd)pyrene	(µg/l)	<0.12	<0.27	<0.12	<0.12	<0.12	<0.14	-	-
1-Methyl Naphthalene	(µg/l)	<0.98	<2.2	<1.0	<1.0	<1.0	<1.2	-	-
2-Methyl Naphthalene	(µg/l)	<0.95	<2.2	<0.97	<0.99	<0.98	8.7	-	-
Naphthalene	(µg/l)	<0.76	<1.7	<0.77	<0.79	<0.78	<0.89	40	8
Phenanthrene	(µg/l)	<0.12	<0.27	<0.12	<0.12	<0.12	0.86	-	-
Pyrene	(µg/l)	<0.40	<0.91	<0.41	<0.42	<0.41	1.1	250	50
Water Elevations (3-02-97)*									
TPVC Elevation	(ft)	--	101.26	99.1	100.82	100.48	99.77		
Water Level (TPVC)	(ft)	--	7.29	4.9	7.78	7.79	6.4		
Water Elevation	(ft)	--	93.97	94.2	93.04	92.69	93.30**		

Notes:
NR 140 ES = Chapter NR 140 Enforcement Standard
NR 140 PAL = Chapter NR 140 Preventive Action NR 140 Limit
1.1 = NR 140 PAL Exceedance
*Elevation references to on-site benchmark with assigned elevation of +100.0'
** Taken on March 20, 1997

TABLE 2
2001 - 2004 SOIL FIELD OBSERVATIONS
WISCONSIN CENTRAL OSHKOSH YARD
FORMER ROUNDHOUSE AREA
OSHKOSH, WISCONSIN

Boring ID	Sample No.	Depth (Feet)	Description	PID	Wet	Odor
Former Roundhouse						
R-1 (2-28-01)	S-1	1 - 3	Fill: Brown Silty Sand and Clay with Cinders (Beneath Base Course Gravel)	<1	No	None
R-2 (2-28-01)	S-1	0.5 - 2.5	Fill: Brown/Black Silty Sand with Cinders (Vegetated Area)	<1	No	None
R-3 (2-28-01)	S-1	1 - 3	Fill: Brown Silty Sand with Gravel and Cinders (Vegetated Area)	<1	No	None
R-4 (2-28-01)	S-1	1 - 3	Fill: Brown Silty Sand and Clay with Cinders (Beneath Base Course Gravel)	<1	No	None
R-5 (2-28-01)	S-1	0.5 - 2.5	Fill: Brown Silty Sand and Gravel with Cinders and Bricks (Vegetated Area)	<1	No	None
R-6 (2-28-01)	S-1	0.5 - 2.5	Fill: Brown Silty Sand and Gravel with Cinders (Vegetated Area)	<1	No	None
R-7 (2-28-01)	S-1	0.5 - 2.5	Fill: Brown Silty Sand with Gravel (Vegetated Area)	<1	No	None
R-CIN (10-29-02)	S-1	0.0 - 0.3	Cinders (Very localized area of less than 1' x 1')	<1	No	None
R-8 (6-03-04)	S-1	0.0 - 0.3	Base Course Gravel	<1	No	None
R-9 (6-03-04)	S-1	0.0 - 0.3	Base Course Gravel	<1	No	None

TABLE 3 p. 1
SOIL ANALYTICAL RESULTS
WISCONSIN CENTRAL
OSHKOSH YARD - ROUNDHOUSE AREA
OSHKOSH, WISCONSIN

	Sample No.	GP-1	GP-2	GP-3	GP-4	GP-4	MW-1	MW-10	MW-11	MW-12	MW-14	MW-14	MW-15	B-13	NR 720 RCL Groundwater	NR 746 - Values Table 1	NR 746 - Values Table 2
	Date	08/13/96	08/13/96	08/13/96	08/13/96	04/22/98	03/11/97	02/20/97	02/20/97	04/22/98	02/20/97	04/22/98	03/19/97	04/22/98			
	Sample Depth	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	8.0-10.0	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	2.0-4.0	2.0-4.0	2.0-4.0	Pathway	Soil Screening	Direct Contact
VOCs																	
Benzene	(ug/kg)	<25	<25	<25	<25	NA	<25	<9.0	<9.0	NA	117*	NA	<9.0	<32	5.5	8500	1100
Ethylbenzene	(ug/kg)	<25	<25	<25	<25	NA	<25	<4.5	<4.5	NA	331	NA	89	<32	2900	4600	--
Methyl-tertiary-butyl ether	(ug/kg)	NA	NA	<25	<25	NA	NA	NA	NA	NA	NA	NA	<22	<32	--	--	--
Toluene	(ug/kg)	<25	<25	<25	<25	NA	<25	<4.2	<4.2	NA	1010	NA	119	<32	1500	38,000	--
1,2,4-Trimethylbenzene	(ug/kg)	<25	<25	<25	34	NA	<25	<9.9	<9.9	NA	345	NA	106	59	--	83,000	--
1,3,5-Trimethylbenzene	(ug/kg)	<25	<25	<25	<25	NA	<25	<10	<10	NA	711	NA	238	59	--	11,000	--
Xylenes	(ug/kg)	<25	<25	<25	41	NA	<25	<28	<19	NA	1691	NA	307	32	4100	42,000	--
n-Butylbenzene	(ug/kg)	<25	<25	<25	<25	NA	<25	<10	<10	NA	200	NA	65	NA	--	--	--
sec-Butylbenzene	(ug/kg)	<25	<25	<25	<25	NA	<25	<6.2	<6.2	NA	474	NA	330	NA	--	--	--
Isopropylbenzene	(ug/kg)	<25	<25	<25	<25	NA	<25	<4.5	<4.5	NA	499	NA	252	NA	--	--	--
p-Isopropylbenzene	(ug/kg)	<25	<25	<25	42	NA	<25	<7.6	<7.6	NA	307	NA	56	NA			
Naphthalene	(ug/kg)	<25	<25	39	443*	NA	<25	<7.1	<7.1	NA	1130*	NA	214	NA	400/20000**	2700	--
n-Propylbenzene	(ug/kg)	<25	<25	<25	<25	NA	<25	<9.9	<9.9	NA	<9.9	NA	59	NA	--	--	--
DRO	(mg/kg)	<1.6	62	11	136	NA	6.8	<2.0	<2.0	NA	91	NA	64	17	100	--	--

