252005050



735 North Water Street, Suite 1000 Milwaukee, Wisconsin 53202

(414) 224-8300 (800) 645-7365 Fax (414) 224-8383

November 29, 2006

Ms. Shanna Laube-Anderson Wisconsin Department of Natural Resources Southeast Region – Sturtevant Service Center 9531 Rayne Road, Suite IV Sturtevant, Wisconsin 53177

Reference: Case Closure Documentation Golden Books Publishing Site 1220 Mound Avenue Racine, Wisconsin WDNR BRRTS #: 03-52-113803

## KEY ENGINEERING GROUP, LTD. File No. 1501008

Dear Ms. Laube-Anderson:

In response to your September 13, 2005 "Case Closure" letter, Key Engineering Group, Ltd. (KEY) abandoned one groundwater monitoring well (MW-1) on September 29, 2005. In addition, two 55-gallon drums containing soil cuttings and purged groundwater were transported and hauled to Chemworks for proper disposal on November 1, 2006. Please find attached the following closure related documents:

- Well/Drillhole/Borehole Abandonment Form
- Non-hazardous Waste Manifest

If you should have any questions please contact me at (414) 224-8300 ext 22.

Sincerely,

KEY ENGINEERING GROUP, LTD.

hoy Pegor

Zoy Begos, CHMM Project Scientist

ZB/dmk

Attachments: Monitoring Well Abandonment Form Non-hazardous Waste Manifest

cc: Mr. Micheal Bannon, Demark, Kolbe & Brodek

H:\PROJECTS\2005\EN\1501008\Letters\112906 zb.doc

 State of Wisconsin Department of Natural Resources

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILI	TY NAME	Golden Books Pul	blishing Site				
Well/Drillhole/Borehole		Original Well Owner (If Known)							
Location GOLDEN BOOKS		_							
TODEISINING SITE TRACING	×Ε	Present Wel	1 Owner						
SE 1/4 of SE 1/4 of Section 8 · T 3	$J = R = 23 \qquad \square W$	Mound	Avenue &	Associates					
(If Applicable)	, R [] W	Street or Route							
Gov't Lot	Grid Number								
Grid Location		City, State,	Zip Code						
	⊕ □ F □ W		The second						
II IV S.,	. 11. 🗀 12. 🗀 🗤.	, Facility We	ll No. and/or	Name (If Applicable	e) WI Unique Well No.				
		MW-1			PK 038				
Street Address of Well		Reason For	Abandonmen	t	11 750				
1220 Mound Avenue		Site Clo	C11#0						
City Village		Date of Aba	ndonment						
Dasing		0/20/05							
WELL/DRILLHOLE/BOREHOLE INFORMATION		9129105							
	110	(4) Donth to	Water (Feet)						
(3) Original Well/Drillhole/Borehole Construction Con	npleted On	(4) Depui u	Dining Dom	Voc	No. Not Applicable				
(Date) $4/28/2005$		Fump &	Domouod?		No Not Applicable				
	Dement Association	Einer(s)	Removed?	$\square$ Vec	No. Not Applicable				
	Report Available?	Casing	Cellioveu?	$\square$ res					
Water Well	3 LI NO		Left in Place?	⊠ Yes					
		II NO, E	xplain						
□ Borehole									
		Was Ca	sing Cut Off I	Below Surface?	Yes I No				
Construction Type:	_	Did Sea	ling Material	Rise to Surface?	Yes I No				
Drilled Driven (Sandpoint)	L Dug	Did Material Settle After 24 Hours? 🗌 Yes 🖾 No							
Other (Specify)		If Yes, Was Hole Retopped?							
		(5) Require	d Method of I	Placing Sealing Mat	erial				
Formation Type:			ductor Pipe -	Gravity CC	onductor Pine - Pumped				
Unconsolidated Formation	drock		nn Bailer		her (Explain) Gravity				
	2.00	(6) Sealing Materials For monitoring wells and							
Total Well Depth (ft) <u>19.0</u> Casing Diame	ter (in.) $2.00$	(6) Sealing	Materials		For monitoring wells and				
(From ground surface) Casing Depth	(п.)		t Cement Gro	ut	monitoring well boreholes only				
		Concrete							
Lower Drillhole Diameter (in.)		Concrete Electronic Pellets							
		Clay-Sand Slurry							
Was Well Annular Space Grouted?	No Unknown	Bentonite-Sand Slurry Bentonite-Cement Grout							
If Yes, To What Depth?	Feet	Chipped Bentonite							
(7)									
Sealing Material Used		FIOII (FL)	10(11.)		Mix Ratio of Mud weight				
·		0.0	0.5						
Asphalt Patch		Surface	0.5						
		0.5	15.0		1.5.11				
3/8" Chipped Bentonite		0.5	15.0		15 lbs				
(8) Commonto									
(8) Comments									
(9) Name of Person or Firm Doing Sealing Work		(10)	FC	R DNR OR COUN	TY USE ONLY				
Key Engineering Group. Ltd.		Date I	Received/Insr	ected	District/County				
Signature of Person Doing Work	Date Signed /								
Mad the	11/29/06	Revie	wer/Inspector	•	Complying Work				
Street or Route	Telephone Number	Noncomplying Work							
735 North Water Street Suite 1000	(414) 224-8300	) Follow-up Necessary							
City State Zin Code	(717) 227-0000								
Milwoukoo Wicconcip 52202 4405									
winwaukee, wisconsin 55202-4105		_							

Ple	ase p	rint or type asigned for use on elite (12-pitch) typewriter )									
•		NON-HAZARDOUS WASTE MANIFEST	T. Generator's US	S EPA ID No.	Manifest Document No.	2. Page of	e 1	P	30	05	
	3. 4.	Generator's Name and Mailing Address Golden Books Publishing 1220 Mound Ave. Racine, Generator's Phone (414) 224-830	WI )0 ext 22			Att	zn: Zoy	y Beg	zos	8	
	5.	Advanced Waste Carriers,         Transporter 2 Company Name									
	9.	Designated Facility Name and Site Address CHEMWORKS 3801K W. McKINLEY AVE. 5625 OLI MIL WALKEE WI 53208 DOPTAGE	RKS II PORTER RD.	10. US EPA ID N	umber	A. Trar B. Trar C. Faci	nsporter's Pl nsporter's Pl lity's Phone <b>4-342-1</b>	hone {	300-842-979	92	
	11.	Waste Shipping Name and Description	uga Lind and a land a start of the start				12. Conta No.	ainers	13. Total Quantity	14. Unit Wt Vol	
	a.	Waste Non Hazardous Liqu	id, Non Reg	gulated Materia	1		0.0.1	DM	55	G	
GENER	b.	Waste Non Hazardous Solic	i, Non Regu	lated Material			001	D <sub>.</sub> M	650	Р	
ATORI	C.			. A			а а				
	d.					5 110					
	D.	a. # 070044-0 Ground Wate b. # 070043-SOL Soil		G = Gallons P = Pounds							
	15. Special Handling Instructions and Additional Information Bill to: Step 1 Env.										
		24 Hour Emergency Contac	t #800-842-	-9792 Emerg	ency Respo	onse (	Guide (	On Bo	bard		
V TR	16. Ac 17.	GENERATOR'S CERTIFICATION: I certify the r Printed/Typed Name Carl for DiSposal - Mikk Transporter 1/Acknowledgement of Receipt of N	naterials described ab Laub 1aterials	Signature Agent For	bject to federal regula	ations for n	chae		Sal of Hazardous Wast Month Day	te. Year	
ANSPO	18.	Printed/Typed Name Mike Lawb . Transporter 2 Acknowledgement of Receipt of N	-		Month Day	Year Co					
RTER		Printed/Typed Name		Signature					Month Day	Year	
FACI	19.	. Discrepancy Indication Space							_		
LITY	20.	Printed/Typed Name	pt of waste materials	s covered by this manifest of	ccept as noted in the		- 		Month Day	Year	
		1 month			A		-			1-4	

WHITE - Original Return to Generator • CANARY - Transporter #1 • PINK - Transporter #2 • BLUE - Generator's Copy • GOLD - T/S/D/F Copy

· r. 2	, ,		E	DCT 2 7 200	5				
	GIS REGIST	RY INFORMATIO	N Sub	12-01	1-05 VS				
SITE NAME:	60	Iden Boo	ks Publ	ishina Si	te				
BRRTS #:	03.52.1138	03 FID # (if a	ppropriate):	52005	5050				
<b>COMMERCE</b> # (if appropriate):	00 54 11 50		<u> </u>						
		<u> </u>							
STREET ADDRESS:	1220 MA	und Ave							
CITY:	Racine								
SOURCE PROPERTY GPS COOP	RDINATES (meters in								
WTM91 projection):		x= 700	348	<u> Y= 25</u>	3211				
CONTAMINATED MEDIA:	Groundwater		Soil	×	Both				
OFF-SOURCE GW CONTAMINAT	TION >ES:	Yes		No	h				
IF YES, STREET ADDRESS 1:	and the strategic sectors	,							
GPS COORDINATES (meters in W	/TM91 projection):	X=		- Y=	AFR T 2 13.02				
OFF-SOURCE SOIL CONTAMINA Specific RCL (SSRCL):	TION >Generic or Site-	Yes		No	>				
IF YES, STREET ADDRESS 1:			and a second						
GPS COORDINATES (meters in W	/TM91 projection):	X=		Y=					
CONTAMINATION IN RIGHT OF	WAY:	Yes		XNo					
DOCUMENTS NEEDED:									
Closure Letter, and any conditional	closure letter issued								
Copy of most recent deed, including	legal description, for all aff	ected properties			X				
Certified survey map or relevant por County Parcel ID number, if used for	tion of the recorded plat ma <i>r county</i> , for all affected pro	p (if referenced in th perties 0305	e legal description)	for all affected	properties				
<b>Location Map</b> which outlines all propertie parcels to be located easily (8.5x14" if pape wells within 1200' of the site.	s within contaminated site bounda r copy). If groundwater standards	aries on USGS topogra are exceeded, the ma	aphic map or plat ma ap must also include	p in sufficient detail the location of all m	to permit the unicipal and potable				
Detailed Site Map(s) for all affected potable wells. (8.5x14", if paper copy) This the source property and in relation to the bogeneric or SSRCLs.	properties, showing buildings, ro map shall also show the location undaries of groundwater contamir	bads, property bounda of all contaminated pu nation exceeding ch. N	ries, contaminant sou ublic streets, highway IR 140 ESs and soil o	urces, utility lines, m and railroad rights- contamination excee	nonitoring wells and of-way in relation to eding ch. NR 720				
Tables of Latest Groundwater Analy	tical Results (no shading or	cross-hatching)			NA				
Tables of Latest Soil Analytical Resu	ults (no shading or cross-ha	tching)			×				
Isoconcentration map(s), <i>if required</i> extent of groundwater contamination defined	<i>for site investigation (SI) (</i> 8 d. If not available, include the la	.5x14" if paper copy). Itest extent of contan	The isoconcentratio ninant plume map.	n map should have	flow direction and				
GW: Table of water level elevations GW: Latest groundwater flow direct greater than 20 degrees)	, with sampling dates, and f ion/monitoring well locatior	ree product noted n map (should be 2	if present 2 maps if maximu	m variation in flo	w direction is				
SOIL: Latest horizontal extent of co	ontamination exceeding gen	eric or SSRCLs, w	ith one contour		×				
Geologic cross-sections, if required	for SI. (8.5x14' if paper copy	/) accurate			NA				
Copies of off-source notification let	ters (if applicable)	uoourate			ALR				
Letter informing ROW owner of resid	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									

revised 7/2/03

## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES



James Doyle, Governor Scott Hassett, Secretary Gloria L. McCutcheon, Regional Director Southeast Region Sturtevant Service Center 9531 Rayne Road, Suite IV Sturtevant, Wisconsin 53177 Telephone 262-884-2300 FAX 262-884-2307 TDD 262-884-2304

September 13, 2005

Mound Avenue Associates c/o Mike Bannon Demark, Kolbe, Brodek, S.C. 6216 Washington Ave PO Box 085009 Racine, WI 53408

# Subject: Case Closure for Golden Books Publishing Site, 1220 Mound Ave, Racine, WI FID 252005050, BRRTS 03-52-113803

Dear Mr. Bannon:

The Department has received and reviewed the information submitted to complete the closure at this site. At this time your site will be noted as being closed with Soil GIS on the Department's database.

Please proceed with abandonment of the monitoring wells located on the property associated with this project. Please submit the abandonment forms directly to my office for inclusion in the file.

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.

Thank you for you efforts in remediating your site. If you have any questions regarding this letter please contact me at 262-884-2341.

Sincerely,

Kon handy

Shanna L Laube-Anderson, P.G. Hydrogeologist Southeast Region, Sturtevant Service Center

Cc: Key Engineering, Zoy Begos, 735 North Water Street, Suite 1000, Milwaukee, WI 53202

# **Checklist of Documents for GIS Registry Packet**

PUB-RR-688

June, 2004

(Include with closure request – please assemble in this order. This checklist applies to closure requests for sites with groundwater exceeding ch. NR 140 standards and/or soil contamination exceeding ch. NR 720 generic or site specific residual contaminant levels (RCLs).)

One-time fee of \$250.00 for groundwater, and/or \$200 for soil, for each case closed, for maintenance of the registry.

Copies of the most recent deed including legal descriptions, for all properties within or partially within the contaminated site boundaries. (Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.)

- A copy of the certified surveyed map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision))
- Parcel identification number for each property, *if the county in which the property is located uses parcel identification numbers.*

Geographic position of all properties within or partially within the contaminated site boundaries. The coordinates need to be for a spot located at least 40 feet inside the property boundary. Refer to NR 716.15(2)(d)7, and (k). The coordinates must be in WTM91 projection. See the following WDNR website address for assistance:http://gomappout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm

- A location map which outlines all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit the easy location of all parcels. If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200 feet of the site. <u>(If only one parcel, combine with next item.)</u>
- A map of all contaminated properties within site boundaries, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. This map shall also show the location of all contaminated public streets, and 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 enforcement standards, and/or in relation to the boundaries of soil contamination exceeding generic or site-specific residual contaminant levels as determined under s.. NR 720.09, 720.11 and 720.19.
- A table of the most recent analytical results, with sample collection dates: from all monitoring wells, and any potable wells for which samples have been collected for **groundwater**, and/or showing results for all contaminants found in pre-remedial sampling and in the most recent soil sampling event, for soils (without shading/crosshatching).



Wisconsin Department of Natural Resources P.O. Box 7921, Madison, WI 53707 http://dnr.wi.gov/org/aw/rr



- An isoconcentration map, <u>if required as part of the site investigation (SI)</u>, of the contaminated properties within the site boundaries. The map should include the areal extent of groundwater contamination exceeding PALs and ESs, groundwater flow directions based on the most recent data, and sample collection dates. If an isoconcentration map was not required as part of the SI, substitute a map showing the horizontal extent of contamination, based on the most recent data.
- A table of the previous 4 water level elevation measurements from all monitoring wells, at a minimum, with the date measurements were made, is to be included. If present, free product is to be noted on the table. In addition, a groundwater flow direction map, representative of groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, 2 groundwater flow maps showing the maximum variation in flow direction are to be submitted
- For sites closing with residual soil contamination, include **a map showing the location of all** soil samples and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds generic or site specific residual contaminant levels.
- A geologic cross section, <u>if required as part of the SI</u>, showing vertical extent and location of residual soil contamination exceeding generic or site specific RCLs and residual groundwater contaminants, source extent and location; isoconcentrations for all groundwater contaminants that exceed PALs that remain when closure is requested; water table and piezometric elevations, and the location and elevation of geologic units, bedrock, and confining units, if any.
- A statement signed by the responsible party, which states that he or she believes that the legal descriptions attached to the statement are complete and accurate. (The point here is that the legal descriptions are describing the correct (i.e. contaminated) properties.)
- A copy of the letters sent by the RP to all owners of properties with groundwater exceeding ESs as required by s. NR 726.05(3)(a)4.g. Letters sent to off-source properties must contain standard provisions in Appendix A of ch. NR 726. (*Off source properties are listed separately with a link to the source property.*) If the source property owner is owned by someone other than the person who is applying for case closure, a copy of the letter notifying the current owner of the source property that case closure has been requested should also be included.
- A copy of all written notifications provided (to city/village/municipality/state agency or other responsible for maintenance) of a public street or highway or railroad right-of-way, within or partially within the boundaries of the contaminated site, for contamination exceeding groundwater ESs and/or soil exceeding generic or site specific RCLs.
- A list of addresses for all off-source properties affected by residual soil or groundwater contamination exceeding applicable standards.

This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions.



- .

'	DOCUMENT #		
	1746122	:	,
	STATE EAR OF WISCONSIN FORM I - 1998 WARRANTY DEED		ب در
	Document Numbor	RACINE COUNTY, WI	
		RECORDED	-
	This Deed, made between	- 2000 DCT 17 PH 6:12 -	. ت
	. Grant		- - -
	and Mound Avenue Associates, LLC	REGISTER OF DEEDS	,.
	Grantor, for a valuable consideration, conveys to Grantee the followi		•
	described real estate in Racine County, State of Wiscons	Bercerdian Area 14	
		Nama and Rolun Address	= <del></del>
		Landmark Title	
	ч 		
	BBE attached legals	03056001. 03142000. 02938000	٦
	· · · · · · · · · · · · · · · · · · ·		
	1 Y	Parcal Identification Number (PIN) This is not homestead property.	
	 '	(is) (is nai)	
*			
		WI REAL ESTATE	
			- 11
		16850	}
	i, i l Together with all appurtenant rights, title and interests,	\$ <u>16950.0</u> 0	
	Together with all appurtenent rights, tills and interests, Granior warrants that the lills to the Property is good, indefeasible in fee simple an municipal and zoning ordinances and agreement ontered under them, recorded easentents for the disor and use respictions and covenants, general taxes levied in the year of closing. Dated this day of Detober 2000 Two Hundred West. L.L.C. AT:	\$_10950_00 4 free Brd clear of encumbrances except button of utilities and municipal services, recorded building	
	Together with all appurcenent rights, title and interests. Granitor warrants that the little to the Property is good, indefeasible in fee simple an municipal and zoning ordinances and agreements entered under them, recorded easements for the disar and use restrictions and covenants, general tazes levicd in the year of closing. Dated this day of Detober 2000 Two Hundred West, L.L.C. D:: 	\$_10950_00 d free and clear of encumbrances except button of utilities and municipal services, recorded building (SEAL)	
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	Together with all appurtenent rights, tills and interests.         Grantor warrants that the tills to the Property is good, Indefeasible in fee simple and municipal and zening ordinances and agreements for the disord and we respictions and covenants, general taxes levied in the year of clocing.         Deted this       1515       day of       Detober       2000         Two Hundred West       1.1.0.0.21:       (SEAL)	S_10950_00  d free and clear of encumbrances except button of utilities and municipal services, recorded building  (SEAL)  (SEAL)  ACKNOWLEDGMENT  of Wisconsin;  cine County.  st. County.  st. County.  county.	
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VOL	PAGE
3081	420

#### Exhibit "A"

#### LEGAL DESCRIPTION

PARCEL I: That part of Sage's Addition, a recorded plat in the Southwest 1/4 of Section 9 and the Southeast 1/4 of Section 8, Township 3 North, Range 23 East, bounded as follows: Begin at the noint of Intersection of the South line of Liberty Street with the West line of said Section 9 located South 02° 01' 41" East 1076.40 feet from the Northwest corner of the Southwest 1/4 of said Section 9: run thence North 88° 06' 49" East 156.87 feet on the South line of Liberty Street; thence North 87° 49' 49" East 233,93 feet on the South line of Liberty Street; thence North 88° 04' 00" East 20.02 feet on the South line of Liberty Street; thence South 01° 56' 00" East 72.00 feet; thence North 88° 04' 00" East 40.00 feet; thence South 01° 56' 00" East 18.00 feet; thence North 88° 04' 00" East 70.00 feet; thence South 01° 56' 00" East 3.00 feet; thence North 88° 04' 00" East 43.00 feet; thence South 01° 56' 00" East 42.93 feet; thence North 70° 19' 45" East 22.94 feet; thence North 54° 17' 49" West 4.00 feet; thence North 71° 17' 18" East 81.16 feet; thence South 54° 17' 49" East 130.77 feet to the Northwesterly line of Mound Avenue; thence South 35° 42' 11" West 333.18 feet on the Northwesterly line of Mound Avenue to the Northerly line of Bank Street; thence North 54° 13' 01" West 205.00 feet on the Northerly line of Bank Street; thence South 35° 42' 11" West 40.00 feet to the Southerly line of Bank Street; thence South 54° 13' 01" East 205.00 feet on the Southerly line of Bauk Street to the Northwesterly line of Mound Avenue; thence South 35° 42' 11" West 637.28 feet on the Northwesterly line of Mound Avenue; thence North 54° 17' 49" West 183.45 feet to the West line of said Section 9; thence South 02° 01' 41" East 1.53 feet on the West line of said Section 9; thence North 54° 27' 41" West 113.01 feet; thence North 03° 16' 44" East 85.62 feet; thence North 01° 59' 04" East 46.47 feet; thence North 06° 04' 13" East 23.77 feet to a noint of curvature of a curve of Westerly convexity whose radius is 228.45 feet and whose chord bears North 01° 41' 52" East 35.33 feet; thence Northerly on the arc of said curve 35.37 feet; thence North 11° 54' 18" East 2.03 feet; thence North 76° 18' 20" West 18.39 feet; thence North 00° 31' 42" East 184.33 feet; thence North 01° 57' 10" West 421.59 feet to the South line of Liberty Street; thence North 88° 06' 49" East 81.20 feet on the South line of Liberty Street to the point of , beginning. ALSO; all of Bank Street (vacated) West of Mound Avenue. ALSO: That part of the Southeast 1/4 of Section 8, Township 3 North, Range 23 East, described as follows: Commence at a point on the South line of Liberty Street and the East line of Section 8, located South 02° 01' 41" East 1076.40 feet from the East 1/4 corner of said Section 8; run thence South 88° 06' 49" West 81.20 feet to a 3/4-inch diameter rebar rod and the point of beginning of this description; run thence South 01° 57' 10" East 421.59 feet to a 3/4-inch diameter reber rod; thence South 00° 31' 42" West 184.33 feet to a chiseled "L"; thence South 76° 18' 20" East 18.39 feet to a PK Nail; thence South 11° 54' 18" West 2.03 feet to a 3/4-inch diameter rebar rod and a point on a curve to the left of Westerly convexity whose radius is 228.45 feet and whose chord bears South 01° 41' 52" West 35.33 feet: thence Southerly 35.37 feet along the arc of said curve to a 3/4-inch diameter rebar rod; thence South 06° 04' 13" West 23.77 feet to a 3/4-inch diameter rebar rod; thence South 01° 59' 04" West 46.47 feet to a 3/4-inch diameter rebar rod; thence South 03° 16' 44" West 85.62 feet to a 3/4-Inch diameter rebar rod; thence South 54° 27' 41" East 5.51 feet to a 3/4-inch diameter rebar rod; thence South 03° 44' 16" West 51.87 feet to a 3/4-inch diameter rebar rod; thence South 88° 06' 49" West 67.28 feet to a 3/4-inch diameter rebar rod; thence North 11° 55' 39" West 363.66 feet to a 3/4-inch diameter rebar rod; thence North 88° 06' 49" East 97.14 feet to a 3/4-inch diameter rebar rod; thence North 02° 21' 00" West 500.00 feet to a 3/4-inch diameter rebar rod and the South line of Liberty Street; thence North 88° 06' 49" East 44.69 feet along said South line to the point of beginning. Said land being in the City of Racine, Racine County, Wisconsin.

The following is for informational purposes only: Address: 1220 Mound Avenue Tax Key No. 03056001

continued

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3081	421

PARCEL II: That part of Sage's Addition, a recorded plat in the Southwest 1/4 of Section 9, Township 3 North, Range 23 East, bounded as follows: Commence at the point of intersection of the Southeasterly line of Mound Avenue with the West line of said Section 9 located South 02° 01' 41" East 2344.48 feet from the West 1/4 corner of said Section 9; run thence North 35° 42' 11" East 517.31 feet on the Southeasterly line of Mound Avenue to the point of beginning of this description; run thence North 35° 42' 11" East 657.00 feet more or less; thence South 54° 17' 49" East 123.6 feet, more or less, to the Westerly shore of Root River; thence Southwesterly on the Westerly shore of Root River 657 feet; more or less, to a point located South 54° 17' 49" East from the point of beginning; run thence North 54° 17' 49" West 133.3 feet, more or less, to the point of beginning. ALSO That part of Block 37, Sage's Addition, according to the recorded plat thereof. bounded as follows: Commencing at a point that is 152 feet (517.31 feet Northeasterly along the East line of Mound Avenue from the point of intersection of the Southeasterly line of Mound Avenue and the West line of said Section 9) Southwesterly of the most Northerly corner of said Block 37; thence South 54° 17' 49" East 103.26 feet to the point of beginning of the property to be described; thence North 17° 19' 45" East 3.57 feet; thence South 72° 40' 15" East 15.00 feet; thence South 17º 19' 45" West 9.31 feet; thence South 69º 06' 53" East 14.49 feet; thence South 35º 42' 11" West 2.07 feet; thence North 69° 06' 53" West 13.84 feet; thence South 17° 19' 45" West 8.69 feet: thence North 72° 40' 15" West 15.00 feet; thence North 17° 19' 45" East 16.43 feet to the point of beginning. Said land being in the City of Racine, Racine County, Wisconsin,

The following is for informational purposes only: Address: 1231 Mound Avenue Tax Key No. 03142000

<u>PARCEL III</u>: Lot 10, Block 30, Jonathan Hurlbut's Subdivision of Blocks 29 and 30, Sage's Addition, according to the recorded plat thereof. <u>EXCEPTING THEREFROM</u> that part conveyed to the City of Racine in Volume 2436 of Records, Page 989, as Document No. 1496245, and described as follows: Begin at the Southeast corner of said Lot 10; run thence Westerly along the South line of said Lot 10, a distance of 30 feet to a point of curvature of a curve of Southeasterly convexity whose radius is 30 feet; thence Northeasterly 47.12 feet along the arc of said curve to a point on the East line of said Lot 10 which is 30 feet to the point of the point of beginning; thence Southerly along said East line 30 feet to the point of beginning. Said land being in the City of Racine, Racine County, Wisconsin.

The following is for informational purposes only: Address: 804 Silver Street Tax Key No. 02938000

## AMBASSADOR TITLE CORPORATION LETTER REPORT NO. 60469

June 9, 2005

Ms. Chris Krumenacher DeMark, Kolbe & Brodek, SC 6216 Washington Avenue Racine, WI 53406

#### RE: MOUND AVENUE ASSOCIATES, LLC

We have made an examination of the records affecting the premises described herein since October 17, 2000 and find the following:

Title is vested in: MOUND AVENUE ASSOCIATES, LLC

Taxes for the year 2003 and prior years have been paid under Tax Parcel Number 276-000003056001

Taxes for the year 2004 = \$68,618.90

2004 Assessments = Land 367,000.00 - Improvements 2,133,000.00 - Total 2,500,000.00 Estimated Fair Market Value per Courthouse Computer 2,578,915.00

Taxes for the year 2003 and prior years have been paid under Tax Parcel Number 276-000003142000

Taxes for the year 2004 = \$2,588.96

2004 Assessments = Land 70,000.00 - Improvements 12,000.00 - Total 82,000.00 Estimated Fair Market Value per Courthouse Computer 84,588.00

Taxes for the year 2003 and prior years have been paid under Tax Parcel Number 276-000002938000

Taxes for the year 2004 = \$912.16

.. .

2004 Assessments = Land 9,900.00 - Improvements 20,100.00 - Total 30,000.00 Estimated Fair Market Value per Courthouse Computer 30,947.00

20 ° d

DEMARK KULBE BRODEK

## Encumbrances:

Mortgage from Mound Avenue Associates, LLC to Johnson Bank, dated March 1, 2002 and recorded in the office of the Register of Deeds for Racine County, Wisconsin on March 7, 2002 in Volume 3385 of Records, page 934, as Document No. 1820063, securing \$3,674,509.37,

Mortgage from Mound Avenue Associates, LLC to Johnson Bank, dated November 7, 2002 and recorded in the office of the Register of Decds for Racine County, Wisconsin on November 20, 2002 in Volume 3584 of Records, page 877, as Document No. 1864347, securing \$800,000.00.

We find no liens or judgments docketed in the name of Mound Avenue Associates, LLC.

The effective date of this report is May 27, 2005 at 8:00 A.M., and the following property is covered by this report, to-wit:

PARCEL I: That part of Sage's Addition, a recorded plat in the Southwest 1/4 of Section 9 and the Southeast 1/4 of Section 8. Township 3 North, Range 23 East, bounded as follows: Begin at the point of intersection of the South line of Liberty Street with the West line of said Section 9 located South 02°01'41" East 1076.40 feet from the Northwest corner of the Southwest 1/4 said Section 9; run thence North 88°06'49" East 156.87 feet on the South line of Liberty Street; thence North 87°49'49" East 233.93 feet on the South line of Liberty Street; thence North 88°04'00" East 20.02 feet on the South line of Liberty Street; thence South 01°56'00" East 72,00 feet; thence North 88°04'00" East 40.00 feet; thence South 01°56'00" East 18.00 feet; thence North 88°04'00" East 70.00 feet; thence South 01°56'00" East 3.00 feet; thence North 88°04'00" East 43.00 feet; thence South 01°56'00" East 42.93 feet; thence North 70°19'45" East 22,94 feet; thence North 54°17'49" West 4.00 feet; thence North 71°17'18" East 81.16 feet; thence South 54°17'49" East 130.77 feet to the Northwesterly line of Mound Avenue; thence South 35°42'11" West 333.18 feet on the Northwesterly line of Mound Avenue to the Northerly line of Bank Street; thence North 54°13'01" West 205.00 feet on the Northerly line of Bank Street; thence South 35°42'11" West 40.00 feet to the Southerly line of Bank Street; thence South 54°13'01" East 205.00 feet on the Southerly line of Bank Street to the Northwesterly line of Mound Avenue; thence South 35°42'11" West 637.28 feet on the Northwesterly line of Mound Avenue; thence North 54°17'49" West 183.45 feet to the West line of said Section 9; thence South 02°01'41" East 1.53 feet on the West line of said Section 9; thence North 54°27'41" West 113.01 feet; thence North 03°16'44" East 85.62 feet; thence North 01°59'04" East 46.47 feet; thence North 06°04'13" East 23.77 feet to a point of curvature of a curve of Westerly convexity whose radius is 228.45 feet and whose chord bears North 01°41'52" East 35.33 feet; thence Northerly on the arc of said curve 35.37 feet; thence North 11°54'18" East 2.03 feet; thence North 76°18'20" West 18.39 feet; thence North 00°31'42" East 184.33 feet; thence North 01°57'10" West 421.59 feet to the South line of Liberty Street; thence North 88°06'49" East 81.20 feet on the South line of Liberty Street to the point of beginning. Also all of Bank Street (vacated) West of Mound Avenue. Also that part of the Southeast 1/4 of Section 8,

P. 03

Fax: 2626336928

Township 3 North, Range 23 East, described as follows: Commence at a point on the South line of Liberty Street and the East line of Section 8, located South 02°01'41" East 1076.40 feet from the East 1/4 corner of said Section 8: run thence South 88°06'49" West 81.20 feet to a 3/4 inch diameter rebar rod and the point of beginning of this description; run thence South 01°57'10" East 421.59 feet to a 3/4 inch diameter rebar rod; thence South 00°31'42" West 184.33 feet to a chiseled "L"; thence South 76°18'20" East 18.39 feet to a PK Nail; thence South 11°54'18" West 2.03 feet to a 3/4 inch diameter rebar rod and a point on a curve to the left of Westerly convexity whose radius is 228,45 feet and whose chord bears South 01°41'52" West 35.33 feet; thence Southerly 35.37 feet along the arc of said curve to a 3/4 inch diameter rebar rod; thence South 06'04'13" West 23.77 feet to a 3/4 inch diameter rebar rod: thence South 01°59'04" West 46.47 feet to a 3/4 inch diameter rebar rod; thence South 03°16'44" West 85.62 feet to a 3/4 inch diameter rebar rod; thence South 54°27'41" East 5.51 feet to a 3/4 inch diameter rebar rod; thence South 03°44'16" West 51.87 feet to a 3/4 inch diameter rebar rod: thence South 88°06'49" West 67.28 feet to a 3/4 inch diameter rebar rod: thence North 11°55'39" West 363.66 feet to a 3/4 inch diameter rebar rod; thence North 88°06'49" East 97.14 feet to a 3/4 inch diameter rebar rod: thence North 02°21'00" West 500,00 feet to a 3/4 inch diameter rebar rod and the South line of Liberty Street: thence North 88°06'49" East 44.69 feet along said South line to the point of beginning, Said land being in the City of Racine, Racine County, Wisconsin.

