April 22, 1991

RECEIVED DNR APR MAR 24 1991 LAKE MICHIGAN DISTRICT

Ms. Annette Weissbach State of Wisconsin Department of Natural Resources 1125 N. Military Avenue Box 10448 Green Bay, Wisconsin 54307-0448

Dear Ms. Weissbach:

Enclosed is the report on possible soil and ground water contamination in the area of a mineral spirit underground tank (UGT) excavation.

At the time this UGT was removed possible soil contamination was suspected, therefore this study was conducted.

Your point of contact regarding this report at Paragon is Richard J. Lubenow, P.E.

Sincerely,

PARAGON ELECTRIC COMPANY, INC.

De Mare Huberon

Richard J. Lubenow, P.E. Manager Maitnenance & Facilities

Enclosure

### SOILS AND GROUNDWATER ASSESSMENT FOR A 550 GALLON UNDERGROUND MINERAL SPIRITS STORAGE TANK

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### PREPARED FOR: MR. RICHARD LUBENOW PARAGON ELECTRIC 606 PARKWAY BOULEVARD TWO RIVERS, WISCONSIN 54241

### PREPARED BY: CRAIG A. VARLAND PROJECT MANAGER SIGMA ENVIRONMENTAL SERVICES, INC. 9555 SOUTH HOWELL AVENUE OAK CREEK, WISCONSIN 53154

### **PROJECT REFERENCE #TEW0374**

MARCH 28, 1991

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#### I. INTRODUCTION

Sigma Environmental Services, Inc. (formerly known as CBC Environmental Services) of Oak Creek, Wisconsin, has been retained by Mr. Richard Lubenow to conduct a subsurface investigation at 606 Parkway Boulevard in Two Rivers, Wisconsin. The purpose of the investigation was to determine general soil and groundwater quality on the perimeter of a former underground mineral spirits storage tank located at the property. This report details the work conducted at the site and results of the investigation.

#### II. SITE DESCRIPTION

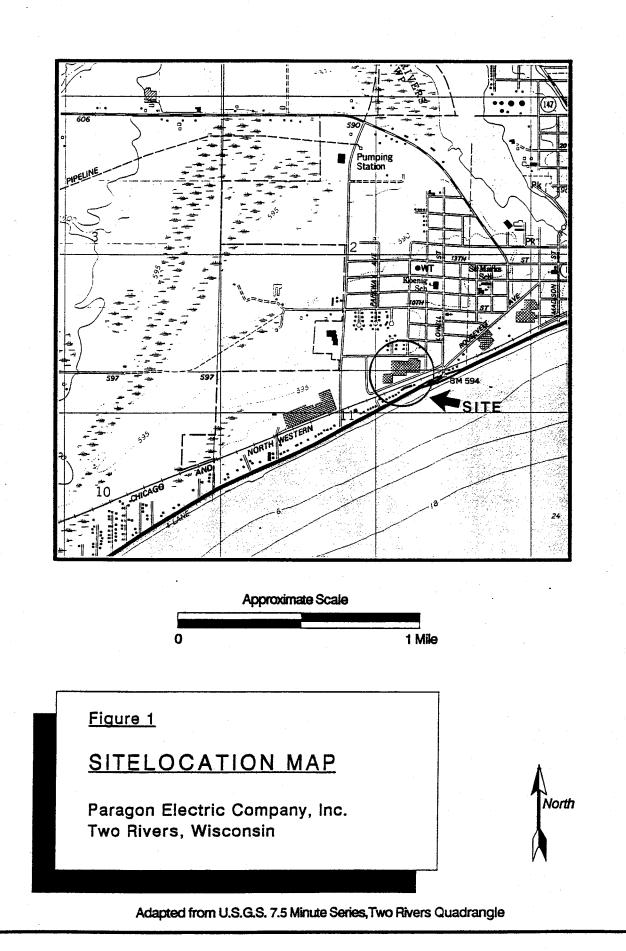
The subject property is located at 606 Parkway Boulevard, Two Rivers, Wisconsin. Specifically, the property is located in the Southwest quarter of the Northeast quarter of Section 2, Township 19 North, Range 24 east, City of Two Rivers, Manitowoc County, Wisconsin. The location of the site is depicted in Figure 1.

The property occupies 26.77 acres of land and contains a large manufacturing facility and offices. The western portion is bordered by a parking lot. The north and east sides of the facility are bordered by 7th Street and Bucholz Street, respectively. Lake Michigan is located approximately one-eight mile south of the site.

#### **III. PREVIOUS WORK**

Previous work conducted at the site included the removal of a 550 gallon underground mineral spirits storage tank located inside the Paragon Facility near the truck dock area.

Autoquip, Incorporated of Milwaukee, Wisconsin was contracted by Sigma Environmental Services (formerly CBC Environmental Services) to perform the tank removal. Confirmational samples collected within the tank excavation



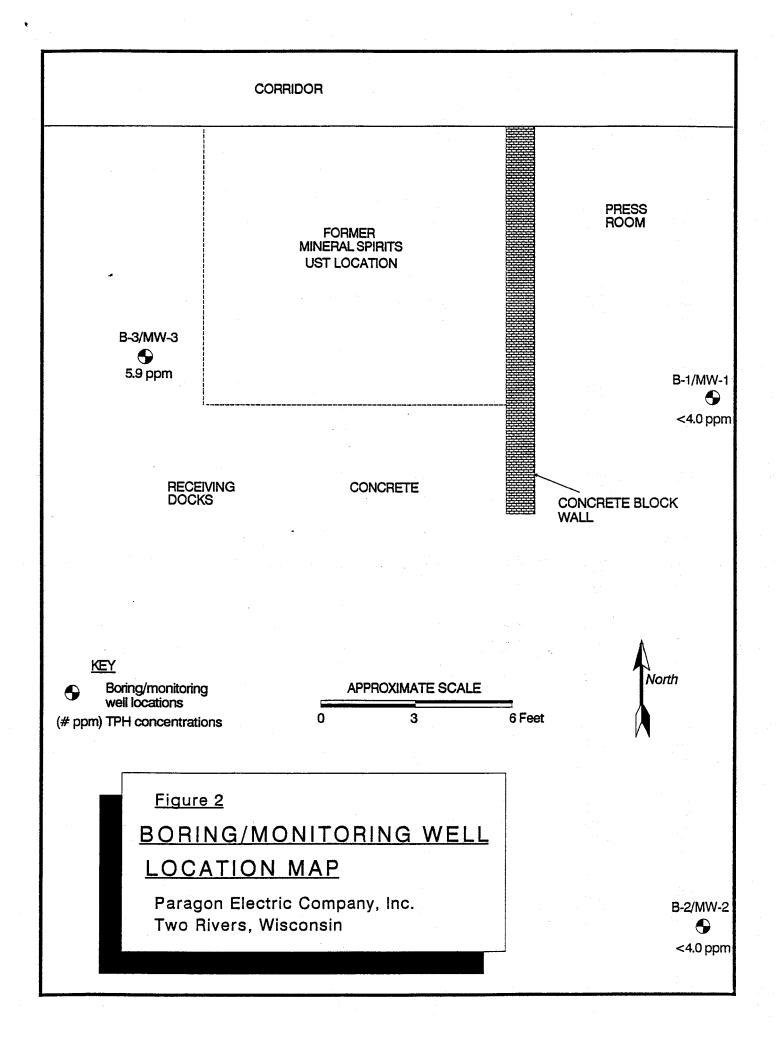
revealed concentrations of petroleum hydrocarbons of 180 ppm (parts per million) and 79 ppm from the east and west base samples, respectively.

### **IV. SUBSURFACE INVESTIGATION**

Work conducted at the site during this portion of the investigation included drilling profile soil borings, installing groundwater monitoring wells, and submitting soil and groundwater samples for laboratory analysis.

Soil Borings. During this phase of this field study, three (3) soil borings were drilled near the former mineral spirits tank excavation. The locations of these borings are depicted in Figure 2. A diamond-tipped core barrel was utilized to cut a ten inch (10") diameter hole in the floor of the building. A General<sub>(TM)</sub> 550 drill rig was used to advance 2-1/4" I.D. x 2.5' length hollow stem augers. A 2" x 6" core sampler was driven by a slide hammer to collect soil samples. The borings were limited to total depths of 10.1 to 10.9 feet due to heaving sands encountered at the groundwater table. All borings were drilled on December 27, 1990, by Giles Engineering of Waukesha, Wisconsin. Boring logs are presented in Appendix A.

During advancement of the augers, core samplers were used to collect soil samples at various intervals. Two (2) samples were collected at each interval; one (1) sample was immediately containerized into a glass jar, sealed with a teflon-lined cap and placed into a cooler. The other sample was also containerized into a glass jar, sealed and allowed to warm-up for a period of approximately twenty (20) minutes. This sample was screened for volatile organic compounds utilizing a Photovac<sub>(TM)</sub> Microtip Photoionization Detector (PID) instrument. The PID utilized an 11.7 eV (electron volt) lamp and was field calibrated to an isobutylene standard. PID results are included with the boring logs in Appendix A. One (1) sample from each boring displaying the highest PID value was accompanied with a Chain-of-Custody document and transported to the CBC Environmental



Services Laboratory in Oak Creek, Wisconsin, for analysis of Total Petroleum Hydrocarbons (TPH).

All downhole drilling equipment (augers, sampler extensions, and core samplers) were steam cleaned prior to mobilization to the site and between borings. Between each boring the core samplers were rinsed with hexane and triple rinsed with deionized water. In addition, the split-spoon samplers were washed with an alconox soap solution and a final tap water rinse between each sample interval.

Monitoring Wells. Three (3) groundwater monitoring wells were installed in the boreholes following completion. Monitoring well locations are shown in Figure 2. The monitoring wells were constructed of 1-1/4" I.D. (inside diameter) threaded casing and double walled .020" stainless steel mesh screen. Well construction logs are presented in Appendix B.

<u>Groundwater Sampling Program.</u> The three (3) groundwater monitoring wells were developed on January 18, 1991 by Sigma field technicians per Wisconsin Department of Natural Resources (WDNR) guidelines (NR 140). Well development forms are presented as Appendix C.

Following well development, the wells were purged and sampled according to Sigma standard sampling protocol (adopted from WDNR Pub.-WR-153, February 1987). Four (4) 40 milliliter vials were collected from each well and submitted with one (1) set of duplicate samples, trip, and field blanks, to the CBC Laboratory for analysis of priority pollutant volatile organic compounds plus xylene.

<u>Static Water Level Measurements.</u> Static water level measurements were collected at the site as a means to determine direction of groundwater flow. A tabulated listing of water level measurements is found in Appendix D.

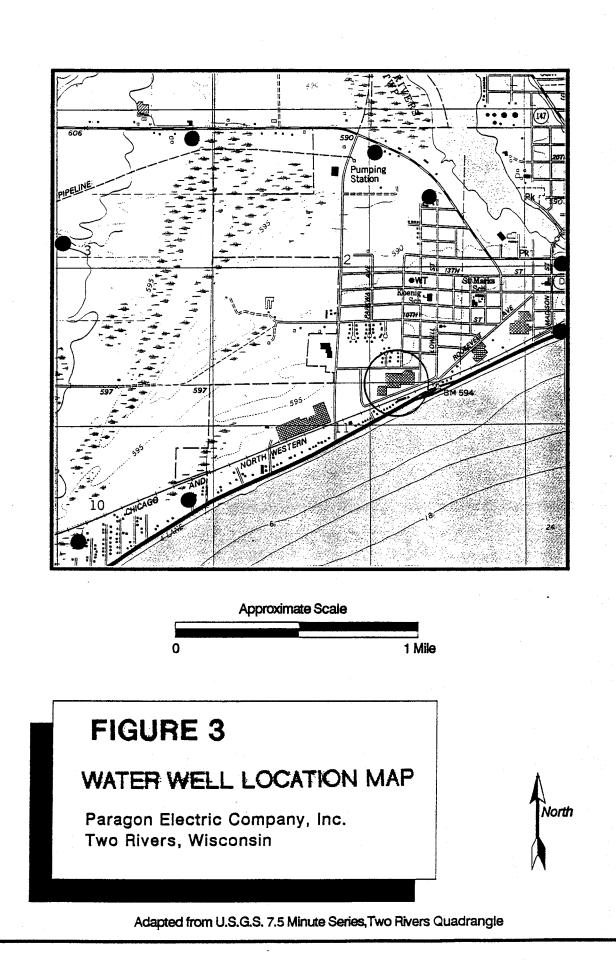
#### V. SITE GEOLOGY AND HYDROGEOLOGY

<u>Geology.</u> The regional geology of the area ranges from the Precambrian basement rock to the quaternary glacial deposits. Bedrock, from oldest to youngest, consists of the Precambrian crystalline rocks: Cambrian sandstones; Ordovician dolomites, sandstones and shales; Silurian dolomite; and Devonian dolomites. Quaternary glacial deposits overlying the bedrock are mostly lake deposits consisting of organic materials and stratified clay, silts, and sand.

Geology at the site consists essentially of silty fine sands with traces of small gravel and organic material.

<u>Hydrogeology</u>. The principal aquifers for potable water in the Two Rivers area are: the sands and gravel (glacial aquifer); the Niagara (dolomites) and the deep sandstone aquifer. The Maquoketa shale separates the Niagara and sandstone aquifers and presents a relatively impermeable barrier restricting the vertical movement of groundwater between the aquifers.

Well logs of Sections 1, 2, 3, and 10 indicate well construction locally is primarily in the Niagaran Dolomite aquifer. Two (2) of the domestic wells were completed in the glacial aquifer. One (1) municipal well was completed in the sandstoneaquifer. In general, the well records show that the predominant upper materials are sands with clays encountered at depths of ten (10) to sixty-eight (68) feet below ground surface. Wells researched ranged in total depths from 97 to 1640 feet. A list of well records researched as part of this investigation are presented in Appendix E. Figure 3 depicts the location of selected wells researched, relative to the site.



Localized variations in groundwater flow may occur beneath the Paragon facility due to man-made alterations in the shallow subsurface. The existence of sewer pipelines, utility conduits and foundation footings may alter groundwater flow on a site-specific basis. Groundwater will flow along the path of least resistance such as gravel backfills in sewer and utility mains. Thus, groundwater flowing beneath the facility may be diverted along these mains.