	Sample No.	GP-1	GP-2	GP-3	GP-4	GP-4	MW-1	MW-10	MW-11	MW-12	MW-14	MW-14	MW-15	B-13	Suggested Generic PAH RCLs (WDNR Interim PAH Guidance, 1997) Groundwater Pathway	Direct Contact Pathway Non-industrial Ingestion	Direct Contact Pathway Non-industrial Inhalation	Direct Contact Pathway Industrial Ingestion	Direct Contact Pathway Industrial Inhalation
	Date	08/13/96	08/13/96	08/13/96	08/13/96	04/22/98	03/11/97	02/20/97	02/20/97	04/22/98	02/20/97	04/22/98	03/19/97	04/22/98					
	Sample Depth	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	8.0-10.0	2.0-3.5	2.0-3.5	2.0-3.5	2.0-3.5	2.0-4.0	2.0-4.0	2.0-4.0					
PAHs																			
Acenaphthene	(mg/kg)	NA	NA	NA	NA	<0.045	NA	NA	NA	<0.0044	NA	<0.0046	NA	<0.0047	38	900	nd	60,000	nd
Acenapthylene	(mg/kg)	NA	NA	NA	NA	<0.033	NA	NA	NA	<0.0032	NA	<0.0034	NA	<0.0034	0.7	18	51	390	360
Anthracene	(mg/kg)	NA	NA	NA	NA	1.56	NA	NA	NA	<0.0012	NA	<0.0013	NA	<0.0013	3,000	5,000	nd	300,000	nd
Benzo(a)anthracene	(mg/kg)	NA	NA	NA	NA	<0.025	NA	NA	NA	<0.0024	NA	0.27	NA	<0.0026	17	0.088	11	3.9	150
Benzo(a)pyrene	(mg/kg)	NA	NA	NA	NA	1.92+	NA	NA	NA	0.0138	NA	0.483+	NA	<0.0026	48	0.0088	1.6	0.39	22
Benzo(b)fluoranthene	(mg/kg)	NA	NA	NA	NA	2.57	NA	NA	NA	0.0238	NA	0.444	NA	<0.0013	360	0.088	4.6	3.9	65
Benzo(k)fluoranthene	(mg/kg)	NA	NA	NA	NA	1.0	NA	NA	NA	0.127	NA	0.164	NA	<0.0013	870	0.88	380	39	5,300
Benzo(g,h,i)perylene	(mg/kg)	NA	NA	NA	NA	0.79	NA	NA	NA	<0.002	NA	0.238	NA	<0.0022	6,800	1.8	1,100	39	7,700
Chrysene	(mg/kg)	NA	NA	NA	NA	2	NA	NA	NA	<0.0016	NA	0.227	NA	<0.0017	37	8.8	270	390	3,800
Dibenzo(a,h)anthracene	(mg/kg)	NA	NA	NA	NA	1.14+	NA	NA	NA	<0.0024	NA	<0.0025	NA	<0.0026	38	0.0088	7.8	0.39	110
Fluoranthene	(mg/kg)	NA	NA	NA	NA	11.4	NA	NA	NA	0.0604	NA	1.68	NA	<0.0017	500	600	nd	40,000	nd
Fluorene	(mg/kg)	NA	NA	NA	NA	<0.016	NA	NA	NA	<0.0016	NA	<0.0016	NA	<0.0017	100	600	nd	40,000	nd
Indeno(1,2,3-cd)pyrene	(mg/kg)	NA	NA	NA	NA	1.15	NA	NA	NA	0.0211	NA	0.28	NA	<0.0017	680	0.088	54	3.9	750
1-Methylnapthalene	(mg/kg)	NA	NA	NA	NA	<0.025	NA	NA	NA	0.0819	NA	0.158	NA	<0.0026	23	1,100	nd	70,000	nd
2-Methylnapthalene	(mg/kg)	NA	NA	NA	NA	<0.028	NA	NA	NA	0.0153	NA	0.324	NA	<0.0029	20	600	nd	40,000	nd
Naphthalene	(mg/kg)	NA	NA	NA	NA	<0.021	NA	NA	NA	<0.002	NA	<0.0021	NA	<0.0022	0.4	60	20	4,000	110
Phenanthrene	(mg/kg)	NA	NA	NA	NA	6.56 *	NA	NA	NA	0.0556	NA	1.13	NA	0.235	2	18	160	390	1,100
Pyrene	(mg/kg)	NA	NA	NA	NA	10.8	NA	NA	NA	<0.0068	NA	1.48	NA	<0.0073	8,700	500	nd	30,000	nd
Total Organic Carbon	(mg/kg)	NA	NA	NA	NA	42,300	NA	NA	NA	25,500	NA	36,900	NA	NA					