Tax Key No: 276-00003056001 Address: 1220 MOUND AVENUE RACINE, WI 53404

12 P. D4

Jun 9 2005 74:12

Fax: 2626336928

JJTIT RODAZZAEMA

PARCEL II: That part of Sage's Addition, a recorded plat in the Southwest 1/4 of Section 9, Township 3 North, Range 23 East, bounded as follows: Commence at the point of intersection of the Southeasterly line of Mound Avenue with the West line of said Section 9 located South 02°01'41" East 2344.48 feet from the West 1/4 corner of said Section 9; run thence North 35°42'11" East 517.31 feet on the Southeasterly line of Mound Avenue to the point of beginning of this description; run thence North 35°42'11" East 657.00 feet more or less; thence South 54°17'49" East 123.6 feet, more or less, to the Westerly shore of Root River; thence Southwesterly on the Westerly shore of Root River 637 feet; more or less, to a point located South 54°17'49" East from the point of beginning; run thence North 54°17'49" West 133.3 feet, more or less, to the point of beginning. Also that part of Block 37, Sage's Addition, according to the recorded plat thereof, bounded as follows: Commencing at a point that is 152 feet (517,31 feet Northeasterly along the East line of Mound Avenue from the point of intersection of the Southeasterly line of Mound Avenue and the West line of said Section 9) Southwesterly of the most Northerly corner of said Block 37; thence South 54°17'49" East 103.26 feet to the point of beginning of the property to be described; thence North 17°19'45" East 3.57 feet; thence South 72°40'15" East 15.00 feet; thence South 17°19'45" West 9.31 feet; thence South 69°06'53" East 14.49 feet; thence South 35°42'11" West 2.07 feet; thence North 69°06'53" West 13,84 feet; thence South 17°19'45" West 8.69 feet; thence North 72°40'15" West 15.00 feet; thence North 17°19'45" East 16.43 feet to the point of beginning. Said land being in the City of Racine, Racine County, Wisconsin.

## Tax Key No.: 276-000003142000

## Address: 1231 MOUND AVENUE RACINE, WI 53404

PARCEL III: Lot 10, Block 30, Jonathan Hurlbut's Subdivision of Blocks 29 and 30, Sage's Addition, according to the recorded plat thereof. Excepting therefrom that part conveyed to the City of Racine in Volume 2436 of Records, page 989, as Document No. 1496245, and described as follows: Begin at the Southeast corner of said Lot 10; run thence Westerly along the South line of said Lot 10, a distance of 30 feet to a point of curvature of a curve of Southeasterly convexity whose radius is 30 feet; thence Northeasterly 47.12 feet along the arc of said curve to a point on the East line of said Lot 10 which is 30 feet to the point of beginning; thence Southerly along said East line 30 feet to the point of beginning. Said land being in the City of Racine, Racine County, Wisconsin. Excepting therefrom land conveyed in Warranty Deed recorded April 23, 2003, as Document No. 1897867.

## Tax Key No.: 276-000002938000

## Address: 804 SILVER STREET Racine, WI 53404

This report is not to be construed as a commitment to insure the subject property. Please advise our office if you wish such a commitment prepared. Our liability is limited to the cost of this report.

90'd

Eax: 2626336928







TABLE 1										
	SOIL QUALITY									
GOLDEN I	300KS - I	NAPTHA	AND ISO	PROPYL /	ALCOHOL	. UST AR	EA			
		1220	Mound A	Avenue						
	T	Rac	ine, Wisc	onsin						
	UNITS	GP-10	GP-11	GP-12	GP-13	GP-14	GP-15	NR720		
Depth	feet bgs	11-13	11-13	5-7	5-7	5-7	5-7			
PID iui 16.2 13 3 1.1 2 4.5										
DRO	mg/kg	<10	<10	<10	<10	<10	<10	100		
Isopropyl Alcohol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS		
Naptha	mg/kg	<10	<10	<10	<10	<10	<10	NS		
VOCs										
Benzene μg/kg <25 <25 <25 <25 <25 <25								5.5		
Toluene μg/kg <25 <25 <25 <25 <25 <25										
Ethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	2,900		
Xylenes	µg/kg	<75	<75	<75	<75	<75	<75	4,100		
Methyl-tert-butyl ether	µg/kg	<25	<25	<25	<25	<25	<25	NS		
1,2,4-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
1,3,5-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
Isopropylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
n-Propylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
Naphthalene	µg/kg	50	90	<25	<25	<25	<25	NS		
Кеу:										
	PID	= Photoir	nization D	etector						
	DRO	= Diesel	Range Or	ganics						
	bgs	= below ground surface								
	iui	= Instrument units								
	mg/kg	= milligrams per kilogram								
	µg/kg	= micrograms per kilogram								
	NS	= No Sta	ndard	-						
	NR720	= Chapte	er NR720	Soil Resid	ual Conta	minant Le	evel			



Reference:

Geographic Information System Registry Golden Books Publishing Site Naptha and IPA UST Area 1220 Mound Avenue Racine, Wisconsin 53404 BRRTS #: 03-52-113803

To Whom it May Concern:

I, Micheal Bannon, Demark, Kolbe, Brodek, S.C., Attorney for Mound Avenue Associates, LLC, do hereby declare to the best of my knowledge that the attached legal property description represents completely and accurately the above referenced property for which I am requesting listing on the Wisconsin Department of Natural Resources Geographic Information System Registry of Closed Remediation Sites.

Please find a copy of the property deed for the above referenced property. 6-29-05 in Signed: Date:

Micheal Bannon, Attorney for Mound Avenue Associates, LLC (Property Owner) Demark, Kolbe, Brodek, S.C.



735 North Water Street, Suite 1000 Milwaukee, Wisconsin 53202

(414) 224-8300 (800) 645-7365 Fax (414) 224-8383

July 19, 2005

Program Assistant Wisconsin Department of Natural Resources Southeast Regional Headquarters 2300 North Dr. Martin Luther King, Jr. Drive Post Office Box 12436 Milwaukee, Wisconsin 53212

Mike Bannon -Dem Galle Washington Ar POBX 085009 Recine 53408

Reference:

Request for Case Closure Golden Books Publishing Site 1220 Mound Avenue Racine, Wisconsin 53404 WDNR BRRTS #: 03-52-113803

> KEY ENGINEERING GROUP, LTD. File No. 1501008

Dear Sir or Madam:

This letter is presented to provide additional information, which was requested in the Wisconsin Department of Natural Resources (WDNR) June 16, 1999 letter. This letter is submitted on behalf of Mound Avenue Associates, LLC, c/o Demark, Kolbe, Brodek, S.C., as prepared by Key Engineering Group, Ltd. (KEY).

#### **Background Information**

In November of 1996, one 3,000-gallon Naphtha underground storage tank (UST) and one 6,000gallon isopropyl alcohol (IPA) UST were removed from the subject site. Concentrations of volatile organic compounds (VOCs) were detected in a soil sample collected from the north sidewall of the UST excavation area. The WDNR issued a "responsible party" letter on December 18, 1996.

A site investigation which consisted of advancing six soil probes (GP-10 through GP-15) within and surrounding the former UST area was conducted in 1997. The soil sample analytical results indicated minimal concentrations of VOC-impacted soil within the UST excavation area (Soil Quality Map, Sigma, see Attachment 1). Groundwater was not analyzed. This information was documented and submitted to the WDNR as part of a "request for closure" in June of 1998 (*Remedial Investigation*, Sigma Environmental Services, June 12, 1998).

In a June 16, 1999 letter (see Attachment 2), the WDNR indicated that groundwater quality needed to be evaluated prior to re-evaluating for site closure. In addition, the WDNR requested an estimated volume of soil contamination above NR 720 table values that still remains on-site.

Program Assistant July 19, 2005 Page 2

#### **Groundwater Investigation**

Gestra Engineering drilled one soil boring (B-1) and installed one groundwater monitoring well (MW-1) to a depth of approximately 15 feet below ground surface. The monitoring well was installed within the former excavation backfill, which was associated with the removal of an IPA and Naptha UST, respectively. A site location and site layout map are included as Figures 1 and 2. A soil boring log and groundwater monitoring well construction form are included in Attachment 3.

Groundwater monitoring well MW-1 was developed and sampled on May 3, 2005. A copy of the monitoring well development form is included in Attachment 2. A groundwater sample was collected and submitted to Test America Analytical Testing Corporation for analysis of IPA, Naphtha and VOCs. A summary of the groundwater sample analytical results is included on Table 1 and on Figure 3. The laboratory analytical report is included in Attachment 4. VOCs, including ethylbenzene, toluene and xylenes, were detected at concentrations below their respective NR 140 preventive action limit in the groundwater sample collected from MW-1. There were no detectable concentrations of diesel (naptha), gasoline (naptha) or IPA in the groundwater sample collected from MW-1.

Based on the previous soil data collected (concentrations above NR 720 generic residual contaminant levels), KEY estimates that approximately 10 to 15 cubic yards of impacted soil remains on-site.

#### Discussion

Based on the groundwater analytical results, this should satisfy the WDNR's request and therefore, no further investigation is warranted and case closure is appropriate with placement of the site on the WDNR Geographic Information System (GIS) Registry to address the residual soil impacts. GIS documentation is included as Attachment 5.

If you have any questions please call us at (414) 224-8300.

Sincerely,

#### KEY ENGINEERING GROUP, LTD.

MIG

Zoy Begos, CHMM Project Scientist

ZB/tym

Enclosures:	Table 1	Summary of Groundwater Sample Analytical Results							
	Figure 1	Site Location Map							
	Figure 2	Site Layout							
	Figure 3	Summary of Groundwater Sample Analytical Results							
	Attachment 1	Soil Quality Map, Sigma, June 6, 1998							
	Attachment 2	June 16, 1999 WDNR letter							
	Attachment 3	Soil Boring Log, Monitoring Well Construction and Development Forms							
	Attachment 4	Test America Laboratory Analytical Report							
	Attachment 5	GIS Registry Documentation (with \$200 WDNR fee)							

## Mr. Mike Bannon, Demark, Kolbe & Brodek, S.C.

## TABLE 1

## SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

## **GOLDEN BOOKS PUBLISHING SITE**

1220 Mound Avenue Racine, Wisconsin

	SAMPLE IDENTIFICATION		
PARAMETERS	MW-1	PAL	ES
Date Sampled	5/3/05		
Isopropyl Alcohol (mg/l)	<1.4		·
Diesel (Naphtha) (mg/l)	<0.5		
Gasoline (Naphtha) (mg/l)	<0.5		
Detected VOCs (µg/l)			
Ethylbenzene	3.2	140	700
Isopropylbenzene	0.84		
Toluene	0.70	200	1,000
Xylenes	2.0	1,000	10,000

Notes:

---- - no standard established

ES - NR 140 enforcement standard

PAL - NR 140 preventive action limit

mg/l - milligrams per liter

µg/l - micrograms per liter

VOC - volatile organic compound













## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Gloria L. McCutcheon, Regional Director Southeast Regional Headquarters 2300 N. Dr. ML King Drive, PO Box 12436 Milwaukee, Wisconsin 53212-0436 Telephone 414-263-8500 FAX 414-263-8606 TDD 414-263-8713

> FID #: 252005050 County of Racine

June 16, 1999

Ms. Carol Rinelli Western Publishing 1220 Mound Avenue Racine, WI 53404

> SUBJECT: Request for Site Closure – Golden Books Publishing 1220 Mound Avenue, Racine, WI. BRRTS#: 03-52-113803

Dear Ms. Rinelli:

The Wisconsin Department of Natural Resources (the Department) has completed the review of the above-named site for a determination as to whether or not the case qualified for close out under ch. NR 726, Wisconsin Administrative Code.

Based on the information submitted to the Department, soil contamination was discovered during closure of the former two USTs (one 3,000 gal. naphta and one 6,000 gal. isopropyl alcohol). A remedial investigation, consisting of installation of six geoprobes, indicated that soil contamination was confined within the USTs' backfill. Groundwater was encountered at six feet below ground surface (within the backfill), but the quality was not evaluated. To complete our review of this site for closure, we request that you: a) estimate the volume of soil contamination above the NR 720 table values that still remain in-place at the site; b) define the degree and extent of the groundwater contamination and evaluate the quality. We will re-evaluate the site for closure, when we receive your next submittal.

The Department appreciates the efforts you are taking to restore the environment at this site. If you have any questions, please call me at (414) 263-8639.

Sincerely,

Cric-Amadi

Eric Amadi Hydrogeologist

C: Martin Nessman – Sigma Environmental Services, Inc. SER Case File #: 03-52-113803



SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route To: W

Watershed/Wastewater

Waste Management

<b>T</b>	/D	4 N I				11		<u></u>	/h	<u> </u>		_		Pa	ge 1	of	2	
Gol	den R	n Nan Ooks	e Puhlis	shing Site		ľ	icense.	Permit	Monito	oring N	umber		Boring	g Numt	er R-	8-1/MW-1		
Boring	Drilled	By:	Name of	f crew chief (first, last) a	ind Firm		- Date Dr	illing S	started		Da	te Drill	ing Co	mpleted		Dril	ling Method	
Ricl	c Filbi	andt											hollow stem			ollow stem		
Gestra							in al Ca	4/28	8/2005	; 			4/28/	2005		aı	Iger	
wittin	ique w PK	038	•	DINK WEILID NO.	Common Well Name	F	inal St	atic wa	ater Lev MSI	el	Suriac	e Eleva	tion et MS	T	В	orehole	Diameter	
Local	Grid Or	igin	(es	timated: 🔲 ) or Bo	ring Location $\square$			reet			<u> </u>	Local	Grid Lo	cation		0.5	menes	
State I	Plane		_	N,	E S/C/N		L	at	<u> </u>					ז 🗆	J		БЕ	
SE	l/4 of		SE	1/4 of Section 8,	<u>T 3 N, R 23 E</u>		Lor	g	<u> </u>	<u> </u>			Fee	t 🗆 S	\$		Feet 🛛 W	
Facility	μD			County		Cou	unty C	ode	Civil T	`own/C	ity/ or	Village						
Sam	nle		1	Kacine		32			Raci			1	Soil	Dron	ortios		<u> </u>	
				Soil/R	lock Description								501					
	tt. & d (ir	unts	Feet	And Ge	eologic Origin For							E E				i	eter	
ber 「ype	th A vere	Č	h In	Ead	ch Major Unit			S	hic	ram	QIE	lard	ture		city		rom	
Mun L but	Ceng	Blow	Dept					JS (	Jrap .og	Vell Diag	M	Stanc	Aois Conte	inii	lasti ndex	20(	ocke	
	12		-	Poorly graded GI	RAVEL base, little	sar	ıd		000				20					
AUGEL			E		-							1						
1	18	13							00		<1							
ss	6	10 8	E					GP										
$\wedge$		-	-2						°°C									
	12																	
AUGEL			-3						600	_				ĺ				
2	18	3	E	Poorly graded GI	RAVEL, little sand.	. fil	1.		P C	Ţ	<1							
ss 🛛	4	1	-4	wet	,,	,	-,		SUC									
Λ		•	E						°ÕC									
	12		-5															
AUGEL			E						0°C									
3	18	1	-6								6							
ss 🛛	10	1	F						00 C									
M		-	-7												-			
	12		-					GP	000									
AUGEI			-8															
4	18	1	E						000		34							
ss 🕅	8	1	E9												ľ			
M	ĺ	2	F						000									
H	12		-10						000									
AUGEI			F						00									
5	18	3	-11						000		74							
SS 12 7 E Brown SILTY CLAY with gravel								CI			,							
/ \		11	F-12						(/////							[		
I hereb	y certif	y that	the info	rmation on this form is t	rue and correct to the be	est o	f my k	nowled	lge.									
Signatu		1	111	Club	Firm KE	ΥI	ENGI	NEE	RING	GRO	UP, L	.TD.				Tel:	414-224-8300	
	00	119	NU	sumuer	735	<u>N. '</u>	WATE	R STR	EET S	UITE 1	000 N	filwa	UKEE,	WI 53	202	Fax:	414-224-8383	

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

## SOIL BORING LOG INFORMATION SUPPLEMENT Form 4400-122A

Sample Market Description Market Description Market Description And Cenologic Origin For Each Major Unit SS 2 12 2 SS 2 12 2	Boring Number	B-1/	/MW-1	Use only as	an attachmer	nt to Form 4400-	122.						Pa	ge 2	of	2
Autors 1/2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Sample			0.1175								Soil	Prop	erties		
Image: control in the set of the	er ype h Att. & ered (in)	Counts In Feet		Soil/Rock And Geolog Each M	Description gic Origin Foi laior Unit	r	s	jç.	m	QI	ard ation	ure nt		sity		t ometer
AUGT 12 <sup>6</sup> SS 18 <sup>12</sup> <sup>5</sup> S 14 <sup>13</sup> <sup>14</sup> <sup>15</sup>	Numb and T Lengt Recov	Blow Depth		Lacit IV.	lujor onn		usc	Graph Log	Well Diagra	PID/F	Standa	Moist	Limit	Plastic Index	P 200	Pocke Penetr
AUGT       12       5       13       CL          6 SS       12       5       14       15       CL          10       12       5       14       15       CL          11       15       End of soil boring at 15'             11       15       End of soil boring at 15'              11       15       End of soil boring at 15'              11       15       End of soil boring at 15'               11       15       End of soil boring at 15'               12       16       16       16       16       16       16       16       16         13       16       16       16       16       16 </td <td></td> <td>E</td> <td>Brown S</td> <td>ILTY CLA</td> <td>Y with gra</td> <td>vel</td> <td></td>		E	Brown S	ILTY CLA	Y with gra	vel										
58       18       5       14       -14       -15       -14         End of soil boring at 15'       -16       -16       -16       -16       -16         I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I       I       I       I         I	AUGER	-13														
End of soil boring at 15' End of soil borin	6 18 SS 12	5 E					CL			<1						
End of soil boring at 15'																
	4	-15		End of soil	boring at	15'										
						i										
							-									
															ł	

State of Wisconsin Department of Natural Resources		_	
Route To:	Watershed/Wastewater	Waste Management	MONITORING WELL CONSTRUCTIONForm 4400-113ARev. 7-98
Facility/Project Name	Local Grid Location of Well		Well Name
Golden Books Publishing Site	ft. □ S	ft. 🗋 W	MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin [] (estimat	ed:  ) or Well Location	Wis. Unique Well No. DNR Well Number
-	Lat	Long or	PK 938
Facility ID	St. Plane ft. N,	ft. E S/C/N	Date well installed
Type of Well	Section Location of Waste/Source	e XI E	04/28/2005 Well Installed By: (Person's Name and Firm)
Well Code 11/mw	<u>SE_1/4 of SE_1/4 of Sec.</u>	<u>8</u> , T. <u>3</u> N, R. <u>23</u>	South Schuch
Distance from Waste/ Enf. Stds.	Location of Well Relative to Was	te/Source Gov. Lot Number	Saran Schwab
Source ft. Apply	$d \square$ Downgradient $n \square$	Not Known	Key Engineering Group
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	🛛 Yes 🗆 No
B. Well casing, top elevation	ft. MSL	2. Protective cover p	oipe:
		a. Inside diameter	$\frac{12.0}{1.0}$ m.
C. Land surface elevation	IT. MSL	c. Material:	II. Steel ⊠ 0.4
D. Surface seal, bottom ft. MSL	or ft.		Other 🗆 🛄
12. USCS classification of soil near screen:	and the second	d. Additional prot	tection?
$\begin{array}{c c} GP \Box & GM \Box & GC \Box & GW \Box & SY \\ GV \Box & GQ & GW \Box & GV & GW & GW & GW & GW & GW & GW & GW$		If yes, describe	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3. Surface seal:	Bentonite $\boxtimes$ 30
13. Sieve analysis attached? $\Box$ Y	es □ No		Concrete [] 01
14 Drilling method used: Bota	ту П 50	4 Material between	well casing and protective nine:
Hollow Stem Aug	$r \boxtimes 41$		Bentonite $\boxtimes$ 30
Oth	er 🗆 🗌 👹		Other 🗖 🛄
		5. Annular space sea	al: a. Granular/Chipped Bentonite 🛛 3 3
15. Drilling fluid used: Water 0 2 A	ir □01	bLbs/gal n	nud weight Bentonite-sand slurry 🔲 35
Drilling Mud LI 0 3 Nor	ie ⊠99	cLbs/gal n	Bentonite slurry 3 1
16. Drilling additives used?	es 🛛 No	$d_{\cdot}$ d. $h_{\cdot}$ Benton	bite Bentonite-cement grout $\Box$ 50
		f How installed	$\frac{1}{2}$
Describe	🛛 🕅		Tremie pumped D 02
17. Source of water (attach analysis, if required	i):		Gravity 🗖 08
	🛛 🛛	6. Bentonite seal:	a. Bentonite granules 🔲 3 3
		b. □1/4 in. ⊠	$3/8$ in. $\Box 1/2$ in. Bentonite chips $\boxtimes 32$
E. Bentonite seal, top ft. MSL	or <u>1.0</u> ft. $\bigotimes$	C	h Manufacturer maduat name & mach size
	20 0.		lica Sand #5 Coarse 75 Lbs
r. rine sand, top It. MSL	or II.	h Volume added	f <sup>3</sup>
G. Filter pack, top ft. MSL	or <u>2.5</u> ft.	8. Filter pack materi	al: Manufacturer, product name & mesh size
		aN	latural Well Graded Gravel
H. Screen joint, top ft. MSL	or <u>4.0</u> ft.	b. Volume added	ft <sup>3</sup>
	14.0	9. Well casing:	Flush threaded PVC schedule 40
I. Well bottom ft. MSL	orft		Flush threaded PVC schedule $80 \boxtimes 24$
I Filter peak bettem ft MSI	or 15.0 e -		PVC
J. File pack, boltom II. MSE		a Screen Type:	Factory cut X 11
K. Borehole, bottom ft. MSL	or <u>15.0</u> ft.	a. Sereen Type.	Continuous slot $\Box$ 0 1
		<u> </u>	Other 🔲 🛄
L. Borehole, diameter <u>8.3</u> in.		b. Manufacturer	Buffalo Drilling Company
2.02		c. Slot size:	-0.010 in.
M. O.D. well casing $2.83$ in.		d. Slotted length:	$\frac{10.0}{\text{ft}}$
NLD well engine 2.00 to		II. Backfill material	UCIOW IIIEF pack): None 🖾 14
IN. I.D. Well casing $2.00$ in.			
I hereby certify that the information on this form	is true and correct to the best of t	ny knowledge.	

Signature Manoschwals Firm

Key Engineering Group, Ltd.

Tel: 414-224-8300 Fax: 414-224-8383

735 North Water Street Suite 1000 Milwaukee, Wisconsin 53202 Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin Department of Natural Resources MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route To: Watershed/	Wastewa	ter 🗌	Waste Management					
Remediatio	n/Redeve	lopment 🛛	Other 🗌					
Facility/Project Name		County		Well N	Vame			
Golden Books Publishing Site			Racine			M	W-1	
Facility License, Permit or Monitoring Number		County Code	Wis. Unique Well Nu	mber	nber DNR Well			
· · · · ·		52	РК 9	38				
1. Can this well be purged dry?		es 🖾 No		Before	Develo	pment	After De	velopment
			11. Depth to Water					
2. Well development method:			(from top of	a.	2.	91 ft.		2.93 ft.
surged with bailer and bailed		41	wen casing)					
surged with bailer and pumped		51						
surged with block and bailed		12	Date	b.	5/3/20	05	5	5/3/2005
surged with block and pumped		52						
surged with block, bailed, and pumped		70				⊠ a.	m.	🛛 a.m.
compressed air		2.0	Time	c.	10:	55 🗆 p.	.m.	11:15 🗆 p.m
bailed only		10						
pumped only	$\boxtimes$ :	51	12. Sediment in well			inches		inches
pumped slowly		50	bottom					
other	. 🗆 🗄		13. Water clarity	Clear			Clear 🖾	20
				Turbid	🖾 15		Turbid 🛛	2 5
3. Time spent developing well		20 min.		(Descril	be)		(Describe)	
		20 11		Verv	y Silty			
4. Depth of well (from top of well casing)		15.0 ft.					·	
5 Inside diameter of well		2 00 :-						
5. Inside diameter of wen		2.00 m.						
6. Volume of water in filter pack and well							<u> </u>	
casing		2.0 gal.						
			Fill in if drilling fluids	s were used	i and well	is at solid	d waste facil	itv:
7 Volume of water removed from well		15 0 ant	BB					
7. Volume of water removed from wen		15.0 gai.	14 Total suspended			ma/l		mg/l
8. Volume of water added (if any)		gal.	solids			11.61		mg 1
9. Source of water added			15. COD			mg/l		mg/l
			16. Well developed by	: Person's	Name and	Firm		
<ol> <li>Analysis performed on water added? (If yes, attach results)</li> </ol>	🗆 Ye	s 🗌 No						
17 Additional comments on doublements								

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Firm: _Golden Books Publishing	Signature: Salow Schwab
Street: 1220 Mound Ave.	Print Name: Sarah Schwab
City/State/Zip: Racine, WI 53404	Firm: Key Engineering Group, Ltd.

NOTE: See instructions for more information including a list of county codes and well type codes.

May 20, 2005

Client:	KEY ENGINEERING GROUP LTD	Work Order:	WOE0176
	735 N. Water Street Suite 1000	Project Name:	1501008 Golden Books
	Milwaukee, WI 53202	Project Number:	1501008 Golden Books Publishing
Attn:	Mr. Zoy Begos	Date Received:	05/04/05

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	<b>COLLECTION DATE AND TIME</b>
MW-1	WOE0176-01	05/03/05 11:15
Trip Blank	WOE0176-02	05/03/05
SW 8015 analysis performed at Lab ID: 99991727	70	
Samples were received into laboratory at a tempera	ture of 2 °C.	

Wisconsin Certification Number: 128053530, DATCP #266

Approved By:

tong Brian

**TestAmerica Analytical - Watertown** Brian DeJong For Dan F. Milewsky Project Manager

ANALYTICAL TESTING CORPORATION

Test America

602 Commerce Drive Watertown, WI 53094 \* 800-833-7036 \* Fax 920-261-8120

KEY ENGINEERING GROUP LTD 735 N. Water Street Suite 1000 Milwaukee, WI 53202 Mr. Zoy Begos

Work Order: Project:

WOE0176 1501008 Golden Books Project Number: 1501008 Golden Books Publish Sampled: 05/03/05 Received: 05/04/05

Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WOE0176-01 (MW	-1 - Ground '	Water)	·				Sampled: 05	5/03/05 11	:15	
UST ANALYSIS PARAMETERS						•				
Diesel	< 0.50		mg/L	0.50	0.50	1.05	05/10/05 15:12	jts	5050275	SW 8015
Gasoline	< 0.50		mg/L	0.50	0.50	1.05	05/10/05 15:12	jts	5050275	SW 8015
VOCs by SW8260B										
Benzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Bromobenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Bromochloromethane	< 0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
Bromodichloromethane	< 0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Bromoform	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Bromomethane	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
n-Butylbenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
sec-Butylbenzene	< 0.25		ug/L	0.25	0.83	1	05/12/05 02:15	mae	5050332	SW 8260B
tert-Butylbenzene	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Carbon Tetrachloride	< 0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
Chlorobenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Chlorodibromomethane	< 0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Chloroethane	<1.0		ug/L	1.0	33	1	05/12/05 02:15	mae	5050332	SW 8260B
Chloroform	<0.20		ug/L	0.20	0.67		05/12/05 02:15	mae	5050332	SW 8260B
Chloromethane	<0.20	C	ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
2-Chlorotoluene	<0.50	e	ug/L	0.50	17	1	05/12/05 02:15	mae	5050332	SW 8260B
A-Chlorotoluene	<0.20		119/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
1.2-Dibromo-3-chloropropage	<0.20		ug/L	0.20	17	1	05/12/05 02:15	mae	5050332	SW 8260D
1.2-Dibromoethane (FDB)	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260D
Dibromomethane	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260D
1.2-Dichlorobenzene	<0.20		ug/L 110/I	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 0200D
1.3-Dichlorobenzene	<0.20		ug/I	0.20	0.07	1	05/12/05 02:15	mae	5050332	SW 0200D
1.4-Dichlorobenzene	<0.20		110/I	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 0200D
Dichlorodifluoromethane	<0.20		ug/I	0.20	17	1	05/12/05 02:15	mae	5050332	SW 0200D
	<0.50		ug/L ug/I	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8200D
1,1-Dichloroethane	<0.30	C	ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8200D
1,2-Dichloroethene	<0.30	C	ug/L ug/I	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260D
r, 1-Dichloroethene	<0.50		ug/L	0.50	1.7	1	05/12/05 02.15	mac	5050332	SW 8200B
trong 1.2 Dichlorosthono	<0.30		ug/L	0.50	1.7	1	05/12/05 02:15	mac	5050332	SW 8260B
1.2 Dichleronronone	<0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mac	5050332	SW 8260B
1,2-Dichloropropane	< 0.50		ug/L	0.50	1./	1	05/12/05 02:15	mae	5050332	SW 8260B
1,3-Dichloropropane	< 0.23		ug/L	0.25	0.83	1	05/12/05 02:15	mae	5050332	SW 8260B
2,2-Dichloropropane	< 0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
I,I-Dichloropropene	< 0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
cis-1,3-Dichloropropene	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
trans-1,3-Dichloropropene	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Isopropyl Ether	<0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
Ethylbenzene	3.2	~	ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
Hexachlorobutadiene	<0.50	C4	ug/L	0.50	1.7	. 1	05/12/05 02:15	mae	5050332	SW 8260B
Isopropylbenzene	0.84		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
p-Isopropyltoluene	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	3.3	1	05/12/05 02:15	mae	5050332	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
Naphthalene	<0.25		ug/L	0.25	0.83	1	05/12/05 02:15	mae	5050332	SW 8260B
n-Propylbenzene	<0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B
Styrene	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
1,1,1,2-Tetrachloroethane	<0.25		ug/L	0.25	0.83	1	05/12/05 02:15	mae	5050332	SW 8260B
1,1,2,2-Tetrachloroethane	<0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B
Tetrachloroethene	< 0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B

Test/America

ANALYTICAL TESTING CORPORATION

2.0

108 %

602 Commerce Drive Watertown, WI 53094 \* 800-833-7036 \* Fax 920-261-8120

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05/12/05 02:15

05/12/05 02:15

05/12/05 02:15

mae

mae

mae

5050332

5050332

5050332

SW 8260B

SW 8260B

SW 8260B

KEY ENGINEERING GROUP LTD 735 N. Water Street Suite 1000			Work Order: Project:		WOE0176 1501008 Golden Books			Sampled: 05/03/05 Received: 05/04/05			
Milwaukee, WI 53202 Mr. Zoy Begos	•		Project Number:		1501008 Golden Books Publish			-			
Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method	
Sample ID: WOE0176-01 (MW-1 - Ground Water) - con						Sampled: 05/03/05 11:15					
VOCs by SW8260B - cont.											
Toluene	0.70		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B	
1,2,3-Trichlorobenzene	< 0.25		ug/L	0.25	0.83	1	05/12/05 02:15	mae	5050332	SW 8260B	
1,2,4-Trichlorobenzene	<0.25		ug/L	0.25	0.83	1	05/12/05 02:15	mae	5050332	SW 8260B	
1,1,1-Trichloroethane	<0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B	
1,1,2-Trichloroethane	<0.25		ug/L	0.25	0.83	1	05/12/05 02:15	mae	5050332	SW 8260B	
Trichloroethene	<0.20		ug/L	0.20	0.67	- 1	05/12/05 02:15	mae	5050332	SW 8260B	
Trichlorofluoromethane	< 0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B	
1,2,3-Trichloropropane	< 0.50		ug/L	0.50	1.7	1	05/12/05 02:15	mae	5050332	SW 8260B	
1.2.4-Trimethylbenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 02:15	mae	5050332	SW 8260B	

0.20

0.20

0.50

0.67

0.67

1.7

ug/L

ug/L

ug/L

1,3,5-Trimethylbenzene < 0.20 Vinyl chloride < 0.20 Xylenes, Total Surr: Dibromofluoromethane (89-119%) 104 % Surr: Toluene-d8 (91-109%) 104 %