General groundwater flow at the site, as measured by the monitoring wells, is south-southeast in direction. Static water levels at the site are less than ten (10) feet below ground surface.

#### VI. REGULATIONS

Soil. The State of Wisconsin has not established standards for the levels of contaminants detected in soil. The Wisconsin Department of Natural Resources (WDNR) evaluates each situation separately to determine if the existence of contaminants in soils will have an adverse affect on the groundwater or otherwise on the environment and public health. The WDNR has stated that corrective action is required if the level of Total Petroleum Hydrocarbons in soils is above 10 ppm (parts per million). Samples collected from the three (3) borings near the former tank location did not exceed the standard.

Groundwater. The State of Wisconsin has established groundwater quality standards for contaminants detected in or having a reasonable probability of entering the groundwater resources of the state. The standards are found in Chapter NR 140 of the Wisconsin Administrative Code. Samples collected from MW-1, MW-2 and MW-3 exceed the established standards for trichloroethylene THE and vinyl chloride. Table 2 summarizes the standards that the State of Wisconsin has established for groundwater quality.

YC

#### VII. SOIL QUALITY

<u>Soil Quality Results.</u> Core samples collected at the site were field screened for the presence of volatile organic compounds having ionization potentials equal to or less than 11.7 eV (electron volts) by means of a head space analysis using a Photovac<sub>(TM)</sub> Microtip Photoionization Detector (PID) instrument. Results of the soil screening are shown in the boring logs at Appendix A. One (1) sample from each boring was submitted to the CBC Environmental Services Laboratory for analysis of Total Petroleum Hydrocarbons (TPH).

Laboratory analysis of the samples from borings B-1 and B-2 revealed no detectable concentrations of the compounds analyzed. The sample from boring B-3 revealed a TPH concentration of 5.9 ppm (parts per million). Table 1 presents the soil quality results of the samples analyzed.

### TABLE 1

Location	Sample Depth Below Surface	PID Results (ppm)	Laboratory Results TPH (ppm)
<b>B-1</b>	7 - 7.6'	50	<4.0
B-2	2.5 - 3.1'	24	<4.0
B-3	6.6 - 7.2'	90	5.9

### SOIL QUALITY RESULTS

Appendix F presents the laboratory results for the samples submitted.

#### VIII. <u>GROUNDWATER QUALITY</u>

ppm = parts per million

<u>Groundwater Quality Results</u>. The groundwater quality study included the sampling of the monitoring wells installed at the site. As stated previously, the monitoring wells were developed following installation. On January 18, 1991,

water levels were measured and the wells purged and sampled. Four (4) 40 milliliter vials were collected from each well.

Water samples were placed into a cooler and accompanied by a Chain-of-Custody document to the CBC Laboratory for analysis of priority pollutant volatile organic compounds and xylene. Laboratory results of groundwater revealed the following: **MW-1** - detectable concentrations of chlorobenzene (1.9 ppb), chlorodibromomethane (1.3 ppb), 1,2-dichloropropane (1.4 ppb), ethylbenzene (4.1 ppb), chloromethane (110 ppb), toluene (2.0 ppb), trichloroethylene (13 ppb), vinyl chloride (110 ppb), xylene (6.1 ppb); **MW-2** - chloromethane (51 ppb), trichloroethylene (25 ppb), vinyl chloride (51 ppb); **MW-3** - chloromethane (64 ppb), toluene (1.6 ppb), trichloroethylene (19 ppb), vinyl chloride (64 ppb), xylene (4.0 ppb).

Table 2 presents the results of the laboratory analysis for selected compounds which have designated established groundwater standards. Appendix G presents the groundwater laboratory results.

<u>TABLE 2</u> GROUNDWATER QUALITY RESULTS (Parts Per Billion)								
	Enforcement Preventive <u>MW-1 MW-2 MW-3 Standard Action Limit</u>							
Benzene	<1.0	<1.0	<1.0	5.0	5.0 ,67			
Ethylbenzene	4.1	<1.0	<1.0	1360	272			
Toluene	2.0	<1.0	1.6	343	68.6			
Xylene	6.1	<1.0	4.0	620	124			
Trichloroethyle	ne 13 <sup>1,2</sup>	25 <sup>1,2</sup>	<b>19</b> <sup>1,2</sup>	5.0	5.0			
Vinyl Chloride	<b>110</b> <sup>1,2</sup>	<b>51</b> <sup>1,2</sup>	<b>64</b> <sup>1,2</sup>	0.2	0.2			

<sup>1</sup> - Exceeds NR 140 Enforcement Standards

<sup>2</sup> - Exceeds NR 140 Preventive Action Limit

### IX. CONCLUSIONS

The Soils and Groundwater Assessment at the former underground mineral spirits storage tank is completed. The following conclusions are made based on data collected at the site:

- 1. The site geology consists of brown silty fine sands. The sands in the subsurface present a transport mechanism for lateral and vertical flow of contaminants.
- 2. The phreatic surface is encountered at less than 10 feet below ground level. Groundwater flow is south-southeast in direction.
- 3. TPH (Total Petroleum Hydrocarbons) analysis of soil samples revealed no elevated concentrations of contaminants (>10 ppm).
- 4. Trichloroethylene, Vinyl Chloride, and other volatile organic compounds were detected in the groundwater samples collected from the three (3) monitoring wells. The concentrations of Trichloroethylene and Vinyl Chloride exceed the State of Wisconsin's Enforcement Standards and Preventive Action Limits.
- 5. Contaminants identified by laboratory analysis are not consistent with substances stored in the Underground Storage Tank (UST).
- 6. Trichloroethylene is currently utilized at the facility. Elevated concentrations of vinyl chloride may be attributed to breakdown of trichloroethylene.

### X. 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 conclusion 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 Environmental Services, Inc. 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 reveal totally 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).

This report has been prepared specifically for Paragon Electric. Reproduction or distribution of this report should not be performed without written consent of Paragon Electric and Sigma Environmental Services Inc.

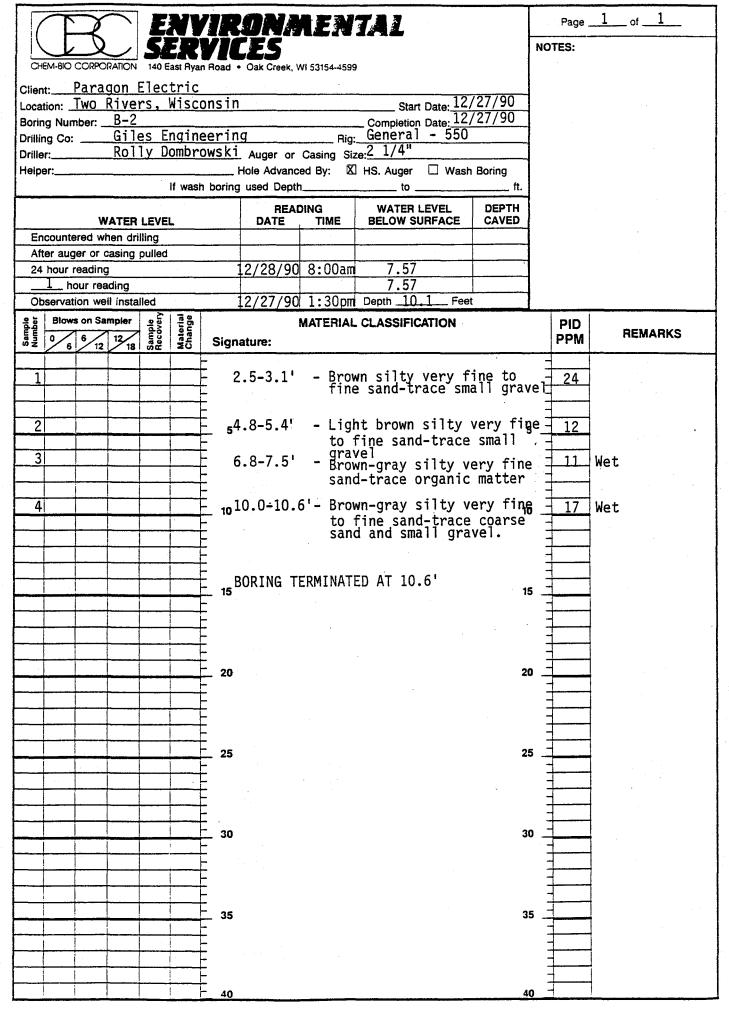
# APPENDIX A

# **BORING LOGS**

		TEWOCR0374
ENVIR	ONMENTAL	Page _ 1 of
SERVI	LES	NOTES:
CHEM-BIO CORPORATION 140 East Ryan Road	6" O.A.L. Sampling devise used to collect	
Client: Paragon Electric	soil samples after	
Location: <u>Two Rivers</u> , Wisconsin Boring Number: <u>B-1</u>	Start Date: <u>12/27/90</u>	pulling augers from
Boring Number: <u>B-1</u> Drilling Co: <u>Giles Engineerir</u>	Completion Date: 12/27/90 Ig Rig: General 550	hole.
Driller: Rolly Dombrowski	_ Auger or Casing Size:2 1/4"	
Helper: BOD	Hole Advanced By: X HS. Auger A Wash Boring	
If wash borin	g used Depth to ft.	
WATER LEVEL	READING WATER LEVEL DEPTH DATE TIME BELOW SURFACE CAVED	
Encountered when drilling	Approximately 7'	
After auger or casing pulled		
24 hour reading	12/27/90 8:00am 7.54' 7.55'	
Observation well installed	12/27/9011:00am Depth 9.9 Feet	1
	MATERIAL CLASSIFICATION	PID
	nature:	PPM REMARKS
	. 2.6' - Dark brown silty fine sa	
2	. 2.6' - Dark brown silty fine sa	
2 5	4.2-4.8'-Light-brown silty fine so	and 9.5
	trace gravel	
	7-7.6' -Gray silty very fine to	<u>– 50</u> Wet
	fine sand with wood organ matter-trace small grave	
4 10	10-10.6' -Brown-gray fine sand wit trace gravel	
	trace ğravel	
┠──┼──┼──┼──┼──┼	DODING TERMINATED AT 10 CI	
	BORING TERMINATED AT 10.6'	<b>E</b>
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Le	SERV	IEES			NOTES:	
CHEM-BIO CORPORATION		d • Oak Creek, WI 53154-4599	9	-		
	Electric					
	ers, Wiscon	sin	Start Date: 12/	27/90		
Boring Number: <u>B-3</u>	es Engineer	ingRig	Completion Date: 12	27/90		
Driller: Rolly Dom	browski	ingRig Auger or Casing Siz	$2 \frac{1}{4''}$			
teiper:		Hole Advanced By: X	HS Auger 🗌 Wash	Boring		
		ing used Depth	-	-		
		READING	WATER LEVEL	DEPTH		
Encountered when dr		DATE TIME	BELOW SURFACE	CAVED		
After auger or casing						
24 hour reading	2	12/28/90 8:00am	7.43	<b></b>		
1/2 hour reading			7.48			
Observation well insta	and the second	12/27/90 3:00	Depth 10.3 Feet		L	
Blows on Sampler	Sample Recovery Material Change		CLASSIFICATION		PID	REMARKS
6 12 18	Se XO SI	gnature:				
1		2.4-3.0' - Brow	n silty very fi	ine to	- 32	
		fine	sand-trace coa	irse san	d	
2		5.0-5.6' - Ligh	t brown to find	-medium	- 3.5	
	-	5.0-5.6' - Ligh sand	-trace coarse	and		
3		6.6-7.2' - Gray	silty very fir	ne to fi	ne 9.0 I	Damp odor
		sand	l-trace coarse s	and		
4		10.3-10.9'- Brow	n to grav silt	verv .	40	Wet
		010.3-10.9'- Brow fine	to fine sand-	trace		
		coar	se sand		-	
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		BORING TERMINATE	D AT 10,9'			
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# APPENDIX B

### WELL CONSTRUCTION FORMS

State of Wisconsin Department of Natural Resources		Mo	ONITORING WELL CONSTRUCTION rm 4400-113A 8-89		
Facility/Project Name	Grid Location		Well Name		
Paragon Electric		ft. 🗆 N. 🗆 S.	MW-1		
Facility License, Permit or Monitoring Number			Wis: Unique Well Number DNR W	ell N	umber
		ft. 🗆 E. 🗆 W.			
Type of Well Water Table Observation Well 🔀 11	Section Location		Date Weil Installed		
Piezometer 12		/4 of Section 2,	$\frac{1}{m}\frac{2}{m}\frac{2}{d}\frac{7}{d}$	<u>+ 0</u>	
Distance Well Is From Waste/Source Boundary	T 19 N. R 24	MEOW	Weil Installed By: (Person's Name and	Firm)	)
7 ft.	Location of Well Relative	to Waste/Source	Rolly Dombrowsky		
Is Well A Point of Enforcement Std. Application?					
Yes No	Downgradient	□ Not Known	<u>Giles Engineering</u>		
A. Protective pipe, top elevation f	ft. MSL	1. Cap and lo		s 🗆	No
B. Well casing, top elevationf	ft. MSL	2. Protective			
		a. Inside di			in.
C. Land surface elevation f	+ MSL	b. Length:			ft.
D. Surface seal, bottom ft. MSL or _1	0 ft.	c. Material			
12. USCS classification of soil near screen:					
$\Box GP \Box GM \Box GC \Box GW \blacksquare SW \Box SP$	1 Contra	13	nal protection?	s 🔲	No
			escribe:		•
□ Bedrock		3. Surface sea	d: Bentonit		30
13. Sieve analysis attached? 🔲 Yes 🖾 N	vo \		Concret	-	
14. Drilling method used: Rotary 🗆 5	50	4 Material be	Other tween well casing and protective pipe:		
Hollow Stern Auger 🛛 4			Bentonii		30
Other		•	Annular space sea		50
*			, Annual space sea	_	******
15. Drilling fluid used: Water 02 Air 0(	01 99 10 -	5. Annular sp		10 10 10 10 10	33
Drilling Mud 🗆 03 None 🖾 9	99 👹 👹		s/gal mud weight Bentonite-sand shurr		35
			s/gal mud weight Bentonite slurry		31
16. Drilling additives used? 🛛 Yes 🖾 N	ю - 💥 👸		Bentonite Bentonite-cement grou		50
		× ~	Ft <sup>3</sup> volume added for any of the above		50
Describe	1 👹 🖁	How install			01
17. Source of water (attach analysis):			Tremie pumped		02
			Gravity		08
		6. Bentonite s	eal: Bentonite granule	• •	
E. Bentonite seal, top ft. MSL or	7 () 6. 1114		n. $\square 3/8$ in. $\square 1/2$ in. Bentonite pellet		33
	3.0 ft.		Other	-	10000
F. Fine sand, top ft. MSL or	3 0 ft.	7. Fine sand m	naterial: Manufacturer, product name and		
		Red F1:	int Filter Sand 100	mesi	11 5120
G. Filter pack, top ft. MSL or	4 0 ft.	Volume add	led ft <sup>3</sup>		
			material: Manufacturer, product name and	i mes	h size
H. Well screen, top ft. MSL or	+ 9 ft_		int Filter Sand 20		
		Volume add	lectft <sup>3</sup>		
I. Well screen, bottom ft. MSL or _1	0 4 ft.	9. Well casing	: Flush threaded PVC schedule 40		23
			Flush threaded PVC schedule 80		24
J. Filter pack, bottom ft. MSL or	ft	1 1/4"	Galvanized Steel Other	*	
		10. Screen mate	erial: <u>55</u>	_	
K. Borehole, bottom ft. MSL or	<sup>ft</sup> .	Screen type	: Factory cu		11
			Continuous slo		01
L. Borehole, diameter $50$ in.		Double-	Wall Mesh Screen Other		
		Manufacture	r SWRC	0.2	0.
M. O.D. well casing $150$ in.		Slot size:			0_in.
		Slotted leng			5_ ft.
N. I.D. well casing $125$ in.		11. Backfill mat	terial (below filter pack): None		
			Other		
I hereby certify that the information on this		rect to the best of my	knowledge.		
Signature	Firm Sigma Envi:	ronmental Servic	es, Inc.		