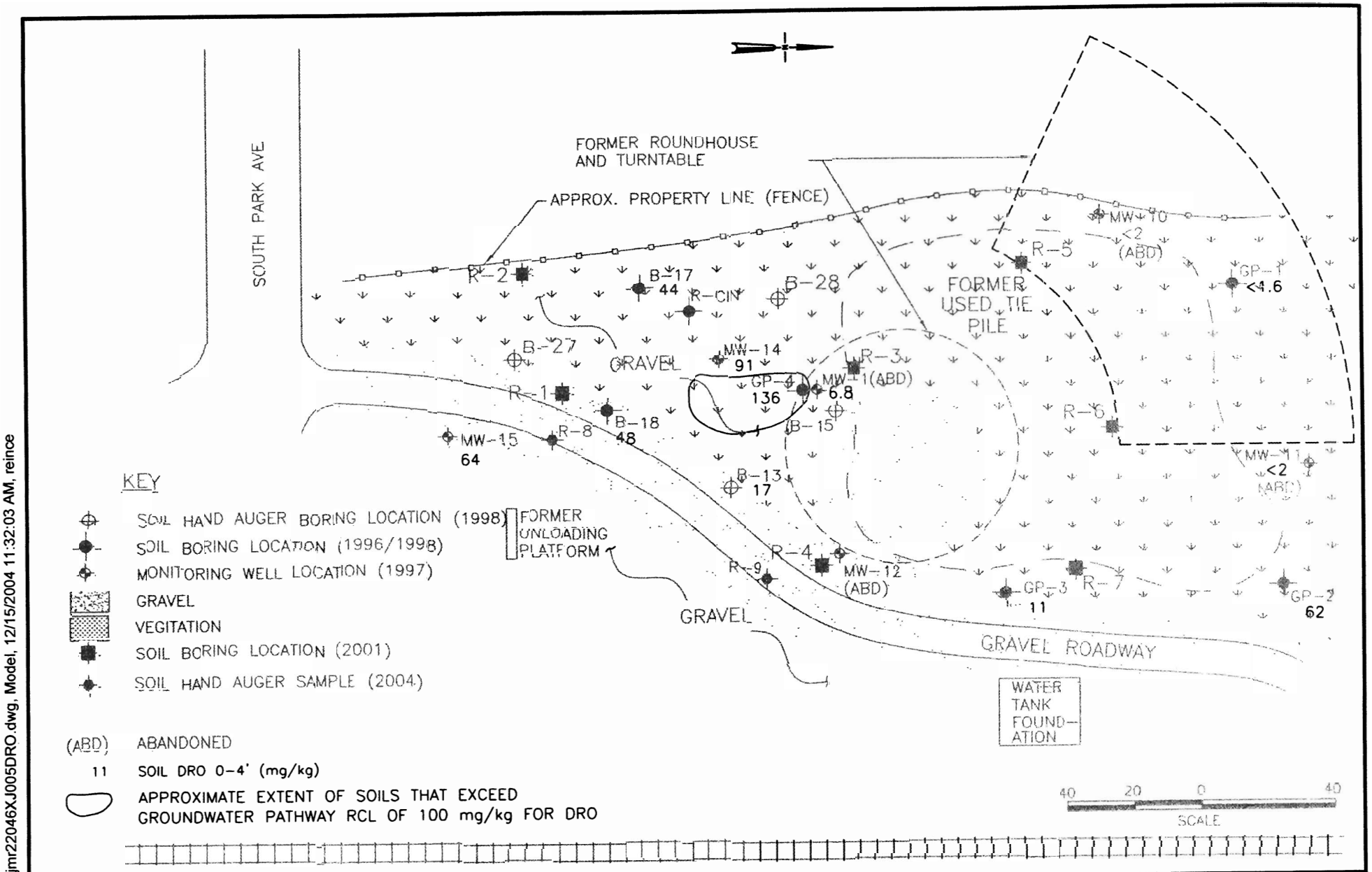
Notes:
(p) - Reported result is less than the Practical Quantitation Limit
* = Exceeds NR 720/PAH Groundwater Pathway RCL
= Exceeds 1997 WDNR Interim PAH Non-Industrial Direct Contact RCL
\+ = Exceeds 1997 WDNR Interim PAH Industrial Direct Contact RCL