Surr: 4-Bromofluorobenzene (89-114%)
Test Analytical testing corporation

602 Commerce Drive Watertown, WI 53094 \* 800-833-7036 \* Fax 920-261-8120

KEY ENGINEERING GROUP LTD 735 N. Water Street Suite 1000 Milwaukee, WI 53202 Mr. Zoy Begos Work Order:WOE0176Sampled:05/03/05Project:1501008 Golden BooksReceived:05/04/05Project Number:1501008 Golden Books Publish05/04/05

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WOE0176-01 Key (MW				Sampled: 0	5/03/05 11	1:15			
Sw-8015B Isopropanol - Aqueous	<1.4	MSO	mg/L	NA	1	05/17/05 23:59	jlc	'143	SW-8015B

Test America

ANALYTICAL TESTING CORPORATION

602 Commerce Drive Watertown, WI 53094 \* 800-833-7036 \* Fax 920-261-8120

**KEY ENGINEERING GROUP LTD** 735 N. Water Street Suite 1000 Milwaukee, WI 53202 Mr. Zoy Begos

Work Order: Project:

WOE0176 1501008 Golden Books Project Number: 1501008 Golden Books Publish

Sampled: 05/03/05 Received: 05/04/05

	Sample	Data				Dilution	Date		Seq/	
Analyte	Result	Qualifiers	Units	MDL	MRL	Factor	Analyzed	Analyst	Batch	Method
Sample ID: WOE0176-02 (Tri	ip Blank - Gro	und Water)					Sampled: 0	5/03/05		
VOCs by SW8260B										
Benzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Bromobenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Bromochloromethane	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
Bromodichloromethane	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Bromoform	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Bromomethane	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
n-Butylbenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
sec-Butylbenzene	< 0.25		ug/L	0.25	0.83	1	05/12/05 01:19	mae	5050332	SW 8260B
tert-Butylbenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Carbon Tetrachloride	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
Chlorobenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Chlorodibromomethane	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Chloroethane	<1.0		ug/L	1.0	3.3	1	05/12/05 01:19	mae	5050332	SW 8260B
Chloroform	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Chloromethane	< 0.20	C	ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
2-Chlorotoluene	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
4-Chlorotoluene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
1,2-Dibromo-3-chloropropane	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,2-Dibromoethane (EDB)	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Dibromomethane	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
1,2-Dichlorobenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
1,3-Dichlorobenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
1,4-Dichlorobenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Dichlorodifluoromethane	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,1-Dichloroethane	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,2-Dichloroethane	< 0.50	С	ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,1-Dichloroethene	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
cis-1.2-Dichloroethene	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
trans-1,2-Dichloroethene	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1.2-Dichloropropane	<0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,3-Dichloropropane	<0.25		ug/L	0.25	0.83	1	05/12/05 01:19	mae	5050332	SW 8260B
2,2-Dichloropropane	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,1-Dichloropropene	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
cis-1.3-Dichloropropene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
trans-1.3-Dichloropropene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Isopropyl Ether	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
Ethylbenzene	< 0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
Hexachlorobutadiene	<0.50	C4	ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
Isopropylbenzene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
n-lsopropyltoluene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Methylene Chloride	<1.0		ug/L	1.0	3.3	1	05/12/05 01:19	mae	5050332	SW 8260B
Methyl tert-Butyl Ether	<0.50		ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
Nanhthalene	<0.25		ug/L	0.25	0.83	1	05/12/05 01:19	mae	5050332	SW 8260B
n-Pronylbenzene	<0.50		ug/L	0.50	17	1	05/12/05 01:19	mae	5050332	SW 8260B
Styrene	<0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
1   1 2-Tetrachloroethane	<0.20		11g/L	0.25	0.83	1	05/12/05 01:19	mae	5050332	SW 8760D
1 1 2 2-Tetrachloroethane	<0.25		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Tetrachloroethene	<0.20 <0.50		110/I	0.20	17	1	05/12/05 01:19	mae	5050332	SW 9760D
Toluene	~0.30 0.77		110/I	0.50	0.67	1	05/12/05 01.19	mae	5050552	SW 8760D
1 2 3-Trichlorobenzene	<0.77 <0.75		ນອ/I	0.20	0.07	· 1	05/12/05 01.19	mae	5050332	SW 8760D
1.2.4 Trichlorobenzone	~0.23		ug/L uc/I	0.25	0.03	1	05/12/05 01:19	mae	5050332	SW 8200B
1,2,4-11101000012010	~0.23		ug/L	0.23	0.85	I	05/12/05 01:19	mac	3030332	SW 8200B

Test America

ANALYTICAL TESTING CORPORATION

602 Commerce Drive Watertown, WI 53094 \* 800-833-7036 \* Fax 920-261-8120

KEY ENGINEERING GROUP I 735 N. Water Street Suite 1000 Milwaukee, WI 53202 Mr. Zoy Begos	LTD		Work O Project: Project 1	rder: Number:	WOE01 1501008 1501008	76 8 Golden B 8 Golden B	ooks ooks Publisł	Sampled Received	: 05/03 1: 05/04	3/05 4/05
Analyte	Sample Result	Data Qualifiers	Units	MDL	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: WOE0176-02 (Trip B VOCs by SW8260B - cont.	ank - Gro	und Water)	- cont.	· .			Sampled: 0	5/03/05		
1,1,1-Trichloroethane	< 0.50	•	ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,1,2-Trichloroethane	< 0.25		ug/L	0.25	0.83	1	05/12/05 01:19	mae	5050332	SW 8260B
Trichloroethene	< 0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Trichlorofluoromethane	< 0.50	1997 - 1997 -	ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
1,2,3-Trichloropropane	< 0.50		ug/L	0.50	1.7	- 1	05/12/05 01:19	mae	5050332	SW 8260B
1,2,4-Trimethylbenzene	<0.20		ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B

1,3,5-Trimethylbenzene	<0.20	ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Vinyl chloride	<0.20	ug/L	0.20	0.67	1	05/12/05 01:19	mae	5050332	SW 8260B
Xylenes, Total	<0.50	ug/L	0.50	1.7	1	05/12/05 01:19	mae	5050332	SW 8260B
Surr: Dibromofluoromethane (89-119%)	104 %								
Surr: Toluene-d8 (91-109%)	105 %								
Surr: 4-Bromofluorobenzene (89-114%)	107 %	· ·							

**TestAmerica Analytical - Watertown** Brian DeJong For Dan F. Milewsky Project Manager



ANALYTICAL TESTING CORPORATION

\_\_\_\_\_

KEY ENGINEERING GROUP LTD 735 N. Water Street Suite 1000 Milwaukee, WI 53202 Mr. Zoy Begos 602 Commerce Drive Watertown, WI 53094 \* 800-833-7036 \* Fax 920-261-8120

Work Order:WOE0176Project:1501008 Golden BooksProject Number:1501008 Golden Books Publish

Sampled: 05/03/05 Received: 05/04/05

## SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
UST ANALYSIS PARAMETERS SW 8015	5050275	WOE0176-01	950	2	05/10/05 08:17	JTS	Default Prep GC-S



ANALYTICAL TESTING CORPORATION

602 Commerce Drive Watertown, WI 53094 \* 800-833-7036 \* Fax 920-261-8120

KEY ENGINEERING GROUP LTD 735 N. Water Street Suite 1000 Milwaukee, WI 53202 Mr. Zoy Begos Work Order:WOE0176Project:1501008 Golden BooksProject Number:1501008 Golden Books Publish

Sampled: 05/03/05 Received: 05/04/05

### **CERTIFICATION SUMMARY**

# TestAmerica Analytical - WatertownMethodMatrixWisconsin

SW 8015 Water - NonPotable SW 8260B Water - NonPotable

Х

#### Subcontracted Laboratories

TestAmerica Analytical - Cedar Falls NELAC Cert #000668, Wisconsin Cert #999917270

704 Enterprise Drive - Cedar Falls, IA 50613

Method Performed: SW-8015B

Samples: WOE0176-01 Key

TestAmerica Analytical - Cedar Falls NELAC Cert #000668, Wisconsin Cert #999917270

704 Enterprise Drive - Cedar Falls, IA 50613

Analysis Performed: 8015 Alcohols Samples: WOE0176-01

#### **DATA QUALIFIERS AND DEFINITIONS**

С	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
C4	Calibration Verification recovery was below the method control limit for this analyte.
M12	The MS and/or MSD were below the acceptance limits. See calibration verification (CCV)
MSO	MS AND/OR MSD OUT OF CONTROL

#### ADDITIONAL COMMENTS

**TestAmerica Analytical - Watertown** Brian DeJong For Dan F. Milewsky Project Manager

Test America ANALYTICAL TESTING CORPORATION	Watertown Division 602 Commerce Drive Watertown, WI 53094	Phone 920-261-1660 or 800-833-703 Fax 920-261-8120	5 To assist us in using is this work being or Compliance	the proper analytical methods, onducted for regulatory purposes?
Client Name Key Address: 73 City/State/Zip Code: Mill Project Manager: 70 Telephone Number: (410 Sampler Name: (Print Name) Scut Sampler Signature: 50	Engineerin 2 N. Natar Naukee, n y Bigos 1)224 830 ah Schwa uf Binwa	9 Client#: 2 St. 2	Project Name: 60 de Project #: 150 1 Site/Location ID: Rau Report To: 704 Invoice To: ( Quote #:	n Books fuldishing 008 ine state: W.F Begos
TAT         Standard         Rush (surcharges may apply)         Date Needed:            Fax Results:       Y         N         SAMPLE ID         MW         MW	Time Sampled G = Grab, C = Composite Field Filtered SL - Studge DW - Drinking Water Maximum Water S Sourcout	Preservation & # of Containers		QC Deliverables        None        Level 2         (Batch QC)        Level 3        Level 4         Other:            REMARKS         TPIH gps Wiesel
Special Instructions:	Detc: 305 Time: 30 S49.05 Time: Date: Time:	Received By: Received By: Received By:	5/4/05     I/.*00       Date:     Time:       Date:     Time:       Date:     Time:       Date:     Time:	ORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: tody Seals: Y N les Supplied by Test America: Y N nod of Shipment:

# State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES



James Doyle, Governor Scott Hassett, Secretary Gloria L. McCutcheon, Regional Director Southeast Region Sturtevant Service Center 9531 Rayne Road, Suite IV Sturtevant, Wisconsin 53177 Telephone 262-884-2300 FAX 262-884-2307 TDD 262-884-2304

September 18, 2003

Golden Book Publishing ATTN: Carol Rinelli 2825 4 Mile Road Racine, WI 53402

Subject: Request for Information for the Former Western Publishing, Golden Books Publishing site located at 1220 Mound Ave, Racine, WI FID 252005050, BRRTS 03-52-107113 (diesel and unleaded gasoline tanks) and 03-52-113803 (naptha and isopropyl tanks)

Dear Ms. Rinelli:

Please provide in writing to the Department the current status of the remedial actions for the above noted sites.

The Department has not received any information regarding these two sets of tanks since 1998. We have recently been contacted about this property that there is now a school located on this property and there have been some health concerns brought to the Department's attention.

If Golden Books Publishing is not the current owner of the property and/or not the party responsible for the completion of the remedial actions at these two tank locations please provide that information to the Department in writing within 15 days.

Due to the potential health concerns this is not something the Department can wait on and Enforcement Actions may be pursued.

If Golden Books Publishing will be continuing the remedial actions for these tanks sites please provide the most recent information to the Department within 15 days. The Department also requests that a map of the entire property identifying the location of both tank areas be provided.

Thank you for your assistance in this matter and we await your response. If you have questions please contact me at 262-884-2341.

Sincerely,

Shanna L Laube, P.G. Hydrogeologist

Cc: Sigma Environmental Services, 220 E. Ryan Road, Oak Creek, WI 53154 Saji Villoth, DNR Air Management Program, Milwaukee Headquarters Southeast Region



#### Laube, Shanna L

From: Sent: To: Cc: Subject: Laube, Shanna L Thursday, September 18, 2003 10:47 AM Villoth, Saji T.; Singh, Ashok K Hambrook, Lauren J; Schramm, Daniel H RE: western publishing co/21st century prep school

Saji,

Based upon the information we have in the two files for this property the following information is what I found.

1. One 6000 gallon Naptha tank and one 3000 gallon Isopropyl tank removed November 1996.

2. Soil around these tanks was noted to be saturated, consultant did not state if it was product or water, this soil was placed back in the excavation after the tanks were removed and also not sampled.

3. Consultant states no utility lines within 30 feet of the tanks. I can not verify that at this time.

4. May 1996 one 10,000 gallon diesel and one 10,000 gallon unleaded gasoline tanks were removed from the property. (We had two different consultants working on the two different tank areas so the maps don't match up to be able to compare where they were in relation to each other)

5. Monitoring wells were installed for the Petroleum tank investigation and groundwater was noted anywhere from 3 to 16 feet below ground surface.

6. I will send the site contact a letter requesting additional information regarding both sets of tanks as well as current groundwater information and any additional actions taken on this site.

7. Based upon what the complaints you have received are stating I would ask the following questions:

a. Is there a concrete or blacktop cap on this area of the property? Is this an area with high walls around that would limit air flow? Kind of strange that this is occurring outside that is why I ask.

b. Has the County Health Department been contacted? This seems like something they should be notified of if there really are children passing out and getting sick.

c. Where on the property is this alleged area where children are getting sick located? If the complaint reporter could provide a map including the location of both buildings that would be helpful.

d. Is there a natural gas line that may be near this area that possibly does have a leak occurring and if so has the gas company been notified?

I hope this helps. I can send you copies of the maps I have from the two different reports if you need them. I will keep you updated on what kind of response I receive to my letters. If there is anything else you need from this program please let me know. I will keep the files on my desk until I hear back from the responsible party regarding the situation at this property. Please keep me updated with any additional information you receive as well. I highly suggest having the caller contact at a minimum the County Health Department and they may be able to go out there and do some vapor readings. If they won't then the State Department of Health should be notified of this situation.

Original M	essage
From:	Villoth, Saji T.
Sent:	Thursday, September 18, 2003 10:07 AM
То:	Singh, Ashok K
Cc:	Hambrook, Lauren J; Schramm, Daniel H; Laube, Shanna L
Subject:	RE: western publishing co/21st century prep school

I talked to Shanna, and she'll pull the file for me. I have told her I would remain the point person for this complaint for now, as the caller requested. But if non-asbestos related follow up is required, I'll pass it on. Thanks.

 ----Original Message--- 

 From:
 Singh, Ashok K

 Sent:
 Thursday, September 18, 2003 9:59 AM

 To:
 Villoth, Saji T.

 Cc:
 Hambrook, Lauren J; Schramm, Daniel H; Laube, Shanna L

 Subject:
 FW: western publishing co/21st century prep school

#### Saji Hi:

I have not received any complaint so far, regarding gas leaks, lead or sandblasting at this site, nor have received any complaints that the kids are passing out from medically unexplained causes at this school. However, I spoke with Shanna Laube (phone 262-884-2341) of R & R Div., and she told me that the site had non petroleum contamination in the past and the last report they received was in 1998. The site is not closed as of today. If you need further detail, you may like to call Shanna. Regarding SCJ grant to the school, I don't know anything about it. Thanks.

Ashok ----Original Message-----From: Villoth, Saji T. Sent: Thursday, September 18, 2003 9:11 AM To: Singh, Ashok K Subject: western publishing co/21st century prep school

#### Ashok,

i received a call from a parent of a student at the 21st Century Preparatory School, 1220 Mound Ave., Racine. The call mainly deals with natural gas odors/fumes, gas leaks, lead, possible sandblasting, kids passing out from 'medically unexplained" causes, etc. The site was the former Western Publishing Co. Were there any soil contamination, building contamination issues recorded at this place? Marv patton said you'd be the person to ask; if not let me know whom to go to. Thanks.

Also, the school was given a \$8 mil grant from SC Johnson, and two SCJ employees sit on the board.

🛃 Saji Villoth

Regional Asbestos SpecialistSoutheast RegionWisconsin Department of Natural Resources(27) phone:(28) fax:(414) 263-8490(27) fax:(414) 263-8716(28) e-mail:saji.villoth@dnr.state.wi.us



# State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Gloria L. McCutcheon, Regional Director Southeast Regional Headquarters 2300 N. Dr. ML King Drive, PO Box 12436 Milwaukee, Wisconsin 53212-0436 Telephone 414-263-8500 FAX 414-263-8606 TDD 414-263-8713

> FID #: 252005050 County of Racine

June 16, 1999

Ms. Carol Rinelli Western Publishing 1220 Mound Avenue Racine, WI 53404

#### SUBJECT: Request for Site Closure – Golden Books Publishing 1220 Mound Avenue, Racine, WI. BRRTS#: 03-52-113803

Dear Ms. Rinelli:

The Wisconsin Department of Natural Resources (the Department) has completed the review of the above-named site for a determination as to whether or not the case qualified for close out under ch. NR 726, Wisconsin Administrative Code.

Based on the information submitted to the Department, soil contamination was discovered during closure of the former two USTs (one 3,000 gal. naphta and one 6,000 gal. isopropyl alcohol). A remedial investigation, consisting of installation of six geoprobes, indicated that soil contamination was confined within the USTs' backfill. Groundwater was encountered at six feet below ground surface (within the backfill), but the quality was not evaluated. To complete our review of this site for closure, we request that you: a) estimate the volume of soil contamination above the NR 720 table values that still remain in-place at the site; b) define the degree and extent of the groundwater contamination and evaluate the quality. We will re-evaluate the site for closure, when we receive your next submittal.

The Department appreciates the efforts you are taking to restore the environment at this site. If you have any questions, please call me at (414) 263-8639.

Sincerely,

Amadi

Eric Amadi Hydrogeologist

C: Martin Nessman – Sigma Environmental Services, Inc. SER Case File #: 03-52-113803



## Laube, Shanna L

From:	Laube, Shanna L
Sent:	Thursday, September 18, 2003 10:47 AM
To:	Villoth, Saji T.; Singh, Ashok K
Cc:	Hambrook, Lauren J; Schramm, Daniel H
Subject:	RE: western publishing co/21st century prep school

Saji,

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 -----Original Message---- 

 From:
 Villoth, Saji T.

 Sent:
 Thursday, September 18, 2003 10:07 AM

 To:
 Singh, Ashok K

 Cc:
 Hambrook, Lauren J; Schramm, Daniel H; Laube, Shanna L

 Subject:
 RE: western publishing co/21st century prep school

I talked to Shanna, and she'll pull the file for me. I have told her I would remain the point person for this complaint for now, as the caller requested. But if non-asbestos related follow up is required, I'll pass it on. Thanks.

----Original Message----From: Singh, Ashok K
Sent: Thursday, September 18, 2003 9:59 AM
To: Villoth, Saji T.
Cc: Hambrook, Lauren J; Schramm, Daniel H; Laube, Shanna L
Subject: FW: western publishing co/21st century prep school

#### Saji Hi:

I have not received any complaint so far, regarding gas leaks, lead or sandblasting at this site, nor have received any complaints that the kids are passing out from medically unexplained causes at this school. However, I spoke with Shanna Laube (phone 262-884-2341) of R & R Div., and she told me that the site had non petroleum contamination in the past and the last report they received was in 1998. The site is not closed as of today. If you need further detail, you may like to call Shanna. Regarding SCJ grant to the school, I don't know anything about it. Thanks.

Ashok ----Original Message-----From: Villoth, Saji T. Sent: Thursday, September 18, 2003 9:11 AM To: Singh, Ashok K Subject: western publishing co/21st century prep school

#### Ashok,

i received a call from a parent of a student at the 21st Century Preparatory School, 1220 Mound Ave., Racine. The call mainly deals with natural gas odors/fumes, gas leaks, lead, possible sandblasting, kids passing out from 'medically unexplained'' causes, etc. The site was the former Western Publishing Co. Were there any soil contamination, building contamination issues recorded at this place? Marv patton said you'd be the person to ask; if not let me know whom to go to. Thanks.

Also, the school was given a \$8 mil grant from SC Johnson, and two SCJ employees sit on the board.

🚔 Saji Villoth

Regional Asbestos SpecialistSoutheast RegionWisconsin Department of Natural Resources(3) phone:(414) 263-8490(3) fax:(414) 263-8716(3) e-mail:saji.villoth@dnr.state.wi.us

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Letter of Transmittal

To: Wisconsin Dept. Of Natural Resources Southeast Region - Headquarters Office P.O. Box 12436 2300 N. Dr. Martin Luther King, Jr. Drive Milwaukee, WI 53212 Attn: Remediation and Redevelopment Program

Please check the type(s) of documents you have enclosed. Submittals will be tracked and filed based on the information you provide. Be sure to

include the FID and BRRTS numbers which have been assigned to the site, and identify the Intent of the document(s) you are submitting in order to speed processing.

From: Name Martin D. Nessman

252005050

GE

Phone

Date

FID #

**BRRTS** #

Address 220 E. Rvan Road

03-52-113803

**Company Sigma Environmental Services** 

414/768-7144

June 12, 1998

Site Name Golden Books Publishing

Site Address 1220 Mound Avenue

Racine, Wisconsin

Oak Creek, WI 53154

\_X\_LUST \_\_\_\_ ERP \_\_\_\_ Spill \_\_\_\_ ACT 453 Purchaser Liability \_\_\_\_ Act 453 Municipal

	Check	PURPOSE OF DOCUMENT/REPORT:	
		Notification of Release	
		Tank Closure / Site Assessment where release(s) have been detected*	
		Site Investigation Work Plan	
	∧ x	Site Investigation Report	
100	2	Groundwater Impacts	
Ner	~ = /	X No Groundwater Impact	
		Off-Site Determination Request	
		Remedial Action Plan	
		Site Specific Clean-Up Goal Proposal	
		NR 718 Landspreading Request	
		Copy of Notification to Treat or Dispose of Contaminated Soil or Water	N
		Injection / Infiltration Request	HU I
		Quarterly Report / Update	
		O&M Form 4400-194	
		Remedial Action Report	
~	х	Closure Review Request	
L	X	Simple Site Closure Report using NR 700.11 process	
de		Copy of Draft Deed Affadavit or Restriction required for close-out	
		Well Abandonment Form	
		PECFA Form 4B (For completed remediation only)	
		Other: (please describe):	

\* Clean Closures should be sent directly to the DNR Remediation and Redevelopment Program, P.O. Box 7921, Madison, WI 53707 Attn: Julie Weber

Remarks: \_\_\_\_

out



220 East Ryan Road Oak Creek, WI 53154-4533 414-768-7144 FAX: 414-768-7158 Project Reference **#3712** WDNR LUST **#03-52-107113** WDNR FID **#252005050** 

Mr. Michael Farley, Program Assistant Wisconsin Dept. Of Natural Resources Southeast Region - Headquarters Office P.O. Box 12436 2300 N. Dr. Martin Luther King, Jr. Drive Milwaukee, WI 53212

Re: Remedial Investigation Golden Books Publishing 1220 Mound Avenue Racine, Wisconsin

Dear Mr. Farley:

Enclosed please find for your review the report titled, A Report of a Remedial Investigation for Golden Books Publishing, 1220 Mound Avenue, Racine, Wisconsin.

If you have any questions or comments, please do not hesitate to call me at (414) 768-7144.

Respectfully submitted,

SIGMA ENVIRONMENTAL SERVICES, INC.

Martin D. Nessman Staff Hydrogeologist

Enclosure

cc: Ms. Carol Rinelli, Western Publishing
 Mr. Roman Chojnacki, Western Publishing
 Mr. David Crass, Michael Best and Friedreich

# A REPORT OF A REMEDIAL INVESTIGATION FOR GOLDEN BOOKS PUBLISHING 1220 MOUND AVENUE RACINE, WISCONSIN WDNR LUST ID #03-52-113803 WDNR FID#252005050

# PREPARED FOR: GOLDEN BOOKS PUBLISHING COMPANY, INC. RACINE, WISCONSIN

PREPARED BY: SIGMA ENVIRONMENTAL SERVICES, INC. 220 EAST RYAN ROAD OAK CREEK, WISCONSIN 53154 (414) 768-7144

**PROJECT REFERENCE #3646** 

**JUNE 1998** 

Martin D. Nessman Staff Hydrogeologist

Car/ 

Randy E. Boness, P.G. Senior Project Scientist

Gary E. Genteman, P.G. Senior Hydrogeologist

#### CERTIFICATIONS

"I,Gary E. Genteman, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Signature and title



"I, Martin D. Nessman, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

-STaff Hydrogedog. It Date

Signature and title

"I, Randy E. Boness, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Signature and title

13-12-98

Date

#### EXECUTIVE SUMMARY

Golden Books Publishing Company (Golden Books) retained Sigma Environmental Services, Inc. (Sigma) of Oak Creek, Wisconsin to conduct a remedial investigation at Golden Books located at 1220 Mound Avenue, Racine, Wisconsin.

The investigation was conducted in response to a release discovered during the removal of one 3,000 gallon Naphtha underground storage tank (UST) and one 6,000 gallon Isopropyl Alcohol UST in November 1996. The Naphtha and Isopropyl Alcohol USTs were installed in 1986. The backfill material around the USTs consisted of pea gravel with some sand. Native soil was found to be a clayey silt. Depth to groundwater in adjacent native material was interpreted to be greater than 15 feet bgs. Perched water was encountered within the excavation at six feet below ground surface (bgs). Based on the laboratory analytical results, Naphtha , Ethylbenzene, Xylenes, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Isopropylbenzene, n-Propylbenzene and Naphthalene were detected in a soil sample from the sidewall of the excavation.

The release was reported to the Wisconsin Department of Natural Resources (WDNR), which designated Golden Books as the Responsible Party in a letter dated December 18, 1996. The purpose of the investigation was to 1) define the extent of soil impacts at the site and determine if groundwater is impacted, 2) satisfy the requirements of Wisconsin Administrative Code NR 716.05, and 3) generate the data necessary to evaluate viable remedial alternatives for the site, if necessary.

Beginning on June 4, 1997, Sigma conducted remedial investigation activities at the Golden Books site. A total of six Geoprobe borings were advanced to depths ranging from 11 to 15 feet below ground surface (bgs). Two borings were completed through the former UST locations and four borings were completed to the northwest, northeast, southwest and southeast of the UST locations. A total of six soil samples were submitted for laboratory analysis of Isopropyl Alcohol, Naphtha, Diesel Range Organics (DRO), and Volatile Organic Compounds (VOC).

Native sediment at the site consisted of silty clay from the surface to approximately five feet bgs overlying a hard clay with trace gravel to at least 15 feet bgs. Based

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on the laboratory results, soil impacts identified during the tank closure assessment are limited to the former UST area. Therefore, Sigma recommends that the site be granted case closure by the Wisconsin Department of Natural Resources.

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- C. Borehole Abandonment Forms (WDNR Form 3300-5B)
- D. Soil Laboratory Reports and Chain-of-Custody Forms

#### 1. INTRODUCTION

Golden Books Publishing Company, Inc. (Golden Books) retained Sigma Environmental Services, Inc. (Sigma) of Oak Creek, Wisconsin to conduct a remedial investigation at the Golden Books site located in the Northwest ¼ of the Southwest ¼ of Section 9, Township 3 North, Range 23 East, City of Racine, County of Racine, State of Wisconsin (Figure 1). The site address is 1220 Mound Avenue, Racine, Wisconsin.

#### 1.1 <u>General Discussion.</u>

On November 25, 1996, Sigma performed a site assessment for the removal of one 6,000 gallon Isopropyl Alcohol underground storage tank (UST) and one 3,000 gallon Naphtha UST. The backfill material around the USTs consisted of pea gravel with some sand; native soil consisted of a clayey silt unit. Perched water was encountered within the backfill material in the excavation at six feet below ground surface (bgs). Depth to groundwater in the adjacent native material was interpreted to be greater than 15 feet bgs.

A total of three soil samples were collected during the excavation activities and field screened using a photoionization detector (PID). The soil sample with the highest PID reading (1B), was submitted for analysis of Naptha, Isopropyl Alcohol and VOCs. Based on the laboratory analytical results, Naphtha, Ethylbenzene, Xylenes, Trimethylbenzene, Isopropylbenzene, and Napthalene were detected in a soil sample from the sidewall of the excavation and a release was reported by Golden Books to the Wisconsin Department of Natural Resources (WDNR). A Responsible Party letter from the WDNR to Golden Books, dated December 18, 1996, designated Golden Books as the responsible party (Reference 1). A copy of the Underground Storage Tank Closure Assessment report is included as Appendix A.

The Naphtha and Isopropyl Alcohol USTs were installed in 1986, replacing former USTs used to store Naphtha, Isopropyl Alcohol and Kerosene. The USTs were used to store virgin product and were located on the northwest corner of the building (Figure 2).

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Fluid Management Inc., supervised the removal of one 10,000 gallon diesel and one 10,000 gallon gasoline underground storage tank (UST) and associated piping and dispenser system from the east side of the same building in May 1996. During removal, a petroleum release was confirmed and the site was reported to the WDNR. In 1997, Sigma conducted a remedial investigation of the gasoline and diesel USTs. Sigma's investigation is detailed in a report titled, "Remedial Investigation and Remedial Alternatives Analysis for the Hydrocarbon UST Area, Golden Books Publishing, 1220 Mound Avenue, Racine, Wisconsin". Information collected during the investigation of the Hydrocarbon UST area was used during the Naphtha and Isopropyl Alcohol investigation.

1.2 <u>Scope of Work.</u> The purpose of the Naphtha and Isopropyl Alcohol UST investigation was to 1) define the extent of soil impacts at the site and determine if groundwater was impacted, 2) satisfy the requirements of Wisconsin Administrative Code NR 716.05, and 3) generate the data necessary to evaluate viable Remedial Actions for the site, if necessary.

The following activities were completed relevant to the remedial investigation at Golden Books:

- On June 4, 1997, Sigma supervised the drilling of six Geoprobe borings (GP-10 through GP-15) in the former Naphtha and Isopropyl Alcohol UST areas.
- Geoprobe soil samples were collected from below and outside the former UST basin to confirm the presence of Naphtha impacts. A total of six soil samples were submitted for laboratory analysis of DRO, VOCs, Naphtha and Isopropyl Alcohol.
- Conducted a utility review and site inspection to identify potential receptors.
- Evaluated data and developed this remedial investigation report.

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**1.3 Project Team.** The following firms and contractors provided services during the remedial investigation completed at Golden Books:

Environmental Consulting Firm:

Sigma Environmental Services, Inc. 220 East Ryan Road Oak Creek, Wisconsin 53154 Telephone: (414) 768-7144

Laboratory Services:

U.S. Analytical Laboratory 1090 Kennedy Avenue Kimberly, WI 54136 Telephone (920) 735-8295 State of Wisconsin Certification #445027660

#### **Drilling Services:**

Sigma Environmental Services, Inc. 220 East Ryan Road Oak Creek, Wisconsin 53154 Telephone: (414) 768-7144

## 2. BACKGROUND INFORMATION

## 2.1 <u>Site Description.</u>

- 2.1.1 <u>Land Use.</u> Golden Books Publishing facility is bordered by residential and commercial property to the east and north, by the Root River to the southeast, and a railroad corridor to the west.
- 2.1.2 <u>Utility Review.</u> Information regarding the underground utilities was obtained by contacting "Diggers Hotline", review of construction blueprints, and site visits by Sigma personnel. Based on this information, there are no utilities located within 30 feet of the former Naphtha and Isopropyl Alcohol USTs.
- 2.1.3 <u>Surface Drainage.</u> The site is at an elevation of approximately 620 feet above mean sea level (M.S.L.). The area is characterized by moderately flat topography. Surface drainage at the study area follows topography towards the storm sewer catch basins within Liberty Street to the northeast.

#### 2.2 Physiographic Setting.

2.2.1 <u>Regional Geology.</u> The regional geology in the vicinity of the site consists of Quaternary glacial deposits which are typically present throughout southeastern Wisconsin. Soil types associated with the glacial deposits are a mixture of unstratified clay, silt, sand, gravel, and cobbles. Unconsolidated glacial material extends to approximately 100 to 340 feet below ground surface.

Beneath the layer of Quaternary glacial deposits is bedrock of various lithologies. From oldest to youngest, the general bedrock types consist of undifferentiated Pre-Cambrian crystalline bedrock, Cambrian sandstones, Ordovician dolomites, sandstones, and shales, Silurian dolomites, and Devonian dolomites. The Silurian and Devonian dolomites tend to contain complex horizontal and vertical fracture networks.

2.2.2 <u>Regional Hydrogeology.</u> The natural drainage within the area of investigation is generally toward rivers, streams, and lakes that eventually empty into Lake Michigan.