Please complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation.

State of Wisconsin Department of Natural Resources		Mo	ONITORING WELL CONSTRUCTION rm 4400-113A 8-89
Facility/Project Name	Grid Location		Well Name
Paragon Electric		ft. 🗆 N. 🗆 S.	MW-2
Facility License, Permit or Monitoring Number			Wis. Unique Well Number DNR Well Number
		ft. 🗆 E. 🗆 W.	
Type of Well Water Table Observation Well 🗹 11	Section Location		Date Well Installed
Piezometer 12	1/4 of 1/	4 of Section,	$\frac{1}{m}\frac{2}{m}\frac{2}{d}\frac{7}{d}\frac{9}{v}\frac{0}{v}$
Distance Well Is From Waste/Source Boundary	TN, R		Well Installed By: (Person's Name and Firm)
18 ft.	Location of Weil Relative	to Waste/Source	Rolly Dombrowski
Is Well A Point of Enforcement Std. Application?	Upgradient Upgradient	Sidegradient	
⊠ Yes □ No	Downgradient	□ Not Known	<u>Giles Engineering</u>
A. Protective pipe, top elevation f	t. MSL	1. Cap and lo	
B. Well casing, top elevation f	t. MSL	2. Protective	• •
		a. Inside di	ur
C. Land surface elevation f	MSL	b. Length: c. Material	ft.
D. Surface seal, bottom ft. MSL or _1	0 ft.	0 • 0 . htt . htt	
12. USCS classification of soil near screen:			
GP GM GC GW SW SP			al protection?
SM SC ML MH CL CH			
Bedrock		3. Surface sea	l: Concrete X 01
13. Sieve analysis attached?	•• <b>\</b> ₿		Other 🛛
14. Drilling method used: Rotary 🗖 5	50 🔪 👹	4. Material be	tween well casing and protective pipe:
Hollow Stern Auger 🖬 4	1 \ 🕅 🕷	8	Bentonite 🗖 30
Other 🛛		Š.	Annular space seal
	🖉 🕅	÷	Other 🛛 🔛
15. Drilling fluid used: Water □ 02 Air □ 0 Drilling Mud □ 03 None ☑ 9		5. Annular spa	
Dinning Wood [] 03 None M		Lb	s/gal mud weight Bentonite-sand shurry 🔲 35
16. Drilling additives used? 🗖 Yes 🖾 N	01 09 66		s/gal mud weight Bentonite slurry 🗖 3 1
		%	Bentonite Bentonite-cement grout $\Box$ 50
Describe		How installe	Ft <sup>3</sup> volume added for any of the above
17. Source of water (attach analysis):		now installe	
			Tremie pumped D 02 Gravity D 08
	🕅 🕅		
E D Start	2.0.6	6. Bentonite se	
E. Bentonite seal, top ft. MSL or			n. $\Box 3/8$ in. $\Box 1/2$ in. Bentonite pellets $\Xi 32$
F. Fine sand, top ft. MSL or	<u>3.0</u> ft.	7 Fine sand m	Other 🛛 🧾
		Red F1	naterial: Manufacturer, product name and mesh size int Filter Sand 100
G. Filter pack, top ft. MSL or	40 ft.	Volume add	3
			material: Manufacturer, product name and mesh size
H. Well screen, top ft. MSL or	5.1 ft_		int Filter Sand 20
		Volume add	
I. Well screen, bottom ft. MSL or _1	06 ft.	9. Well casing	Flush threaded PVC schedule 40 🛛 23
			Flush threaded PVC schedule 80 🔲 24
J. Filter pack, bottom ft. MSL or	ft	1 1/4"	Galvanized Steel Other 🖬 🔄
		10. Screen mate	mial: <u>Stainless Steel</u>
K. Borehole, bottom ft. MSL or	ft.	Screen type	Factory cut 🔲 11
			Continuous slot 🔲 0 1
L. Borehole, diameter <u>5</u> 0 in.		1	Wall Mesh Screen Other 🖾
150		Manufacture	
M. O.D. well casing $150$ in.		Slot size: Slotted leng	<b>th:</b> 0. <u>020</u> in. <u>5.5</u> ft.
N. I.D. well casing 1 2 5 in.		\ 	
N. I.D. well casing $125$ in.		11. Dackilli mai	erial (below filter pack): None
I hereby certify that the information on this	form is true and corre	ect to the best of my	
Signature	Firm	Sol to the best of my	niomauga.
		ironmental Servi	ces, Inc.

Please complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance NOTE: Shaded areas are for DNR use only. See instructions for more information.

State of Wisconsin Department of Natural Resources			M Fe	IONITORING WELL CONSTRUCTION form 4400-113A 8-89		
Facility/Project Name	Grid Location			Well Name	-	
Paragon Electric		ft.	□ N. □ S.	MW-3		
Facility License, Permit or Monitoring Number			□ E. □ W.	Wis. Unique Well Number DNR V	√ell N	lumber
Type of Well Water Table Observation Well 🛛 11	Section Location			Date Weil Installed		<b>_</b>
Piezometer 12	<u></u>	1/4 of Secti	on 2	$\frac{1}{m}\frac{2}{m}\frac{2}{d}\frac{7}{d}\frac{7}{d}$	<u>9 0</u>	-
Distance Well Is From Waste/Source Boundary				Well Installed By: (Person's Name and	Firm	)
2 ft.	T 19 N. R 2 Location of Well Rel	4 SE	Source	Rolly Dombrowski		
Is Well A Point of Enforcement Std. Application?	Upgradient Downgradie	🖾 Side	gradient	Giles Engineering		
A. Protective pipe, top elevation f	MSL		1. Cap and l	ock? ETY	σΓ	No
	. MSL		2. Protective a. Inside d	cover pipe:		
C. Land surface elevation	MSL		b. Length			• _ in. • ft.
		1 martin	c. Materia			-
D. Surface seal, bottom ft. MSL or _1	<u>0</u> fr.	1 Yes	Flu		er 🖾	
12. USCS classification of soil near screen:	A combi	XX	d. Additio	nal protection?		
$\Box GP \Box GM \Box GC \Box GW \boxtimes SW \Box SP$			If yes,	describe:		
			3. Surface se	Bentoni		30
	. \ 🕷		5. Surface se	al: Concre	te 🛛	01
13. Sieve analysis attached?  Yes  N	N KO		\	Othe		
14. Drilling method used: Rotary D 5	N 199		4. Material b	etween well casing and protective pipe:		
Hollow Stern Auger 🖾 4				Bentoni	te 🗆	30
Other 🗆	\			Annular space sea	al 🛛	-
15. Drilling fluid used: Water 02 Air 0	)1					
	9			pace seal: Granular Bentonia		
	01 09 0 -			os/gal mud weight Bentonite-sand slum	-	
16. Drilling additives used? 🛛 Yes 🖾 N	o -   🎬			os/gal mud weight Bentonite slurr		
	500		9	Bentonite Bentonite-cement grou		50
Describe	&		How instal	Ft <sup>3</sup> volume added for any of the abov		
17. Source of water (attach analysis):			TIO W LIStal	led: Tremi Tremie pumpeo	_	01
				Gravin		02
			( <b>P</b>			00
E. Bentonite seal, top ft. MSL or	206		6. Bentonite :	5		22
			<b>E</b> 1/4	in. $\Box 3/8$ in. $\Box 1/2$ in. Bentonite pellet		
F. Fine sand, top ft. MSL or	3 0 ft.		7 Fine sand	material: Manufacturer, product name and	. 🗆	
	, , , , , , , , , , , , , , , , , , ,		Red F	Flint Filter Sand 100	1 mes.	h size
G. Filter pack, top ft. MSL or	40 ft.	N/	Volume ad	2	-	
				material: Manufacturer, product name an	d mes	sh size
H. Well screen, top ft. MSL or	5.3 ft_		/	lint Filter Sand 20	4 11100	11 5120
		-	Volume ad		-	
I. Well screen, bottom ft. MSL or 1	0 8 ft.		9. Well casin			23
				Flush threaded PVC schedule 80		24
J. Filter pack, bottom ft. MSL or	ft.		1 1/4"	erial: <u>Stainless Steel</u> Other	X	
K. Borehole, bottom ft. MSL or	ft.		Screen typ	_		11
			oureen typ	Continuous slo		
L. Borehole, diameter 5 0 in.			Double-	-wall Mesh Screen Othe		
				er AWRC		
M. O.D. well casing _ 1 5 0 in.		$\backslash$	Slot size:		0. 02	20 in.
		$\backslash$	Slotted len			.5_ ft.
N. I.D. well casing $1.25$ in.		```	11. Backfill ma	uterial (below filter pack): None		
	(			Other		
I hereby certify that the information on this Signature	Firm	correct to th	ne best of m	y knowledge.		

Sigma Environmental Services, Inc.

Please complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 144, Wis Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information.

# APPENDIX C

# WELL DEVELOPMENT FORMS

State of Wisconsin Department of Namral Resources

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MONITORING WELL DI	EVELOPMENT
Form 4400-113B	2.80

Facility/Project Name		Well Name		
PARAGON Electric		MW-1 (INSIDE)		
License, Permit or Monitoring Number		Wir. Unique Well Nu		eil Number
<ol> <li>Can this well be purged dry?</li> <li>Well development method         <ul> <li>surged with bailer and bailed</li> <li>surged with block and pumped</li> <li>surged with block and pumped</li> <li>surged with block, bailed and pumped</li> <li>surged with block, bailed and pumped</li> <li>compressed air</li> <li>bailed only</li> <li>pumped only</li> <li>surged how how</li> </ul> </li> </ol>	U Yes ∑ No U 4 1 D 4 1 D 4 2 U 6 2 U 7 0 U 2 0 U 1 0 U 5 1	11. Depth to Water (from top of well casing) Date Time 12. Sediment in well bottom	Before Development $\underline{- \underline{6} \cdot \underline{9} \ \underline{8} \ ft}$ $\underline{0 \ \underline{1} \ \underline{8} \ \underline{9} \ \underline{9} \ \underline{7} \$	After Development $-\underbrace{\$.5!}_{ft.}$ $\underbrace{0!_{1}!\$_{1}!?!}_{m m d d y y}$ $-\underbrace{-:0!}_{p.m.}$
pumped slowly Other		13. Water clarity	Clear 🔲 10	Char ) 20
<ol> <li>Time spent developing well</li> <li>Depth of well (from top of well casisng)</li> <li>Inside diameter of well</li> <li>Volume of water in filter pack and well casing</li> <li>Volume of water removed from well</li> <li>Volume of water added (if any)</li> <li>Source of water added</li></ol>	$\begin{array}{c} \bigcirc \bigcirc$	Fill in if drilling fluids 14. Total suspended solids 15. COD .	Turbid gC 15 Describe) <u>Very Turbic</u> <u>Bebuw.w</u> <u>Carbe</u> were used and well is a mg/l	Turbid [ 25 (Describe) <u>LUATER CKARCO</u> <u>LUATER CKARCO</u> <u>LUATER</u> <u>LUATER</u> <u>LUATER</u>
(If yes, attach results) Additional comments on development: Well Recharged Amount purgod WATER.	Slowly. H curas mon	Approximately ee Stan	, 24 gallon 10 Volu	s pel minure mes of
cil developed by: Person's Name and Firm		I hereby certify that the of my knowledge.	above information is th	e and correct to the best
im: SCOTT KIRSOD/	Sale PAlKowski	Signature:	cott Kurs	op
				veronmenta

NOTE: Shaded areas are for DNR use only. See instructions for more information.