TABLE 3 p. 2
SOIL ANALYTICAL RESULTS
WISCONSIN CENTRAL
OSHKOSH YARD - ROUNDHOUSE AREA
OSHKOSH, WISCONSIN

																NR 720 RCL	NR 746 - Values	
	Sample No.	B-15	B-17	B-18	B-27	B-28	R-1	R-2	R-3	R-4	R-5	R-6	R-7	R-8	R-9	Groundwater	Table 1	Table 2
	Date	04/22/98	03/11/97	03/11/97	04/22/98	04/22/98	02/28/01	02/28/01	02/28/01	02/28/01	02/28/01	02/28/01	02/28/01	06/03/04	06/03/04			
	Sample Depth	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	1.0-3.0	0.5-2.5	1.0-3.0	1.0-3.0	0.5-2.5	0.5-2.5	0.5-2.5	0.0-0.5	0.0-0.5	Pathway	Soil Screening	Direct Contact
VOCs																		
Benzene	(ug/kg)	<30	<9.0	53*	<30	<31	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.5	8500	1100
Ethylbenzene	(ug/kg)	<30	<4.5	97	<30	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	2900	4600	--
Methyl-tertiary-butyl ethe	(ug/kg)	<30	<22	<22	<30	<31	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--
Toluene	(ug/kg)	<30	32	379	56	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	1500	38,000	--
1,2,4-Trimethylbenzene	(ug/kg)	38	16 (p)	99	59	79	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	83,000	--
1,3,5-Trimethylbenzene	(ug/kg)	<30	48	82	40	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	11,000	--
Xylenes	(ug/kg)	30	96	385	141	269	NA	NA	NA	NA	NA	NA	NA	NA	NA	4100	42,000	--
n-Butylbenzene	(ug/kg)	NA	<10	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--
sec-Butylbenzene	(ug/kg)	NA	<6.2	175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--
Isopropylbenzene	(ug/kg)	NA	<4.5	127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--
p-Isopropylbenzene	(ug/kg)	NA	<5.4	<5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Naphthalene	(ug/kg)	NA	123	188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400/20000**	2700	--
n-Propylbenzene	(ug/kg)	NA	<9.9	137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--
DRO	(mg/kg)	NA	44	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100		

																	Suggested Generic PAH RCLs (WDNR Interim PAH Guidance, 1997)				
	Sample No.	B-15	B-17	B-18	B-27	B-28	R-1	R-2	R-3	R-4	R-5	R-6	R-7	R-8	R-9	R-CIN	Groundwater Pathway	Direct Contact Pathway			
																		Non-industrial		Industrial	
	Date	04/22/98	03/11/97	03/11/97	04/22/98	04/22/98	02/28/01	02/28/01	02/28/01	02/28/01	02/28/01	02/28/01	02/28/01	06/03/04	06/03/04	10/29/02					
	Sample Depth	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	2.0-4.0	1.0-3.0	0.5-2.5	1.0-3.0	1.0-3.0	0.5-2.5	0.5-2.5	0.5-2.5	0.0-0.3	0.0-0.3	0.0-0.3		Ingestion	Inhalation	Ingestion	Inhalation
PAHs																					
Acenaphthene	(mg/kg)	<0.045	NA	NA	NA	NA	2.06	<0.179	0.42	0.244	<0.017	<0.018	<0.017	0.022	0.096	<0.21	38	900	nd	60,000	nd
Acenapthylene	(mg/kg)	<0.033	NA	NA	NA	NA	0.522	<0.211	1.58 *	0.181	<0.020	<0.021	<0.02	0.039	0.54	0.45	0.7	18	51	390	360
Anthracene	(mg/kg)	2.00	NA	NA	NA	NA	8.5	0.207	3.1	0.874	<0.017	<0.018	<0.017	0.089	0.89	<0.021	3,000	5,000	nd	300,000	nd
Benzo(a)anthracene	(mg/kg)	3.96	NA	NA	NA	NA	11.50+	0.44	4.61+	1.28	<0.022	<0.022	<0.021	0.26	0.89	<0.021	17	0.088	11	3.9	150
Benzo(a)pyrene	(mg/kg)	1.6+	NA	NA	NA	NA	11.20+	0.19	4.80+	1.22+	<0.017	<0.017	<0.016	0.27	1.1+	0.061	48	0.0088	1.6	0.39	22
Benzo(b)fluoranthene	(mg/kg)	2.70	NA	NA	NA	NA	11.10+	0.76	4.53+	1.34	<0.017	<0.017	<0.016	0.49	1.8	0.082	360	0.088	4.6	3.9	65
Benzo(k)fluoranthene	(mg/kg)	1.21	NA	NA	NA	NA	9.79	<0.306	4.09	0.92	<0.03	<0.031	<0.029	0.17	0.64	0.028	870	0.88	380	39	5,300
Benzo(g,h,i)perylene	(mg/kg)	1.26	NA	NA	NA	NA	3.99	<0.342	1.75	0.439	<0.033	<0.034	<0.033	0.13	0.95	<0.040	6,800	1.8	1,100	39	7,700
Chrysene	(mg/kg)	2.50	NA	NA	NA	NA	11	0.503	4.96	1.3	<0.02	<0.021	<0.02	0.34	1.1	<0.021	37	8.8	270	390	3,800
Dibenzo(a,h)anthracene	(mg/kg)	1.11	NA	NA	NA	NA	2.09+	<0.437	0.756+	0.22	<0.042	<0.044	<0.042	<0.012	<0.059	0.15	38	0.0088	7.8	0.39	110
Fluoranthene	(mg/kg)	13.6	NA	NA	NA	NA	23.0	0.747	10.5	2.76	0.028	<0.013	<0.013	0.62	2.5	<0.040	500	600	nd	40,000	nd
Fluorene	(mg/kg)	<0.16	NA	NA	NA	NA	3.12	<0.223	1.06	0.407	<0.022	<0.022	<0.021	0.025	0.18	<0.040	100	600	nd	40,000	nd
Indeno(1,2,3-cd)pyrene	(mg/kg)	1.25	NA	NA	NA	NA	4.45+	<0.477	1.84	0.47	<0.046	<0.048	<0.046	0.13	0.83	0.075	680	0.088	54	3.9	750
1-Methylnapthalene	(mg/kg)	<0.024	NA	NA	NA	NA	0.634	0.263	0.823	0.295	<0.019	<0.02	<0.019	NA	NA	--	23	1,100	nd	70,000	nd
2-Methylnapthalene	(mg/kg)	<0.028	NA	NA	NA	NA	0.768	0.341	0.978	0.285	<0.019	<0.02	<0.019	0.062	0.43	<0.21	20	600	nd	40,000	nd
Naphthalene	(mg/kg)	<0.021	NA	NA	NA	NA	0.81 *	0.244	1.46 *	0.306	<0.016	<0.016	<0.016	0.055	0.41*	<0.21	0.4	60	20	4,000	110
Phenanthrene	(mg/kg)	1.99	NA	NA	NA	NA	17.3 *	<0.179	9.02 *	2.66 *	0.024	<0.018	<0.017	0.32	2.1	0.27	2	18	160	390	1,100
Pyrene	(mg/kg)	13.4	NA	NA	NA	NA	18.8	0.702	10.0	2.44	0.028	<0.017	<0.016	0.43	2.0	<0.021	8,700	500	nd	30,000	nd
Total Organic Carbon	(mg/kg)	11,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