Racine county lies within the physiographic area known as the Lake Michigan Basin. Groundwater within the Lake Michigan Basin is abundant with its major source of recharge contribution through precipitation. Groundwater in the basin moves within two systems, the shallow water table system, which consists of the consolidated Quaternary glacial drift deposits and dolomite bedrock, and the deep artisan groundwater system which consists of water bearing sandstones.

Two shallow aquifers are generally present within the shallow water table system (i.e., within the unconsolidated glacial deposits and Silurian-age dolomite). Groundwater in those systems typically flows toward nearby rivers, streams, and lakes. The deeper aquifer consists of Ordovician and Cambrian-age sandstones and is separated from the upper shallow aquifers by the relatively impermeable Maquoketa Shale. Groundwater in the deep artisan system flows from the west along flow paths toward Lake Michigan. The deep artisan system is confined beneath the Maquoketa Shale Sequence and is, therefore, classified as a confined aquifer. Available hydrogeologic information indicates that regional groundwater flow is towards the east, ultimately discharging to Lake Michigan. It should be noted that local geologic heterogeneities may cause groundwater flow direction to differ at the site from the regional flow direction (Reference 2).

2.2.3 <u>Potential Receptors.</u> Based on the utility review, a site inspection, and data gathered during the remedial investigation, there are no potential receptors within 30 feet of the former USTs.

## 3. INVESTIGATIVE ACTIVITIES

- 3.1 <u>Geoprobe Borings.</u> A total of six Geoprobe borings were advanced to depths ranging from 11 to 15 feet below ground surface (bgs). Geoprobe Borings GP-10 and GP-11 were advanced within the former UST excavation, and Geoprobe Borings GP-12 through GP-15 were advanced outside of the former UST excavation to the northeast, northwest, southeast and southwest. The boring locations are depicted on Figure 2. Soil samples were collected from each boring and classified in accordance with the Unified Soil Classification System (USCS), and screened in the field using a PID. The grain size, moisture content, plasticity, and color were described on boring logs. At the completion of sampling activities each Geoprobe soil boring was abandoned with bentonite. The soil classification and field screening results are recorded on WDNR Soil Boring Logs (WDNR Form 4400-122), which are presented in Appendix B. Borehole Abandonment Forms are presented in Appendix C.
- 3.2 <u>Soil Sampling.</u> One sample from each boring was submitted for laboratory analysis to define the lateral and vertical extent of Naphtha and Isopropyl Alcohol affected soil. Two soil samples were submitted from below the former UST excavation and four soil samples were submitted at approximately the same depth as sample 1B, which was collected during the site assessment. Geoprobe soil samples from borings GP-10 through GP-15 were submitted under Chain-of-Custody to U.S. Oil Laboratory for analysis of WDNR Method Diesel Range Organics (DRO), EPA Method 8020 Volatile Organic Compounds (VOC), EPA Method 8015A Isopropyl Alcohol, and WDNR method Naphtha. DRO was included due to the past use of a Kerosene UST in the same excavation.

#### 4. INVESTIGATIVE RESULTS

#### 4.1 <u>Physical Conditions.</u>

4.1.1 <u>Site Geology</u>. The site soils consisted of silty clay from the surface to approximately five feet bgs overlying a mottled hard clay with trace

gravel to at least 15 feet bgs. The UST excavation was backfilled with sand and gravel fill to a depth of eleven feet bgs. The fill material within the UST excavation was saturated, however, based on field observations, the clay soil beneath the fill was not. The geology encountered in this area was consistent with the clay soils encountered during Sigma's investigation of the Diesel and Gasoline UST area, which is located approximately 500 feet southeast of this area.

4.1.2 <u>Site Hydrogeology</u>. Based on the investigation in the Gasoline/Diesel UST area, and on the consistent nature of the identified subsurface materials in each area, it is interpreted that water is being retained in the sand and gravel backfill in the former Naphtha and Isopropyl Alcohol UST area. Based on static water level measurements in the former Gasoline/Diesel UST area groundwater is approximately 18 feet bgs, and groundwater flow direction is likely to the north-northwest.

#### 4.2 Laboratory Results.

- 4.2.1 <u>Soil.</u> PID field screening results ranged between 0 instrument units (iui) and 18.3 iui. The soil samples with the highest PID reading were submitted for laboratory analysis. Based on the laboratory analytical results, DRO, Naphtha and Isopropyl Alcohol were not detected above the laboratory limit of quantification in the soil samples collected during the Geoprobe investigation. Naphthalene was detected in Geoprobe Borings GP-10 and GP-11, below the WDNRs suggested generic residual contaminant levels for PAHs in soil, at 50  $\mu$ g/kg and 90  $\mu$ g/kg, respectively. No other VOCs were detected above the laboratory detection limit. Soil laboratory analytical results are summarized in Table 1 and depicted on Figure 3. A copy of the Laboratory Reports and Chain-of-Custody Forms are presented as Appendix D.
- 4.2.2 <u>Groundwater.</u> Water was noted in the former tank excavation backfill. However, based on the soil moisture content noted during sampling, the groundwater table was not encountered during the Geoprobe investigation.

#### 4.3 <u>Subsurface Biological Activity.</u>

One soil feasibility sample was submitted from the Gasoline/Diesel UST area for hydrocarbon degrading and heterotrophic bacterial plate count analysis and nutrient panel analysis. The sample was collected from the dispenser area which had the highest concentration of petroleum hydrocarbons. Based on the similarity in geologic conditions at each area of investigation, subsurface biological activity is assumed to be similar as well. Based on the results of the biological analysis performed at the hydrocarbon UST area, microbial populations in the subsurface are sufficient for aerobic biodegradation of hydrocarbon related constituents to occur. The carbon to nitrogen and carbon to phosphorus ratios estimated from one soil sample are greater that the WDNR suggested optimum levels (40 and 120, respectively) which is indicative of limited nutrient availability in the subsurface.

#### 5. **PROJECT CONCLUSIONS**

The following project conclusions are based on data obtained during remedial investigative activities at Golden Books:

- Native sediment at the site consisted of silty clay from the surface to approximately five feet bgs, overlying a hard clay with some gravel to at least 15 feet bgs.
- Based on laboratory analysis, DRO, Naphtha and Isopropyl Alcohol were not detected above the laboratory limit of quantification in the soil samples collected during the Geoprobe investigation from beneath the former UST excavation and outside of the UST excavation. Naphthalene was detected below the WDNRs proposed RCLs in two soil samples. However, no other VOCs were detected above the laboratory limit of quantification.
- Microbial populations in the subsurface at the Golden Books site are likely sufficient for aerobic biodegradation to occur and address the identified residual impacts.

#### 6. **RECOMMENDATION**

Based on the results of Sigma's investigation, soil impacts are limited in extent. Therefore, Sigma recommends that no further action be taken and that the site be granted case closure by the Wisconsin Department of Natural Resources.

#### 7. LIMITATIONS OF INVESTIGATION

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete or extensive assessment and evaluation.

Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

The interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentrations of certain chemical constituents in samples taken from the subject property. Sigma has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising therefrom.

A subsurface exploration was performed and presented in this report. However, subsurface exploration cannot totally reveal what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

This report is issued with the understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

#### 8. **REFERENCES**

1. WDNR Letter to Golden Books dated December 18, 1996.

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<sup>©</sup> Copyright Sigma Environmental Services, Inc.

TABLE 1										
SOIL QUALITY										
GOLDEN B	GOLDEN BOOKS - NAPTHA AND ISOPROPYL ALCOHOL UST AREA									
		1220	Mound A	Venue						
		Rac	ine, Wisc	onsin						
	UNITS	GP-10	GP-11	GP-12	GP-13	GP-14	GP-15	NR720		
Depth	feet bgs	11-13	11-13	5-7	5-7	5-7	5-7			
PID	iui	16.2	13	3	1.1	2	4.5	NS		
DRO	mg/kg	<10	<10	<10	<10	<10	<10	100		
Isopropyl Alcohol	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS		
Naptha	mg/kg	<10	<10	<10	<10	<10_	<10	NS_		
VOCs										
Benzene	µg/kg	<25	<25	<25	<25	<25	<25	5.5		
Toluene	<i>µ</i> g/kg	<25	<25	<25	<25	<25	<25	1,500		
Ethylbenzene $\mu$ g/kg <25 <25 <25 <25 <25 <25 <25 <25 <25 <25							2,900			
Xylenes	µg/kg	<75	<75	<75	<75	<75	<75	4,100		
Methyl-tert-butyl ether	µg/kg	<25	<25	<25	<25	<25	<25	NS		
1,2,4-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
1,3,5-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
Isopropylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
n-Propylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	NS		
Naphthalene	µg/kg_	50	90	<25_	<25_	<25_	<25	NS		
Key:										
	PID	= Photoi	nization D	etector						
	DRO	= Diesel	Range Or	rganics						
	bgs	= below	ground su	Irface						
	iui	= Instrur	nent units							
	mg/kg	= milligrams per kilogram								
	µg/kg	= microg	rams per	kilogram						
	NS	= No Sta	andard							
	NR720	= Chapte	er NR720	Soil Resid	iual Conta	aminant Le	evel			
		- <u></u>								







# APPENDIX A

# **UST CLOSURE ASSESSMENT REPORT**

AN UNDERGROUND STORAGE TANK A CLOSURE ASSESSMENT FOR A NAPHTHA AND ISOPROPYL ALCOHOL UNDERGROUND STORAGE TANKS AT GOLDEN BOOKS

•

PREPARED FOR: GOLDEN BOOKS 1220 MOUND STREET RACINE, WISCONSIN 53404

PREPARED BY: SIGMA ENVIRONMENTAL SERVICES INC. 220 EAST RYAN ROAD OAK CREEK, WI 53154

**PROJECT REFERENCE #3646** 

JANUARY 1997

### A SITE ASSESSMENT REPORT

#### UNDERGROUND STORAGE TANK SYSTEMS

1)	Site Address	Golden Books	Site Assessor <u>Timothy Wimmer</u>		
		1220 Mound Avenue	Site Assessor Cert. # _0056		
		Racine, WI 53404	Site Assessor Address: _ <u>Sigma Environmental Services, Inc.</u>		
			220 East Ryan Road		
			Oak Creek, WI_53154		
	Mailing Addres	ss <u>Same</u>			
		<u></u>	Telephone #		
			Sigma Project # <u>3646</u>		
			Date November 25, 1996		
	Contact	Carol Rinelli			
	Telephone #	414/631-1907			

2) Site Assessment Objective

To remove one 6,000 gallon Isopropyl Alcohol UST and one 3,000 gallon Naphtha UST. Soil samples will be collected beneath each underground spill containment tank in accordance with UST closure codes and guidelines. Soil samples will be submitted to U.S. Oil Laboratory for analysis of Isopropyl Alcohol and Naphtha, both of which will have calibration standards performed.

#### 3) Description of site features (i.e., building locations, tank location, utility location).

The two tanks removed were installed in 1986, replacing former USTs used to store Naphtha, Isopropyl Alcohol and Kerosene. The tanks are located on the northwest corner of the building, approximately 30 feet west of the loading dock area. A 500 gallon UST is located between the removed USTs and loading dock and is used as an emergency containment vessel for a possible release of flammable liquids stored in drums inside the building.

4) Inventory of tank systems to be removed.

TANK #	CONTENTS IN TANK	STORAGE VOLUME	LENGTH AND DIAMETER OF TANK	TANK CONSTRUCTION	DISTANCE TO DISPENSER/ISLAND (if applicable)	TANK CONDITION
1	lsopropyl Alcohol	6,000 gal.		Sti P3 Steel	Found in building.	V. Good Cathodic protetion anodes gone
2	Naphtha	3,000 gal.		Sti P3 Steel	Found in building	Cathodic protection anodes gone
#### -5) Visual Inspection

- a. Note weather conditions during the site assessment activities
   Cloudy cold ≈ 35°F slight breeze from the NE.
- b. Inspect tank excavation. Describe backfill surrounding tank, native soil type, depth of excavation and identify, if free standing water is in excavation.

Backfill consisted of pea gravel with some sand. Native soil was found to be a clayey silt. Water was encountered in the excavation at six feet bgs. The depth of the excavation is believed to extend to nine feet bgs.

### 6) Soil Sample Locations

Complete the table below identifying soil sample collection locations. Include a to scale drawing of the site layout of the tank system and approximate sample collection locations. Attach the laboratory reports to this report.

SOIL SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DEPTH	SOIL TYPE	FIELD READING (i.u.)	ANALYTICAL PARAMETER	LABORATORY RESULT
1A	Beneath Tank	9'	silt	89.6		
1B	North sidewall above groundwater	6'	silt	870	DRO, VOC, Isopropyl and Naphtha	See attached results
2A	North sidewall above groundwater	6'	silt	9.3		
	· · · · · · · · · · · · · · · · · · ·					

#### 7) Tank Sludge Management

Provide the quantity and final disposition of tank sludge generated during the tank cleaning. Attach a copy of the bill of lading or hazardous waste manifest.

Tank sludge was containerized in two-55 gallon drums. Disposal of the sludge is pending approval at licensed facility.

ţ

#### 8) Discussion

Provide a narrative discussing the results of the assessment. Clearly present evidence relevant to determining whether a release occurred from the tank system.

- Contamination of soil was identified by soil analysis.
- A shallow groundwater unit was observed at six feet bgs.
- WDNR was notified on November 26, 1996.
- The extent of the release must be defined in accordance with Wisconsin Statutes, Codes and Guidelines.
- 9) The following supporting documentation and information is attached to this report.

<u>X</u> Underground Petroleum Product Tank Inventory (SBD-7437)

<u>X</u> Checklist for Underground Tank Closure (SBD-8951)

1

<u>\_X</u> Laboratory Reports

<u>X</u> Waste Disposal Documentation



Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295 WI DNR Certified Lab #445027660

TIMOTHY WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154					Project #: Project : Sample ID: Lab Code: Sample Type:	3646 Western Publishing 1B 5015240A Soil				
Report Date:	05-Dec-96				Sample Date:	25-Nov-96				
Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Date: Analyzed:	Analyzed By:	QC Code		
TOTAL SOLIDS	88.0			%		27-Nov-96	S.Dequain <del>e</del>	1		
NAPHTHA MODIFIED WONR SEP 95	230	1.4	4.3	MG/KG		03-Dec-96	R. Everson	1		
ISOPROPYL ALCOHOL MODIFIED SW846 8015A	<3	1	3	MG/KG	27-Nov-96	03-Dec-96	M. Ricker	. 1		
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	27-Nov-96	02-Dec-96	C. Rotar	1,2		

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

## QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

2

DRO chromatogram indicates possible gasoline contamination.

Authorized Signature



Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

voc Method 8021 Volatile Organic Compounds (Methanol Preserved)

TIMOTHY WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By:

05-Dec-96 G. Shah

ANALYTE	RESULT	MDL	PQL	CONFIRMED
		UG/KG	UG/KG	METHOD
Benzene	< 25	10	33	
Bromobenzene	< 25	5	17	
Bromodichloromethane	< 25	2	7	
n-Butylbenzene	< 25	21	67	
sec-Butylbenzene	< 25	19	59	
tert-Butylbenzene	< 25	11	36	
Carbon Tetrachloride	< 25	• 5	16	
Chlorobenzene	< 25	7	23	
Chloroethane	< 25	17	53	
Chloroform	<25	3	10	
Chloromethane	< 25	8	24	
2-Chlorotoluene	< 25	4	13	
4-Chlorotoluene	< 25	4	12	
1,2-Dibromo-3-Chloropropane	< 25	6	19	
Dibromochloromethane	< 25	5	15	
1,2-Dichlorobenzene	< 25	5	15	
1,3-Dichlorobenzene	< 25	4	11	
1,4-Dichlorobenzene	< 25	4	11	
Dichlorofluoromethane	< 25	13	43	
1,1-Dichloroethane	< 25	3	10	
1,2-Dichloroethane	< 25	3	11	
1,1-Dichloroethene	< 25	5	15	
cis-1,2-Dichloroethene	< 25	21	69	
trans-1,2-Dichloroethene	< 25	8	24	
1,2-Dichloropropane	< 25	3	9	
1.3-Dichloropropane	< 25	8	25	

Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date: Date Analyzed:

3646 Western Publishing 18 5015240A Soil 25-Nov-96 28-Nov-96

ANALYTE	RE	SULT	MDL	PQL	CONFIRMED
			UG/KG	UG/KG	METHOD
2,2-DCP,cis-1,2-DCE	< 25		6	17	
Di-isopropyl Ether	< 25		6	18	
Ethytbenzene	1	12000	9	28	
EDB (1,2-Dibromoethane)	< 25		8	24	
Hexachlorobutadiene	< 25		3	11	
isopropylbenzene		1300	7	23	
p-Isopropyttoluene	< 25		15	48	
Methylene Chloride	< 25		5	17	
MTBE	< 25		5	15	
Naphthalene	]	61	19	61	
n-Propylbenzene		860	19	60	
1,1,2,2-Tetrachloroethane	< 25	ļ	14	43	
Tetrachloroethene	< 25		20	65	
Toluene.	< 25		14	46	
1,2,3-Trichlorobenzene	< 25		16	50	
1,2,4-Trichlorobenzene	< 25		11	35	
1,1,1-Trichloroethane	< 25		8	26	
1,1,2-Trichloroethane	< 25	•	8	24	
Trichioroethene	< 25		11	34	
Trichlorofluoromethane	< 25		22	71	
124-Trimethylbenzene		100	9	27	
1,3,5-Trimethylbenzene		81	6	19	
Vinyl Chloride	< 25		5	16	
m&p-Xylene		18000	11	36	
o-Xylene		720	6	19	

MDL = Method Detection Limit PQL = Practical Quantitation Limit NA = Not Applicable

GC #6

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids

97 % Rec. 107 % Rec. 88

Authorized Signature

1

<b>CHAIN OF</b>	CUSTODY	RECORD
Lab I.D. #	$\mathbf{N}$	

Quote No .:

Account No. :



Relinguished By: (sign)

**Received in Laboratory By:** 

Analytical Lab 1090 Kennedy Ave. Kimberly, WI 54136 (414) 735-8295 • FAX 414-739-1738 • 800-490-4902 USALAB@AOL.COM 11

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**Department Use Optional for Soil Samples** Disposition of unused portion of sample

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Dispose Retain for \_\_\_\_ days \_ Return

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PETROLEUM EQUIPMENT, INC.

Fueling, Lube, Hoists and Tank Systems Designed, Installed and Serviced Since 1932

## TANK DISPOSAL STATEMENT

Petroleum Equipment, Inc., claims responsibility for properly removing two (2) steel underground storage tanks and associated piping and fittings at Western Publishing, 1220 Mound Avenue, Racine WI on 11/25/1996 in accordance with all applicable local, federal and state rules and regulations. Petroleum Equipment, Inc., certifies that it has obtained the required permits for closure of the tanks and has properly decontaminated the tanks and they were cut up and disposed of as scrap steel. Once the tanks leave the Western Publishing property, ownership of them transfers to Petroleum Equipment, Inc..

Authorized Signature: For: Petroleum Equipment, Inc. Date:

S4741

3950 W. Douglas Ave., Milwaukee, WI 53209

Phone: 414-468-3000

Fax: 414-466-3732

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PETROLEUM EQUIPMENT, INC

Fueling, Lube, Hoists and Tank Systems Designed, Installed and Serviced Since 1932

June 12, 1996

Sigma Environmental Services, Inc. 220 East Ryan Road Oak Creek, WI 53154-4533 ATTENTION: Bob Peschel

SUBJECT: Western Publishing

Dear Bob:

Thank you for the opportunity to quote on the removal of (1) 3000 and (1) 5000 gallon tanks and related piping system at Western Publishing. It is my pleasure to quote as follows:

- 1. Obtain permit.
- 2. Excavate and uncover tanks and piping.
- 3. Drain and disconnect piping from tanks.
- 4. Excavate and remove (1) 3000 and (1) 5000 gallon solvent tanks and related piping. Cap off piping at building.
- 5. Clean and scrap out tanks. Price includes the barreling of one (1) 50 gallon drum of tank sludge per tank. All tank sludge will be drummed and remains the property of the owner as regulated by the EPA. For proper testing/disposal of all sludges, we suggest contacting Milsolv Corporation, at 414/252-5244. Information sheet enclosed.
- 6. Assist in taking soil samples.
- 7. Backfill hole with the same material as excavated and additional gravel as necessary. Bucket compact. No top soil.
- 8. Backfill piping trench with gravel.

TOTAL PRICE, TAXES INCLUDED:

#### **OPTION:**

Remove 6' x 40' chain link fence --

The price is based on the following conditions and assumptions:

1. The tanks are empty.

3950 W. Douglas Ave., Milwaukee, WI 53209 Phone

Phone: 414-466-3000

Fax: 414-466-3732

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•	Wisconsin Department of Labor and Human Relation	of Industry, ions	UN PETRO	DERGROUND	5 c r 5 c	and Completed Form To: alety & Buildings Division
•	For Office Use Only:	,	TAN	K INVENTORY	r P. M	.O. Box 7969 Jadison, WI 53707
	Tank ID #		Information Requi	red By Sec. 102.142,	Wis. Stats. To	elephone: (608) 267-5280
	Underground lanks in W Please see the reverse sic with at least 10 percent of each tank. Send cach co this tank by submitting in The information you provide m	lisconsin that f le for addition of its total volu mpleted form a form? [] Y nay be used by oth	nave stored or currently al information on this ume (included piping) I to the egency designa ES INO If yes, are pergovernment egency pros	y store petroleum or program. An Under ocated below grour ted in the top right you correcting/upd grams (Privacy Law, s. 15	regulated substan ground storage ta nd level. A separat corner. Have you lating information .04(1) (m)!.	ices must be registered, nk is defined as any tank te form is needed for previously registered only?  Yes  No
	This registration applies to a ta 1A, [] In Use or 18. [] Newly	nt that is (check o y installed 4. )	one): G Closed - Tank Removed	8. 🗍 Changed Owners	hip Where Tank Loc	t Providing Fire Coverage ated:
	<ol> <li>Z. [] Abandoned With Prod.</li> <li>J. [] Abandoned No Product</li> </ol>	uct 6. [ t{empty}	3 Closed - Filled With Inert Material	(indicate new ow below)	ner (174	01-
	pr With Water	7. [	] Out of Service - Provide D	ate:	_ /<.4.	CINE
	A. IDENTIFICATION: (Please 1. Tank Sile Name WESTERN TU	BUISHIN	n Buoks Auglish	ing)	AUE	Sile Telephone No. (4/4)
	PCILY RACINE	Village	() Town of:	State WI	21p Code 53404	RACINE
	2. Owner Name (mail sent he	re unless indicated	Jotherwise In #3 below)	Owner Malling Address	(mail sent here unless l	ndicated otherwise in #3)
		Village	D Town of:	State	Zip Code	County
	3. Alternate Mailing Name II I	Different Than #2		Alternate Mailing Stree	t Address II Dillerent Fi	rom #2
		Village	🛛 1own ol:	State	Zip Code	County
•	4. Tank Age (date installed, if	known: or years c	id) 5. Tank Capacity (gal	ons) 6. Tank Manula	turer's Name (if known	0
ı	8. TYPE OF USER (clieck one): 1. [] Gas Station 5. [] Industrial 9. [] Agricultural	2, [] Rulk 5. [] Gov 10, [] Oth	: Storage crament er (specify):	3. Utility 7. School	4. [ 0. [	j Mercantile j Residential
	C TANK CONSTRUCTION: 1. C Bare Steel 3. C Conted Steel 5. J Relived Pate	2. (2) Cath 4, □ Tibe 7. [1] Stan	nodically Protected and Coat rglass	ed Steel (A. [] Socrificia 5. [] C	il Anodes or 8. [] Imp other (specify):	ressed Curreni)
	Approvel: 1. [] Nat'ISId. 2.	Lave 3.0	Other:	int composition 3. B to	Istenk Doub	le Walled 1 [] Yes & No
	Overfill Protection Provided? Tank leak detection method: 1.	TAutomatic ta	yes, Identify type: nk gauging 2. [] Vapor	monitoring 3. [] Gro	Spill Contains	A. [] Inventory control and
,	Ughtness testing 5. [] Inters	titis monitoring	6. D Not required at pres	ent 7. 🗋 Manual Te	ink Gauging (only for t	anks of 1,000 gellons or less)
	1. [] Bare Steel 2. A Catho 4. [] Filbergfass 5. [] Othe	dically Protected : r (specify):	and Coated or Wrapped Ste	el (A. Ksacrificial Anod	es or D. CImpressed C	(virent) 3. [] Costed Stee 9. [] Unknown
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	Piping leak detection method: us	ed if pressurized o	br check valve attank: 1.	Vapor monitoring	2. [] Interstitial moni	toring
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Wisconsin Department of Labor and Human Relation Complete one for each site closure.	f Industry, ons m for	CHECKLIS Ti he information you overnment agency	T FOR ANK C	UNDERO LOSURE ay be used by Privacy Law, s	5ROUN other 15.04 (1) (r	D 5	RETURI Gafety Fire President Storage P, O, Bo	N COM & Build eventio e Tank ox 7969	PLETE lings D n & Ur Sectio ), Mad	D CHECKI Nivision Ndergroui N ison, WI	<u>.IST TO:</u> nd 53707		
A. IDENTIFICATION: [Ple	ase Print)	Indicate wheth	er closur	e is for: 🔀	Tank Sys	stem	Пта	nk Onl	у [	] Piping	Only		
1. Site Name (1) - Star	ESI PI	SELLS HIN	15	2. Owner Na	ame								
Site Street Address (not P.O. B	(xo)			Owner Street	Address								
		Town of:		City	Village	Town	ol:	State		Zip Code	-		
KACINE													
State 2	52UD4	PACIN	IF	County	• •	Teleptic	one Nc. ( )	(include (	area coc	ic)			
3. Closure Company Name (P	rinU)	-T 0	ilosuro Con	pany Street A	ddress,			·····					
CONTROLCUM CONTROL	DIP/10	NT JAC	57	SU W	In Zip Code	$\underline{V} \mathcal{C}_1 \mathcal{C}_2$	SI	fue					
(414) 4(6(a-	3000		MILW	AUKEE	<u></u>	NT		53	20	2			
4. Name of Company Purformin	ng Closure Asse	ssment A	ssessment	Company Stre	el Adoress, (	City, Stat	e, Zip Co		e (100		571		
Telephone # jinclude area cox			Assesse	or Certilicatio	n No.								
(414)768-714	3 <u>-1</u>		00	<u>256</u>	6.,								
Tank ID #	Tank ID # Closure Temp, Closure Closure In/Place Tank Capacity 'Con												
1. 17/11/2014 6416	5-1010-6416 E 0 6000 Esept												
2. 516100645	51610-645 A 0 3,000 NAM												
3.													
4.													
5.		<u>_</u>		<u> </u>					ļI		<u>l</u>		
6.			1		A-Fuel Oil:	05.Gar	bol: 06	Olhar	09-110		Bromiu		
11-Waste oil; 13-Chemical	(indicate the	chemical name(s	) or numb	ers(s)					·Keros	ene; 15-Av	hation.		
Written notification was provi All local permits were obtained	ded to the loc ad before begi	al agent 15 days nning closure.	in advanc	e of closure	dale	• • • • • • •	 						
Check applicable box at	right in res	oonse to all sta	atements	in Section	IS B . E.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Ren	nover	Inspecto	r <u>NA</u>		
B. TEMPORARILY OUT Written inspector approv	OF SERVIC al ot temporal	E v closure obtaine	o, which		- And			Ver	ified	Verified			
is effective until-(provide	date)				••••	••••		DY	N		卤		
<ol> <li>Product Removed</li></ol>	ed into tank (d	or other container	) and resd	iting liquid re	moved, Al	ND		ΪΠΥ	N	Π	4		
b. All product remove	d to bottom o	suction line, OR						Ē	ПN	ē	ğ		
<ol> <li>C. All product remove</li> <li>2. Fill pipe, gauge pipe,</li> </ol>	d to within 1" tank truck vac	or recovery litting	ns, and va	por return lir	es capped	 	 	ΗÅ					
3. All product lines at the	islands or pu	imps located else	where are	removed ar	nd capped,	OR	• • • • • •	·ΞΥ	ПN	D	Ē		
5. Vent lines left open.		ocked and powe	r aisconne		• • • • • • • • • • •	• - • • • • • •	• • • • • • •	Η̈́Υ			ш Ш		
6. Inventory form filed in	dicating lemp	orary closure,	•••••	* • • • • • • • • • • •		A.,		DY	N		<u>t</u>		
C. CLOSURE BY REMO	VAL						· .						
Product from plping d     Product from plping d     Piping disconnected f	rained into tar	nk (or other conta	iner).	• • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • •					D		
3. All liquid and residue	removed from	tank using explo	sion proof	pumps or h	and pumps	 5	<i>.</i> . <i>.</i>	<b>B</b> Y	БN	Ď	ď		
4. All pump motors and	suction hoses	bonded to tank o	r otherwis	e grounded.			moved						
NOTE: DROP TUBE THE USE OF AN EDL	SHOULD NO	T BE REMOVED	IF THE TA	ANK IS TO E	E PURGEI	D THRO	UGH	ý ý ľ		J	ل		
6. Vont lines left connec	ted until tanks	purged.	•••••••		• • • • • • • • •	•••••		Ď	N	p			
8. Tank atmosphere red	uced to 10% (	of the lower flam	nable rang	re (LEL) - <u>se</u>	a Section F	<u>.</u>	· • • • • • •	́ш' Ду	ы И И	Ц,			
9. Tank removed from e	xcavation afte	PURGING/INER	TING; pla	ced on level	ground and	d blocke	ď	forv			п		
10, Tank cleaned before I	being removed	being removed	from site.	• • • • • • • • • • • • • •	•••••	• • • • • • • •	· · · · · · ·	Ŕγ	ЫN				
900.0051 (D. 06/04)		•	CONTINU	E ON NEYT	DAGE -			•					

SBD-8951 (R. 06/94)