State of Wisconsin Department of Natural Resources

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MONITORING WELL D	EVELOPMENT
Form 4400-113B	2 20

Facility/Project Name	Well Name		
PARAGON Electric	MWZ (Inside)		
License, Permit or Monitoring Number	Wis Unique Well Number IDNR Well Number		
	and the second		
1. Can this well be purged dry?	Before Development After Development		
	11. Depth to Water		
2. Well development method	(from top of $006.96 \text{ ft}$ $007.02 \text{ ft}$		
	well casing)		
-			
surged with bailer and pumped $233 61$			
surged with block and bailed 4 2	Dete $O_1 / 18/91 O_1 / 18/91$ mm d d y y mm d d y y		
surged with block and pumped .  6 2	mm dd yy mm dd yy		
surged with block, bailed and pumped 70			
compressed air	Time $12:45$ pm $91:50$ m.		
bailed only 🔲 1 0			
pumped only 51	12. Sediment in well O1. Oinches OO. O inches		
pumped slowly 50	bottom		
Other 0	13. Water clarity Clear 10 Clear 2/20		
	Turbid 15 Turbid 51 25		
3. Time spent developing well 0065 min.	(Describe)		
	YERY TURDID WATER CRALES		
4. Depth of well (from top of well casising) $009.4$ ft.			
4. Depth of well (from top of well casisng) $OO_{4}$ . 4 ft.	BRANN IN 110 AFTER		
5. Inside diameter of well $O125$ in	Color 12gallows		
5. Inside diameter of well $Q1.45$ in	purged.		
6. Volume of water in filter pack and well			
casing $\angle 03.5$ gal.			
	Fill in if drilling fluids were used and well is at solid waste facility:		
7. Volume of water removed from well $035.0$ gal			
	14. Total suspended mg/l mg/l		
8. Volume of water added (if any)	solids		
9. Source of water added N/A	15. COD mg/l mg/l		
10. Analysis performed on water added? I Yes I No	· · ·		
(If yes, attach results)			
()=(,			
Additional comments on development:			
1) 1 Barlassal Slauber Al	OROXIMATELY 25 GALLONS EVERY MINUTE		
Well Recharged Stowing I			
~ 1 ant man that	proximitely .25 gallons every minutes		
Yook out more chan I	o roromes contrag aceveropement		
Weil developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best		
The developed by: I choirs Ivalic and Film	of my knowledge.		
Name: OCOTT KiRSOD LDAK PALKAWSK:	Signature: Cott Auron		
Name: SecTT KIRSOP DALE PALKOWSK; Firm: SIGNA ENVIRONMENTA!	Fim: \ Liama Criveconmental		

NOTE: Shaded areas are for DNR use only. See instructions for more information.

State of Wisconsin Department of Natural Resources

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MONITORING WELL	DEVELOPMENT
Form 4400-113B	8_89

Facility/Project Name		Well Name		
		MW-3 (INSIDE)		
PARAGON ElectRic License, Permit or Monitoring Number		Wis Unique Well Number DNR Well Number		
·		Carter and and		M 349 12 - 20 2 - 20
1. Can this well be purged dry?	Ves DNo	11. Depth to Water	Before Development	After Development
2. W'cll development method	_	(from top of well casing)	006.84 ft	00 6.84 n.
surged with bailer and bailed surged with bailer and pumped		wen easing)		
surged with block and bailed		Date	plucol	
surged with block and pumped		LALE		OIIISIOI mm d d y y
surged with block, bailed and pumped				
compressed air	20	Time	//:/5 mm	12:15 p.m.
bailed only				p
pumped only	5 1	12. Sediment in well	inches	<u>20.0</u> inches
pumped slowly	<b>5</b> 0	bottom		
Other	_ □	13. Water clarity		Clear 20
			Turbid DK 15	Turbid 🔲 25
3. Time spent developing well	OO(c)min.			(Describe)
	009.0h		Very Turbid	WATER CLEAKED
4. Depth of well (from top of well casisng)	291.0n		BROJUIN	UP AFTER SOALS
5. Inside diameter of well	Q1.25 in		COLOR	where purged.
6. Volume of water in filter pack and well	1037.			
casing	2 <u>03.2 gal.</u>	Fill in if delling fluide	were used and well is at	and an arts for all in a
7. Volume of water removed from well	035. Oral	Fin in it or many finites		solid waste iscuity:
		14. Total suspended	mg/l	mg/l
8. Volume of water added (if any)	gal.	solids		
9. Source of water added $\mathcal{N}/\mathcal{A}$		15. COD .	mg/l	mg/l
10. Analysis performed on water added?	Yas D No		1	
(If yes, attach results)				
Additional comments on development:				
Well Recharged M MiNUTE, MORE tha	VICELY. Appr	oximately .	50 GAllONS	per
MINUTE, MORE tha	N 10 Yolun	nes of	WATER W	ns purged
FROM Well.				
Well developed by: Person's Name and Firm		of my knowledge.	above miormation is th	e and correct to the best
Name: Scott Kirsop DAN		Signature:	cott Kirs	P
Firm: SIGMA EUVIRON	MENTA /	Firm:	egma Envi	ronmenta
			<i>j</i>	
NOTE: Shaded areas are for DNR use only.	See instructions for more in	formation.		

# APPENDIX D

# WATER LEVEL MEASUREMENTS

# PARAGON ELECTRIC

--T

# WATER LEVEL MEASUREMENTS

	Depth to	
Well #	Water	Date
<b>MW-1</b>	7.54'	12-29-90
	6.98'	1-18-91
MW-2	7.57'	12-28-90
	6.96'	1-18-91
MW-3	7.43'	12-28-90
	6.84'	1-18-91

# APPENDIX E

### LABORATORY RESULTS (SOIL)



140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/08/91

1

LABORATORY REPORT

PAGE 1

C739 8458955 W31

TEWOCR0374

CBC REMEDIAL SERVICES INC. 140 E. RYAN ROAD OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

 
 SAMPLE
 90362-C11527
 BORING 1/7-7.6'/PID = 50/SOIL/PARAGON ELECTRIC-TWO RIVERS, WI

 DATE COLLECTED
 12/28/90
 DATE RECEIVED
 12/28/90

 TEST NAME
 RESULT
 UNITS

TOTAL PETROLEUM HYDROCARBONS <4.0 PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. <u>WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT</u>; <u>NON-WATER</u> <u>SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT</u>. N/T = NOT TESTED, N/A = NOT APPLICABLE, @ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION. \$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

WI DNR LAB CERTIFICATION #241283020 CLIENT SERVICES DIRECT LINE 414-768-7460



140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/07/91

LABORATORY REPORT

PAGE 1

C739 8458955 W31

TEWOCR0374

CBC REMEDIAL SERVICES INC. 140 E. RYAN ROAD OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 90362-C11528 BORING 2/2.5-3.1'/PID=24/SOIL/PARAGON ELECTRIC-TWO RIVERS, WI DATE COLLECTED 12/28/90 DATE RECEIVED 12/28/90 TEST NAME RESULT UNITS TOTAL PETROLEUM HYDROCARBONS <4.0 PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,

@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
\$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME.

IL EPA CERTIFICATION # 100243; AIHA ACCREDITED.

APPROVAL 24.Th.

WI DNR LAB CERTIFICATION #241283020 CLIENT SERVICES DIRECT LINE 414-768-7460

1-800-365-3840



140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

01/08/91

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LABORATORY REPORT

PAGE 1

C739 8458955 W31

TEWOCR0374

CBC REMEDIAL SERVICES INC. 140 E. RYAN ROAD OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 90362-C11529 BORING 3/6.6-7.2'/PID=90/SOIL/PARAGON ELECTRIC-TWO RIVERS, WI DATE COLLECTED 12/28/90 DATE RECEIVED 12/28/90

TEST NAME RESULT UNITS

TOTAL PETROLEUM HYDROCARBONS 5.9 PPM GASOLINE BASED ON SIMILARITIES TO GASOLINE STANDARDS

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. <u>WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT</u>; <u>NON-WATER</u> <u>SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT</u>. N/T = NOT TESTED, N/A = NOT APPLICABLE, @ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION. \$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

> WI DNR LAB CERTIFICATION #241283020 CLIENT SERVICES DIRECT LINE 414-768-7460

1-800-365-3840

# APPENDIX F

# LABORATORY RESULTS (GROUNDWATER)



03/05/91

LABORATORY REPORT

PAGE 1

W31

C739 8459594

BL/ / //

TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC. 9555 S. HOWELL AVE. OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 91018-C11530 WATER/TRIP BLANKS/PARAGON ELECTRIC-TWO RIVERS DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	<1.0	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	<1.0	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	<1.0	PPB
TRANS-1.3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, @ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION. \$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME. IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M.T.



03/05/91

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LABORATORY REPORT

PAGE 1

C739 8459594 W31 BL/ / // TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC. 9555 S. HOWELL AVE. OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 91018-C11531 WATER/FIELD BLANKS/PARAGON ELECTRIC-TWO RIVERS DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1, 1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	<1.0	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	<1.0	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	<1.0	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, @ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION. \$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME. IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL MALL.



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LABORATORY REPORT

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TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC. 9555 S. HOWELL AVE. OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 91018-C11525 WATER/MW-1/PARAGON ELECTRIC-TWO RIVERS DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	РРВ
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	1.9	PPB
CHLORODIBROMOMETHANE	1.3	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	1.4	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	4.1	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	110	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	2.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	13	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	110	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	6.1	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, @ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION. \$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME. APPROVAL 14 IL EPA CERTIFICATION # 100243; AIHA ACCREDITED.

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SIGMA ENVIRONMENTAL SERVICES, INC. 9555 S. HOWELL AVE. OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 91018-C11527 WATER/MW-2/PARAGON ELECTRIC-TWO RIVERS DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	51	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	25	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	51	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, @ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION. \$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME. IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M-TM



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SIGMA ENVIRONMENTAL SERVICES, INC. 9555 S. HOWELL AVE. OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 91018-C11528 WATER/MW-3/PARAGON ELECTRIC-TWO RIVERS DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	64	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	1.6	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	19	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	64	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	4.0	PPB

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE, @ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION. \$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME. IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL MILL.

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TEWOCR0374

SIGMA ENVIRONMENTAL SERVICES, INC. 9555 S. HOWELL AVE. OAK CREEK ,WI 53154 ATTN: CRAIG VARLAND

SAMPLE 91018-C11529 WATER/DUPLICATE/PARAGON ELECTRIC-TWO RIVERS DATE COLLECTED 01/18/91 DATE RECEIVED 01/18/91

TEST NAME	RESULT	UNITS
BENZENE	<1.0	PPB
BROMOFORM	<1.0	PPB
CARBON TETRACHLORIDE	<1.0	PPB
CHLOROBENZENE	<1.0	PPB
CHLORODIBROMOMETHANE	<1.0	PPB
CHLOROETHANE	<1.0	PPB
2-CHLOROETHYLVINYL ETHER	<1.0	PPB
CHLOROFORM	<1.0	PPB
DICHLOROBROMOMETHANE	<1.0	PPB
1,1-DICHLOROETHANE	<1.0	PPB
1,2-DICHLOROETHANE	<1.0	PPB
1,1-DICHLOROETHYLENE	<1.0	PPB
1,2-DICHLOROPROPANE	<1.0	PPB
CIS-1,3-DICHLOROPROPENE	<1.0	PPB
ETHYLBENZENE	<1.0	PPB
BROMOMETHANE	<1.0	PPB
CHLOROMETHANE	18	PPB
METHYLENE CHLORIDE	<1.0	PPB
1,1,2,2-TETRACHLOROETHANE	<1.0	PPB
TETRACHLOROETHYLENE	<1.0	PPB
TOLUENE	<1.0	PPB
1,2-TRANSDICHLOROETHYLENE	<1.0	PPB
1,1,1-TRICHLOROETHANE	<1.0	PPB
1,1,2-TRICHLOROETHANE	<1.0	PPB
TRICHLOROETHYLENE	20	PPB
TRICHLOROFLUOROMETHANE	<1.0	PPB
VINYL CHLORIDE / FREON 12	18	PPB
TRANS-1,3-DICHLOROPROPENE	<1.0	PPB
XYLENE, TOTAL	<1.0	PPB