Notes:
(p) - Reported result is less than the Practical Quantitation Limit
* = Exceeds NR 720/PAH Groundwater Pathway RCL
= Exceeds 1997 WDNR Interim PAH Non-Industrial Direct Contact RCL
\+ = Exceeds 1997 WDNR Interim PAH Industrial Direct Contact RCL



STS PROJECT NO. 22046XJ	STS Consultants Ltd. Consulting Engineers	**SOIL BORING LOCATIONS** **OSHKOSH STATION–FORMER ROUNDHOUSE** **OSHKOSH, WISCONSIN** **SOIL DRO CONCENTRATIONS**	DRAWN BY JMR — DATE 10/14/2004
STS PROJECT FILE			CHECKED BY RJM — DATE 10/14/2004
SCALE AS SHOWN			APPROVED BY — DATE
FIGURE NO. 4			CADFILE

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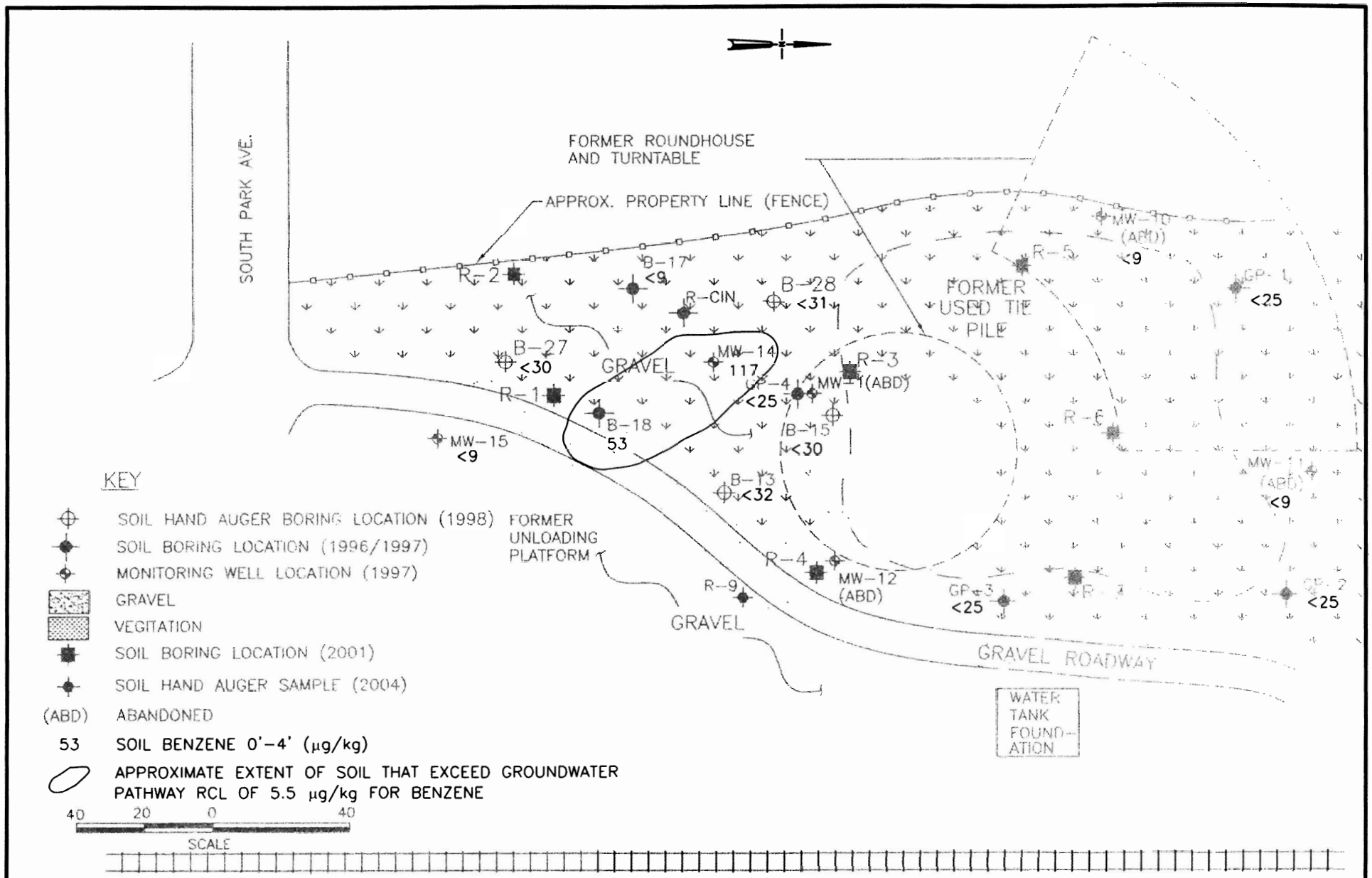