CONTINUE ON NEXT PAGE -

	JUN-04-1998	10:57	FROM	PETROLEUM	EQUIF
--	-------------	-------	------	-----------	-------

C. CLOSURE BY REIMOVAL (continued)  That abodd in 2' high clices setting acquid by bother being moved from alig  PORTER CONTENTS, VAPOR STATE; VAPOR STATE; VAPOR FREENINT DATE:  C. CLOSURE IN PLACE  This watch biel (18 th') uppermissing built of back (isseling the low marking darks) results:  The low (18 th') uppermissing built of back (isseling the low moved built is low (isseling to low of low o		JUN	-04-19	98	10:57	FROM	PETROLEUN	EQUIP.	то		76971	58 F	°.07/07	
12. Tark vent hole (12) fill " in upgements part of tank installed prior to moving the tark (tem stie       Y       N         13. Inventory form liked by owner with Sately and Buildings Division indicating closure by removal.       Y       N         14. Site scenarity is provided while the excervation is open.       Y       N       N         14. Site scenarity is provided while the excervation is open.       Y       N       N         15. CLOSURES IN PLACE ARE ONLY ALLOVED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF HOUSTING.       Y       N         15. Productive of HOUSTIN, LaBOR AND HUMAN RELATIONS OF LOCAL AGENT       P       N       N         2. Plang disconnected for OHDUSTIN, YL ABOR AND HUMAN RELATIONS OF LOCAL AGENT       Y       N       N         2. All louid and realdue Temped from tark and removed.       Y       N       N       N         3. All louid and realdue Temped from tark using explosion indicating Churps and other intruse removed.       Y       N       N         4. All pump motors and structure of RUVPED PTH PM ADV BADE       Y       N       N       N         6. Vent lines left cennet left dunit lanks proged       Tark connected unit lanks proged recording temporality pubged of stops of through vent.       Y       N       N         10. Social ineer material tisend, cycloor bolier step, page gravel recording temporality pubged of stops of through vent.       Y <t< th=""><th>- C. 1</th><th>CL(</th><th>DSURE ank labe</th><th>BY I sled in COMP</th><th>REMOV 12" high LETE TA</th><th>AL (cont letters af NK LAB</th><th>tinued) ter removal but ELING SHOULI STATE: VAPOR</th><th>i before beir D INCLUDE R ERFFING</th><th>ng moved from sile WARNING AGAIN</th><th>IST REUSE;</th><th>R </th><th></th><th>Inspector Verified</th><th>NA</th></t<>	- C. 1	CL(	DSURE ank labe	BY I sled in COMP	REMOV 12" high LETE TA	AL (cont letters af NK LAB	tinued) ter removal but ELING SHOULI STATE: VAPOR	i before beir D INCLUDE R ERFFING	ng moved from sile WARNING AGAIN	IST REUSE;	R 		Inspector Verified	NA
	1	2. T 3. II 4. S	ank vent ventory	t hole form rity is	(1/8 th " filed by provide	' in upper owner wit d while th	most part of tar In Salety and B e excavation is	nk) installed Iulidings Div open.	prior to moving the ision indicating clos	sure by removal.				
	D.	CLC N	DSURE IOTE: C	IN F	LACE		ARE ONLY ALL USTRY, LABO		TH THE PRIOR WR	ITTEN APPROVAI	-			
		1. P 2. F 3. A 4. P 5. F N	rodučti iping dis Il liquid Il pump ill pipes, IOTE: D HE USE	and r moto gaug ROP	piping dra context from esidue re rs and su rs and su rsu su rs and su rsu su rsu su rsu su rsu su rsu su	ained into om tank as emoved fr uction hos , vapor rev HOULD N CTOR - E	tank (or other of nd removed. om tank using i ses bonded to t covery connect NOT BE REMO DUCTOR OUT	container). explosion pr ank or other ions, subme VED IF THE SUT-12 FT A	roof pumps or hand wise grounded ersible pumps and c TANK IS TO BE P ABOVE GRADE.	Pumps. Durged THROUG	[ [ [ [			
11. Vent ling disconnected or removed.         12. Inventiony form fitted by owner with Safety and Buildings Division indicating closure in place.       IV	1	6, V 7, T 8, 7 9, T 0, 5	ent lines ank ope ank atm ank prop olid iner	s left nings osphi porly t mat	connecte tempora ere reduc cleaned erial (sar	ed until tar arily plugg ced to 10 to remove nd, cyclon	nks purged. Sed so vapors e of the lower l all studge and boiler stag, p	pxit through flammable r I residue.	ventrange (LEL) <u>see Se</u> commended) introd	ection F. duced and lank fille				
E. CLOSURE ASSESSMENTS NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site. Do points of obvious containination exist? Are there strong odors in the solis? Was a closure assessment used to pro-screen soil sample locations? Was a closure assessment used to pro-screen soil sample locations? Contamination suspected because of EVOUS contamination? Contamination suspected because of EVOLATE EVOLATE Product sheen On Groundwater Effeld Instrumen Effective Dy compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground Difused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig. Dry loc entroduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possil area. Dry ice evaporated before proceeding. Inter diss (COV2 or N2) NOTE: INERT GASES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY ! EntERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded. Calibrate combustible gas indicator. Drop tube removed bigs arroy levals. Calibrate combustible gas indicator. Drop tube removed for a lammable range (LEL) obtained before removing tank for gallons of tank atmosphere. Tank space monitored at botom, and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank for ground. G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW	1	1. V 2. li	ent line ventory	form	filed by	or remov	ed. In Safety and B	ulldings Div	ision indicating clos	sure in place.	L			
Diffused air blower boinded and drop tube removed. Air pressure not exceeding 5 psig.         Dry ke         Dry loe introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possil area. Dry ice evaporated before proceeding.         Intert Gas (CO2 or N/2)       NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY I ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT         Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vont. Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.         GTank atmosphere monitored for flammable or combustible vapor tevels. Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank fror ground.         G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW         H. REMOVER/CLEANER INFORMATION	F.	1. III 2. D 3. P 5. V 5. V 6. V 7. C ME	ndividual sused as to points re there Vas a fie Vas da	I conc s the of ol stron- bld scro DNR office ation OF A Or D	Sucting It basis for ovious co ig odors reening is assess notified of and per- suspector <b>CCHIEVI</b> ilfused A an by cor	the assess r their wor contaminati in the soi instrument nent omitt bl suspect son conta ed becaus ING 10% ir Blower mpressed	ment has a clos k on the site. on exist? s? used to pre-sc ed because of ted or obvious of cled or obvious of cled: se of:[] Odor E LEVEL DESC air, bonded and	sure assess obvious con contaminatio CRIPTION d drop tube	ment plan (written) imple locations? itamination? ing I Free Product	which	nowator		Instrument	Test
H. REMOVER/CLEANER INFORMATION       00673         EALCH       AA2SEN         Remover Name (print)       Hernover Signature         INSPECTOR INFORMATION       100673         Inspector Name (print)       Inspector Signature         FDID # For Location Where Inspection Performed       Inspector Telephone Number	G.		Diffused iny ice area. D nert Gas ENTERI Gas intr Gas intr Gas intr ank atm Calibrate and upp ground.	J air b introc Dry ic (CO/ ED IN oduc oduc ioduc ioduc ioduc ioduc ioduc ioduc ioduc ioduc ioduc ioduc ioduc ioduc	Nower bo luced at e evapor 2 or N/2) I THIS S ed throug ed under ere moni houstible ortion of t	1.5 pounk rated befo ) NOTE: TATE WF gh a single r low pres ilored for f gas indik lank. Res	I drop tube rem is per 100 gallo re proceeding. INERT GASSI THOUT SPECI/ e opening at a f sure not to exce lammable or co ator. Drop tub adings of 10% of	Noved. Air p ons of tank of ES PRODUC AL EQUIPM point near the eed 5 psig to ombustible on fession the NCE ISSUE	capacity. Dry ice c CE AN OXYGEN DI ENT to bottom of the tar o reduce static elect vapor levels. prior to checking a e lower flammable S BELOW	ding 5 psig. rushed and distribu EFICIENT ATMOSI hk at the end of the stricity. Gas introd tmosphere. Tank range (LEL) obtaine	uted ove PHERE. tank op ucing d space n ad befor	THE TA THE TA oposite the evice gro nonitored e removi	atest possibl INK MAY Ne 9 vont. unded. at bottom, n ng tank from	o tank OT BE niddle
H. REMOVER/CLEANER INFORMATION     MODES       Remover Name (print)     Hemover/Signature       INSPECTOR INFORMATION     Inspector Signature       Inspector Name (print)     Inspector Signature       FDID # For Location Where Inspection Performed     Inspector Telephone Number	÷							_	210	7.				
I. INSPECTOR INFORMATION           Inspector Name (print)         Inspector Signature         Inspector Certification           FDID # For Location Where Inspection Performed         Inspector Telephone Number         Date Signed	H.	REN	IOVER/C			ORMATI	ON EN Flen	nover-Signa	luro U	 Remover	283 Certific	ation No.	Date Signe	<u>96</u> 8
	<b>.</b>	INS Insp FDI	PECTO ector Na	DR IN	IFORM		ion Performed	Inspecto / / /	or Signature	7 9 2 3 Per	Tins	spector C	Critication N	0.
KEMOVEK								REN	IOVER	······································				

TOTAL P.07

# APPENDIX B

SOIL BORING LOGS (WDNR FORM 4400-122)

State ç Depart	of Wisc iment o	onsin f Natu	ral Res	sources	1 [	Route To: ] Solid Was	te	🗖 Ha	az. Wa	ste			SOIL Form 4	<b>BOR</b> 4400-12	ING I 22	OG I	NFOR	RMAT Rev.	T <b>ON</b> 5-92
•						Emergency Wastewate	y Response er		ndergro ater Ro	ound T esourc	'anks es					Page	1	of	2
Facilit	y/Proje	ct Nan	lvent	Aroa	L				Licen	se/Pen	nit/Mo	onitorir	g Nun	nber	Borin	g Num	ber		<u> </u>
Boring	Drille	d By (I	Firm na	ame an	d name o	of crew chief	)	<u></u>	Date 1	Drillin	g Start	ed 07	Date	Drilling	g Com	oleted	Drillir	ng Me	thod
Sigm Mart	a Envi y Nessi	ronme man ai	ntal nd Dav	ve Kuh	tz				M		$\frac{\mathbf{p_4}}{\mathbf{D}} + \frac{\mathbf{p_4}}{\mathbf{Y}}$	<u>Y</u>	M	$\frac{b}{M} \frac{1}{D}$	$\frac{14}{D}$	97 7 Y	Geoj	probe	
DNR I	acility	Well 1	VO. V	/1 Uniq	ue Well	No. Con	mon Well	Name	Final	Static	Water Feet M	Level ISL	Surfac	e Elev	ation Feet	MSL	Boreh <u>2.0</u>	ole Di 0i	ameter nches
Boring State H	Locati lane	on			N,			ΕS	La	at	。 		Local	Grid I	ocatio.	n (lf ar N	plicab	le)	ΠE
NW County	_ 1/4 of	f_SW	_ 1/4 o	f Sectio	on	<u>9, T_3</u>	N, R	23 E	Lon	g Code		" [own/(	Lity/ or	F F Villac	Feet	<u>s</u>	- · · · · · · · ·	Fee	
	, 	R	acine					DIVIC	52	couc		City of	Racii	ie ie		5			
San	nple अमि	70	t.			Soil/Rock D	escription								Soll	Prope	rties		
r Pe	n Att ered (j	Count	in Fe		А	nd Geologica Fach Mair	al Origin F	or		S	. <u>ಲ</u>	Ę	A	cessive	er E		ity		ents
Mumb and Ty	Length Recov	Blow (	Depth			Each Maje				usc	Graph Log	Well Diagra	PID/F	Compi	Moisth Conter	Liquid Limit	Plastic Index	P 200	RQD/ Comm
			-			Pushed	through f	ill mater	rial										
			- 1.0			to 9 ieet	bgs.												
			E <sup>2.0</sup>														:		
			- <u>3.0</u>																
			-4.0															:	
			-5.0 E																
			- -6.0																
			Ē																
			-8.0 -																
1	2		<u>-</u> 9.0	9.0	to 11 (	) Pea gra	vel fill we	-t		FILL									No Odor
	2		<b>F</b>	5.0		, 100 610	ver mi, ««												110 0101
2	15		-11.0 E	11.0	to 13.	) 4 inches	of pea gr	avel ove	er –	CL			16.2		м/w				No Odor
			- 12.0			11 inche gray (10	es of CLA YR5/1:M	Y, hard ]).	,						·				
l here	by ce	rtify tl	hat th	e info	rmatior	n on this fo	rm is tru	e and o	correc Firm	t to t Sign	<u>ie bes</u> ia En	st of r	ny kn	owled	ge. ervi	es. I	nc.		
This 6	M	the	2 Zed by	Chant	ars 144	9	Wis Stat	s Comp	220 E	. Ryan	Road,	Oak (	Creek,	WI 5	3154 (	$\frac{414}{7}$	68-714	4	
than \$	10  nor	more th	han \$5	,000 fo	r each vi	olation. Fin	ed not less	than \$1	0  or  m	ore that	in \$100	) or im	prison	ed not	less th	an $30 d$	lays or	,	

both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of V Departme	Wisco ent o	onsin f Natu w <b>GP</b>	ral Re	sources	1 lev	only as	an attac	obmont to	Form	SOIL Form 4	BORI 400-12 122	NG LO 22A	DG IN	FORM	<b>IATIO</b>	DN SU	PPLE Rev	MEN7 v. 5-92	Г 2 2
* Bornig No	unoe		10		030	s only as					122.				0-11	Dana			
Number and Type Length Att. &	Recovered (in)	Blow Counts	Depth in Feet		Se And	oil/Rock I I Geologio Each Maj	Descriptic cal Origir jor Unit	on 1 For		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
2	15		13.0 14.0 15.0 16.0 17.0 19.0 21.0 22.0 21.0 22.0 22.0 22.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 25.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0 28.0 27.0	13.0	to 15.0	CLAY, (10YR: boring.	, trace gr 5/1: M).	ravel, gra End of	y	CL			15.9		Μ				No Odor

Golden Books - Solvent Area

State o Depart	f Wisc ment o	onsin of Natu	ral Res	sources	Ro <sup>-</sup>	ute To: Solid Waste	🗖 н	az. Wa	ste			SOIL Form 4	<b>BOR</b> 4400-12	ING 1 22	LOG I	NFOR	KMAT Rev.	<b>`ION</b> 5-92
						Emergency Respo Wastewater	onse 🖸 U	ndergro /ater Ro	ound T esource	'anks es					Page	1	of	2
Facility	/Proje	ct Nan	ne	•				Licen	se/Pen	nit/Mo	nitorin	g Nun	nber	Borir	ig Num	iber		
Boring	Drille	ks - So d By (I	Firm na	Area	name of	crew chief)		Date 1	Drillin	g Start	ed	Date 1	Drilling	g Com	pleted	Drillin	ig Me	thod
Sigma Marty	a Envi y Ness	ronme man a	ntal nd Dav	ve Kuht	z	, 		<u>00</u> M	5/( M D	) <mark>4</mark> / <u>9</u> D Y	9 <u>7</u> Y	0 M	6/ <u>(</u> M D	04/ D	9 <u>7</u> 7 Y	Geoj	probe	
DNR F	acility	Weil 1	No.  W	1 Uniqu	ie Well No	Common W 	/ell Name	Final	Static	Water Feet N	Level ISL	Surfa	e Elev	ation Feet	MSL	Boreh <u>2.0</u>	ole Di 0i	ameter nches
Boring State P	Locati lane	on	1/4 0	6 Sectio	_N,	т 3 м р	E S	La	at	• •	# 	Local	. Grid I	locatio	n (lf ag   N   S	oplicab	le)	
County			_ 174 0.		n	, I N, K	$\frac{25}{\text{DNR}}$	County 52	g Code	Civil	Fown/C	Lity/ or	r Villag	ge				
Sam	ple							34		<u> </u>		Rach		Soil	Prope	rties		<u> </u>
mber I Type	ngth Att. & covered (in)	ow Counts	pth in Feet		Sc And	il/Rock Descripti Geological Origi Each Major Unit	ion n For		scs	aphic g	ell agram	OFID	mpressive ength	bisture ntent	luid nit	sticity lex	00	D/ mments
Nu and	Ler Rei	Blc	Dej						Ŋ	ĔŜ	Di	ΠЧ	Str	ΫŐ	Liid	Pla Ind	P 2	လို့စ်
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1	20		-11.0 -12.0	11.0	to 13.0	CLAY, hard, t gray (10YR6/1	trace grave .:M).	el,	CL			13		м				No Odoi
I here Signati	by ce	rtify t	hat th	e infor	mation of	on this form is	true and	correct Firm	<u>st to t</u> Sign	ne bes 1a En	st of r	ny kn nmei	owled	ge. ervi	ces, I	nc.		
	14	li	12	<u>`E</u>	× La		Vtata Car	220 E	. Ryan	Road,	Oak (	Creek,	WI 5	<u>3154 (</u>	(414) 7	68-714	4	
than \$1 both fo	0 nor: <b>r each</b>	more ti violati	han \$5 on. Ea	,000 for high day	each viol	ation. Fined not l ed violation is a s	less than \$3 separate off	10 or m	or the	an \$100 at to ss	) or im 144.99	prison and 1	ed not 62.06.	less th Wis. S	an 30 d Stats.	lays or	,	

	State	of Wise	onsin	mal Da		SOIL	<b>BORI</b>	NG LO	DG IN	FORM	ÍATIO	DN SU	PPLE	MENT	<b>Γ</b> .
-	Boring	Numb	er <u>GF</u>	<b>-11</b>	Use only as an attachment to Form	4400-	·122.	22A				Page	e <u>2</u>	r. 5-92 _ of	2
•	San	ple		T							Soil	Prope	rties		
•_	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	2	20		13.0 14.0 15.0 16.0 17.0 18.0 20.0 21.0 22.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 24.0 25.0 26.0 27.0 27.0 28.0 29.0 21.0	13.0 to 15.0 CLAY, hard, trace gravel, gray (10YR6/1:M). End of boring.	CL			18.3		Μ				No Odor

Golden Books - Solvent Area

State Depar	of Wisc tment c	onsin of Natur	ral Res	ources		Route	To: lid Waste		az. Was	ste			S <b>OIL</b> Form 4	<b>BORI</b> 400-12	NG I 22	OG I	NFOR	MAT Rev.	<b>TION</b> 5-92
•						En En Ua	nergency Respon Istewater Derfund	nse 🕅 Un 🔲 W	ndergro ater Re ther	ound T source	anks es					Page	1	of	2
Facili	y/Proje	ct Narr	ne	4	<u> </u>		perrund		Licens	e/Perr	nit/Mo	nitorin	g Num	ber	Borin	g Num	ber	D 11	
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Mar DNR	y Ness Facility	man ai Weil I	nd Dav No. W	e Kuh I Uniq	tz ue Wel	1 No.	Common W	ell Name	Final	Static	Water I Feet M	Level	Surfac	e Eleva	ation Feet	MSL	Boreh	ole Di	ameter
Boring State	z Locati Plane	ion			N,			ES	<u>                                     </u>	it	o 1	"	Local	Grid L	ccatio	n (lf ap N	plicabl	le)	
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Count	y	R	acine					DINK	52	Code		City of	<b>Raci</b> r	villag ie	je				
Sar	nple														Soil	Prope	rties		
Number and Type	Length Att. & Recovered (in	Blow Counts	Depth in Feet			Soil/ And G Ea	Rock Descriptic eological Origir ch Major Unit	on n For		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			-																
1	22		-1.0	1.0	to 3.	.0 ( 3	CLAY, trace gr vellowish brown	ravel, hard n (10YR5/	d, / <b>4:D)</b> .	CL			0		D				No Odor
2	16		-3.0 -4.0	3.0	to 5.	.0 ( ł	CLAY, trace gi brown (10YR5/	ravel, haro /3:D).	d,	CL			0		D				No Odor
3	24	-	- - - - - - - - - - - - - - - - - - -	5.0	to 7.	.0 ( r	CLAY, same as nottling.	s above, so	ome	CL			2.6		D				No Odoi
4	24		-7.0 	7.0	to 9.	.0 (	CLAY, same as	s above.		CL			0		D				No Odor
5	24	2	9.0 	9.0	to 11	.0 (	CLAY, hard, b 10YR5/2:D), n	rownish g nottling.	ray	CL			0		D				No Odoi
6	10		-11.0 -12.0	11.0	to 13	3.0 ( (	CLAY, hard, n (10YR5/1:D).	nottled, gr	ay	CL			0		D				No Odoi
l her Signat	by ce ure	ertify t	hat th	e info	rmatio	on on	this form is t	rue and	correc Firm	<u>st to tl</u> Sign	ne bes na En	st of r viro	ny kn nmer	owled Ital S	ge. ervio	ces, I	nc.		
This f		<u>authori</u>	The zed by	Chapte	rs 144	147 :	ind 162. Wis Si	tats. Comr	220 E	. Ryan	Road, report	Oak ( is man	Creek, datorv	WI 53 . Pena	3154 ( Ities: F	(414) 7 orfeit 1	68-714 not less	<u>4</u>	
than \$ both f	10 nor or each	more ti violati	han \$5 on. Ea	,000 fo ich day	r each of con	violati tinued	on. Fined not le violation is a se	ess than \$1 eparate off	l0 or m ense, p	ore tha	n \$100 it to ss	) or im 144.99	prison and 1	ed not 6 <b>2</b> .06,	less th Wis. S	an 30 d Stats.	lays or		

State Depar Boring	of Wisc tment of Numb	consin of Natu oer <b>GP</b>	ral Re -12	• sources Use only as an attachment to Forr	SOIL Form	<b>BORI</b> 4400-11 -122.	NG LO 22A	OG IN	FORM	1ATIO	DN SU Pag	PPLE Rev	MEN v. 5-92 _ of	<u>7</u> 2 2
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7	24		13.0 14.0 15.0 16.0 17.0 18.0 20.0 21.0 22.0 23.0 24.0 24.0 25.0 24.0 24.0 25.0 24.0 25.0 24.0 25.0 27.0 28.0 29.0 21.0 21.0 21.0 20.0 21.0 20.0	13.0 to 15.0 CLAY, hard, gray (10YR5/1:D). End of Boring.	CL			0		D				No Odor

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Golden Books - Solvent Area

State of	f Wisc	onsin	1 D			Roi	ite To:	<b>—</b>					SOIL	BOR	NG I	LOG I	NFOF	RMAT	TION
Depart	ment o	of Natu	ral Res	sources			Solid Waste Emergency Respons	∎Ha se <b>K</b> ¶Un	az. Was ndergro	ste und T	anks		rorm 4	1400-12	22			Rev.	5-92
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-	(D) }						Superfund		ther	0)	40.0		N	1	ID '	Page_	1	_of	
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Boring	, Drille	d By (l	Firm na	ame an	d nar	ne of c	rew chief)		Date I	Drillin	g Start	ed	Date I	Orilling	g Comj	pleted	Drilli	ng Me	thod
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					<u></u>				_	-	Feet M	ſSL			Feet	MSL	<u>2.0</u>	<u>10 i</u>	nches
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County								DNR C	County	Code	Civil 7	lown/C	ity/ or	Villag	ge			=	
(		R	lacine						52			City of	Racir	ie					
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	t. B	nts	eet			So	il/Rock Description	1						ive					-
pe Pe	1 At ered	Cou	in H			And	Geological Origin I Fach Major Unit	For		S	. <u>ମ</u>	ផ្អ	A	th Tess	E E	_	äty	1	lents
d Ty	ngtl	Mo	spth			-				sc	aph g	ell agr	D/F	inpi	oist	quic	astic dex	02	A.
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			$E_{1.0}$			• •													
1	20			1.0	to	3.0	CLAY, hard, tra gravish brown (1	ice grave	ι, D).				U		ען				No Odor
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			F																
			E							CT									
2	24		Ē	3.0	to	5.0	CLAY, hard, tra mottled, light gr	ice grave avish bro	l, wn				1.1						No Odor
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3	24		E	5.0	to	7.0	CLAY, same as a	above.		CL			U						No Odor
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			E <sub>7.0</sub>							a									
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			$E_{11.0}$						_										
6	24		F	11.0	to	13.0	CLAY, gray (10)	YR5/1:M	<b>I)</b> .	CL			1.9		M			[	No Odor
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<u>l h</u> ere	eby ce	rtify t	hat th	e info	rma	tion c	on this form is tru	ue and o	correc	t to t	ne bes	st of n	ny kn	owled	ge.	L	L	L	<u></u>
Signat	ure		Z	<u> </u>	5		lino		Firm	Sign	na En	viro	imer	ital S	ervi	ces, I	nc.		
This fo	orm is a	authori	zed hv	– <u> </u>	ers 14	$\frac{1}{44, 14'}$	7 and 162. Wis. Sta	ts. Comp	220 E letion o	. Ryan of this	report	Uak C is man	.reek, datorv	WI 53	ties: F	414) 7 orfeit 1	08-714 10t less	14 s	<u> </u>
than \$	10 nor	more t	han \$5	,000 fo	r eac	h viola	ation. Fined not les	s than \$1	0 or m	ore that	in \$100	) or im	prison	ed not l	less th	an 30 d	lays or		
both fo	or each	violati	on. Ea	ich day	ofc	ontinu	ed violation is a sep	parate offe	ense, p	ursuan	t to ss	144.99	and 1	6 <b>2</b> .06,	Wis. S	tats.			

State Depa Boring	of Wise stment g Numb	consin of Natu oer <u>GP</u>	ral Re -13	sources	Use only as an att	achment to Form	SOIL Form 4400-	BORII 1400-12 122.	NG LO 22A	)G IN	FORM	IATIO	DN SU Page	PPLEI Rev e <u>2</u>	MENT 7. 5-92 _ of	2
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Golden Books - Solvent Area 

State of Depart	of Wisc ment o	onsin f Natu	ral Res	sources		Ro	oute To: Solid Waste	Пн	az. Was	ste			SOIL Form 4	BOR 4400-12	ING I 22	LOG 1	NFOF	RMAT Rev.	T <b>ON</b> 5-92
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Facilit Gold	y/Proje en Boo	ct Nan ks - Se	ne olvent .	Area					Licens	se/Peri	nit/Mo	nitorin	g Nun	ıber	Borin	g Num	iber G	P-14	
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DNRI	acility	Well	No. W	/I Uniq	ue V	Vell N	o. Common We	ll Name	Final	Static	Water Feet N	Level ISL	Surfac	ce Elev	ation Feet	MSL	Boreh 2.0	ole Di 0 i	ameter nches
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County	/	г	Daging					DNR	County	Code	Civil	l'own/C	City/ of	r Villag	ge				<u> </u>
San	iple	F	cacine						52		 		Kach		Soil	Prope	rties		
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ъ	Att. ered (	Coun	in Fe			And	d Geological Origin	For		s	.9	g	A	cessiv th	E E		ity		ents
umb d Ty	engti ecov	low (	epth				Lacii Miajor Oliit			SC	raph og	/ell iagra	D/FI	ompi	foist	iquid	lastic dex	200	Ŋ.
Z 8	ЪЖ	<u>д</u>		0.0	to.	50	Dushed to 5 feet	has			01	ÞД	P	00	20	ЦЦ	ਨਾਸ	Ч	20 20
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-1.0 borings.																:			
			E_3.0																
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1	24		-5.0 E	5.0	to	7.0	CLAY, hard, br	own		CL			2		D				No Odor
			F				(10YR5/3:D).												
			<b>F</b> <sup>0.0</sup>																
			E_7.0	7.0	4-	0.0	Como os aborro			CI.			0						NO
2	24		Ē	7.0	to	9.0	Same as above.			CD			0		"				No Odor
			-8.0																
			E																
3	24		1-9.0 E	9.0	to	11.0	CLAY, hard, gr	ay		CL			2.1		М				No Odor
			$E_{10.0}$				(10YR5/1:M). J	end of Bo	ring.										
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Ľ			-11.0																
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Ihor		r4i61	-12.0			tion	on this form is t	uo ond	000000										
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than \$	10 nor 1	more t	han \$5	,000 fo	r eac	h viol	ation. Fined not le	ss than \$1	$0 \text{ or } \mathbf{m}$	ore that	in \$100	) or im	prison	ed not	less the	an 30 d	lays or	,	

both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

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State of Wisconsin Route To:				i	SOIL	BOR	NG I	OG I	NFOR	MAT	TION
Department of Natural Resources Solid Waste	az. Was ndergro	ste und T	anks	1	ronn 4	1400-12	22			Kev.	5-92
	ater Re	source	es					Des		c	
Eacility/Project Name	ther	e/Per	nit/Ma	nitorin	a Num	her	Borin	Page_	<u> </u>	01	<u> </u>
Golden Books - Solvent Area	Licens				g Ivun	IUCI	Dom	g rouin	G	P-15	;
Boring Drilled By (Firm name and name of crew chief)	Date I	Drillin	g Starte	ed 7	Date I	Drilling	Com	oleted	Drillir	ng Me	thod
Sigma Environmental Marty Nessman and Dave Kuhtz	MN	$\overline{D}'$	$\overline{D}\overline{D}' \overline{Y}\overline{Y}$ $\overline{M}\overline{M}' \overline{D}$			$\frac{2}{D}$	Y Y	Geoprobe			
DNR Facility Well No. WI Unique Well No. Common Well Name	Final S	Static	Water I	Level	Surfac	e Elev	ation	<u> </u>	Boreh	ole Di	ameter
			Feet M	ISL			_Feet	MSL	<u>2.0</u>	<u>0</u> i	nches
Boring Location State Plane N E S	Ι I a	t	0 1	Ħ	Local	Grid L	ocatio.	n (lf ap	plicab	le)	
NW 1/4 of SW 1/4 of Section 9. T 3 N. R 23 E	Long	<u> </u>	·	H		F	⊔ eet □	N S		Fee	t 🗆 E
County	County	Code	Civil 7	`own/C	City/ or	Villag	e			_	
Racine	52			City of	Racir	10					
Sample							Soil	Prope	rties		4
왕(王) : · · · · · · · · · · · · · · · · · ·						Ve					
And Geological Origin For		S	. <u>ಲ</u>	Ę	А	essi	rt fe		ity		ents
		sc	aphi g	ell agra	D/FI	mpi	oistu	nit	astic lex	003	
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0 0.0 to 5.0 Pushed to 5 feet bgs.,		CL									
assumed CLAY from pre	evious										
											1
$E^{2.0}$											
											1
E <sup>4.0</sup>											
1 24 5.0 to 7.0 CLAY, hard, brown		CL			4.5		D				No Odor
(10YR5/3:M).											
E <sup>6.0</sup>											
2 24 7.0 7.0 to 9.0 CLAY, same as above.		CL			0		D				No Odor
-8.0											
3 24 -9.0 9.0 to 11.0 CLAY, hard, gray		CL			0		М				No Odor
(10YR5/1:M).						ļ					
<b>F</b> <sup>10.0</sup>											
hereby contify that the information on this form in targe and	000000	+ + - +	ho ho	tofr	avi ter					L	l
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allathe stee	220 E	. Ryan	Road,	Oak C	Creek,	<u>WI 53</u>	3154 (	414) 7	<u>68-71</u> 4	4	
This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Comp	letion o	of this	report	is man	datory	. Pena	Ities: F	orfeit r	not less	3	
both for each violation. Each day of continued violation is a separate off	ense, pi	ursuar	at to ss	144.99	and 1	62.06 <b>,</b>	Wis. S	stats.	ays of		

# APPENDIX C

# BOREHOLE ABANDONMENT FORMS (WDNR FORM 3300-113B)

l:\golden-b\3646\sub-inv.rpt

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACIL	TY NAME							
Well/drillhole/Borehole	County	Original Well Owner (If Known)								
		Present Well Owner								
NW 1/4 of SW 1/4 Sec. 9	; T. <u>3</u> N; R. <u>23</u> W	Golden B	ooks - Solver	nt Area						
(If applicable)		Street o	r Route							
Gov't Lot	Grid Number	1220 Mou	and Avenue	-						
Grid Location		City, S	State, Zip Co	de						
It. N. S.,	II. E. W.	Facility	Well No. and	d/or Name (If Applicabl	e) WI Unique Well No					
Racine		GP-10								
Street Address of Well 1220 Mound Avenue		Reason For Abandonment Geoprobe boring								
City, Village		Date of Abandonment								
City of Racine				06/04/97						
WELL/DRILLHOLE/BOREHOLE I	NFORMATION	(1) Dopth t	o Water (Fee	<del>(</del> )						
(3) Original Weil/Drilliole/Borenole Co	instruction Completed On	(4) Depui i Pump &	v Waler (ree Piping Rem	$1$ $\square$ Ves $\square$	No XI Not Applicable					
		Liner(s)	Removed?		No $\mathbf{X}$ Not Applicable					
Monitoring Well	Construction Report Available?	Screen	Removed?	$\square$ Yes $\square$	No X Not Applicable					
Water Well	X Yes 🔲 No	Casing	Left in Place	? 🗍 Yes 🗍	No					
Drillhole		If No, E	xplain							
X Borehole		Wee Ce	aing Cut Off	Polow Surface?	Ves 🗖 No					
Construction Type		Did Sez	ling Materia	$\square$ Rise to Surface?	Yes I No					
Drilled Driven (S	Sandpoint) 🗖 Dug	Did Ma	terial Settle	After 24 Hours?	Yes $\square$ No					
X Other (Specify) Geoprobe		If Yes	, Was Hole R	Letopped?	Yes 🔲 No					
		(5) Require	d Method of	Placing Sealing Materia	ıl					
Formation Type:		Con	ductor Pipe-C	Gravity Conducto	or Pipe-Pumped					
X Unconsolidated Formation	Bedrock	🗌 🗌 Dun	np Bailer	X Other (E:	xplain) Gravity					
Total Well Depth (ft.) Ca	sing Diameter (ins.)	(6) Sealing	Materials	For m	conitoring wells and					
(From groundsurface) Ca			t Cement Gro	out mont	oring went obtenoies only					
Lower Drillhole Diameter (in.)			crete		ntonite Pellets					
(==)			-Sand Slurry		anular Bentonite					
Was Well Annular Space Grouted?	Yes No Unknown	Ben	tonite-Sand S	Slurry Be	ntonite- Cement Grout					
If Yes, To What Depth?	Feet	Chi	oped Bentoni	te <sup>1</sup>						
(7) Sealing Materi	al Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant (Circle	Mix Ratio or Mud Weight					
			15.0	or Volume Olle)						
Granular Bentonite		Surface	15.0							
(8) Comments:										
(9) Name of Person or Firm Doing Sea	ling Work	(10)	FOR	IDNR (0); (*(8)UNENVA	1310 (O) NI BY					
Sigma Environmental Services		Date	Received/In:	spected L	nstrict/County					
Signature of Person Doine Work	Date Signed									
multime	<u>9/1/197</u>		ewer/inspect	"	Noncomplying Work					
Street or Koute 220 East Rvan Road	(414)-768-7144	Folle	w-up Necess	ary	1					
City, State, Zip Code		1 🚺	· · · · · · · · · · · · · · · · · · ·							
Oak Creek, WI 53154			3646							
	DNR/CO	UNTY								