## APPENDIX G

## WELL CONSTRUCTION LOGS

16"       0       45'       16"       steel 3/8"       0       45         10"       45       371'       16"       steel 3/8"       0       45         10"       45       371'       10"       steel 3/8"       0       45         Grout:       Kind       10"       steel 3/8"       0       45         Grout:       Kind       from       to       45         Neat cement       0       45'         Samples from       0       to       370'       Date received: 9/16/65         Sample Nos.       257899       to       257972       Examined by: Janet Olmstead       Date: 2/11/66         Formations:       Drift, Silurian       Remarks: Well tested for 7½ hours at 300 gpm with 343 feet of drawdown.       Date: 2/11/66         10-10       10       10       10       10       10       10       10         10-15       5       10       5       10					ONSIN GEO enue, Mad				SURVEY	Z				.Mn-35 :Oct.,	
Drill Hole     Casing 6 Liner Pipe or Curbing       Dis.     from     to     Dis.     Wgt.6 Kind     from     to       Dis.     Wgt.6 Kind     from     to     Dis.     Wgt.6 Kind     from     to       10"     45'     371'     16"     sell?/8"     0     45       10"     45     371'     16"     stell?/8"     0     45       10"     45     371'     10"     45     10"     45       10"     45     371'     10"     45     10"     45       10"     45     371'     0     45       Grout:     Kind     from     to     10"       Neat cement     0     45'     9/16/65     0     45'       Samples from     0     to     370'     Date received: 9/16/65     Date: 2/11/66       Formations:     Drift, Silurian     Texamined by: Janet Olastead     Date: 2/11/66       IOO     10     5     Sample strong     Date: 2/11/66       IOO     10     5     Sample strong     Date: 2/11/66       IOO     10     5     Sample strong     Date: 12/11/11/11/11/11/11/11/11/11/11/11/11/1	Loc Own Add Dri	cated 15 erMin ress.Mar llerEg	5th St rro Al nitowo	t., lum oc,	400' S. inum Co. Wisconsi	of Washin		Comple Field Altitu Use Static	ted check. de w. 1. = cap =	5/3/6 595 Indus = 7' = 0.9	5 ΄ ΈΓ trial	м	T 19 N	+	
Dia.       from       to       Dia.       from       to       Dia.       Wgt. & Kind       from       to         16"       0       45'       10"       16" steel			Drill	He			T	Car							
16"       0       45'       371'       16       steal 3/6"       0       45         10"       45       371'       16       steal 3/6"       0       45         10"       45       371'       16       steal 3/6"       0       45         10"       45       371'       16       steal 3/6"       0       45         Grout:       Kind       from       0       45         Samples from       0       to       370'       Date received: 9/16/65         Sample Nos. 257899       to       257972       Examined by: Janet Olmstead       Date: 2/11/66         Formations:       Drift, Silurian       Remarks: Well tested for 7½ hours at 300 gpm with 343       feet of drawdown.         100-15       5       5       5       5       5       17         10-10       5       5       5       5       5       17       17       10         20-25       5       5       5       5       5       17       17       10       17       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10 <td>Dia.</td> <td></td> <td></td> <td>-</td> <td></td> <td>Ito</td> <td>DialWo</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>fron I</td> <td></td>	Dia.			-		Ito	DialWo							fron I	
10"       45       371'       10" steel.       0       45" s7"         Grout:       Kind       from       to       0       45"         Samples from       0       to       370'       Date received:       9/16/65         Sample Nos.       257899       to       257972       Examined by:       Janet Olmstead       Date:       2/11/66         Formations:       Drift, Silurian       Remarks:       Vell tested for 7½ hours at 300 gpm with 343       feet of drawdown.         LOG OF WELL:       0       10       is:       is:       is:       is:       is:       song       is:       song         20-25       10       is:       is:       is:       is:       is:       song       is:       song         20-35       is:       is:       is:       is:       is:       song       is:       is:       song				1.					1100		Dia.	wgt.	a KINU	IIOM	C0
Neat cement         0         45'           Samples from         0         to         370'         Date received: 9/16/65           Sample Nos. 257899         to         257972         Examined by: Janet Olmstead         Date: 2/11/66           Formations:         Drift, Silurian         Date: 2/11/66         Date: 2/11/66           Remarks:         Well         tested for 7½ hours at 300 gpm with 343 feet of drawdown.           100-10         10         200-25         Sind, mxd clr, mxd lithology           100-15         5         100-16         9.875, 170; 111 Vinkfn gvl & soil           100-15         5         100-17, 11 rd bn, dolic; inch st, tr snd, & Vfn gvl           200-25         5         200-27, 11 rd bn, dolic; inch st, tr snd, & Vfn gvl           300-35         5         200-27, 11 rd bn, dolic; mch st, tr snd, & Vfn gvl           300-35         5         200-27, 11 rd bn, dolic; mch st, tr snd, & Vfn gvl           30-35         5         200-27, 11 rd bn, dolic; mch st, tr snd, & Vfn gvl           30-35         5         200-27, 11 rd bn, dolic; mch st, tr snd           40-55         15         200-27, 11 rd bn, dolic; mch st, tr snd           92-30         5         200, 11 gry bn, M & fn, dns; tr pyr & sh           100-10         200, 11 gry bn, M & fn,	10"	1 1													
Neat cement         0         45'           Samples from 0 to 370' Date received: 9/16/65 Sample Nos. 257899 to 257972 Examined by: Janet Olmstead Date: 2/11/66 Formations: Drift, Silurian         Date: 2/11/66           Remarks: Well tested for 7½ hours at 300 gpm with 343 feet of drawdown.         Date: 2/11/66           100-10         10	Gro	ut: Kin	ıd							•	a		1	from	to
Sample Nos. 257899       to       257972       Examined by: Janet Olmstead       Date: 2/11/66         Formations: Drift, Silurian       Remarks: Well tested for 7½ hours at 300 gpm with 343 feet of drawdown.       Image: 2000 spin spin spin spin spin spin spin spin		Neat	ceme	ent											45'
10-13       5 <th>LOG</th> <th>OF WELL</th> <th>:</th> <th></th>	LOG	OF WELL	:												
10-13       5 <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>Top soil,</td> <td>mxd cl</td> <td>r, mxd li</td> <td>thology</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td>			1			Top soil,	mxd cl	r, mxd li	thology	7					
20-25       5       5       5         25-30       5       5       5         30-35       5       5       1         315-40       5       5       5         35-40       5       5       5         40-55       15       5       5         40-55       15       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         55-80       25       5       5         90-95       5       5       5         90-95       5       5       5         90-95       5       001, 1t gry hn, M & fn, dns; tr pyr & sh         100-105       5       001, 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         105-110       5				5 6	$\sim$	pna, mxa (	LIT, M&C,	Srna, P SI	tg.tr 1	In VC;	mch c	1.trVi	n&fn gy	1 & 50	il
30-35       5       5       5       11       rd bn dolic; mch st, tr snd & Vfn gyl         35-40       5       5       5       11       rd pry bn; mch Vfn & fn snd         40-55       15       15       11       rd pry bn; mch Vfn & fn snd         40-55       15       15       11       rd pry bn; mch Vfn & fn snd         55-80       25       25       11       rd pry bn; mch vC, ang, P srdg, tr M, fn; ltl Vfn, fn gyl, cl         55-80       5       5       12       11       rd pry bn; M & fn, dns; tr pyr & snd         35-90       5       11       grd pry bn; M & fn, dns; tr pyr & sh       10         90-95       5       11       grd pry bn; M & fn, dns; tr pyr & sh       10         90-95       5       01       11       grd pry bn; M & fn, dns; tr pyr & sh       10         100-105       5       01       11       grd pry bn; M & fn, dns; tr pyr & sh       10         105-110       5       01       11       y1 rd bn mot 1t gry, M & fn, dns; tr pyr & sh       00         110-140       30       20       01       11       y1 rd bn, M & fn, dns;       11         140-145       5       01       11       y1 rd bn, M & fn, dns;       11	2			_								n gyi	& cong		
35-40       5       5       35       & Cl. it vl gry bn; mch Vfn & fn snd         40-55       15        Cl. it rd, dolic; mch st, tr snd         55-80       25        Cl. it rd bn, dolic; mch st, tr snd         30-85       5        State       Dol it rgry bn; M & fn, dns; tr snd         30-85       5        Dol it gry bn, M & fn, dns; mch cvd snd, tr sh & pyr         90-95       5        Dol it gry bn, M & fn, dns; tr pyr & sh         90-95       5        Dol it gry bn, M & fn, dns; tr pyr & sh         100-105       5       Dol it yl rd hn mot it gry, M & fn, dns; tr pyr & sh         105-110       5       Dol, it yl rd bn mot it gry, M & fn, dns; tr pyr & sh         110-140       30       Dol, it yl rd bn mot it gry, M & fn, dns; tr pyr & sh         140-145       5       Dol, it yl rd bn, M & fn, dns;         140-145       5       Dol, it yl rd bn, M & fn, dns;         145-150       5       Dol, Vit yl gry, M & fn, dns; tr pyr					and a	Cl. lt ro	bn. do	lic: mch	st. tr	snd.	& Vfn	gvl		•	
40-55       15         55-80       25         30-85       5         55-80       25         30-85       5         30-85       5         30-85       5         30-85       5         30-85       5         30-85       5         30-85       5         30-85       5         90-95       5         90-95       5         90-95       5         90-11       1 gry bn, M & fn, dns; tr pyr & sh         90-95       5         90-11       1 gry bn, M & fn, dns; tr pyr & sh         100-105       5         901, 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         105-110       5         901, 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         201, 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         201, 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         201, 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         201, 1t yl rd bn, M & fn, dns;         201, 1t yl gry, M & fn, dns; tr pyr         201, Vlt yl gry, M & fn, dns; tr pyr				5		CI VIT ro	$\frac{1}{1+\sqrt{1}}$	ic; mch s	t tr s	fn s	Vfn g	v1			
40-55       15       11 rd, dolic; mch st, tr snd         55-80       25       25         55-80       25       25         30-85       5       25         30-85       5       25         30-85       5       25         90-95       5       201, lt gry bn, M & fn, dns; mch cvd snd, tr sh & pyr         90-95       5       201, lt gry bn, M & fn, dns; tr pyr & sh         95-100       5       201, lt yl gry bn, M & fn, dns; tr pyr & sh         100-105       5       201, lt yl rd bn mot lt gry, M & fn, dns; tr pyr & sh         105-110       5       201, lt yl rd bn mot lt gry, M & fn, dns; tr pyr & sh         110-140       30       201, lt yl rd bn mot lt gry, M & fn, dns; tr pyr & sh         140-145       5       201, lt yl rd bn, M & fn, dns;         140-145       5       201, lt yl rd bn, M & fn, dns;         145-150       5       201, lt yl rd bn, M & fn, dns;         145-150       5       201, lt yl gry, M & fn, dns; tr pyr		00 10		Ŭ	~ ~		10 14 5	<u>y 911, 11</u>							
35.       30-85       5       5		40-55	1	5			l, dolic	; mch st,	tr sno	1					
35.       30-85       5       5					~~~~										
35.       30-85       5       5					~~				÷ .,						
85-90       5       Dol. lt gry bn. M & fn. dns; mch cvd snd. tr sh & pyr         90-95       5       Dol. lt gry. M & fn. dns; tr pyr & sh         95-100       5       Dol. lt yl gry bn. M & fn. dns; tr pyr & sh         100-105       5       Dol. lt yl rd bn mot lt gry. M & fn. dns; tr pyr & sh         105-110       5       Dol. lt yl rd bn mot lt gry. M & fn. dns; tr pyr & sh         110-140       30       Dol. lt yl rd bn mot lt gry. M & fn. dns; tr pyr & sh         140-145       5       Dol. lt yl rd bn. M & fn. dns;         140-145       5       Dol. lt yl rd bn. M & fn. dns;         143-150       5       Dol. lt yl rd bn. M & fn. dns;	1	100 110				C1, 1t rd	bn, do	lic; mch	st, tr	snd	r		V.F		
90-95       5       Dol. 1t gry, M & fn, dns; tr pyr & sh         95-100       5       Dol. 1t yl gry bn, M & fn, dns; tr pyr & sh         100-105       5       Dol. 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         105-110       5       Dol. 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         105-110       5       Dol. 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         110-140       30       Dol. 1t yl rd bn mot 1t gry, M & fn, dns; tr pyr & sh         140-145       5       Dol, 1t yl rd bn, M & fn, dns;         140-145       5       Dol, 1t yl rd bn, M & fn, dns;         145-150       5       Dol, Vlt yl gry, M & fn, dns; tr pyr	85'													gv1,	C1
100-105       5       Dol. lt yl rd bn mot lt gry, M & fn, dns; tr pyr & sh         105-110       5       Dol, lt yl rd bn mot lt gry, M & fn, dns; tr pyr, sh, colic dol         110-140       30       Dol, lt yl rd bn mot lt gry, M & fn, dns; tr pyr & sh         140-145       5       Dol, lt yl rd bn, M & fn, dns;         140-145       5       Dol, lt yl rd bn, M & fn, dns;         145-150       5       Dol, Vlt yl gry, M & fn, dns; tr pyr	1.	90-95		5	1	Dol. lt g	ry, M &	fn, dns;	tr pyr	* & sh			- PXI		
105-110       5       Dol, it yi rd bn mot it gry, M & fn, dns; tr pyr, sh, colic dol         110-140       30       Dol, it yi rd bn mot it gry, M & fn, dns; tr pyr & sh         140-145       5       Dol, it yi rd bn, M & fn, dns;         145-150       5       Dol, it yi gry, M & fn, dns; tr pyr		Contraction of the local division of the loc		-	7										
110-140     30     Dol, lt vl rd bn mot lt gry, M & fn, dns; tr pyr & sh       140-145     5     Dol, lt vl rd bn, M & fn, dns;       145-150     5     Dol, Vlt vl gry, M & fn, dns; tr pyr														olic de	01
140-145     5     Dol, It yl rd bn, M & fn, dns;       145-150     5     Dol, Vlt yl gry, M & fn, dns; tr pyr						× + + + - )	A								
140-145     5     Dol, It yl rd bn, M & fn, dns;       145-150     5     Dol, Vlt yl gry, M & fn, dns; tr pyr															
140-145     5     Dol, It yl rd bn, M & fn, dns;       145-150     5     Dol, Vlt yl gry, M & fn, dns; tr pyr															ĺ
140-145     5     Dol, It yl rd bn, M & fn, dns;       145-150     5     Dol, Vlt yl gry, M & fn, dns; tr pyr					1					-					
145-150 5 Dol. Vlt yl gry, M & fn, dns: tr pyr				-						fn,	dns:	tr pyr	& sh		
										DVT					
150-170 20 / Pol, V.t.yl gry, M & fn, dns; tr.pyr & sh															
150-170 20 / Pol, V.t yl gry, M & fn, dns: tr pyr & sh															
		150-170	2	0		Dol. V.t	vl grv	M& fn	dns: tr	- DVr	& sh				
						-uag-1-b-	** <del>**</del> **								
					1										
	1			I	/										

UNIVERSITY OF WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY 1815 University Avenue, Madison, Wisconsin 53706

Well name Mirro Aiuminum Co., Two Rivers, Wis. Sample Nos. 257899 to 257972

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s	l .	1		
I				
	170-210	40	Dol, Vlt yl pnk bn, M & fn, dns; tr sugary dol, sh & py	r
1	210-220	10	Dol, Vlt or pnk, M, dns, tr C; tr pyr & sh	
	220-225 225-230	5	Dol. lt yl rd bn. M. dns; tr sh & gypsum Dol, lt yl rd bn. M. dns; tr qtz	
	230-240 240-245	10		
	245-255	10	Dol. lt yl rd bn. M & C. dns; tr stnd pyr	
	255-280	25	Dol, Vit gry, M & C, dns; tr sh	
	280-285	5	Dol, Vit gry, M & C, dns; tr sh & pyr	
	285-295		Dol, Vlt gry, M & C, dns;	
	295-300 300-305		Dol, lt yl bn, M & fn, dns; Dol, lt yl bn mot Vlt gry, M & fn, dns; tr pyr & sh	
	305-310	5	Dol, wh, M & fn, dns;	
		1		,
	310-365	55	Dol, Vit gry, M & fn, dns, tr C; tr pyr & calc	
285	365-370	5	Dol, 1t gry, M & fn, dns; 1t1 stnd Fe, tr pyr	
			END OF WELL	
•				
		<b>.</b> .		
		-		