FIGURE NO. 5	SCALE AS SHOWN	STS PROJECT FILE	STS PROJECT NO. 22046XJ

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Consulting Engineers

SOIL BORING LOCATIONS
OSHKOSH STATION–FORMER ROUNDHOUSE
OSHKOSH, WISCONSIN
SOIL BENZENE CONCENTRATIONS

DRAWN BY JMR	DATE 10/14/2004
CHECKED BY RJM	DATE 10/14/2004
APPROVED BY	DATE
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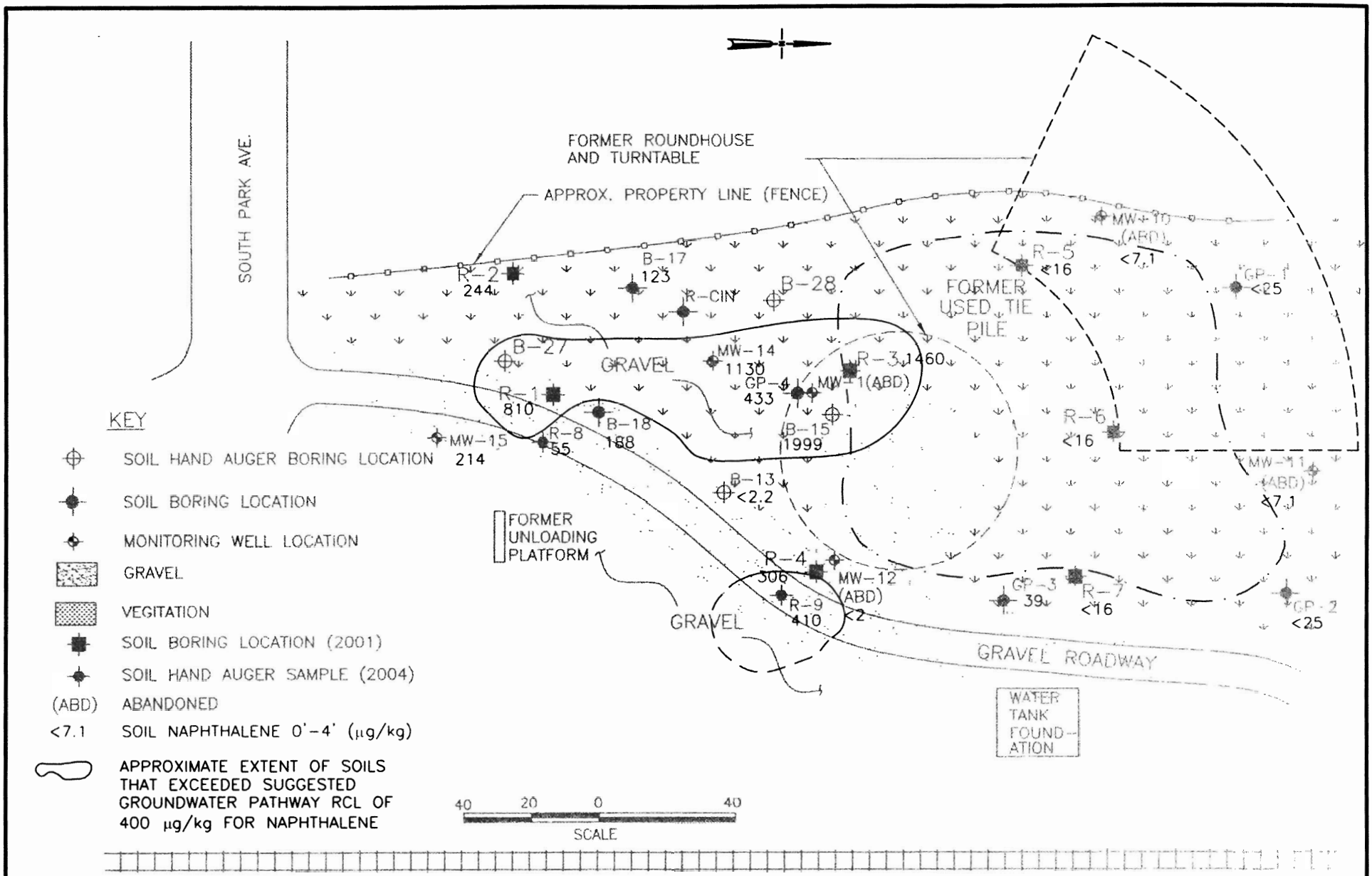