Ål abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(f) GENERAL INFORMATION	······	(2) FACIL	ITY NAME							
Well/drillhole/Borehole	County	Original Well Owner (If Known)								
Location	Racine									
	X E	Present	t Well Owner	· · ·						
<u>NW</u> 1/4 of <u>SW</u> 1/4 Sec.	<u>9</u> ; T. <u>3</u> N; R. <u>23</u> W	Golden E	Books - Solve	nt Area						
(If applicable)		Street of	or Route							
Gov't Lot	Grid Number	1220 MIO	una Avenue							
Grid Location		City,	State, Zip Co	de						
ft. N. S.	, ft. 🛛 E. 🔂 W.	Racine, V	NI 53404							
Civil Town Name		GP-11								
Street Address of Wall		Decom	For Abondo							
1220 Mound Avenue		Geonroh	e horing	liment						
City Village		Date of	f Abandonme	nt						
City of Racine		Date of	ribandonine	06/ <b>04</b> /9 <b>7</b>						
WELL/DRILLHOLE/BOREHOL	E INFORMATION	<b>.</b>			······································					
(3) Original Well/Drillhole/Borehol	e Construction Completed On	(4) Depth (	to Water (Fee	et)						
(Date) 06/04/97	•	Pump	& Piping Ren	noved? TYes T	No X Not Applicable					
(2)	<u> </u>	Liner(s	Removed?		No X Not Applicable					
Monitoring Well	Construction Report Available?	Screen	Removed?		No X Not Applicable					
Water Well	X Yes No	Casing	Left in Place	$2 \square Yes \square$						
Drillhole		If No, H	Explain							
X Borehole	1		-							
		Was Ca	asing Cut Off	Below Surface?	Yes 🗌 No					
Construction Type:		Did Se	aling Materia	l Rise to Surface?	Yes 🔲 No					
Drilled Drive	en (Sandpoint) 🔲 Dug	Did Ma	aterial Settle	After 24 Hours?	Yes 🔲 No					
X Other (Specify) Geoprob	e	If Yes	s, Was Hole F	Retopped?	Yes 🔲 No					
		(5) Require	ed Method of	Placing Sealing Mater	rial					
Formation Type:			ductor Pipe-0	Gravity Conduc	tor Pine-Pumped					
X Unconsolidated Formation	Bedrock		nn Bailer	X Other (	Explain) Gravity					
Total Well Depth (ft.)	Casing Diameter (ins.)	(6) Sealing	Materials	For	monitoring wells and					
(From groundsurface)	Casing Depth (ft.)	☐ Nea	t Cement Gro	out mor	itoring well boreholes only					
		🗌 🔲 San	d-Cement (C	oncrete) Grout						
Lower Drillhole Diameter (in.)			crete	¦∐ E	Bentonite Pellets					
_			y-Sand Slurry		Franular Bentonite					
Was Well Annular Space Groute	d? 📋 Yes 🗌 No 🔲 Unknown	Ben	tonite-Sand S	Slurry 🛛 🗖 E	Bentonite- Cement Grout					
If Yes, To What Depth?	Feet	🗌 Chi	pped Bentoni	te I						
(7)		-		No. Yards, (Circl	e Mix Ratio					
Sealing Ma	iterial Used	From (Ft.)	To (Ft.)	or Volume One	or Mud Weight					
Granular Bentonite		Surface	15.0							
<b></b>			<b> </b>							
<u> </u>		<u> </u>								
(8) Comments:			1							
(c)										
(9) Name of Person or Firm Doing	Sealing Work	74105	FOR	8)/1/((6)/(8(6)11/4 <i>1</i> /4	US:000184					
Sigma Environmental Service	ces	Date	Received/Ins	spected	District/County					
Signature of Person Doing Wor	Date Signed	┥ 🖾		-						
1/and	12-6/10/97-	Revi	ewer/Inspecto	or	Complying Work					
Street or Route	Telephone Number	1		li	Noncomplying Work					
220 East Ryan Road	(414)-768-7144	Folic	ow-up Necess	агу						
City, State, Zip Code		7 🛛								
Oak Creek, WI 53154			3646							
-	DNR/CO	UNTY								

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION	(2) FACILITY NAME								
Well/drillhole/Borehole County	Original Well Owner (If Known)								
Location Racine									
<u>NW</u> 1/4 of <u>SW</u> 1/4 Sec. <u>9</u> ; T. <u>3</u> N; R. <u>23</u> V	Present Well Owner Golden Books - Solvent Area								
(If applicable) Gov't Lot Grid Number	Street or Route 1220 Mound Avenue								
Grid Location	City, State, Zip Code								
	Racine, WI 53404								
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No								
	GP-12								
Street Address of Well	Reason For Abandonment								
1220 Mound Avenue	Geoprobe boring								
City, Village	Date of Abandonment								
City of Racine	06/04/97								
WELL/DRILLHOLE/BOREHOLE INFORMATION									
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)								
(Date) 06/04/97	Pump & Piping Removed? Yes No X Not Applicable								
•	Liner(s) Removed? Yes No X Not Applicable								
Monitoring Well Construction Report Available?	Screen Removed?								
Water Well X Yes No	Casing Left in Place? Yes No								
Drillhole	If No, Explain								
X Borehole									
	Was Casing Cut Oil Below Surface?								
Construction Type:	Did Sealing Material Rise to Surface?								
X Other (Specify) Geoprope	If Veg. Weg Hele Determed?								
Formation Thread	(5) Required Method of Placing Sealing Material								
Formation Type:	Conductor Pipe-Gravity Conductor Pipe-Pumped								
A Onconsolidated Formation	Dump Bailer X Other (Explain) Gravity								
Total Well Depth (ft.) Casing Diameter (ins.)	(6) Sealing Materials For monitoring wells and								
(From groundsurface) Casing Depth (it.)	Neat Cement Grout monitoring well boreholes only								
	Sand-Cement (Concrete) Grout								
Lower Drillhole Diameter (in.)	Concrete Bentonite Pellets								
	Clay-Sand Slurry								
Was Well Annular Space Grouted? Yes No Unknow	<sup>n</sup> Bentonite-Sand Slurry Bentonite- Cement Grout								
	Chipped Bentonite								
(7) Sealing Material Used	From (Et ) To (Et ) Sacks Sealant (Circle Mix Ratio								
	or Volume One) or Mud Weight								
Granular Bentonite	Surface 15.0								
(8) Comments:									
· ·									
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY								
Sigma Environmental Services	Date Received/Inspected District/County								
Signature of Person Doing Work Date Signed									
Alato Aller COTO/97	Reviewer/Inspector Complying Work								
Street or Route Telephone Number	Noncomplying Work								
220 East Ryan Road (414)-768-7144	Follow-up Necessary								
City, State, Zip Code									
Oak Creek, WI 53154	3646								
DNR/C	JUNTY								

State of Wisconsin Department of Natural Resources

Ål abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACIL	ITY NAME	·····						
Well/drillhole/Borehole	County	Original Well Owner (If Known)								
Location	Racine									
		Present	Well Owner							
<u>NW 1/4 of SW 1/4 Sec.</u>	9 ; 1. <u>3</u> N; R. <u>23</u> W	Golden B	ooks - Solve	nt Area						
(If applicable) Gov't Lot	Grid Number	1220 Mor	and Avenue							
Grid Location		City,	State, Zip Co	de						
ft. 🗌 N. 🗌 S.,	ft E W.	Racine, V	VI 53404							
Civil Town Name		Facility	Well No. an	d/or Name (If Applic	able) WI Unique Well No					
Street Address of Well	<u></u>	Reason	For Abandor	nment						
1220 Mound Avenue		Geoprob	e boring	mont						
City, Village		Date of	Abandonme	nt						
City of Racine				06/04/97						
WELL/DRILLHOLE/BOREHOLE	INFORMATION									
(3) Original Well/Drillhole/Borehole (	Construction Completed On	(4) Depth t	to Water (Fee	t)						
(Date) 06/04/97		Pump &	& Piping Rem	noved? 🗌 Yes	No X Not Applicable					
		Liner(s	) Removed?	🗌 Yes	No X Not Applicable					
Monitoring Well	Construction Report Available?	Screen	Removed?	🗌 Yes	No X Not Applicable					
Water Well	X Yes 🔲 No	Casing	Left in Place	? 🗌 Yes	No					
Drillhole		If No, H	Explain							
X Borehole		Wee	aine Cut Off	Dalarre Cruefa a ol						
Que des dise Tress		Was Ca	ising Cut OII	Below Surface?						
Construction Type:	(Sandpoint) 🗖 Dug	Did Sea	anng Materia	After 24 Hours?						
X Other (Specify) Geoprobe		If Yes	Was Hole R	Retonned?	$\Box Yes \Box No$					
Formation Type:		(5) Require								
X Unconsolidated Formation	Bedrock		ductor Pipe-	Gravity Condu	ictor Pipe-Pumped					
Total Wall Donth (A)			np Bailer	X Other	(Explain) Gravity					
(From groundsurface)	Casing Depth (ft.)		t Comont Cr	t mo	onitoring well boreholes only					
(110			d-Cement (C)	oncrete) Growt						
Lower Drillhole Diameter (in.)			crete		Bentonite Pellets					
			v-Sand Slurry		Granular Bentonite					
Was Well Annular Space Grouted?	Yes 🗌 No 🔲 Unknown	n <b>H</b> Ben	tonite-Sand S		Bentonite- Cement Grout					
If Yes, To What Depth?	Feet		pped Bentoni	te						
(7)			<u></u>	No. Yards, (O:-	-1. Mix Ratio					
(7) Sealing Mate	rial Used	From (Ft.)	To (Ft.)	Sacks Sealant (Circ	ie) or Mud Weight					
Granular Bentonite	Andrea	Surface	13.0							
Granular Dentonite		Durinot								
		ļ								
•		<u> </u>	<u> </u>		· ····					
(9) Comments:			l							
(9) Name of Person or Firm Doing Se	aling Work	84103		8 1) 1 1 8 6 1 2 8 6 7 8 1 8 1 V K K	7/8 81.21 057 8 7.51 85 7.					
Sigma Environmental Services		Date	Received/In	merted	Enstrict/County					
Signature of Person Doing Work	Date Signed	- 1		•						
Mart. Alla	+ 6/6/97	Revi	ewer/Inspecto	or	Complying Work					
Street or Route	Telephone Number	-			Noncomplying Work					
220 East Ryan Road	(414)-768-7144	Follo	ow-up Necess	ary						
City, State, Zip Code		1 📖								
Oak Creek, WI 53154			3646							
	DNR/CO	UNTY	• • •	· • * * *	<ul> <li>The second se</li></ul>					

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILI	TY NAME							
Well/drillhole/Borehole Co	ounty Desire	Original Well Owner (If Known)								
	Kacine	Descent	Wall Owner	· ····						
NW 1/4 of SW 1/4 Sec. 9	$\cdot$ T <b>3</b> N·R <b>23</b> W	Golden B	ooks - Solver	nt Area						
(If applicable)		Street o	r Route							
Gov't Lot	Grid Number	1220 Mou	nd Avenue							
Grid Location		City, S	State, Zip Co	de						
ft. N. S.,	ft E W.	Facility Well No. and/or Name (If Applicable) WI Unique Well No.								
		GP-14								
Street Address of Well		Reason	For Abandon	ment						
1220 Mound Avenue		Geoprobe boring								
City, Village		Date of	Abandonmer	1t NG/N4/97						
WELL/DRILLHOLE/BOREHOLE INF	FORMATION			00/04/27						
(3) Original Well/Drillhole/Borehole Cons	struction Completed On	(4) Depth to	o Water (Fee	t)	· · · · · · · · · · · · · · · · · · ·					
(Date) 06/04/97		Pump &	Piping Rem	oved? Yes	No 🗴 Not Applicable					
· · · · ·		Liner(s)	Removed?	Yes	No X Not Applicable					
Monitoring Well C	onstruction Report Available?	Screen I	Removed?		No X Not Applicable					
Drillhole	X Yes No	If No. E	Left in Place		INO					
X Borehole				····						
—		Was Ca	sing Cut Off	Below Surface?	Yes 🔲 No					
Construction Type:	a de stat) 🗖 De s	Did Sea	ling Materia	Rise to Surface?	Yes No					
X Other (Specify) Geoprobe	ndponit) 🗋 Dug	Did Ma If Yes	Was Hole R	etopped?	Yes No					
		(5) Paguira	d Mathad of	Dissing Scaling Matori						
Formation Type:			ductor Pine-(	Fravity Conduct	ar Pine-Pumped					
X Unconsolidated Formation	Bedrock		np Bailer	X Other (E	Explain) Gravity					
Total Well Depth (ft.) Casi	ng Diameter (ins.)	(6) Sealing	Materials	For r	nomtoring wells and					
(From groundsurface) Casi	ng Depth (ft.)		t Cement Gro	out moni	toring well boreholes only					
Lower Drillhole Diameter (in )			1-Cement (Co	I D B	entonite Pellets					
			-Sand Slurry		ranular Bentonite					
Was Well Annular Space Grouted?	Yes No Unknown	Bent	tonite-Sand S	Slurry ¦ 🗖 B	entonite- Cement Grout					
If Yes, To What Depth?	Feet	Chip Chip	oped Bentoni	te I						
(7) Sealing Material	Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant (Circle	Mix Ratio					
			10 (2 11)	or Volume One	of Mud weight					
Granular Bentonite		Surface	11.0							
¢				-	_					
(8) Comments:										
(0) Name of Person or Firm Doing Seglin	ur Work	87680N8		8 8 7 7 8 9 87 6 7 9 37 6 7 8 5 7 % W 789	8[4] 107 9] 18 8. %					
Sigma Environmental Services	GWOIR	Date	Received/Ins	pected I	District/County					
Signature of Person Doing Wørk	Date Signed									
Marton Mana	<u>~ @/0/97</u>	Revit	ewer/Inspecto	or [	Complying Work					
Street or Route	Telephone Number	ISAN A	111 1117 M		tvoncomplying Work					
City, State. Zip Code	(117)-700-7144		w-mi inccess	ну. 						
Oak Creek, WI 53154			3646							
<u> </u>	DNR/COL	ĴNTY 👘	2040	n an	ى يې يېږې کېدېدېږو خو ندې و مېښې مېږو د اداده د د د د مېشه م 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACIL	ITY NAME						
Well/drillhole/Borehole Location	County Racine	Origina	l Well Owne	r (lf Known)					
	X E	Present	Well Owner						
<u>NW</u> 1/4 of <u>SW</u> 1/4 Sec. <u>9</u>	); T. <u>3</u> N; R. <u>23</u> W	Golden B	ooks - Solver	nt Area					
(If applicable) Gov't Lot	Grid Number	Street o 1220 Mou	r Route Ind Avenue						
Grid Location		City, S	State, Zip Co	de					
ft. 🔲 N. 🔲 S.,	ft. 🗌 E. 🔲 W.	Racine, V	VI 53404						
Civil Town Name		Facility	Well No. an	d/or Name (If Applicabl	e) WI Unique Well No				
······		GP-15							
Street Address of Well 1220 Mound Avenue		Reason For Abandonment Geoprobe boring							
City, Village		Date of	Abandonme	nt					
City of Racine				06/04/97					
WELL/DRILLHOLE/BOREHOLE I	NFORMATION								
(3) Original Well/Drillhole/Borehole C	onstruction Completed On	(4) Depth t	o Water (Fee	.t)					
(Date) 06/04/97		Pump 8	2 Piping Rem	ioved? 🗌 Yes 🔲	No X Not Applicable				
		Liner(s)	) Removed?	🗌 Yes 🔲	No 🔀 Not Applicable				
Monitoring Well	Construction Report Available?	Screen	Removed?	🗌 Yes 🔲	No X Not Applicable				
Water Well	X Yes No	Casing	Left in Place	? 🗍 Yes 🗍	No				
Drillhole		If No, E	xplain						
X Borehole									
—		Was Ca	sing Cut Off	Below Surface?	Yes 🔲 No				
Construction Type:		Did Sea	ling Materia	l Rise to Surface? 🛛 🔲	Yes 🔲 No				
Drilled Driven (	Sandpoint) 🔲 Dug	Did Ma	terial Settle	After 24 Hours? 🛛 🔲	Yes 🔲 No				
X Other (Specify) Geoprobe		If Yes	, Was Hole F	letopped?	Yes 🔲 No				
<u> </u>		(5) Require	d Method of	Placing Sealing Materia	1				
Formation Type:					u n Din e Derma e J				
X Unconsolidated Formation	Bedrock		auctor Pipe-	Javity Conducto	main) Creatity				
	— 		np Bailer	X Other (E)	xplain) Gravity				
(From groundsurface)	asing Depth (ft.)	(o) Seaming	Materials	ror in monit	oring well boreholes only				
(From groundsurface)			t Cement Gro	out mont	ioring were corenored only				
			a-Cement (C	oncrete) Grout	· · · • •				
Lower Drillhole Diameter (in.)			crete		ntonite Pellets				
			-Sand Slurry		anular Bentonite				
Was Well Annular Space Grouted?			tonite-Sand S		ntonite- Cement Grout				
If Yes, 10 what Depth?	Feet		pped Bentoni	te					
(7) Section Mater	in The d	Erom (Et )	To (Et )	No. Yards, Sacks Sealant (Circle	Mix Ratio				
		riom (rt.)	10(14.)	or Volume One)	or Mud Weight				
Granular Bentonite		Surface	11.0						
		<u></u>							
		ļ							
				<u> </u>					
(8) Comments:									
					· · · · · · · · · · · · · · · · · · ·				
(9) Name of Person or Firm Doing Sea	ling Work	(10)	E(0);	IDNR OR COUNTY U	SECONEY				
Sigma Environmental Services		Date	Received/In:	spected D	nstrict/County				
Signature of Person Doing Work	Date Signed	1							
Matin	- (e/re/a	Revi	ewer/Inspect	pr 🗌	Complying Work				
Street or Route	Telephone Number	1 🛛		IC IC	Noncomplying Work				
220 East Ryan Road	(414)-768-7144	Follo	w-up Necess	ary					
City, State, Zip Code		1 🛛							
Oak Creek, WI 53154			2646		· · · · · · · · · · · · · · · · · · ·				
	DNR/CO	<b>UNTY</b>	3040		ու է համանակում հետ ուրը այդ պետական, ուրը գետում է դարտին կատություն ելերել նախ չի տես երմու ավելինք ան ։ 				

# APPENDIX D

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# SOIL LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

I:\golden-b\3646\sub-inv.rpt

# CHAIN OF CUSTODY RECORD

Lab I.D. #



**Analytical Lab** 1090 Kennedy Ave. Kimberly, WI 54136 *(414) 735-8295* • FAX 414-739-1738 • 800-490-4902 USALAB@AOL.COM

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Rev. Date: 2-19-96

State Land Land

Account No. :	C	Quote No	). <b>:</b>											Paç	је <u>1</u>	of _			
Project #: 36 L	160				Sample Integri Method of Shir	ty - To co oment :	mplete	ed by rece	eiving lab. Temp	o. of Ten	np. Bla	ank	ە م	C Oŋ I	lce:				
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Project (Name / L	ogation)	Wa	spri	~ PUBI	islie.									Analy	/sis R	eque	sted		
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Company Cic	ma	Ċ	Company					Re	quest							Lo I			
Address Zz&	E. Ryan	Repa	ddress	ente s n	i enones	<b>RUN</b>		Rush / Date F	Analysis S Required	and the second			<u>()</u>	$\frac{1}{2}$		Alco			
City State Zip 🕖	Kroku	J C	ity State	Zip			EQ	Norma	al Turn Aro	und	HdT HdT	A 802	8021	413 8310		1-1-5	Б		
Phone	53	154 E	hone			and the set					Mod	EP.	EPA EPA	EPA	Point	計	- -		
Lab I.D.	Sample I.D.	Colle Date	ction Time	No. of ( Size a	Containers and Type	D Water	escrip Soil	otion Other (specify)	Preserva	tion	DRO (	PVOC	VOC (	PAH (	Pb Flash	No.		100	PID/* FID
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Accepted By:	co Ontional foi	r Soil Sa	mploe		- <b>L</b>			Time	Data	Deee			:an \						Déte
Disposition of un	used portion of s	sample	uihica	reinquis	vieu by tsign	$\boldsymbol{\lambda}$		gizeAH	(. Dale	nece		sy. (S				1			1/176
Lab Should:				FI	T25	1		<u> </u>		greet		ict	te	<u></u>		-40	- 40	 	
Dispose	Ret	ain for _	days																
Return	Oth	er		Receive	d in Laborator	y By:					C	)ate:				- T	ime:		



Analytical Laboratory

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1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295 WI DNR Certified Lab #445027660

Report Date:	19-Jun-97				Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date:	3646 Golden Book GP-10, 11-13 5017193A Soil 04-Jun-97	s 3'	
Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed;	Analyzed By:	QC Code
TOTAL SOLIDS	85.6			%		06-Jun-97	B.Rettler	1
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	16-Jun-97	18-Jun-97	D. Menominee	1
ISOPROPYL ALCOHOL MODIFIED SW846 8015A	< 1.0	1	3	MG/KG		12-Jun-97	M. Ricker	2
NAPTHA MODIFIED WDNR SEP 95	< 10	0.58	1.8	MG/KG		12-Jun-97	G. Shah	2

LOD = Limit of Detection

LOQ = Limit of Quantitation

### QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

2

Reference sample only. Non standard method used for analysis of sample.

Authorized Signature

THE SER RED VED RECEI JUN 3 0 1997 \_\_\_\_\_



Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By: 19-Jun-97 C. Rotar

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	10	33	1
Bromobenzene	< 25	5.8	19	1
Bromodichloromethane	< 25	6.1	19	1
n-Butylbenzene	< 25	14	46	1
sec-Butylbenzene	< 25	18	58	1
tert-Butylbenzene	< 25	10	33	1
Carbon Tetrachloride	< 25	16	51	1
Chlorobenzene	< 25	5.8	19	1
Chloroethane	< 25	20	64	1
Chloroform	< 25	8.8	28	1
Chloromethane	< 25	15	47	1
2-Chlorotoluene	< 25	6.1	19	1
4-Chlorotoluene	< 25	7	22	1
1,2-Dibromo-3-Chloropropane	< 25	8.5	27	1
Dibromochloromethane	< 25	1.8	5.7	1
1,2-Dichlorobenzene	< 25	5	16	1
1,3-Dichlorobenzene	< 25	5.5	18	1
1,4-Dichlorobenzene	< 25	5.5	18	1
Dichlorodifluoromethane	< 25	21	68	1
1,1-Dichloroethane	< 25	9.4	30	1
1,2-Dichloroethane	< 25	5.4	17	1
1,1-Dichloroethene	< 25	16	50	1
cis-1,2-Dichloroethene	< 25	8.8	28	1
trans-1,2-Dichloroethene	< 25	12	37	1
1,2-Dichloropropane	< 25	5.9	19	1
1.3-Dichloropropane	< 25	6.6	21	1

Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date: Date Analyzed: 3646 Golden Books GP-10, 11-13' 5017193A Soil 04-Jun-97 07-Jun-97

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	23	73	1
Di-isopropyl Ether	< 25	8.1	26	1
Ethylbenzene	< 25	9.5	30	1
EDB (1,2-Dibromoethane)	< 25	1.3	4.2	1
Hexachlorobutadiene	< 25	13	43	1
Isopropylbenzene	< 25	11	34	1
p-Isopropyitoiuene	< 25	11	34	1
Methylene Chloride	< 25	8	25	1
MTBE	< 25	6.1	19	1
Naphthalene	50	20	65	1
n-Propylbenzene	< 25	11	36	1
1,1,2,2-Tetrachloroethane	< 25	7.2	23	1
Tetrachloroethene	< 25	12	37	1
Toluene	< 25	11	36	1
1,2,3-Trichlorobenzene	< 25	19	60	1
1,2,4-Trichlorobenzene	< 25	16	51	1
1,1,1-Trichloroethane	< 25	12	40	1
1,1,2-Trichloroethane	< 25	2.2	7	1
Trichloroethene	< 25	9.8	31	1
Trichlorofluoromethane	< 25	25	83	1
124-Trimethylbenzene	< 25	7.7	25	1
1,3,5-Trimethylbenzene	< 25	15	47	1
Vinyl Chloride	< 25	18	57	1
m&p-Xylene	< 50	18	59	1
o-Xvlene	< 25	66	21	1

LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable QC Batch #

060264

**Authorized Signature** 

Fluorobenzene Surrogate

Total % Solids

1.4-Dichlorobutane Surrogate

1. AL

96 % Rec.

103 % Rec.

85.6

## WI DNR Certified Lab #445027660

1

GC #6



## Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

# WI DNR Certified Lab #445027660

**QC Summary** 

#### Method 8021 Volatile Organic Compounds

Project #:	Report Date:		19-Jun-97				
Sample ID:	GP-10, 11-1		Lab Code:		5017193A		
ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	P	Р	Р	P	Р	P	Р
Bromobenzene	P	Р	P	P	P	P	Р
Bromodichioromethane		P				P	Р
In-Butylbenzene							P
sec-Butylbenzene		P					
Carbon Tetrachloride		P					
Chlombenzene	P	P	P			P	P
Chloroethane	P	Ē	P			P	Р
Chiereform	Р	P	Р	P	P	P P	P
Chloromethane	Р	P	P	Р	P	P	P
2-Chlorotoluene	Р	Р	Р	Р	P	P	Р
4-Chlorotoluene	Р	P	Р	Р	P	P	Р
1,2-Dibromo-3-Chloropropane	Р	Р	Р	Р	Р	P	Р
Dibromochloromethane	Р	P	P	P	Р	P	Р
1,2-Dichlorobenzene	Р	Р	Р	P	Р	P	Р
1,3-Dichlorobenzene	Р	P	Р	P	Р	P	Р
1,4-Dichiorobenzene	Р	Р	Р	P	Р	P	Р
Dichlorodifluoromethane	P	F	P	P	P	P	Р
1,1-Dichloroethane	Р	Р	P	P	P	P	Р
1,2-Dichloroethane	Р	Р	P	P	P	P	P
		P			P		P
cis-1,2-Dichloroethene		р р					
1 2-Dichloropropage		P	р р		P	P	P
1.2-Dichloropropane	6	г р	<b>–</b>		<b>–</b>		
2.2-DCP cis-1 2-DCF	, P	p	p	P	P	P	P
Di-Isopropyl Ether	P	P	P	P	P	Р	P
Ethylbenzene	P	P	P	P	P	P.	P
EDB (1,2-Dibromoethane)	P	P	P	Р	P	Р	P
Hexachlorobutadiene	Р	Р	Р	Р	Р	Р	Р
Isopropyibenzene	Р	P	р	Р	Р	Р	Р
p-isopropyitoiuene	Р	Р	Р	Р	Р	Р	Р
Methylene Chloride	Р	P	P	Р	Р	Р	Р
MTBE	Р	Р	Р	Р	Р	Р	Р
Naphthalene	Р	Р	Р	Р	Р	Р	Р
n-Propyibenzene	P	P	Р	Р	Р	Р	Р
1,1,2,2-Tetrachioroethane	P	P	P	Р	P	Р	Р
Tetrachioroethene	Р	Р	Р	Р	P	Р	Р
1 Oluene		P 6	P		P		P
1,2,3-Trichlorobenzene		F	P				
		г Б					
1 1 2-Trichloroethane		D	<b>D</b>		D		6
Trichloroethene	p	P	p	P P	Р	P	p
Trichlorofluoromethane	p	F	F	P	Р	P P	P
124-Trimethylbenzene	P	P	P	P	P	P	P
1,3,5-Trimethylbenzene	P	P	P	P	P	P	Р
Vinyl Chloride	Р	P	Р	Р	Р	Р	Р
m&p-Xylene	Р	Р	Р	Р	Р	Р	Р
o-Xylene	Р	Р	Р	Р	Р	Р	Р
			`				

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable QC Batch # 060264

VOC analysis detected unidentified peaks.

Authorized Signature



Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136

414-735-8295

**Report Date:** 

## WI DNR Certified Lab #445027660

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

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19-Jun-97

Project #:3646Project :Golden BooksSample ID:GP-11, 11-13'Lab Code:5017193BSample Type:SoilSample Date:04-Jun-97

Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By;	QC Code
TOTAL SOLIDS	86.6			%		06-Jun-97	B.Rettler	1
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	16-Jun-97	17-Jun-97	D. Menominee	1
ISOPROPYL ALCOHOL MODIFIED SW846 8015A	< 1.0	1	3	MG/KG		12-Jun-97	M. Ricker	2
NAPTHA MODIFIED WDNR SEP 95	< 10	0.58	1.8	MG/KG		12-Jun-97	G. Shah	2

LOD = Limit of Detection

LOQ = Limit of Quantitation

## QC SUMMARY

All laboratory QC requirements were met for this sample.

1

2

Reference sample only. Non standard method used for analysis of sample.

AC

**Authorized Signature**


VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

> Project #: Project :

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By: 19-Jun-97 C. Rotar

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	10	33	1
Bromobenzene	< 25	5.8	19	1
Bromodichloromethane	< 25	6.1	19	1
n-Butyibenzene	< 25	14	46	1
sec-Butylbenzene	< 25	18	58	1
tert-Butylbenzene	< 25	10	33	1
Carbon Tetrachloride	< 25	16	51	1
Chlorobenzene	< 25	5.8	19	1
Chloroethane	< 25	20	64	1
Chloroform	< 25	8.8	28	1
Chioromethane	< 25	15	47	1
2-Chlorotoluene	< 25	6.1	19	1
4-Chiorotoluene	< 25	7	22	1
1,2-Dibromo-3-Chloropropane	< 25	8.5	27	1
Dibromochloromethane	< 25	1.8	5.7	1
1,2-Dichlorobenzene	< 25	5	16	1
1,3-Dichlorobenzene	< 25	5.5	18	1
1,4-Dichlorobenzene	< 25	5.5	18	1
Dichlorodifluoromethane	< 25	21	68	1
1,1-Dichloroethane	< 25	9.4	30	1
1,2-Dichloroethane	< 25	5.4	17	1
1,1-Dichloroethene	< 25	16	50	1
cis-1,2-Dichloroethene	< 25	8.8	28	1
trans-1,2-Dichloroethene	< 25	12	37	1
1,2-Dichloropropane	< 25	5.9	19	1
1.3-Dichloropropane	< 25	6.6	21	1

Sample ID:	GP-1
Lab Code:	5017
Sample Type:	Soil
Sample Date:	04-J
Date Analyzed:	07-J
ANALYTE	RES
2.2-DCP.cis-1.2-DCE	< 25
Di-isopropyl Ether	< 25
Ethylbenzene	< 25

Golden Books GP-11, 11-13' 5017193B Soil 04-Jun-97 07-Jun-97

3646

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	23	73	1
Di-isopropyl Ether	< 25	8.1	26	1
Ethylbenzene	< 25	9.5	30	1
EDB (1,2-Dibromoethane)	< 25	1.3	4.2	1
Hexachlorobutadiene	< 25	13	43	1
isopropylbenzene	< 25	11	34	1
p-Isopropyitoluene	< 25	11	34	1
Methylene Chloride	< 25	8	25	1
МТВЕ	< 25	6.1	19	1
Naphthalene	90	20	65	1
n-Propylbenzene	< 25	<sup>-</sup> 11	36	1
1,1,2,2-Tetrachioroethane	< 25	7.2	23	1
Tetrachloroethene	< 25	12	37	1 .
Toluene	< 25	11	36	1
1,2,3-Trichlorobenzene	< 25	19	60	1
1,2,4-Trichlorobenzene	< 25	16	51	1
1,1,1-Trichloroethane	< 25	12	40	1
1,1,2-Trichloroethane	< 25	2.2	7	1
Trichloroethene	< 25	9.8	31	1
Trichiorofluoromethane	< 25	25	83	1
124-Trimethylbenzene	< 25	7.7	25	1
1,3,5-Trimethylbenzene	< 25	15	47	1
Vinyl Chloride	< 25	18	57	1
m&p-Xylene	< 50	18	59	1
o-Xylene	< 25	6.6	21	1

060264

LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable QC Batch #

Authorized Signature

Fluorobenzene Surrogate

Total % Solids

1,4-Dichlorobutane Surrogate

96 % Rec.

104 % Rec.