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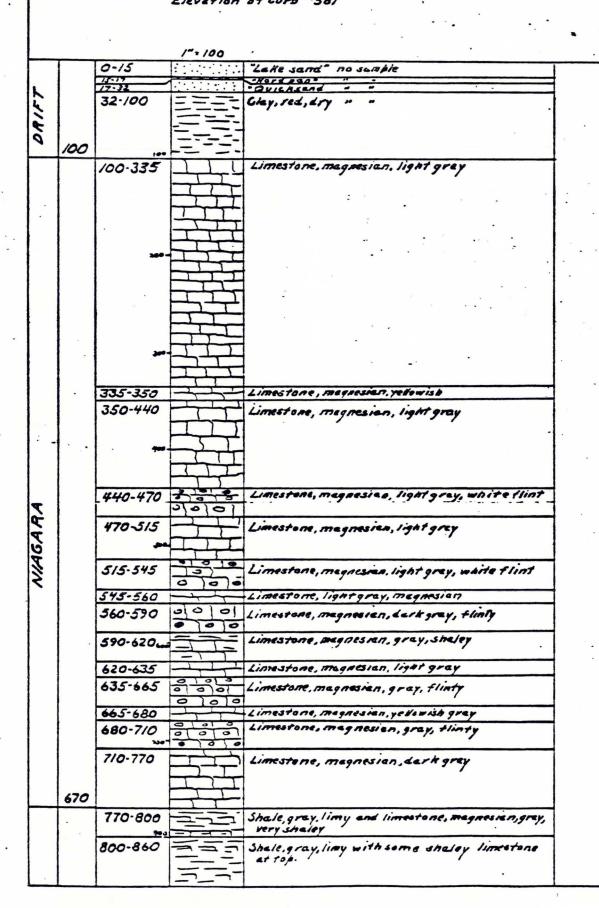
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CITY TEST WELL NO.2, TWO RIVERS, W/S. 1750' E of Well Nol. Sec. J. T. 89, R24E. NEL, SEL, SWL W.H. Gray Bros, Drillers, 1914 Samples sent by G.H. Wehausen "examined by F.T. Thwastes, U.W. Nos. 16717-16819 Elevation of curp 587

52

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TWO RIVERS 2

	1		1	
		860-875	37-37-37	Limestone, magnesian, bivish-gray, very shaley
		875-1100		Shale, bluish-gray, limy
		***		
0				
2				
RICHMOND		•		
3			2	
2			5-	
2		-		··· -
4				
	·		F=-	
			<u> </u>	
	330	200		
2		1100-1250	H-T	Limestone, bluish-gray, magnesian
X				стана С С С С С С С С С С С С С С С С С С
R				
GALENA-BLACKRIVER				
5				
9		1200	- lat	
Ż			TTT	
2			TTTT	
L		10.50 /0/ 5	T	
5		1250-1265		Limestone, magnesian, brownish-gray Limestone, magnesian, blacksh-gray
9	195	1265-1280		Limestone, magnesian, prownish-gray
÷		1 300		sandstone fine to medium, eray & vellew.
1	· ·	1295-1340		listle liste
PETER	45			
	1	1340-1400		Sandstone, time, yellowish and brownish red, grains not well rowneed, no line
	1	1400-1445		Sandstone, fine, red, grains fairly we d
		1400 1440		rounded . to lime
40				
2		1445-1460		Sandstone, med imm, jellewish brown, angular grains
2		1460-1475		Sandstond, fine, red, well rounded
6		1475-1490		Shale, sandy, reddish-grey, Rolime
30		1490-1550		Sandstone, time, yellowish red and gray, grans poorly rounded
J				
F				
LAKE SUPERI		1550-1580	••••	Sandstome, fine, light red, grains poorly rounded
		1580-1595		Sandstone, tine, dark yelowish-brown, welrounded
_	270	1595-1610		Shale, sendy, derk red, no lime
50	30	1610-1640	1.1.1.1.1	Quartzite, light gray to brown, glassy

Mn-4

			JAN 1 3 1988
State of Wisconsin Department of Natural Resources Private Water Supply	NC White Copy	DTE: WELL CONST – Division's Copy Form 3300-15	TRUCTOR'S REPORT
Box 7921 Madison, Wisconsin 53707	Green Copy	<ul> <li>Driller's Copy</li> <li>Owner's Copy</li> </ul>	
	K (√) ONE:	Name	Ring
VAD'S OUC Tr			DF DRILLING CHECK (A) ONE
2. LOCATION Mile 113.2 SW, OR - Grid or Street No. Street or Road Name	190245	ADDRESS ADDRESS	I WELL # 3
Wampain	1 de	1215 Mens	eich de
AND – If available subdivision name, lot & block N	0.	POST OFFICE	ZIP CODE
4. Distance in feet from well Building Sanitary Blo to nearest: (Record answer in appropriate	ig. Drain Sanitary Other C.I.	Bidg. Sewer Connected To: Storm B Other C.I. Sewer Other Sewer C.I.	Other CL Other
Street Sewer Other Sewers Foundation Drain Com		np Clearwater Septic Holding Sewage Abs Tank Jank Seepage Pit	orption Unit Manure Hopper or Retention or Physical Lank
San. Storm C.I. Other Sewer Sewag Clearwater Clearv Dr. Dr. Pet Pit: Nonconforming Existing Subsurf:	vater	Barn Animal Animal Silo Glass Lined Silo	nch
Avarta		Arin Pen Vard With Pit Glass Clind With Pit Pacility Pit	Storage Trench Manure Basin
Temporary Manure Watertight Liquid Manure Subs Stack or Platform Manure Tank or Pressure Gase	Surface Waste Pond of Dilne or Disposal Uni Fank (Specify Ty	Concrete Floor Only	ERM. WELL H
		Partial Concrete Walls 816	506 C
5. Well is intended to supply water for: MOTE -NON-OTADLE	For cont	9. FORMATIONS Kind	From (ft.) To (ft.)
6. DRILLHOLE Dia. (in.) From (tt.) To (ft.) Dia. (in.) From (f	t.)   To (ft.)	GRAVEL	Surface
9 Surface 29		Raudu-clain	10 85
6 20545		GRANTE	85 89
ASING, LINER, CURBING AND SCREEN Material, Weight, Specification Dia. (in.) Mfg. & Method of Assembly From (f	t.) To (ft.)	L'imESTONE	89 400
6 Nour DI, STL. Surface	91	L'imenchisa	400 545
Pl. 2Nd WEIded		MANITOWOL CO. MISC.	#6
ASUM AS3		FILE LOC: TWO RIVER	2
18.97 280	-	APPROVAL DATE: FEB 19	, 1988
Faiwall		10. TYPE OF DRILLING MACHINE USED	
8. GROUT OR OTHER SEALING MATERIAL	. [	Cable Tool Mud & air	Jetting with
Kind From (f	t.) To (ft.)	Rotary-air w/drilling mud & air	r Air
DR'IL SLURBY Surface	- 59	mud Reverse Rotary	
		Well construction completed on	-10 1957
11. MISCELLANEOUS DATA Hrs. at	60_GPM	Well is terminated 24 inches	above final grade below
Depth from surface to normal water level	25 Ft.	Well disinfected upon completion	Yes 🗆 No
Depth from surface to normal water level Depth of water level when pumping Ft. Stabilize			Yes D No
Water sample sent to GBSSA		0.7 GPM/ft. laboratory on 12-2	28 1987
ur opinion concerning other pollution hazards, inform finishing the well, amount of cement used in grouting, b	nation concerning diffi lasting, etc., should be	culties encountered, and data relating to nearby w given on reverse side.	eils, screens, seals, method of
Signature		Business Name and Complete Hailing Address	there welive
Som Land Tacht Regin	stered Well Driller	2.0 24081 Ga.St	

•				.*			1	10 S	ar	np	ie.s	5										
Dep	State of Wisconsin Department of Natural Resources NO															ELL			RUCT	OR'S		ORT
1	B	lox 792					Gre	te Copy en Copy low Cop	-	D	ivision riller's wner's	's Copy Copy Copy		R 3		1988		-15	÷		Rev	7. 3-87
1. CO	UNTY	M	ANITOW	ioc		CHECK	( /) ON	Villa		1			Narr		T 10	DT						
		1/4 Se	ection or G	Sov't. La	t 🗸	Section Township Range						XX o	WNE		GEN	TWO		EOF	DRIL			CK ( ) ONE
2. LO OR	CATION		WE SWE	Street	or Road	1 Name	19 N	. 24	E.	41	DDRE	JAMES	S VA	NLA	NEN				211	#2		
		1	515	MEM	ORIAI	DR.				A.		1515	MEN	10RL	AL I	DR.	1	PEF	Rm	Ħ	81	605
AN	D – If	availabl	e subdivis	ion name	e, lot &	block No	•	_		PC		WO R		RS	พา	21			ZIP 542	CODI	Ξ	
ton	tance in f learest: wer in ap	(Rec	ord	Building		itary Bldg	. Drain Other	Sanit. C.I.		_			Flo	or Dfa nected er Oti			Stor		g. Dra Oth	in	Sto C.I.	other
bloc				6 Founda	tion Dr	ain Conne		- Sewage	Sum			water	Sep		- olding	Sew	- vage A	Absor	-			e Hopper or
san. 100	Storm	c.i. -	Other	Sewer Clearw Dr.	ater	Sewage Sump Clearwa Sump		C.I.	Othe	r	Sui	mp	Tan	K T	ank	See	page page		h -		Reten Pnuen	tion or natic Tank
Privy	Pet Waste Pit	Well	onconform	ning Exi		Subsurfac			Ba Gut		Anima Barn Pen	I Anir Yar		Silo With P	it Sto Fac	iss Lin brage cility	ned	Silo w/o Plt	Fart	hen Si age Tr	lage	Earthen Manure Basir
-	-	Pump Tank					-			-			•	-		-		-	-	-		
	rary Man or Platfor	m M	atertight l lanure Tan asin		Manur Pressur Pipe		ine or L	Vaste Por Disposal ( (Specify	Jnit			oncrete oncrete artial C	Flo	or Only	y	_			e-75			
5. Weil		t Pun	upply wat	er for:					19	). F		ATION	S	ind				1	From		1	To (ft.)
	ILLHOL	E		1		_									1. 1							
Dia. (i	n.) From	m (ft.)	To (ft.)	Dia. (	in.)	From (ft.)	) T	o (ft.)	-+	sand								-+	Surfac	æ .		-35
1	0 Su	rface	91	6		91 622			_	clay								3	5		91	
										lin	nest	one							9	1		622
7. CAS Dia. (i	SING, LII Mat n.) Mf	NER, C erial, W g. & Me	URBING eight, Spe thod of A	AND SC curicatio ssembly		From (ft.)	)   Т	o (ft.)												-		
6	AF	PI -5	A			Surface		91	(	Manitowoc Co. Misc						SC	#6					
	Jo	nes (	& laug	hlin						40	<u>0.0</u>	$(\alpha)$	đ	hte		F	et	2	8, 1984			<i>!</i>
	We	elded	joint	:					F	$='_{l}$	le	$l\alpha$	at	iOr	າື	7	Two	2	Ric	ler	.9	
	Wt	. 18	.97 pe	er ft.					0	CC	• •	Sta	te	C	bec	ila	) ī s	sH				
										10.	TYPE	OF DR	ILLI	NG M	R	otary	-hami	mer				
8. GR	OUT OR	OTHER	SEALIN	G MATE	RIAL		l		-			able To			M لک	/drilli	air				Jettin	ng with
		Kin	d			From (ft.)	) T	o (ft.)	-		L w	otary-a /drilling	g mu			air	-ham	mer				Air Water
	Ceme	nt				Surface	6	0				otary-w ud	/dril	ling	R	everse	Rot	ary				
		ling				60	9	1	,	∦ell (	constru	uction o	comp	leted o	on			Y	7,			1983
	MISCEI Yield Ter		EOUS DA	ATA =	Hr	<b>E</b> . s. at	110	GPN	1	¥e‼ i	is term	inated		8	iı	nches		-	elow	fin	al gra	ie
			ace to nor	mal wate			40	Ft.				cted up	on co	mplet	ion		Q	X Y	es 🗆	] No		
	Depth of when p	water l umping		40	Ft. S	tabilized	Y Y	es 🗆	No H	ell s	ealed v	watertig	¢ht uj	oon co	mplet	tion	Ę	γ	es 🗆	] No		
	Water sar													ratory								_ 19
Your of finishing	pinion of the we	oncernir il, amou	ng other p int of cerr	ollution nent used	hazards in grou	, informa uting, blas	tion consting, etc.	cerning d	iffict be gi	ulties ven d	on reve	intered, erse side	and	data r	elatin	g to n	earby	/ weil	s, scree	ens, se	ais, n	nethod of
Signatu	re		(1)	17					B	lusin	ess Na WILI	me and LEMS	Com WEI	plete I	Mailir RIL	ng Add	dress G	0				
A	mand	· J.		un		Registe	ered Well	Driller			Rt	1		REEN			WIS	5.	54	126		