STS PROJECT NO. 22046XJ	STS Consultants Ltd. Consulting Engineers	SOIL BORING LOCATIONS OSHKOSH STATION–FORMER ROUNDHOUSE OSHKOSH, WISCONSIN SOIL NAPHTHALENE CONCENTRATIONS	DRAWN BY JMR — DATE 10/10/2004
STS PROJECT FILE			CHECKED BY RJM — DATE 10/10/2004
SCALE AS SHOWN			APPROVED BY — DATE
FIGURE NO. 6			CADFILE X:\PROJECTS\DWG2002\22046\XJ\22046XJ005.dwg

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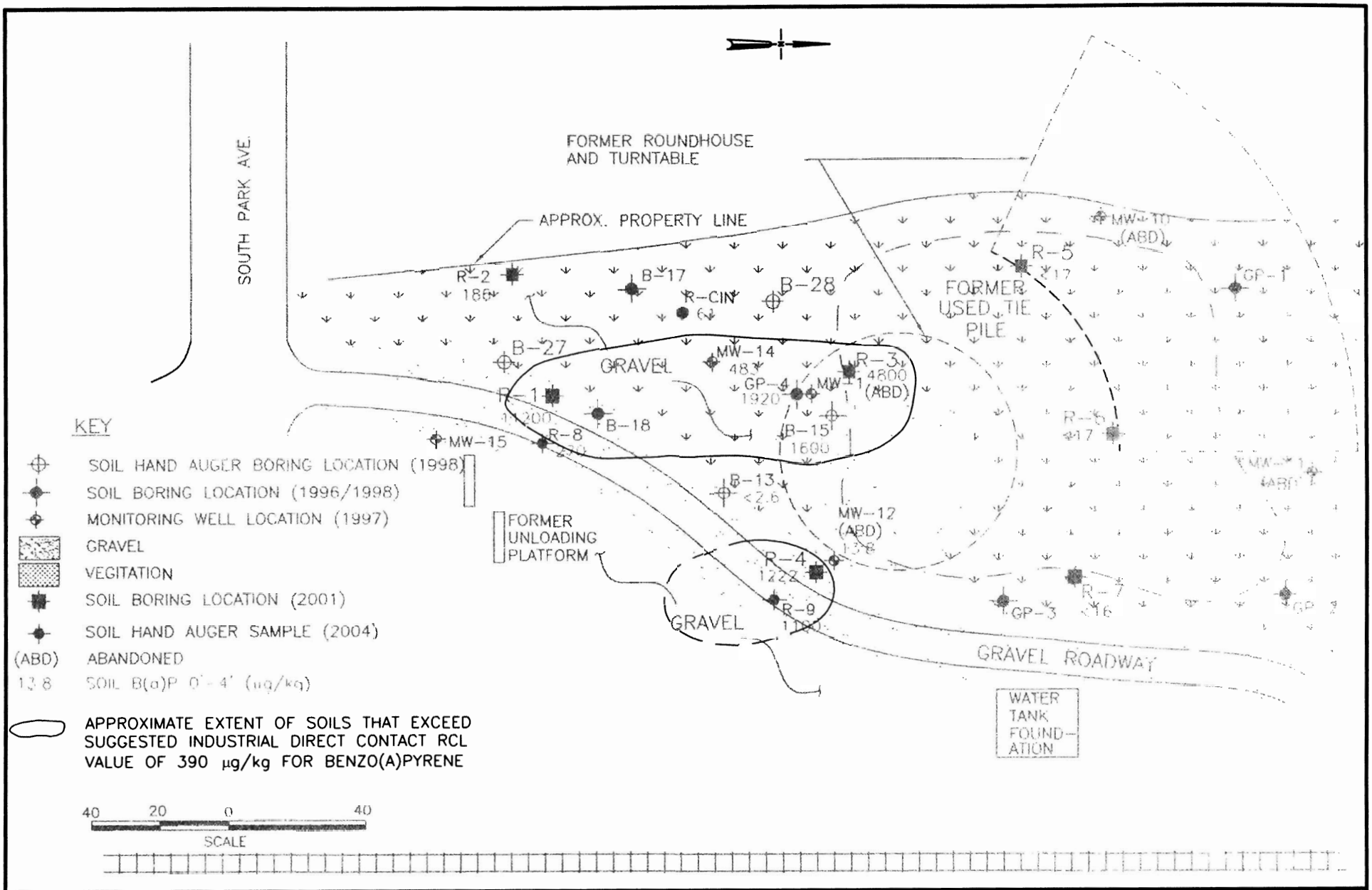