86.6

WI DNR Certified Lab #445027660

GC #6



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

# WI DNR Certified Lab #445027660

**QC Summary** 

### Method 8021 Volatile Organic Compounds

Project #:	3646			Report Date: 19-Jun-97			
Sample ID:	GP-11, 11-1	GP-11, 11-13'		Lab Code:		5017193B	
	-						
ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	P	Р	Р	P	P	P	Р
Bromobenzene	Р	Р	Р	Р	P	P	P
Bromodichloromethane	P	Р		Р	P	P	P
n-Butylbenzene	P	Р	P	Р	P	P	P
sec-Butylbenzene							P
Certhen Tetrachleride							
Chlombenzene							P P
Chloroethane	5						r D
Chloroform	, p	P		P	P		P
Chloromethane	P	P	P	P	P	P P	P
2-Chlorotoluene	P	P	P	Р	P	P	P
4-Chlorotoluene	P	Р	Р	Р	P	Р	P
1,2-Dibromo-3-Chloropropane	P	Р	Р	Р	Р	P	P
Dibromochioromethane	P	Р	P	Р	Р	P	P
1,2-Dichlorobenzene	Р	Р	Р	Р	Р	P	Р
1,3-Dichiorobenzene	Р	Р	P	Р	Р	Р	P
1,4-Dichlorobenzene	Р	Р	P	Р	P	Р	P
Dichlorodifluoromethane	P	F	P	P		P	P
1,1-Dichloroethane	P	P	P	Р	P	P	P
1,2-Dichioroethane		P				P	P P
1, 1-Dichloroethene							
trang_1_2_Dichlomethene						P	
1 2-Dichloropmpane		þ			P	p p	
1.3-Dichloropropane	, p	P	P	, P	P	P P	P
2.2-DCP.cis-1.2-DCE	, P	P	P	P	P	P	P
Di-Isopropyi Ether	P	P	Р	P	Р	P	P
Ethylbenzene	P	Р	Р	Р	Р	Р.	Р
EDB (1,2-Dibromoethane)	P	P	P	P	P	P	P
Hexachlorobutadiene	Р	Р	Р	Р	Р	P	Р
Isopropylbenzene	P	Р	P	Р	Р	P	Р
p-isopropyitoluene	P	Р	P	Р	Р	Р	Р
Methylene Chioride	P	Р	P	P	Р	Р	P
MIBE	P	Р		I P	P	Р	Р
Naphthalene		Р		Р	P	P	P
1 4 2 2 Tetrablemethere							
Tetrachiomethene							P
Toluene		6					r D
1 2 3-Tricblombenzene	þ	P	P	, P	P	P	P
1.2.4-Trichlorobenzene	P	F	P	, P	P	P P	P
1.1.1-Trichloroethane	P	P	P	P	P	P	P
1,1,2-Trichloroethane	P	P	P	P	P	P	P
Trichloroethene	Р	Р	Р	P	Р	Р	Р
Trichlorofluoromethane	P	F	F	P	Р	P	Р
124-Trimethylbenzene	P	Р	P	Р	P	Р	Р
1,3,5-Trimethylbenzene	P	P	P	P	P	P P	Р
Vinyi Chloride	Р	Р	Р	P	P	Р	Р
m&p-Xylene	P				P		Р
lo-xyiene	P	P	P	P	P	<u>р</u>	P

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable QC Batch # 060264

VOC analysis detected unidentified peaks.

Authorized Signature

f. Ac



TIM WIMMER

WI DNR Certified Lab #445027660

QC Code

1

1

2

2

SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154					Project : Sample ID: Lab Code: Sample Type:	Golden Book GP-12, 5-7' 5017193C Soil	S
Report Date:	19-Jun-97				Sample Date:	04-Jun-97	
Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:
TOTAL SOLIDS	86.3			%		06-Jun-97	B.Rettier
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	16-Jun-97	17-Jun-97	D. Menominee
ISOPROPYL ALCOHOL MODIFIED SW846 8015A	< 1.0	1	3	MG/KG		12-Jun-97	M. Ricker

0.58

Project #:

3646

LOD = Limit of Detection

**MODIFIED WDNR SEP 95** 

NAPTHA

LOQ = Limit of Quantitation

12-Jun-97 G. Shah

### QC SUMMARY

All laboratory QC requirements were met for this sample.

1.8 MG/KG

1

2

< 10

. Reference sample only. Non standard method used for analysis of sample.

Har

Authorized Signature



VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By: 19-Jun-97 C. Rotar

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	10	33	1
Bromobenzene	< 25	5.8	19	1
Bromodichloromethane	< 25	6.1	19	1
n-Butylbenzene	< 25	14	46	1
sec-Butylbenzene	< 25	18	58	1
tert-Butylbenzene	< 25	10	33	1
Carbon Tetrachloride	< 25	16	51	1
Chiorobenzene	< 25	5.8	19	1
Chioroethane	< 25	20	64	1
Chioroform	< 25	8.8	28	1
Chloromethane	< 25	15	47	1
2-Chlorotoluene	< 25	6.1	19	1
4-Chlorotoluene	< 25	7	22	1
1,2-Dibromo-3-Chloropropane	< 25	8.5	27	1
Dibromochloromethane	< 25	1.8	5.7	1
1,2-Dichlorobenzene	< 25	5	16	1
1,3-Dichlorobenzene	< 25	5.5	18	1
1,4-Dichlorobenzene	< 25	5.5	18	1
Dichlorodifluoromethane	< 25	21	68	1
1,1-Dichloroethane	< 25	9.4	30	1
1,2-Dichloroethane	< 25	5.4	17	1
1,1-Dichloroethene	< 25	16	50	1
cis-1,2-Dichloroethene	< 25	8.8	28	1
trans-1,2-Dichloroethene	< 25	12	37	1
1,2-Dichloropropane	< 25	5.9	19	1
1.3-Dichloropropane	< 25	6.6	21	1

Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date:

Date Analyzed:

3646 Golden Books GP-12, 5-7' 5017193C Soil 04-Jun-97 07-Jun-97

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	23	73	1
Di-isopropyl Ether	< 25	8.1	26	1
Ethylbenzene	< 25	9.5	30	1
EDB (1,2-Dibromoethane)	< 25	1.3	4.2	1
Hexachlorobutadiene	< 25	13	43	1
Isopropylbenzene	< 25	11	34	1
p-isopropyitoluene	< 25	11	34	1
Methylene Chloride	< 25	8	25	1.
МТВЕ	< 25	6.1	19	1
Naphthalene	< 25	20	65	1
n-Propylbenzene	< 25	11	36	1
1,1,2,2-Tetrachloroethane	< 25	7.2	23	1
Tetrachloroethene	< 25	12	37	1
Toluene	< 25	11	36	1
1,2,3-Trichlorobenzene	< 25	19	60	1
1,2,4-Trichlorobenzene	< 25	16	51	1
1,1,1-Trichloroethane	< 25	12	40	1
1,1,2-Trichloroethane	< 25	2.2	7	1
Trichloroethene	< 25	9.8	31	1
Trichlorofluoromethane	< 25	25	83	1
124-Trimethylbenzene	< 25	7.7	25	1
1,3,5-Trimethylbenzene	< 25	15	47	1
Vinyl Chloride	< 25	18	57	1
m&p-Xylene	< 50	18	59	1
o-Xvlene	< 25	6.6	21	1

LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable QC Batch #

060264

GC #6

Authorized Signature

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate

Total % Solids

1/ci

97 % Rec.

104 % Rec.

86.3

WI DNR Certified Lab #445027660



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

# WI DNR Certified Lab #445027660

QC Summary

### Method 8021 Volatile Organic Compounds

Project #:	3646			Report Da	te:	19-Jun-97	
Sample ID:	GP-12, 5-7'			Lab Code:		5017193C	
ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CAUBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	
Benzene	P	P	P	P	P	P	P
Bromobenzene	P	P	l P	P	P	P	Р
Bromodichloromethane	Р	Р	Р	Р	Р	Р	Р
n-Butylbenzene	Р	Р	P	Р	Р	Р	Р
sec-Butylbenzene	Р	Р	Р	Р	P	Р	Р
tert-Butylbenzene	Р	Р	P	Р	Р	Р	Р
Carbon Tetrachloride	P	Р	P	Р	P	P	Р
Chlorobenzene	Р	Р	P	Р	P	P	Р
Chioroethane	P	F	P	P	P	Р	P
Chioroform	P	P P	P	Р	P	P	Р
Chloromethane	P	Р	P	Р	P	Р	P
2-Chlorotoluene	Р	P	P	P	P	Р	Р
4-Chlorotoluene	P	Р	P	P		Р	Р
1,2-Dibromo-3-Chloropropane	Р	Р	P	P		P	Р
Dibromochloromethane		P	Р	P		Р	Р
1,2-Dichlorobenzene	Р			P	P	Р	Р
1,3-Dichlorobenzene							Р
1,4-Dichlorobenzene							P
Lichiorodituoromethane							P
1.2 Dichlomethane		5					
1.1 Dichlomethene	5			5			
ck-1 2-Dichlomethene	6			6	6		
trans 1 2 Dichlomethene	P			p			p
1.2-Dichloropropane	Р	, P	Þ	P	P	, P	P
1.3-Dichloropropane	P	, P	P	P	l p	P	P
2.2-DCP.cis-1.2-DCE	P	P.	, P	P	, P	P P	P
D-isopropyl Ether	P	P	P	Р	P	P	P
Ethylbenzene	P	P	P	P	P	Р.	P
EDB (1,2-Dibromoethane)	Р	Р	P	Р	P	P	Р
Hexachlorobutadiene	Р	Р	Р	Р	Р	Р	Р
Isopropyibenzene	Р	Р	Р	Р	P	Р	Р
p-isopropyitoluene	Р	Р	Р	Р	Р	Р	Р
Methylene Chloride	Р	Р	Р	Р	P	Р	Р
MTBE	Р	Р	Р	Р	P	Р	Р
Naphthalene	Р	Р	Р	Р	P	Р	Р
n-Propylbenzene	Р	Р	Р	Р	P	Р	Р
1,1,2,2-Tetrachloroethane	Р	P	P	Р	P	P	Р
Tetrachloroethene	Р	P		Р		P	Р
1 oluene			P	Р		P	P
1,2,3-1 Inchioropenzene							
1,2,4-Inchlorobenzene		ן ב		P			
1,1,2 Trichlomethane				P			
			p p				
Trichlomfuoromethane	, p	, F	F	þ	Р	P	p
124-Trimethylbenzene	P	, P	Р	P	P		p
1.3 5-Trimethylbenzene	, P	, P	Р	P	P		Р
Vinvi Chloride	, P	, P	, P	P	P	, P	p l
m&p-Xviene	l P	, P	P	P	P	, ,	P
o-Xviene	P	, P	P	P	P	, P	P
				l	· ·		•

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable QC Batch # 060264

VOC analysis detected unidentified peaks.

Authorized Signature



WI DNR Certified Lab #445027660

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154 Beport Date:	19 <u>~</u> ]un-97				Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date:	3646 Golden Book GP-13, 5-7' 5017193D Soil 04- lun-97	S	
Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed;	Analyzed By:	QC Code
TOTAL SOLIDS	87.9			%		06-Jun-97	B.Rettler	1
MODIFIED DRO WDNR SEP 95 ·	< 10	1.7	5.5	MG/KG	16-Jun-97	17-Jun-97	D. Menominee	1
ISOPROPYL ALCOHOL MODIFIED SW846 8015A	< 1.0	1	3	MG/KG		12-Jun-97	M. Ricker	2
NAPTHA MODIFIED WDNR SEP 95	< 10	0.58	1.8	MG/KG		12-Jun-97	G. Shah	2

LOD = Limit of Detection

LOQ = Limit of Quantitation

### QC SUMMARY

### CODE:

1

All laboratory QC requirements were met for this sample.

2

Reference sample only. Non standard method used for analysis of sample.

Authorized Signature



VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By: 19-Jun-97 C. Rotar

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	10	33	1
Bromobenzene	< 25	5.8	19	1
Bromodichloromethane	< 25	6.1	19	1
n-Butylbenzene	< 25	14	46	1
sec-Butylbenzene	< 25	18	58	1
tert-Butylbenzene	< 25	10	33	1
Carbon Tetrachloride	< 25	16	51	1
Chlorobenzene	< 25	5.8	19	1
Chloroethane	< 25	20	64	1
Chioroform	< 25	8.8	28	1
Chioromethane	< 25	15	47	1
2-Chlorotoluene	< 25	6.1	19	1
4-Chlorotoluene	< 25	7	22	1
1,2-Dibromo-3-Chioropropane	< 25	8.5	27	1
Dibromochloromethane	< 25	1.8	5.7	1
1,2-Dichlorobenzene	< 25	5	16	1
1,3-Dichlorobenzene	< 25	5.5	18	1
1,4-Dichlorobenzene	< 25	5.5	18	1
Dichlorodifluoromethane	< 25	21	68	1
1,1-Dichloroethane	< 25	9.4	30	1
1,2-Dichloroethane	< 25	5.4	17	1
1,1-Dichloroethene	< 25	16	50	1
cis-1,2-Dichloroethene	< 25	8.8	28	1
trans-1,2-Dichloroethene	< 25	12	37	1
1,2-Dichloropropane	< 25	5.9	19	1
1.3-Dichloropropane	< 25	6.6	21	1

Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date: Date Analyzed:

3646 Golden Books GP-13, 5-7' 5017193D Soil 04-Jun-97 07-Jun-97

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	23	73	1
Di-Isopropyl Ether	< 25	8.1	26	1
Ethylbenzene	< 25	9.5	30	1
EDB (1,2-Dibromoethane)	< 25	1.3	4.2	1
Hexachlorobutadiene	< 25	13	43	1
Isopropylbenzene	< 25	11	34	1
p-Isopropyltoluene	< 25	11	34	1
Methylene Chloride	< 25	8	25	1
MTBE	< 25	6.1	19	1
Naphthalene	< 25	20	65	1
n-Propylbenzene	< 25	11	36	1
1,1,2,2-Tetrachioroethane	< 25	7.2	23	1
Tetrachloroethene	< 25	12	37	1
Toluene	< 25	11	36	1
1,2,3-Trichlorobenzene	< 25	19	60	1
1,2,4-Trichlorobenzene	< 25	16	51	1
1,1,1-Trichloroethane	< 25	12	40	1
1,1,2-Trichloroethane	< 25	2.2	7	1
Trichloroethene	< 25	9.8	31	1
Trichlorofluoromethane	< 25	25	83	1
124-Trimethylbenzene	< 25	7.7	25	1
1,3,5-Trimethylbenzene	< 25	15	47	1
Vinyl Chloride	< 25	18	57	1
m&p-Xylene	< 50	18	59	1
o-Xylene	< 25	6.6	21	1

LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable QC Batch #

GC #6

060264

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids 94 % Rec. 101 % Rec. 87.9

Authorized Signature

WI DNR Certified Lab #445027660



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

# WI DNR Certified Lab #445027660

QC Summary

### Method 8021 Volatile Organic Compounds

Project #: Sample ID:	3646 GP-13, 5-7'			Report Date: Lab <b>Co</b> de:		19-Jun-97 5017193D		
•						1		
ANALYTE		KNOWN STANDARD	SPIKE	SPIKE	BLANK	PID	HALL	
Benzene	P	Р	P	P	P	I P	Р	
Bromobenzene	Р	P	P	P	P	P	Р	
Bromodichloromethane	Р	P	Р	P	Р	P	Р	
n-Butylbenzene	Р	P	Р	P	P	Р	Р	
sec-Butylbenzene	Р	P	Р	P	P	P	Р	
tert-Butylbenzene	Р	P	Р	P	P	Р	Р	
Carbon Tetrachloride	Р	Р	Р	P	Р	Р	Р	
Chlorobenzene	Р	Р	Р	P	Р	P	Р	
Chloroethane	Р	F	P	P	Р	Р	P	
Chloroform	P	Р	Р	P	Р	Р	P	
Chloromethane	P	Р	Р	P	Р	Р	Р	
2-Chiorotoluene	P	Р	P	Р	P	Р	Р	
4-Chiorotoluene	P	Р	P	Р	Р	Р	Р	
1,2-Dibromo-3-Chloropropane	Р	Р	P	P	P	Р	Р	
Dibromochloromethane	P	Р	P	P	P	Р	Р	
1,2-Dichlorobenzene	Р	Р	P	P	P	P	P	
1,3-Dichlorobenzene	P	Р	P	P	P	P	Р	
1,4-Dichlorobenzene		Р	P	P		Р	Р	
Dichlorodifluoromethane	P	F	P	P	P	Р		
1,1-Dichloroethane	Р	Р				P	Р	
1,2-Dichloroethane	Р	Р	P	P	P	Р	P	
1,1-Dichloroethene	P	Р						
cis-1,2-Dichloroethene		Р						
trans-1,2-Dichloroethene								
1,2-Dichloropropane		P						
1,3-Dichioropropane		2					P	
Discorregid Ether		P					5	
Ethulbeszere		P					P	
Environmentane)		P			5	P ·	r B	
Loweblerebutediene		F						
Isonronvibanzana	6	D	6	P	Þ		p	
n leopropytolijana		þ		, p	P	D	P	
Methylene Chloride	þ	Þ			P	P	P	
MTRE		P		P	P	, p	P	
Nanhthalene	P	P	P	P	P	p	Р	
n-Propylbenzene	P	P	P	, P	P	P	P	
1 1 2 2-Tetrachioroethane	P	P	P	P	P	P	P	
Tetrachloroethene	P	P	P	, P	P	P	P.	
Toluene	P	P	P	P	P	Р	P	
1.2.3-Trichlorobenzene	P	P	P	Р	Р	Р	Р	
1.2.4-Trichlorobenzene	P	F	P	P	P	P	P	
1.1.1-Trichloroethane	P	P	Р	P	Р	P	P	
1, 1, 2-Trichloroethane	P P	P	Р	P P	P	P	P	
Trichloroethene	Р	P	P	P	P	P	P I	
Trichlorofluoromethane	I P	F	F	P	P	P	P	
124-Trimethylbenzene	P	P	Р	P	P	P	P	
1,3,5-Trimethylbenzene	P	P	Р	P	P	P	Р	
Vinyi Chloride	Р	P	Р	P	P	Р	Р	
m&p-Xylene	Р	P	Р	P	P	P	Р	
o-Xylene	Р	Р	Р	ļ Р	Р	P	Р	

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable QC Batch # 060264

VOC analysis detected unidentified peaks.

Authorized Signature

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WI DNR Certified Lab #445027660

TIM WIMMER ·	
SIGMA ENVIRONMENTAL	
220 EAST RYAN ROAD	
OAK CREEK WI 53154	

19-Jun-97

Project #:	3646
Project :	Golden Books
Sample ID:	GP-14, 5-7'
Lab Code:	5017193E
Sample Type:	Soil
Sample Date:	04-Jun-97

Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	86.5			%		06-Jun-97	B.Rettler	1
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	16-Jun-97	17-Jun-97	D. Menominee	1
ISOPROPYL ALCOHOL MODIFIED SW846 8015A	< 1.0	1	3	MG/KG		12-Jun-97	M. Ricker	2
NAPTHA MODIFIED WDNR SEP 95	< 10	0.58	1.8	MG/KG		12-Jun-97	G. Shah	2

LOD = Limit of Detection

**Report Date:** 

LOQ = Limit of Quantitation

### QC SUMMARY

### CODE:

1

All laboratory QC requirements were met for this sample.

2

Reference sample only. Non standard method used for analysis of sample.

Authorized Signature



VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By: 19-Jun-97 C. Rotar

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	10	33	1
Bromobenzene	< 25	5.8	19	1
Bromodichloromethane	< 25	6.1	19	1
n-Butylbenzene	< 25	14	46	1
sec-Butylbenzene	< 25	18	58	1
tert-Butylbenzene	< 25	10	33	1
Carbon Tetrachloride	< 25	16	51	1
Chlorobenzene	< 25	5.8	19	1
Chloroethane	< 25	20	64	1
Chloroform	< 25	8.8	28	1
Chloromethane	< 25	15	47	1
2-Chlorotoluene	< 25	6.1	19	1
4-Chlorotoluene	< 25	7	22	1
1,2-Dibromo-3-Chloropropane	< 25	8.5	27	1
Dibromochloromethane	< 25	1.8	5.7	1
1,2-Dichlorobenzene	< 25	5	16	1
1,3-Dichlorobenzene	< 25	5.5	18	1
1,4-Dichlorobenzene	< 25	5.5	18	1
Dichlorodifluoromethane	< 25	21	68	1
1,1-Dichloroethane	< 25	9.4	30	1
1,2-Dichloroethane	< 25	5.4	17	1
1,1-Dichloroethene	< 25	16	50	1
cis-1,2-Dichloroethene	< 25	8.8	28	1
trans-1,2-Dichloroethene	< 25	12	37	1
1,2-Dichloropropane	< 25	5.9	19	1
1,3-Dichloropropane	< 25	6.6	21	1

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids 96 % Rec. 100 % Rec.

86.5

Authorized Signature

Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date: Date Analyzed: 3646 Golden Books GP-14, 5-7' 5017193E Soil 04-Jun-97 07-Jun-97

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	23	73	1
Di-Isopropyl Ether	< 25	8.1	26	1
Ethylbenzene	< 25	9.5	30	1
EDB (1,2-Dibromoethane)	< 25	1.3	4.2	1
Hexachlorobutadiene	< 25	13	43	1
Isopropylbenzene	< 25	11	34	1
p-isopropyttoluene	< 25	11	34	1
Methylene Chloride	< 25	8	25	1
МТВЕ	< 25	6.1	19	1
Naphthalene	< 25	20	65	1
n-Propylbenzene	< 25	11	36	1
1,1,2,2-Tetrachloroethane	< 25	7.2	23	1
Tetrachioroethene	< 25	12	37	1
Toluene	< 25	11	36	1
1,2,3-Trichlorobenzene	< 25	19	60	1
1,2,4-Trichlorobenzene	< 25	16	51	1
1,1,1-Trichloroethane	< 25	12	40	1
1,1,2-Trichloroethane	< 25	2.2	7	1
Trichloroethene	< 25	9.8	31	1
Trichlorofluoromethane	< 25	25	83	1
124-Trimethylbenzene	< 25	7.7	25	1
1,3,5-Trimethylbenzene	< 25	15	47	1
Vinyl Chloride	< 25	18	57	1
m&p-Xylene	< 50	18	59	1
o-Xviene	< 25	6.6	21	1

LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable QC Batch #

060264

GC #6

WI DNR Certified Lab #445027660



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

# WI DNR Certified Lab #445027660

QC Summary

### Method 8021 Volatile Organic Compounds

Project #:	3646			Report Da	te:	19-Jun-97	
Sample ID:	GP-14, 5-7'			Lab Code:		5017193E	
•	•						
ANALYTE		KNOWN	MATRIX			PID	HATT
	CAUDDATION	0741/0400	CONT	0000		0000000	runnocarr.
Banzana	B	STANUARD	P	B	D	DURROGAIE	BORROGATE
Bromohanzana		5			6		
Bromodichloromethane	p b	P	P	P	, P	P	P
n-Butylbenzene	P	P	P	P	P	P	P
sec-Butylbenzene	P	P	P	P	P	P	P
tert-Butylbenzene	P	Р	Р	Р	Р	Р	P
Carbon Tetrachloride	Р	P	P	Р	P	Р	Р
Chiorobenzene	P	Р	Р	Р	Р	Р	Р
Chloroethane	P	F	Р	P	Р	Р	Р
Chloroform	P	Р	Р	P	P	Р	Р
Chloromethane	I P	P	· P	Р	Р	Р	P
2-Chiorotoluene	Р	Р	Р	P	Р	Р	Р
4-Chiorotoiuene	P	P	Р	P	Р	Р	P
1,2-Dibromo-3-Chloropropane	Р	Р	P	P	P	Р	P
Dibromochloromethane	Р	Р	P	P	P	Р	Р
1,2-Dichlorobenzene	Р	Р	Р	P		Р	Р
1,3-Dichlorobenzene		P	P			2	P
1,4-Dichlorobenzene		P	P				P
1 1 Dichlomothane		r	р р				P
1.2 Dichlomethane		P				р р	Р
1,2-Dichloroethane		г Б	- F				г Б
rie-1 2-Dichloroathana		F D	r D			6	Г D
trans.1 2-Dichlomethene	þ	P	r p	p	<b>b</b>		P
1.2-Dichloropropane	P P	P	P	P	P	P	P
1 3-Dichloropropane	P	P	P	P	P	P	P
2.2-DCP.cls-1.2-DCE	P	P	P	P	P	P	P
Di-isopropyl Ether	Р	P	P	Р	P	Р	P
Ethylbenzene	Р	P	Р	Р	P	Ρ.	P
EDB (1,2-Dibromoethane)	Р	Р	P	Р	P	Р	Р
Hexachlorobutadiene	P	P	P	Р	Р	Р	P
isopropyibenzene	Р	Р	Р	Р	P	Р	Р
p-isopropyitoluene	Р	P	P	P	P	Р	Р
Methylene Chloride	Р	P	Р	Р	P	Р	Р
MTBE	P :	Р	Р	Р	P	Р	Р
Naphthalene	P	Р	P	P	P	Р	Р
n-Propylbenzene	Р	P	P	Γ P	P	Р	Р
1,1,2,2-Tetrachloroethane	P	Р	P	P	P	Р	Р
Tetrachloroethene	P	P	P	P	P	Р	P
1 oluene		P	2				P
1,2,3-Inchloropenzene		р Е	۲ ۲				Р р
1,2,4-Inchioropenzene			P D				P
1 1 2 Trichlomethane		r D	<b></b>			6	
Trichlomethene		P P	þ	6	6		F D
Trichlorofluoromethane	P P	F	F	l p	P P	P	P
124-Trimethylbenzene	P	P	P	P	P	P	P
1.3.5-Trimethylbenzene	P	P	P	P	P	P	P
Vinyt Chloride	P	P	P	P	P	P	P
m&p-Xylene	P	P	P	Р	P	Р	P
o-Xylene	Р	P	P	P	P	Р	Р
				1	1		

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable QC Batch # 060264

VOC analysis detected unidentified peaks.

Authorized Signature

J-Ac



voc Method 8021 Volatile Organic Compounds (Methanol Preserved)

TIM WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By:

19-Jun-97 C. Rotar

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	10	33	1
Bromobenzene	< 25	5.8	19	1
Bromodichloromethane	< 25	6.1	19	1
n-Butylbenzene	< 25	14	46	1
sec-Butylbenzene	< 25	18	58	1
tert-Butylbenzene	< 25	10	33	1
Carbon Tetrachloride	< 25	16	51	1
Chlorobenzene	< 25	5.8	19	1
Chloroethane	< 25	20	64	1
Chloroform	< 25	8.8	28	1
Chloromethane	< 25	15	47	1
2-Chlorotoluene	< 25	6.1	19	1
4-Chlorotoluene	< 25	7	22	1
1,2-Dibromo-3-Chloropropane	< 25	8.5	27	1
Dibromochloromethane	< 25	1.8	5.7	1
1,2-Dichlorobenzene	< 25	5	16	1
1,3-Dichlorobenzene	< 25	5.5	18	1
1,4-Dichlorobenzene	< 25	5.5	18	1
Dichlorodifluoromethane	< 25	21	68	1
1,1-Dichloroethane	< 25	9.4	30	1
1,2-Dichloroethane	< 25	5.4	17	1
1,1-Dichloroethene	< 25	16	50	1
cis-1,2-Dichloroethene	< 25	8.8	28	1
trans-1,2-Dichloroethene	< 25	12	37	1
1,2-Dichloropropane	< 25	5.9	19	1
1.3-Dichloropropane	< 25	6.6	21	1

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids

98 % Rec. 101 % Rec. 85.4

Authorized Signature

Project #: Project : Sample ID: Lab Code: Sample Type: Sample Date: Date Analyzed:

3646 Golden Books GP-15, 5-7' 5017193F Soil 04-Jun-97 07-Jun-97

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	23	73	1
Di-isopropyl Ether	< 25	8.1	26	1
Ethylbenzene	< 25	9.5	30	1
EDB (1,2-Dibromoethane)	< 25	1.3	4.2	1
Hexachlorobutadiene	< 25	13	43	1
Isopropylbenzene	< 25	11	34	1
p-Isopropyttoluene	< 25	11	34	1
Methylene Chloride	< 25	8	25	1
МТВЕ	< 25	6.1	19	1
Naphthalene	< 25	20	65	1
n-Propylbenzene	< 25	11	36	1
1,1,2,2-Tetrachioroethane	< 25	7.2	23	1
Tetrachloroethene	< 25	12	37	1
Toluene	< 25	11	36	1
1,2,3-Trichlorobenzene	< 25	19	60	1
1,2,4-Trichlorobenzene	< 25	16	51	1
1,1,1-Trichloroethane	< 25	12	40	1
1,1,2-Trichloroethane	< 25	2.2	7	1
Trichloroethene	< 25	9.8	31	1
Trichlorofluoromethane	< 25	25	83	1
124-Trimethylbenzene	< 25	7.7	25	1
1,3,5-Trimethylbenzene	< 25	15	47	1
Vinyl Chloride	< 25	18	57	1
m&p-Xylene	< 50	18	59	1
o-Xvlene	< 25	66	21	1

LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable QC Batch #

060264

GC #6

WI DNR Certified Lab #445027660



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

# WI DNR Certified Lab #445027660

QC Summary

### Method 8021 Volatile Organic Compounds

Project #:	3646			Report Dat	e:	19-Jun-97	
Sample ID:	GP-15 5-7'			Lab Code:		5017193F	
Gampie ID.	0, 10, 07			200 00000		•••••	
				DEDUCATE	DI ANIK	nin	LATI
ANALYTE	INITIAL	KNOWN	MAIRIA	REPLICATE	DLAINK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene					P	P D	P
Bromobenzene			p p		Р	Р	P
n-Butvibenzene	P	P	P	P	P	Р	P
sec-Butylbenzene	P	P	P	P	P	Р	Р
tert-Butylbenzene	Р	Р	Р	Р	Р	Р	Р
Carbon Tetrachloride	Р	Р	Р	Р	Р	Р	Р
Chlorobenzene	Р	Р	P	Р	Р	Р	Р
Chloroethane	Р	F	P	P	P	P	Р
Chloroform	Р	Р	P 2		P		P
Chloromethane	P		· P		۲ ۵		۳
					Г Р		F D
4-Chiorotoluene		5	5		p		P
1,2-Dibromo-5-Chloropropane	P	, F	P	P P	P	P	P
1.2.Dichlombenzene	, P	P	P	P	P	, P	P
1 3-Dichlombenzene	P	P	P	P	P	P	P
1.4-Dichlorobenzene	P	P	P	∙Р	Р	Р	Р
Dichlorodifluoromethane	P	F	Р	Р	Р	Р	Р
1,1-Dichloroethane	Р	Р	Р	Р	Р	P	Р
1,2-Dichloroethane	Р	Р	Р	Р	Р	P	Р
1,1-Dichloroethene	P	Р	Р	P	Р	P	Р
cis-1,2-Dichloroethene	Р	Р	P	Р	Р	P	P
trans-1,2-Dichloroethene	P	P	P	P	Р	P	Р
1,2-Dichloropropane	Р		Р	I P	P		Р
1,3-Dichloropropane	P	P	P		P		
2,2-DCP,CIS-1,2-DCE							F
DHisopropyi Ether							P
EDB (1 2 Dibromosthane)			P	P	P	Р	P
Hexachiomobutadiene	P	P	P	P	P	P	P
isopropyibenzene	P	P	P	P	P	Р	Р
p-isopropyttoluene	Р	Р	Р	Р	P	Р	Р
Methylene Chloride	P	P	Р	Р	Р	Р	Р
MTBE	P	Р	P	P	Р	Р	Р
Naphthalene	Р	Р	Р	Р	Р	Р	Р
n-Propylbenzene	Р	P	P	Р	P	P	Р
1,1,2,2-Tetrachloroethane	P	Р	<u>P</u>	Р	P		Р
Tetrachioroethene	P	P					
Toluene				P			
					P	P	P 1
1 1 2 Trichloroethane			P	P	P	P	P
Trichloroethene	P	P	P.	l P	P	P	P
Trichlorofluoromethane	Р	F	F	P	Р	Р	Р
124-Trimethylbenzene	P	Р	P	Р	P	P	P
1,3,5-Trimethylbenzene	P	P	P	P	P	Р	Р
Vinyt Chloride	Р	P	P	Р	P	P	Р
m&p-Xylene	Р	P	Р	P	Р	P	Р
o-Xylene	P	Р	P	P	P	P	Р

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable QC Batch # 060264

VOC analysis detected unidentified peaks.