Depa	artment	of Wisco of Natur Water S	al Resour	ces				te Copy	OTE: – I	Division	's Copy	,	WELL CONSTRUCTOR'S REPORT Form 3300-15 Rev. 5-85									
Ν		Wiscons	in 53707				Gree Yell	en Copy low Copy	- I - C	Driller's Dwner's	Сору Сору		JUL' 7 0 1986									
1. CO	UNTY	Moni	+			CHECK (							Name	mu	ro Ri	rong						
		1/4 Se	towo (	ov't. Lo	ot		ownsh	ip Range	3. N	Iage     City       3. NAME     OWNER					TTIMEC		LING	CHEC	< ()	ONE		
	CATION		ET SV	-		1	1 19N. 24E				Lei	gh S	teg	eman	1	,						
OR	- 6		reet No. 515		h.					ADDRE	R. 1	3			÷*.	•						
ANI	D – If					block No.			P	POST C				1.17.	~		CODE					
4. Dist	tance in 1	feet from	ı well	Building	Sar	nitary Bldg. C	rain	Sanitary	Bidg		TWO	Riv Connec			Storm B		241	Storm	Bldg	. Sew		
	ver in ap	(Reco		C			ther	C.1.		Other	C.1	. Sewer			C.I.	Oth	er	C.I.		ther		
bloc				Founda	ation D	rain Connect	ed to:	Sewage Su	mp		water	Septic			wage Abso	orption L				er or		
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I. 0	ther	Su	mp	Tank	Tan	200	apage Pit		R	etentio	ic Ta	ink		
50 Privy	Pet	-	- onconform	Dr.		Clearwate Sump Subsurface f		-	Barn	Anima		-	-		apage Tre	nch	hen Sila	-	rthen			
FILVY	Waste Pit	Well			isting	Nonconform			utter		Ya	mai Sil rd Wi	th Pit	Storage	w/o Pit	Stora Or Pl	age Tre	nch M	anure	Basir		
_	-	Pump Tank					-		-	-	-	-	-	-	-   -		-		-			
Tempo Stack o	rary Mar or Platfor	m M.	atertight l anure Tan asin		Manu Pressu Pipe		or	Vaste Pond Disposal Un (Specify T	it	C	oncret	Storage e Floor	Only		Other (D	escribe)						
	-		-	-	-			-		P	artial C	e Floor Concrete			/ _				:			
5. Well			shor						9.	FORM	ATION	S Kin	d		1	From	(ft)	1	To (f	Ft )		
6. DR	ILLHOL								1				<u> </u>		1	1.0	(11)					
Dia. (i	in.) Fro	m (tt.)	To (ft.)	Dia.	(in.)	From (ft.)	<u> </u>	o (ft.)	5	sand					7	Surface		28				
10	Su	urface	99		6	99	1 3	370		clay					ļ	2	8	8	36			
						× -			ł	nard	paı	ı				8	6		99			
7. CAS	SING, LI	NER, CI	URBING eight, Spe	AND SC cificatio	REEN	-		(54.)	-	lime	sto	10		, ,		9	a	37	70			
<u>Dia. (i</u>			A-53	ssemory		From (ft.)		<u>'o (ft.)</u> 99	<u> </u>										<u> </u>			
						Surface	1		1.				×									
	S	umit	omo															_				
	W	elde	d joi	int											•							
	W	't. 1	8.97	per	ft	•																
									10.	TYPE	OF DF	RILLING	G MAC		USED							
8 GR		OTHER	SEALIN	C MAT	FRIAI				-		able To	001	X	w/dril mud &	line			etting	with			
		Kin		0		From (ft.)	т	o (ft.)			otary-a	ir g mud	Ċ		y-hammer		Ę	_	Air			
D	rill	ing	mud			Surface		99			otary-	w/drillin		Rever	se Rotary		ι	v	Vater			
				-					Wel	ll constr	uction	comple	ted on		M	av 30	0.	1	9_8	6		
11.	MISCE	LLANE	EOUS DA	ATA						. consu	1011011	Jompie				above		l grade		*		
	Yield Te	est:		4	H	Irs. at	20	) GPM	Wel	l is term	inated		8	- inche	s 🗆	below	Ina	grade				
	Depth fi	rom surf:	ace to nor	mal wat	ter leve	1	100	) Ft.	Well	ldisinfe	cted up	on com	pletion	1	XI	Yes 🗆	] No					
	•	f water l pumping	evel _	100	Ft.	Stabilized	🖾 y	es 🗆 No	Well	sealed	waterti	ght upo	n com	pletion	XX	Yes 🗆	] No					
		mple ser						dison				labora		1000			.e 1					
Your of finishing	pinion on the w	concernir ell. amou	ng other p int of cen	ollution nent use	hazard d in gro	ls, informatio outing, blasti	ng, etc	cerning diff	ficulti e giver	es encou n on rev	erse sid	, and d: e.	ata rela	ting to	nearby we	ells, scree	ens, sea	ils, mei	hod o	or		
Signatu	re			1					Bus	iness Na						~						
À	ema	y.	5.1	Vili	1: 172	2 Register	vi Well	Driller	1	R.		Gre	enl	eaf,	illin Wis	•	54	126				

Departr	nent of Natu Private Water Box 792	ral Resour	rces				ite Copy en Copy	-	Division's Driller's C	opy			Form	L COI 3300-	-15	UCTOR		PORT ev. 2-79
	ison, Wiscon	sin 53707	/				llow Copy	-	Owner's C	ору				- 10	, o ∖.			
1. COUN	TY ann	itemo	2		CHECK		_	illage		] Cit		Vame 9	200	tP	INT	- Gru	- TE	with
		ection or (	Gov't. Lot		Section	Towns	hip Range	-	NAME 4		WNER	AG	ENT	TTIN	E OF	BRIALI	NG CH	ECK () ONE
2. LOCAT	- Grid or S	treet No.	Sin/ Street or	Road		19-n	1 24-2	_	ADDRESS	5		2m		Val	Ch	hot		
											29	25	- /	y th	1	t		
AND	<ul> <li>If availab</li> </ul>	le subdivis	sion name,	lot & l	block No.				POST OF	FICE	?	1	-		2-	ZIPCC	DE	
4. Distanc	e in feet from	m well	Building	Sani	tary Bldg.	Drain	Sanitar	y Bldg	g. Sewer.	1	Floor	Drain ted To	:	Stor	m Bld	g. Drain	Ste	orm Bldg. Sew
	est: (Rec in appropria		50		1.	Other	C.1.		Other	C.I.	Sewer	Other	Sewer	C.		Other	C.1	. Other
Street Se	ewer Othe	er Sewers	Foundatio		ain Conne	cted to:			Clearw		Septic Tank	Hold				) otion Un	it Manu Rete	re Hopper or ntion or
San. St	torm C.I.	Other	Sewer	er	Sewage Sump Clearwa	ter	c.i. c	ther	. 52		50		Se	eepage eepage	Bed		Pnue	matic Tank
Privy Pe		lonconfor	Dr. ming Existi	ing s	Sump		room	Barn	Animal	Anir	mal Silo		Glass L	ined	Slio	Earther	n Silage	Earthen
Pi	aste Well Pump Tank				Nonconfo	rming E	xisting	Gutte	er Barn Pen	Yar	dWit	h Pit I	Storag Facilit	y y	W/O Pit	Storage Or Pit	Trench	Manure Basin
Temporary Stack or P	y Manure V latform M	Vatertight Manure Ta Basin	nk or P	Aanure Pressur Pipe	e Subsur Gasoli Oil Tai	ne or	Waste Pond Disposal U (Specify	nit	Co	ncrete	Storage Floor ( Floor a	Only		Othe	er (De	scribe)		
5. Well is	intended to s	supply wa	ter for: 9	1.			•	9.	FORMA		oncrete S	Walls	1	//				
6. DRILL	HOLE		4	frm	e_		,	-			Kind	l	+			From (f	t.)	To (ft.)
	From (tt.)	To (ft.)	) Dia. (in	1.)   I	From (ft.)		Го (ft.)			sa	ind		/			Surface		50
10	Surface	97							C	le	4_	/				3	0	85
6	97	123		FEN					9	La.	-el					0	P5	97
Dia. (in.)	G, LINER, C Material, W Mfg. & M	Veight, Sp ethod of	AND SCR ecification Assembly		From (ft.)		Го (ft.)		len	ist	Long					4	77	123
6	ER	w.			- Surface		97				/							
	P.E	18	77/4	*						/	ŕ							
•	Blue	k- 2	en-							1						1		
	DITA	7-12-	0 0						. /									
	TBI	Bru	zzil.D.	T.				10	. TYPE C	F DR	ILLING	G MAC		USED		1		
8. GROU	T OR OTHE	·			1			1		ble To	001		w/dr mud	illing			] Jett	ing with
	Ki	nd			From (ft.)		To (ft.)	-		tary-a drillin	ir g mud		Rota & air	ry-ham	nmer			Air Water
C	las	Seur	ing		Surface		97	1		tary-w	v/drillin	9	Reve	rse Ro	tary			Water
•	art		/		, ,			We	ell constru	ction	complet	ed on	(	fred	1	24		19 84
	SCELLAN	EOUS D		– Hr	s. at	`	10 GPM	/   We	ell is termin	nated		18	- inch	es	-	bove elow	final gr	ade
De	pth from sur	face to no	ormal water	level		•	19 Ft.	We	ll disinfect	ed up	on ćom	pletior	1		ह्यू ।	les 🗆	No	
	pth of water when pumpin		19 F	t. S	Stabilized		res DN	lo We	ell sealed w	aterti	ght upor	n com	pletior	10		les 🗖	No	_
	iter sample se		had	l.		den					laborat			ke	lin	24		1984
Your opin finishing	nion concern the well, amo	ing other ount of ce	pollution h ment used	azards in gro	s, informa uting, blas	tion con sting, et	c., should l	fficult be give	ties encour en on rever	tered se sid	, and da e.	ta rela	ting to	nearb	y well	s, screen	s, seals,	method of
Signature	Jame	RI	Lf	1			11 De 11		siness Nan							han	cont	
	/	Ĵ.	11		Registe	ered We	ll Driller	1	.0, 1=	7	91	1		- un	71			
												-						

WFII	CONSTRU	ס פיסחדר	FDODT			S.F.P	2 1970	}	STAT DEPARTMENT (	E OF WISCO		DURCES
Wei-6	CONSTRO	CION 5 N.	LIUNI	WHITE	COPY - DI	HLLER'S	OPY COPY		Madisor	Box 450 n, Wisconsin	53701	
1. COUNT	Ana			CHECK			NAME	- /	) 5'			
2 LOCATI	ON Number a	I ATINT	section an	ction, township	Village	_	. /1	te lot and	block numbers w	hen available.)		
7	EZZ	· / /	• · · · · · · · · · · · · · · · · · · ·	a maintain	9/11/1		42-	-				
3. OWNER	AT TIME OF	ORILLING	Pi									
4. OWNER	S COMPLETE	MAIL ADDI	राइन ।		1.							
17	#27		hille	DILLDING SA	NITARY SEW	ERIFICOR	DRAIN	FOUR	NDATION DRAIN	/ WAS		TER DRAIN
	ce in feet fro answer in appr		nearest:		C. I. TIL				NECTEDINDEPE		I.	TILE
				6	$\mathcal{D}$ -		BARN					
CLEAR WA	TER DRAIN	SEPTIC TAN	K PRIVY	SEEPAGE PIT	ABSORPTI	ON FIELD	BARN	SILO	ABANDONED W	ELL SINK H	J1.6	
-	-	25	-	*****	8	0	-	-			-	
OTHER PO	LLUTION SOU	URCES (Give	description	such as dump,	, quarry, drain	age well, s	tream, pon	d, lake, etc	.)			
6. Well is	s intended	to supply	water for	r: //	2		- 1 11					
				A.M.	with 0	3 16	ple	12)				
7. DRILLH Dia. (in.)	OLE From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)	10. FO	RMATIO	NS lind	2	From	(ft.)	To (ft.)
	Surface		1	20				4	0	Surf		10
10		20	6		143			Anna.	-K			08
								Cla	4	6	8	108
8. CASIN Dia. (in.)	G, LINER, C	URBING, A		EN . From (ft.)	To (ft.)		1	lond	han		8	122
1	T	01.7	1	Surface	122			1	. 7.	11	2	1:63
6	Kelle	N SI		-	1 ml d		<u> </u>	h trial	alton		2	170
	19.4	500	ke: 1	-								
		f ma										
	6 1 c		<u> </u>	-	-							
	ala	ce/	XC	_								
9. GROUT	T OR OTHER		MATERIA	1	1	-						
/1	Ki	nd		From (ft.)	To (ft.)							
_ h	uld 1	alun 1	11	Surface	20							
	1	0				Well c	onstructi	on compl	leted on A	un - 2	7	19 7-
11. MISC Yield test	ELLANEOUS		3 Hrs.	at /	J GPM		termina		s inche	AT abov	e w fir	nal grade
Depth fro	m surface t	o normal v	vater leve	el /	ø ft.	Well d	lisinfecte	d upon o	completion	2	] Yes	□ No
Depth to	water level	when pum	ping	1:	2 ft.	Well s	ealed w	atertight	upon completi	ion E	Yes 1	□ No
Water sar	mple sent t	· M	Dis	-				labo	ratory on:	upt, 1	,	1970
wells, scr	nion concer eens, seals, umprooms,	type of	casing jo	ints, metho	d of finish	ning the	well, an	iculties e nount of	ncountered, ar cement used	id data rel in grouting	ating 1, blas	to nearby
SIGNATURI	3					COMPL	ETE MAII	ADDRESS				
17	when	PI		Registered V	Vell Driller	11-7	171	7	119	Maria		ر
C	and a	- liting	a.	and the state of t	e do not v		space be	low	approx.			U. in
COLLFORM	TEST RESULT	r	1	GAS - 24 HRS		AS - 48 HE		CONFIRM	MED	EMARKS		

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WELL CON	ISTRUCTOR'S REPORT	DEPART		RESOURCE DEVELOP	MENT	•	Wel 6
1. COUNTY		CHECK	ONE	NAME			
· · · · ·	Mandource	Town	🗌 Village	City Aut	River	1	
2. LOCATIO	N (Number and Street or $\frac{1}{2}$ section, sect M = MF = 0	2. T	and range. Als $1'9$ (V)	o give subdivision name, lot and blo $R 2 + F$	ck numbers when a	vailable.)	
3. OWNER	AT TIME OF DRILLING		0	1 DI F			
	Harley /	nae	Ce				
4. OWNER'S	Harley Tro	lle	Two	- Rivers R. J.	Wis S	5424	1
5. Distance	in feet from well to nearest:  B	UILDING SAL	NITARY SEW		TION DRAIN		TER DRAIN
(Record an	swer in appropriate block)	1 /	351		45	35'	TILE
	ER DRAIN   SEPTIC TANK   PRIVY   S TILE	SEEPAGE PIT	ABSORPTI	ON FIELD BARN SILO AB	ANDONED WELL	SINK HOLE	
C. I.	60'				V		
OT and bor	LUTION SOURCES (Give description s	uch as dump,	quarry, drain	age well, stream, pond, lake, etc.)			
6. Well is	intended to supply water for:	D .	T 1	,			
7. 5011110		Pro	ale It	The second s			
7. DRILLHC Dia. (in.)	From (ft.) To (ft.) Dia. (in.)	From (ft.)	To (ft.)	10. FORMATIONS Kind		From (ft.)	To (ft.)
16	Surface 20			Sind Clas	1.	Surface	21
10	20 114			P. P	Ρ	9-1	41
	, LINER, CURBING, AND SCREE	<u> </u>		sand.			71
Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)	Red Clay		41	97
6"	Well Drillers	Surface		Sand + the	vel	97	107
	Pin 19:45 #			Rock Limsto	- re	107	114
	and t	0	107				· · /
	T + C Rlack		2 - 1	***	: :		1
	T, CC, pract.						
				-			
9. GROUT	OR OTHER SEALING MATERIAL	From (ft.)	To (ft.)				
Play	4. llurry-	Surface	20	L			
					/ /	9 17	
	LANEOUS DATA			Well construction completed		28	1965
Yield test:	5 Hrs.	at 10	GPM	Well is terminated 15	inches	K above below	inal grade
Depth from	surface to normal water level	12	- ft.	Well disinfected upon com	pletion	X Yes	No
Depth to w	ater level when pumping	12	ft.	Well sealed watertight upo	n completion	X Yes	No
Water sam	2 0			laborato	ry on: 3/	3 -	1969
wells, scree	on concerning other pollution ens, seals, type of casing joir nprooms, access pits, etc., show	its, method	of finishi	ing the well, amount of cen			
SIGNATURE				COMPLETE MAIL ADDRESS			
Imo	Retatal Re	gistered W	ell Driller		er Ril,	Nis 5	+217
	7 00	Please	do not w	rite in space below	1		
COLIFORM T	EST RESULT	AS - 24 HRS.		S-48 HRS.   CONFIRMED	REMAR	KS	