FIGURE NO. 7	SCALE AS SHOWN	STS PROJECT FILE	STS PROJECT NO. 22046XJ

STS Consultants Ltd.
Consulting Engineers

SOIL BORING LOCATIONS
OSHKOSH STATION–FORMER ROUNDHOUSE
OSHKOSH, WISCONSIN
SOIL BENZO (A) PYRENE CONCENTRATIONS

DRAWN BY JMR	DATE 10/14/2004
CHECKED BY RJM	DATE 10/14/2004
APPROVED BY	DATE
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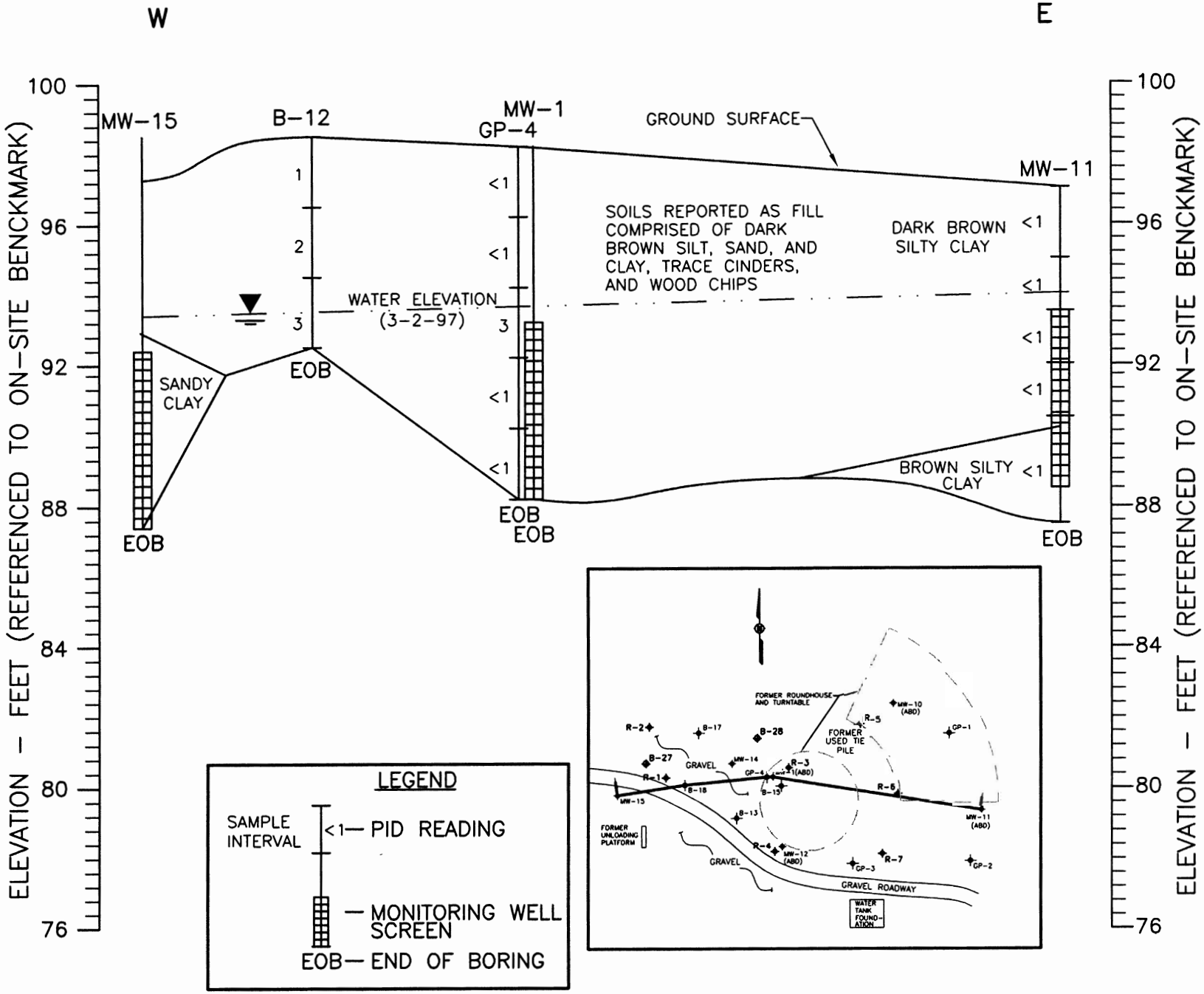

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CROSS - SECTION
OSHKOSH STATION - FORMER ROUNDHOUSE AREA
OSHKOSH, WISCONSIN

Drawn: JRL 10/18/04
Checked: RJM 10/18/2004
Approved:
PROJECT NUMBER 22046XJ
FIGURE NUMBER 8

STATEMENT OF PROPERTY LEGAL DESCRIPTION

In substantial accordance with s.NR 726.05(3)f of the Wisconsin Administrative Code, I am providing this signed statement that to the best of my knowledge the attached Geographic Information System (GIS) coordinates provide corners for an area that encompasses the impacted area of concern within the right-of-way of Wisconsin Central Ltd. property located along Pioneer Drive, in the City of Oshkosh, Winnebago County, Wisconsin.

X Mark E. Gibson Date 4-07-05
(Signature)

Mark E. Gibson
(Name)

Project Mgr. Real Estate & Business Development
(Title)

Wisconsin Central Ltd.
(Company)

SURFACE COVER MAINTENANCE PLAN
Wisconsin Central Ltd.
Oshkosh Yard - Former Roundhouse Area
Oshkosh, Wisconsin
October 2004
WDNR BRRTS No. 02-71-138900

Surface covers are in place to limit the threat to public health and safety by direct-contact for residual polynuclear aromatic hydrocarbon impacts in soils at the Wisconsin Central Ltd. Oshkosh Yard - Former Roundhouse area indicated on attached Figures 4, 5, 6, and 7. For areas indicated on these figures, which have a defined use as industrial property, either vegetative growth or compacted base course gravel are present to limit the threat of direct contact. The engineered cover shall be checked and maintained by the property owner on an annual basis to confirm its effectiveness as a barrier.