Authorized Signature

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ENVIRONMENTAL & REGULATORY SERVICES 101 West Pleasant Street Suite 205 Milwaukee, Wisconsin 53212 Fax: (414) 220-5374 Tommy G. Thompson, Governor William J. McCoshen, Secretary

# COMM 47 REMEDIAL ALTERNATIVE RESPONSE

CLAIMANT: Ms. Carol Rinelli Golden Books Publishing 1220 Mound Ave. Racine, WI 53404 CLAIM # 53404-3365-20 SITE: Golden Books Publishing 1220 Mound Ave. Racine, WI

# RECOMMENDED ALTERNATIVE:

SUBMITTAL DATE: June 16, 1998

Limited Soil Excavation and Off-Site Biopile Treatment (est. 290 tons) Natural Attenuation Groundwater Monitoring (8 quarters)

XXX Approved with cost caps

\$ 50,000.00 Cap on total cost to closed remedial action status

Site will be bundled with other remediation(s)

Site will be directed to the public bid process

### COMMENTS:

With this letter, the department approves the technical approach selected by your consultant. However, the costs to closed remedial action are higher than what is typically seen in projects of similar size and scope. Please note the fourth bulleted item below.

**Important Claim Note**: This document serves as the Department's written approval to submit your first claim for eligible site investigation and remedial action planning costs, per COMM 47.355(2)(b). Please include a copy of this document in your site investigation claim package.

- COMM 47.33(2)(b) The cost detail for the selected remediation alternative shall establish the total estimated cost for the remediation up to
  the point of receiving approval as a closed remedial action.
- COMM 47.337(5) CLAIMANT OPTIONS. (a) After receiving an approval of a remedial action plan from the department, a claimant may elect to
  either implement the alternative or to select another alternative. If the claimant elects to implement a higher cost remedial strategy, the
  claimant must notify the department in writing of the intent to use a higher cost alternative. The notification must include the statement that
  the claimant agrees that the department approved alternative establishes the maximum reimbursable amount for consulting and commodity
  services under the fund and that additional costs for the occurrence, excluding interest, will not be submitted to the fund.
- COMM 47.01(3) INTENT OF PECFA. (a) The PECFA fund does not relieve a responsible party from liability. The individual or organization
  responsible for a contaminated property shall carry out the remediation of that property. PECFA's role is to provide monetary awards to
  responsible parties who have completed and paid for PECFA approved remediation activities and services. The availability or unavailability
  of PECFA funding shall not be the determining factor as to whether a remediation shall be completed.
- The approval does not guarantee the reimbursement of costs. Final determination regarding the eligibility of costs will be determined at the
  time of claim review. The department's approval is based on the limited information submitted in the remedial alternative cost approval
  document and does not imply that the department concurs that the recommended remedial alternative will achieve the remedial results
  anticipated by the consultant or required by law.

# SIGNATURE

July 16, 1998

cc:

Jennifer Skinner (tel. 414-220-5373) Hydrogeologist PECFA Site Review Section

Sigma Environmental Services Mike Farley, WDNR Remediation and Redevelopment Program

PARTMENT OF NATURA	AL RESOURCES	STATE DIV. EMERGENCY U.S. NAT'L. RESPONSE CE CHEMTREC/PESTICIDES//	GOVT. 608/266-3232 INCIDENT REPORT NTER 800/424-8802 FORM 4400-91 8-84 HLORINE 800/424-9300	
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DISTRICT



# WESTERN PUBLISHING COMPANY, INC.

**986** 

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February 5, 1986

Seaman Charon United States Coast Guard 5036 4th Avenue Kenosha, WI 53140

Re: Oil Spill Occurrence at Western Publishing Company, Inc. Racine, Wisconsin Facility on January 19 and January 20, 1986

Dear Seaman Charon:

As a follow-up to my telephone conversation with you regarding the oil spill that occurred at Western Publishing Company, attached is a narrative detailing the cause, resultant impact and remedial action taken to control, remove and dispose of the spilled material.

We are continuing monitoring of the area in question to make sure that the removal operation is complete.

Should you have any questions, please do not hesitate to contact me. I can be reached at the following number (414) 631-5074.

Sincerely,

Stand C. Lene

Norval C. Lamb, Manager Environmental/Energy Engineering

NCL/pk Attach.

cc: Department of Natural Resources ✓ Southeast District

#### OIL SPILL OCCURRENCE REPORT

LOCATION

Western Publishing Company, Inc. Plant 6 526 Marquette St. Racine, Wisconsin 53404

DATE OF OCCURRENCE

1/19/86 - 1/20/86

DISCHARGE IDENTIFICATION

At Outfall No. 026, WPDES Permit No. 0026107 See Attached Exhibit "A"

#### A. DESCRIPTION OF OCCURRENCE

On January 21, 1986 we were contacted by Peter Jensen of the Racine County Emergency Government regarding an observed oil slick in the Root River. The area in question, as shown on Exhibit "A", covered about 150'-0" East & West of the Marquette Street Bridge along the Southern Shore Line.

The accidental discharge was as a result of a rupture in the hydraulic oil system piping, within a non-contact water cooled heat exchanger. Due to the higher operating pressure of the hydraulic system, the hydraulic fluid was forced into the shell of the heat exchanger (cooling water side of the system) and subsequently discharged along with the cooling water to the Root River via the storm water collection and discharge system.

#### B. RESULTING IMPACT

As a result of this spill, approximately sixty (60) gallons of hydraulic oil was discharged to the Root River via Outfall #026. However, due to the natural ice formation on the River, the spill was contained in the immediate area (Exhibit "A").

- C. REMEDIAL ACTION
  - 1. Immediate
    - a. AAA Environmental Industries Inc. of Milwaukee was brought in to contain, remove and dispose of this spilled material; approximately fifty (50) gallons of this material was recovered.
    - b. The affected section of cooling water piping was disconnected and the contents flushed into 55 gallon containers for disposal off-site at an approved landfill.
    - c. The ruptured oil cooling heat exchanger will be removed and replaced with a new unit.

### Oil Spill Occurrence Report February 5, 1986 Page 2

#### REMEDIAL ACTION (Cont.) C.

- The sewer piping leading to Outfall No. 026 has been thoroughly d. flushed to remove all traces of residue of hydraulic oil.
- Absorbent pads have been placed in several locations to further e. remove any free oil.
- f. Peter R. Jensen, Coordinator for the Racine County Office of Emergency Government, along with members of the City of Racine Police and Fire Departments assisted in the clean-up operation.

#### D. NOTIFICATION

--

- The U.S. Coast Guard Station at 5036 4th Avenue, Kenosha, Wisconsin 1. was notified immediately (Seaman Charon) of the spill, in addition to the Wisconsin Department of Natural Resources, Hazardous Spills Reporting Division (Southeast District).
- FUTURE CONSIDERATIONS IN PREVENTING A SIMILAR OCCURRENCE Ε.
  - We are currently investigating the use of an oil sensor in the 1. once-through cooling water system that in the event of oil detection would activate an alarm and immediately shut-off the water supply.

Submitted on Behalf of Western Publishing Company, Inc.

By:

Norval C. Lamb (Name) Vail

Manager, Environmental/ Title: Energy Engineering

Date: 2/5/36



Department of Natural Resources

. •

LEAKING UNDERGROUND STORAGE TANK (Case Tracking) Form 4400-146 Rev. 2-93

ma	he fust#2 .				
UTD Number: -52-113803 FTD Number: 252	005050 PMN Number:				
County: Racine	Initial Contact Date: 12, 26,96				
Site Name: Golden Books Publishing	Date RPLetter Sent: 1218,96				
Address: 1220 Mound Avenue	Date Closure Approved://				
Racine, W1 53404					
Municipality: <u>Racine</u>	Person/Firm Reporting: Sigma - by Fax				
Legal Descript:1/41/4 secTN R(E/W)					
Lat.: Long.:	Phone Number: ()				
Priority ScreeningScoring CriteriaFunding Sou $\times$ 1 = High1	InceEffective DateLUST Trust EligibleP $\_$				
Score: Init: Date:/	/				
Case Status					
(F) Free Product Removal					
Phone Number: (414) 621-1826	▶ (4) Groundwater Contamination				
CC's:	K (5) Soil Contamination				
	(6) Other:				
	(7) Surface Water Impacts				
	(9) Floating Product				
Consultant Contact Name: <u>Tim Wimmer</u> Company Name:: <u>Sigma Environmental</u> Address: <u>220 E. Ryan Road</u> <u>Oak Creek, WJ 53154</u> Telephone: <u>(414)</u> 768-7144	Substances# Tank(s)Size $(1)$ Leaded Gas $(2)$ Unleaded Gas $(3)$ Diesel $(3)$ Diesel $(4)$ Fuel Oil $(4)$ Fuel Oil $(4)$ Fuel Oil $(5)$ Unkwn Hydrocrbn $(5)$ Unkwn Hydrocrbn $(5)$ Unkwn Hydrocrbn $(4)$ So Other $(12)000$ is opropyl alcohol $(12)$ Waste Oil 3,000 Dag that				

11/26/96

Wisconsin Department of Natural Resources

TO

Notification of Petroleum Contamination from Underground Storage Tank System

Please complete this form and FAX it to the LUST Program Assistant immediately upon discovery of a release from an UST system.

Mike Farley TO: WDNR, Attn: **FAX** #:

1.

2.

Name, company, mailing address and phone number of person reporting the discharge:

mothy E. Wimmen Sigma Environmental Services, Inc 220 East Ryan Road Oak Creek, WI 53154 Phone: (414) 768-7144

Site Information:

Name of site at which discharge occurred (local name of site/business - not responsible party name, unless a residence): Golden Books Publishing

Formerly Western Publishing Company, Inc.

Location (actual street address, not PO box: if no street address, describe as precisely as possible, i.e., ¼ mile NW of CTHs 60 & 123 on E side of CTH 60):

1220 Mound Avenue

Municipality (city, village, township in which the site is located - not mailing address):

Kacine

County: Racine

Legal Description: \_\_\_\_\_ ¼, \_\_\_\_\_ ¼, Section \_\_\_\_\_ TN \_\_\_\_, Range \_\_\_\_\_ E / W

Responsible Part (RP and/or RP Representative Information

Company Name: Golden Books Publishing Company Contact Person: Bobette Sajion Mailing Address (with zip code): 1220 Mound Ave. Rac. Telephone Number: 414/631-1820

53404

4.

3.

Identify tank size(s) and contents (list all that apply):

Unleaded gasoline Fuel oil Leaded gasoline ... Waste oil Other 6,000 gallon - Tso propyl Akoli. 3,000 gallon - Napha . Diesel

5.

Impacts to the environment: \_\_\_\_\_ Fire/explosion threat \_\_\_\_\_ Contaminated private wells \_\_\_\_\_ (# of wells \_\_\_\_) \_\_\_\_ \_\_\_\_ Contaminated public wells \_\_\_\_\_

Soil contamination Surface water impacts Floating product Other \_

6. Contamination was discovered as a result of:

Groundwater contamination

- Tank closure assessment \_\_\_\_\_ Site assessment \_\_\_ (Other)
- 7. Immediate actions being taken and the name of the contractor or other person performing the actions: site has been backfilled and UST's removed from the site.
- 8. Source, speed of movement, and destination or probable destination of the discharged hazardous substance: Unknown
- 9. Local soil type and topography in the area of the discharge, depth to groundwater, and distance to surface water: Soil consists of peagravel backfill surrounded by a stiff sith.
- 10. Weather conditions existing at the scene, including presence of precipitation, and wind direction and velocity: Cloudy,  $4emp = 2.35^{\circ}F$

11. Soil contaminant concentration of laboratory analytical samples (if known): PID result was B70 i.v.i. A soil sample was submitted to a laboratory for analysis of DRO, VOC's, Additional Comments: isopropyl alcohol and huptha. These results will be forwanded when available.

> f:\sigma\forms\wdnr.not TOTAL P.02



220 East Ryan Road Oak Creek, WI 53154-4533 414-768-7144 FAX: 414-768-7158

December 2, 1996

Project Reference #3646

Mr. Mike Farley Wisconsin Dept. of Natural Resources 4041 North Richards Street P.O. Box 12436 Milwaukee, WI 53212

RE: Golden Books Publishing

Dear Mr. Farley:

Please find the Wisconsin Department of Natural Resources Notification of Petroleum Contamination from Underground Storage Tank System for Golden Books Publishing. A facsimile of the enclosed form was sent to you on Tuesday, November 26, 1996. If you have any questions, please contact our office at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

Timothy E. Wimmer, P.G.

Project Scientist

TEW:bjg

Enclosure

cc: Ms. Bobette Sajion - Golden Books Publishing

Wisconsin Department of Natural Resources



Notification of Petroleum Contamination from Underground Storage Tank System

Please complete this form and FAX it to the LUST Program Assistant immediately upon discovery of a release from an UST system.

Mi ke tarley TO: WDNR, Attn: FAX #:

1. Name, company, mailing address and phone number of person reporting the discharge:

Timothy E.W.mmen Sigma Environmental Services 220 East Ryan Road Oak Creek, WI 53154

2. Site Information:

Phone: (414) 768-7144

Name of site at which discharge occurred (local name of site/business - not responsible party name, unless a residence): Golden Books Publishing Formerly Western Publishing Company, Inc.

Location (actual street address, not PO box; if no street address, describe as precisely as possible, i.e., ¼ mile NW of CTHs 60 & 123 on E side of CTH 60):

1220 Mound Avenue

Municipality (city, village, township in which the site is located - not mailing address):

Racine

County: Racine

Legal Description: \_\_\_\_\_ ¼, \_\_\_\_\_ ¼, Section \_\_\_\_\_ TN \_\_\_\_, Range \_\_\_\_\_ E / W

3. Responsible Part (RP and/or RP Representative Information

Company Name: Golden Books Publishing Company Contact Person: Bobette Sailon Mailing Address (with zip code): 1220 Mound Ave. Racine Telephone Number: 414/631-1820

4. Identify tank size(s) and contents (list all that apply):

. Unleaded gasoline \_ Fuel oil Waste oil Waste oil Other <u>6,000 gallon</u> - Iso propyl Akoh 3,000 gallon - Naptha \_\_\_\_\_ Leaded gasoline \_\_\_\_\_ Diesel

- 5. Impacts to the environment:
  Fire/explosion threat
  Contaminated private wells
  (# of wells \_\_\_\_\_)
  Contaminated public wells
  Groundwater contamination

  6. Contamination was discovered as a result of:
  - \_\_\_\_\_ Tank closure assessment \_\_\_\_ Site assessment \_\_ (Other) \_\_\_\_\_
  - 7. Immediate actions being taken and the name of the contractor or other person performing the actions: Site has been backfilled and UST's removed From the site.
  - 8. Source, speed of movement, and destination or probable destination of the discharged hazardous substance: Un Known
  - 9. Local soil type and topography in the area of the discharge, depth to groundwater, and distance to surface water: Soil consists of Peagravel backfill surrounded by a stiff sith.
  - 10. Weather conditions existing at the scene, including presence of precipitation, and wind direction and velocity: Cloudy, temp  $Z 35^{\circ}F$ .
  - 11. Soil contaminant concentration of laboratory analytical samples (if known): PID result was \$70 i.v.i. A soil sample was submitted to a laboratory for analysis of DRO, VOC's, Additional Comments: isopropyl alcohol and numptha. These results will be forwarded when available.

# State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES



James Doyle, Governor Scott Hassett, Secretary Gloria L. McCutcheon, Regional Director Southeast Region Sturtevant Service Center 9531 Rayne Road, Suite IV Sturtevant, Wisconsin 53177 Telephone 262-884-2300 FAX 262-884-2304 TDD 262-884-2304

September 18, 2003

Golden Book Publishing ATTN: Carol Rinelli 2825 4 Mile Road Racine, WI 53402

Subject: Request for Information for the Former Western Publishing, Golden Books Publishing site located at 1220 Mound Ave, Racine, WI FID 252005050, BRRTS 03-52-107113 (diesel and unleaded gasoline tanks) and 03-52-113803 (naptha and isopropyl tanks)

Dear Ms. Rinelli:

Please provide in writing to the Department the current status of the remedial actions for the above noted sites.

The Department has not received any information regarding these two sets of tanks since 1998. We have recently been contacted about this property that there is now a school located on this property and there have been some health concerns brought to the Department's attention.

If Golden Books Publishing is not the current owner of the property and/or not the party responsible for the completion of the remedial actions at these two tank locations please provide that information to the Department in writing within 15 days.

Due to the potential health concerns this is not something the Department can wait on and Enforcement Actions may be pursued.

If Golden Books Publishing will be continuing the remedial actions for these tanks sites please provide the most recent information to the Department within 15 days. The Department also requests that a map of the entire property identifying the location of both tank areas be provided.

Thank you for your assistance in this matter and we await your response. If you have questions please contact me at 262-884-2341.

Sincerely,

Shanna L Laube, P.G. Hydrogeologist

Cc: Sigma Environmental Services, 220 E. Ryan Road, Oak Creek, WI 53154 Saji Villoth, DNR Air Management Program, Milwaukee Headquarters Southeast Region





March 14, 1997

220 East Ryan Road Oak Creek, WI 53154-4533 414-768-7144 FAX: 414-768-7158

Project Reference #3646 RECEIVED MAR 1 3 183

Mr. Mike Farley Wisconsin Dept. of Natural Resources **4041 North Richards Street** P.O. Box 12436 Milwaukee, WI 53212

RE: Golden Books Publishing

Dear Mr. Farley:

Enclosed please find the proposed scope of work for a remedial investigation at Golden Books Publishing in Racine, Wisconsin. A subsurface investigation is needed to define the extent of Isopropyl Alcohol and Naphtha impacts at the site.

This workplan was prepared to meet the requirements of Chapter NR 716, Wisconsin Administrative Code. If you have any questions or comments about the proposed scope of work, please contact our office at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

5 Aless

Martin D. Nessman Staff Hydrogeologist

TEW:bjg

imothy E. Wimmer, P.G. roject Scientist

Enclosure

CC: Mr. Roman Chojnacki - Golden Books Publishing

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PROPOSED SCOPE OF WORK FOR A REMEDIAL INVESTIGATION TO DEFINE ISOPROPYL ALCOHOL AND NAPHTHA IMPACTS AT GOLDEN BOOKS PUBLISHING WDNR LUST ACTIVITY #03-52-113803 ł

PREPARED FOR: GOLDEN BOOKS PUBLISHING 1220 MOUND AVENUE RACINE, WI 53404

PREPARED BY: SIGMA ENVIRONMENTAL SERVICES, INC. 220 EAST RYAN ROAD OAK CREEK, WISCONSIN 53154 PHONE: (414) 768-7144

**MARCH 1997** 

**PROJECT REFERENCE #3646** 

### 1. **PROJECT OVERVIEW**

- 1.1 Introduction. This scope of work was prepared for Golden Books Publishing (GBP) to define the extent of solvent impacts identified during a tank closure assessment at the GBP facility located at 1220 Mound Avenue in Racine, Wisconsin. The site is located in the SW 1/4, SE 1/4 of Section 9, Township 3 north, Range 23 east of the Racine South Quadrangle in Racine County, Wisconsin. Based on field observations, a release from the former tank systems was apparent. A soil sample from a sidewall of the excavation was collected above the groundwater table and submitted to a Wisconsin Department of Natural Resources (WDNR) certified laboratory for Diesel Range Organics (DRO), EPA Method 8021 Volatile Organic Compounds (VOCs), Isopropyl Alcohol and Naphtha. Laboratory results indicate that soil is impacted with solvents associated with the former tanks. A copy of the laboratory report is provided as Appendix A.
- **1.2 Purpose.** The purpose of the subsurface investigation is 1) determine the extent of solvent impacts to soil and potentially groundwater, and 2) provide sufficient geologic and hydrogeologic data to aid in an evaluation of remedial alternatives to address the impacted soil and potentially impacted groundwater beneath the site.

The project goals defined above should be achieved by completing the tasks outlined in Sigma's Scope of Work. If it appears that additional investigation is necessary prior to developing a comprehensive remedial strategy, Sigma will prepare an addendum to this workplan for approval by the Wisconsin Department of Natural Resources (WDNR).

# 2. REMEDIAL INVESTIGATION

Soil Borings and Monitoring Well Installation. To fully define the extent of the solvent impact identified at the site, Sigma proposes to advance five soil borings at the site to a depth of 15 feet below ground surface (bgs). Soil boring locations will include the former tank locations and adjacent to the

1

former tank locations. The five soil borings will be converted to two-inch diameter groundwater monitoring wells constructed with PVC well materials in accordance with Wisconsin Administrative Code Chapter NR 141.

Soil samples will be collected continuously during the soil boring advancement. Recovered soil samples will be screened for volatile organic compound gas using a photoionization detector (PID). One or two soil samples from each soil boring will be submitted for analytical testing based on the field testing and sample location. One soil sample will be analyzed from each soil boring from the sample interval exhibiting the highest PID reading or the interval immediately above the groundwater table. If appropriate, a second soil sample from the underlying interval where PID readings diminish will also be submitted for analytical testing. In the event that elevated PID readings are not found, the soil sample from the base of the soil boring or the interval above the encountered water will be submitted for analytical testing. Analytical testing for soil samples will include Diesel Range Organics (DRO) to evaluate soil quality for kerosene, Method 8021 Volatile Organic Compounds (VOC), Isopropyl Alcohol and Naphtha to define the extent of impact.

To develop a baseline of groundwater quality at the site, groundwater samples will be collected from the monitoring well network. The wells will be properly developed in accordance with Chapter NR 141 prior to sampling activities. Similarly, analytical testing for groundwater will include DRO, Method 8021 VOC's, Isopropyl Alcohol and Naphtha to define the extent of impacts.

The elevation of each monitoring well will be determined using standard surveying techniques in accordance with WAC Chapter NR 716 and Chapter NR 141. This survey will establish monitoring well elevations, locate buildings near the investigation area and accurately depict the work area. The static water levels in all the monitoring wells will be measured to determine the trend of groundwater movement and horizontal hydraulic gradient.

2

### Quality Assurance/Quality Control

To verify proper decontamination during groundwater sampling activities an equipment rinsate blank will be collected from equipment before groundwater samples are collected. To verify consistent groundwater sampling methodology, a duplicate groundwater sample will be collected from one monitoring well. To ensure the integrity of groundwater samples during shipment, a travel blank sample will accompany each cooler. The aforementioned samples will be analyzed for method 8021 VOC's.

### Waste Disposal

Auger cuttings generated during drilling activities will be temporarily stored onsite. The cuttings will be removed from the site for proper disposal at the conclusion of remediation activities.

Groundwater generated during monitoring well development and sampling activities will be stored in 55 gallon drums. Water stored in the drums will be disposed at the end of the investigation activities.

### **RI Report and Corrective Action Plan Preparation**

At the conclusion of the RI activities, a report summarizing and discussing the results of these activities along with a proposal to remediate impacts at the site will be issued in accordance with Wisconsin Administrative Code Chapter NR 716. The comprehensive report will discuss the types, degree and extent of subsurface soil and groundwater contamination and will discuss feasible remedial alternatives for the subject site. Sigma's report will be structured to include discussions and evaluations of the following items:

• Site operations and historical use of the property.

• A listing of any adjacent properties suspected to have adversely impacted the environmental integrity of the subject site.

- Brief overviews of any previously completed investigation or assessments at the subject site.
- Investigative procedures to include drilling methods, soil sampling techniques, monitoring well construction methods, and groundwater sampling protocol.
- Regional geology and hydrogeology.
- Local geology and hydrogeology.
- Potential contaminant migration pathways.
- Soil and groundwater laboratory results discussed in the context of current Wisconsin soil and groundwater quality regulations.
- A cost analysis of applicable remedial alternatives.

Data generated during the investigation will be presented in various formats including:

- Site plan map depicting property boundaries, major utility corridors, facility structures, adjacent structures, significant manmade features.
- A topographic map of the area.
- Soil boring and monitoring well location maps.
- Two geologic cross-sections which will present lithologies, water levels, and contaminant concentrations.
- Soil contaminant concentration map.
- Groundwater contaminant concentration map.
- Tables of field screening, soil quality, and groundwater quality results.
- All raw data generated, including laboratory results and WDNR forms, will be presented in attached appendices.

In addition, Sigma's report will provide a narrative summarizing all project activities and concluding remarks with recommendations. If the results of the investigation suggest that impacts have been fully delineated and soil and/or groundwater remediation is necessary, Sigma will evaluate several remedial alternatives for each subsurface matrix (soil and groundwater). Sigma will provide a recommendation for the most appropriate technological and economical remedial action alternative. APPENDIX A

# LABORATORY REPORT

I:\golden-b\3646\workplan.pro



Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295 WI DNR Certified Lab #445027660

TIMOTHY WIMMER		Project #:	3646
SIGMA ENVIRONMENTAL		Project :	Western Publishing
220 EAST RYAN ROAD		Sample ID:	1B
OAK CREEK WI 53154		Lab Code:	5015240A
		Sample Type:	Soil
Report Date:	05-Dec-96	Sample Date:	25-Nov-96

Test	Result	MDL	PQL	Unit	Date Ext/Dig/Pres	Analyzed:	Analyzed By:	Code
TOTAL SOLIDS	88.0			%		27-Nov-96	S.Dequaine	1
NAPHTHA MODIFIED WDNR SEP 95	230	1.4	4.3	MG/KG		0 <b>3-Dec</b> -96	R. Everson	1
ISOPROPYL ALCOHOL MODIFIED SW846 8015A	< 3	1	3	MG/KG	27-Nov-96	03-Dec-96	M. Ricker	1
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	27-Nov-96	02-Dec-96	C. Rotar	1,2

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

### QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

2

DRO chromatogram indicates possible gasoline contamination.

Authorized Signature



Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

Western Publishing

3646

5015240A

25-Nov-96

28-Nov-96

RESULT

12000

MDL.

UG/KG UG/KG

6

6

9

8

3

PQL

17

18

28

24

11

CONFIRMED

METHOD

**1B** 

Soil

< 25

< 25

< 25

VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

Project #:

Sample ID:

Lab Code:

Sample Type:

Sample Date:

Date Analyzed:

2,2-DCP,cis-1,2-DCE

EDB (1,2-Dibromoethane)

Di-isopropyi Ether

Ethylbenzene

ANALYTE

Project :

TIMOTHY WIMMER SIGMA ENVIRONMENTAL 220 EAST RYAN ROAD OAK CREEK WI 53154

Report Date: Analyzed By:

05-Dec-96 G. Shah

ANALYTE	RESULT	MDL	PQL.	CONFIRMED
		UG/KG	UG/KG	METHOD
Benzene	< 25	10	33	
Bromobenzene	< 25	5	17	
Bromodichloromethane	< 25	2	7	
n-Butylbenzene	< 25	21	67	
sec-Butylbenzene	< 25	19	59	
tert-Butylbenzene	< 25	11	36	
Carbon Tetrachloride	< 25	· 5	16	
Chlorobenzene	< 25	7	23	
Chloroethane	< 25	17	53	
Chloroform	< 25	3	10	
Chloromethane	< 25	8	24	
2-Chlorotoluene	< 25	4	13	
4-Chlorotoluene	< 25	4	12	
1,2-Dibromo-3-Chloropropane	< 25	6	19	
Dibromochloromethane	< 25	5	15	
1,2-Dichlorobenzene	< 25	5	15	
1,3-Dichlorobenzene	< 25	4	11	
1,4-Dichlorobenzene	< 25	4	11	
Dichlorofluoromethane	< 25	13	43	
1,1-Dichloroethane	< 25	3	10	
1,2-Dichloroethane	< 25	3	11	
1,1-Dichloroethene	< 25	5	15	
cis-1,2-Dichloroethene	< 25	21	69	
trans-1,2-Dichloroethene	< 25	8	24	
1,2-Dichloropropane	< 25	3	9	
1,3-Dichloropropane	< 25	8	25	

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids

97 % Rec. 107 % Rec. 88

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

Hexachlorobutadiene	< 25		3	11	
Isopropyibenzene		1300	7	23	
p-isopropyttoluene	< 25		15	48	
Methylene Chloride	< 25		5	17	
MTBE	< 25		5	15	
Naphthalene		61	19	61	
n-Propylbenzene		860	19	60	
1,1,2,2-Tetrachloroethane	< 25		14	43	
Tetrachloroethene	< 25		20	65	
Toluene	< 25		14	46	
1,2,3-Trichlorobenzene	< 25		16	50	
1,2,4-Trichlorobenzene	< 25		11	35	
1,1,1-Trichloroethane	< 25		8	26	
1,1,2-Trichloroethane	< 25	•	8	24	
Trichloroethene	< 25		11	34	
Trichlorofluoromethane	< 25		22	71	
124-Trimethylbenzene		100	9	27	
1,3,5-Trimethylbenzene		81	6	19	
Vinyl Chloride	< 25		5	16	

18000

720

11

6

36

19

GC #6

NA = Not Applicable

m&p-Xylene

o-Xylene

Authorized Signature

11



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## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Gloria L. McCutcheon, District Director Southeast District Annex 4041 N. Richards Street, Box 12436 Milwaukee, WI 53212-0436 TELEPHONE 414-229-0800 FAX 414-229-0810

December 18, 1996

LUST Activity (BRRTS)# : 03-52-113803

Facility ID#: 252005050 ERR LUST

BOBETTE SAJIOU GOLDEN BOOKS PUBLISHING 1220 MOUND AV RACINE WI 53404

SUBJECT: Reported Contamination at your address

Dear Ms. Sajiou:

On 11-26-96 Sigma Environmental informed the Department that isopropyl alcohol and naptha which leaked from underground storage tanks caused soil contamination at your location.

Based on the information submitted to the Wisconsin Department of Natural Resources (WDNR), we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law. Utilizing information submitted to the Department, this case has been assigned to the high priority ranking group.

### WDNR SE District Prioritization and Scoring Policy

Within 30 days of receiving this letter please notify the Department that a qualified environmental consultant has been retained; within 60 days of receiving this letter please submit a workplan for conducting a remedial investigation.

Your responsibilities include investigating the extent of the contamination and then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the Department of Natural Resources.

#### Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11(3) Wisconsin Statutes, states:

\* RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Codes chapters NR 700 through NR 728 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response



to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

#### Steps to Take:

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The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and to neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the first four steps to take:

1. By 2-5-97, please submit written verification (such as a letter from the consultant) that you have hired an environmental consultant. You will need to work quickly to meet this timeline.

2. By 3-18-97, your consultant must submit a workplan and a schedule for conducting the investigation. The consultant must follow the Department's administrative codes and our technical guidance documents. Please include with your workplan a copy of any previous information that has been completed (such as an underground tank removal report or a preliminary soil excavation report).

3. Please keep us informed of what is being done at your site. You or your consultant must provide us with a brief report at least every 90 days, starting after your workplan is submitted. These quarterly reports should summarize the work completed since the last report. Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. However, please note that should conditions at your site warrant, you may receive a letter requiring more frequent contacts with the Department. You will also receive one annual site status report form in February.

4. When the site investigation is complete, your consultant must submit a full report on the extent and degree of soil and groundwater contamination and a proposal for cleaning up the contamination.

Due to the number of contaminated sites and our staffing levels in the WDNR Southeast District, we will be unable to provide workplan approvals for investigations or remedial actions. To maintain your compliance with the spills law and chs. NR 700 through NR 728, do not delay the investigation and cleanup of your site by waiting for WDNR responses. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to be familiar with our technical procedures and administrative codes and should be able to answer your questions on meeting Wisconsin's cleanup requirements.

Your correspondence and reports regarding this site should be sent to the Department at the following address:

Lust Program Wisconsin Department of Natural Resources Box 12436 4041 N Richards St Milwaukee WI 53212

Unless otherwise requested, please send only one copy of all plans and reports. Correspondence should be identified with the assigned WDNR identification number which is listed at the top of this letter.

#### Information for Site Owners:

Enclosed is a list of environmental consultants and some important tips on selecting a consultant. If you are eligible for reimbursement of costs under Wisconsin's PECFA program (see last paragraph) you will need to compare at least three consultants' proposals before hiring a consultant. Consultants

and laboratories working in the PECFA program are required to carry errors and omissions insurance to help protect you against unsuitable work. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. This information has been prepared to help you understand your responsibilities and what your environmental consultant needs to do. Please read this information carefully.

If you are interested in obtaining the protection of limited liability under s. 292, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713, in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 292 Stats., is available to persons who meet the definition of "purchaser" in s. 292 and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

#### Financial Information:

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up contamination from eligible petroleum storage tanks. The fund is administered by the Department of Industry, Labor, and Human Relations (DILHR). Please contact DILHR at (608) 266-2424 for more information on eligibility and regulations for this program.

Thank you for your cooperation.

Sincerely,

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Michael G. Farley Program Assistant 414-229-0808

cc: Tim Wimmer, Sigma