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WELL CON	NSTRUCTOR	S REPORT	г	WISCO	NSIN STAT	E BOARD OF	HEALTH			Wel 6
1. COUNTY			1	CHECK	ONE	NA	ME	$\bigcirc$		1
m	mitra	)		Town	🗌 Village	City	Trin 1	Aun		/
2. LOCATIC	N (Number a	ad Street or 3	4 section, section	ion, township	and range. Als	o give subdivision	name, lot an	d block numbers when a		
	19 N M	224-	24-1-	- <i>S</i> -E	3	•			RECENT	51
3. OWNER	AT TIME OF	DRILLING '	11	T						
4 OWNED	S COMPLETE	MAIL ADD	1miler	n P	enper	2			NWX 2.1	1065
4. 00010200	5 COMPLICIE	MAIL ADD.	RH	-1 7			71- "		r	
5 Distance	e in feet fro	or well to	Papracta B	UILDING SAL	NITARY SEW	ERIFLOOR DRAIN	I FOL	NDATION DRAIN	WASTE WA	ATER DRAIN
	nswer in appro				C. I.   TILE			INECTEDINDEPENDEN		TILE
(Necold a		opilate block		425	-0 75	- 50 -		_	50	
	ER DRAIN	SEPTIC TAN	K PRIVY S	SEEPAGE PIT	ABSORPTI	ON FIELD   BAR	N   SILO	ABANDONED WELL	SINK HOLE	1
C. I.	TILE	1								
	-	150	-			-  -		100		
OTHER POL	LUTION SOL	JRCES (Give	description s	uch as dump,	quarry, drain	age well, stream,	pond, lake, et	c.) , / , / ;		1. 1
Thur	L INC	a ald	4 in	will	about	100 /11	+ aug	of that und	li he	1:10.2
6. Well is	intended	to supply	water tor:		,	4	$\mathcal{O}$	. th	1	4
7 000000			/	laus	n	10 FORMATI	ONE	and a	Linen	1
7. DRILLHO	From (ft.)	To (ft.)	Dia. (in.)	Erom (ft)	To (ft.)	10. FORMATI	Kind		From (ft.)	T- (5)
Dia. (in.)		10 (11.)		From (ft.)	10 (11.)			)		To (ft.)
10	Surface	2.5	. (0)	25	97		And		Surface	30
							21			
4		S. 1					Clay		30	95
8. CASING	, LINER, CI	URBING, A	ND SCREEN	N		Y	nd	11	0-	05
Dia. (in.)	K	ind and Weigi	ht	From (ft.)	To (ft.)	Dans	14 9	mul	95	7/
1	Dt-	1. 8	411	Surface	97		1			
	sul		a		_/					·
					· · · · · · ·					-
								2101		
								•		
1										
9. GROUT	OR OTHER		MATERIAL		1					
	Kir	nd		From (ft.)	To (ft.)					
( p	11/20	all .		Surface	23-					1
11. 4.1	Laur	Chart -							1	l
		0			12. A	Well constru	ction com	leted on 11/	ali	- 19
11. MISCE	LLANEOUS	DATA						inches 2	r above	
Yield test:		10	Hrs.	at 20	GPM	Well is term	inated	2 4 inches		inal grade
		(				Well disinfed	ted upon	completion		
Depth from	n surface to	o normal v	water level	2	ft.	wen alsinfed	lea opon	completion	A Yes	s 🗌 No
						Well sealed	watertight	upon completion	Ye:	s 🗌 No
Depth to w	vater level	when pum	iping	44	ft.			-t-en eenikienen	4	
Water sam	ple sent to	s In	. 11'				lab	pratory on: ///	- 1.	19
		11/2	un can	~				. 11/2	2/65	
V		in athe	Ilution	hararde i	oformation	concerning d	ficultion	ancountered and di	ata relating	to nearby

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE		COMPLETE M	AIL ADDRESS		
Quarthe Ritme	Registered Well	Driller 49170	anna St.	Manitoric	Mis
77 /	Please do	not write in space	below		
COLIFORM TEST RESULT	GAS - 24 HRS.	GAS - 48 HRS.	CONFIRMED	REMARKS	

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•							ISCONSIN			
WELL CO	NSTRUCTO	R'S REPORT		DEPARTA	AENT OF	RESO	URCE DEVELO	DPMENT		Wel ó
1. COUNTY	(;		1	CHECK			NAME	Λ	10	
m	mitin	uni)			Village	and the second se		us - Som	the Sa	st.
2. LOCATIO	ON (Number a)	$\frac{1}{2} \frac{1}{1}$	section, sect	NE4		so give sub	division name, lot and	block numbers whe	n available.)	
3. OWNER	AT TIME OF	DRILLING	Q L I	12 4	fall					
(Ja	sept (	rob	inson	ر					10 million and a second	
4. OWNER	S COMPLETI	MAIL ADD	RESS							
<u>A</u> Z	F 2 1	us A	uners	UILDING SA		ERIFLOOR	DRAINI FOUR	VDATION DRAIN	I WASTE W	ATER DRAIN
	e in feet fr		ilearesi.	the second s	C. I.   TILI			NECTEDINDEPENI		TILE
(Record a	nswer in appr	opriate block)		10 .	-   -	-	- / -	- / -	-	-
CLEAR WAT	TILE	SEPTIC TAN	K PRIVY S	EEPAGE PIT	ABSORPTI	ON FIELD	BARN SILO	ABANDONED WEI	L SINK HOLE	
			25	·	-	-	-1/-	-	-	
OTHER POL	LUTION SO	URCES (Give	description s	uch as dump.	quarry, drain	age well, s	tream, pond, lake, etc.			
							, , ,, ,, ,,			
6. Well is	intended	to supply	water for:	91						
				Hom	e u	e				
7. DRILLHO				1 - (1)		10. FO	RMATIONS		1	1 - 4
Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)		Kind		From (ft.)	To (ft.)
10	Surface	20	6	20	124		Sand	2	Surface	21
			· .	<b>.</b> .			00		2 /	
				<u> </u>			Clay	/	2/	82
Dia. (in.)	G, LINER, C	Cind and Weigh		From (ft.)	To (ft.)		had	· · · · · · · · · · · · · · · · · · ·	82	99
1	Q2	00.0		Surface		A 1	n'			
6	Su		19.45		99		lines	me	99	124
	10	LT,	1.0							
	1000	A I Y			-					
	-	_								
						_		· · · · ·		
9. GROUT	OR OTHE	R SEALING	MATERIAL							
	Ki	nd		From (ft.)	To (ft.)					
1	ies	0		Surface	20					in the
an		uney			20					
		0				Well c	onstruction compl	eted on ah	ril - 18	7 1968
11. MISCE Yield test:	LLANEOUS	DATA 3	Hrs.	at 20	🤈 GPM	Well is	terminated /	8 inches	above f	inal grade
Depth from	n surface t	o normal v	vater level	6	ft.	Well d	isinfected upon c	ompletion	K Ye	s 🗌 No
Depth to v	vater level	when pum	ping	8	ft.	Well s	ealed watertight	upon completior	n ∦ Ye	s 🗌 No
Water sam	ple sent t	o Ma	lis				labor	ratory on:	ne 22	1968
wells, scre	ion concer ens, seals, mprooms,	type of	casing join	its, method	d of finish	ing the	ing difficulties er well, amount of	ncountered and	data relating	to nearby asting, sub-
SIGNATURE						COMPL	ETE MAIL ADDRESS			
	1/	n						1 1	•	_
you	up (	Lihne	Re	gistered W	/ell Driller	42	17 Conrol	It. Man	atown	AULD,
0 1							pace below			
COLIFORM 7	TEST RESULT	5	G	AS - 24 HRS	.   GA	S-48 HR	S. CONFIRM	ED REA	ARKS	

Please do not write in space below									
CONFIRMED	REMARKS								

*s*7 :

•				FEB	1 1977			
State of Wisconsin Department of Natural Resources Box 450		te Copy	DTE: – Division's – Driller's C		Form	L CONSTI 3300-15 10-75	RUCTOR'S	REPORT
Madison, Wisconsin 53701	Yell		- Owner's C			_		
1. COUNTY	CHECK (V) ONE		_	-	lame			
<u> </u>	Township Ra	nge Vill				UPPS	DRULING	CHECK () ONE
2. LOCATION SWY/NE 2		24		Raph	ael	~	nwood	A SUCCESSION
OR - Grid or Street No. Street Name			ADDRESS	0				
AND – If available subdivision name, lot &	block No.		POST OF	RE2	D.		· · · · ·	
4. Distance in feet from well Building Sar	nitary Bldg. Drain	Sanitary	Bldg. Sewer	Floor	Drain	Storm Blo	15.55	Storm Bldg. Sew
answer in appropriate	C.I. Other	C.I.	Other	C.I. Sewer	Other Sewer		Other	C.I. Other
Street Sewer Other Sewers Foundation D San, Storm C.I. Other Sewer	Sewage Sump	Sewage Sur C.I. Ott				ewage Absor	ption Unit	
Clearwater Dr.	Clearwater Sump			741		epage Bed epage Trend	79'	
Privy Pet Waste Pit: Nonconforming Existing Well Pump	Subsurface Pumpro Nonconforming Ex		Barn Animal utter Barn Pen	Animal Silo Yard With		ined Silo	Earthen Sil	age nch Or
Tank Temporary Watertight Solid Manure	Cubourface   Maste	Dand and a	nd Other (C	ive Descriptio		- Awar		
Manure Liquid Manure Storage Stack Tank Structure	Gasoline or Dispo	Pond or La sal Unit tify Type)	Ind Other (G	inve Descriptio	2(1)	1		
5. Well is intended to supply water for:	ne (lse		9. FORMAT	TIONS	/		From (ft.)	To (ft.)
6. DRILLHOLE Dia. (in.)   From (tt.)   To (ft.)   Dia. (in.)		o (ft.)	T	5	. /		Surface	2
10" Surface 0 27		ä	R	ed Cla	- \/		2	63
6" 27 84			Sa	nd , Gr	are/		63	83
7. CASING, LINER, CURBING AND SCREEN Material, Weight, Specification Dia. (in.) & Method of Assembly	From (ft.) T	o (ft.)	Wot	er Bear	ing Gra	avel	83	87
10" Black Standard	Surface 🖉 🙎	4	i.					
Steel Pipe - New	3 and a state of the	/						-
18.97 per Ft. U.S.S.	North Street Street							
P.E. Scamless	- Contraction							
ASTM-A-53	AND THE C		10. TYPE O	F DRILLING	1 Rotar	y-hammer	1	
8. GROUT OR OTHER SEALING MATERIAL			Cab	le Tool	mud w/dri	& air	. 🗆 י	etting with
Kind	From (ft.) T	o (ft.)		ary-air rilling mud	& air	y-hammer		Air Water
Puddled Clay	Surface 0 25	7		ary-w/drilling 1	Rever	se Rotary		
			Well construc	tion complete	d on <u>Fe</u>			19 77
11. MISCELLANEOUS DATA <u>Yield Test:</u> <u>Yield Test:</u> H	Irs. at	GPM	Well is termin	ated	inche		bove final elow	l grade
Depth from surface to normal water leve	1_12	Ft.	Well disinfecto	ed upon comp	letion	<b>□</b> ⁄ 1	les 🗆 No	
Depth of water level when pumping25 Ft.	Stabilized I Ye	es 🗆 No	Well sealed wa	tertight upon	completion	⊡ v	les 🗌 No	
Water sample sent to Madise					ory on Fe			19 <u>77</u>
Your opinion concerning other pollution hazard finishing the well, amount of cement used in gro	is, information conc outing, blasting, etc.	cerning diffi	culties encoun given on revers	tered, and dat se side.	a relating to	nearby well	s, screens, sea	is, method of
Signature			Complete Ma	il Address				
Roger P. Wiley	Registered Well	Driller	Rt2	Culto	<u>~, w</u>	is. 53	014	
V .						<b></b>		

1. COUNTY       CHECK (n ONE:       VIIIage       City       List of Check (n ONE:         2. LOCATION       Section       Terroribio       Range       3: NMME       City       List of Check (n ONE:         2. LOCATION       Site of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:         2. LOCATION       Site of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:         2. LOCATION       Site of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:         3. LOCATION       Site of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:         4. Distance in feet from well benchmarks (n Densition Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:       Part of Check (n ONE:         5. Well in standards (n Densition Check (n ONE:       Part of Check (n ONE:<		tment of Box	Wisconsin Natural Res 7921 sconsin 537			White Copy Green Copy Yellow Copy	- 1	Division's Driller's ( Dwner's (	opy	,		LL CC n 3300		RUCTO APR	1.000	EPORT 198076
1/2       Section	1. COUN	TY Q	·	,		·			~~		Name /	2	(			
OR       - Grid or Street Name       Or T/PN ?       ADDEES       Wint Ministration Control Statements (Statements)         4. Distance in fact from well subdivision name, for & block No.       POST OFFICE       Street Name       Other CL:         4. Distance in fact from well subdivision name, for & block No.       Street Name       CL:       Other CL:       Other CL:         5. Street Name       CL:       Other CL:       Other CL:       Other CL:       Other CL:       Other CL:         5. Street Name       CL:       Other Street Name       Street Name       Street Name       CL:       Other CL:         5. Street Name       CL:       Other Street Name       Street Name<		1/Lan	Section	Section				IAME		1 par		AT TI	ME OF	DRILLI	NG CH	ECK () ONE
AND - If available subdivision name, lot & block No.       POST OFFICE       POS				10	20	24	_		7	osci	1 Ter	lis	j,			
Number of the second s	OR	- Grid o	r Street No.	Street Na		N?	A	DDRES	21	05	91200	t,	ł,			
UD networkstististististististististististististis	AND	– If avai	lable subdivi	ision name, l	ot & block No.		P	OST OF	FICE	7-	D.		10	• 1		
UD networkstististististististististististististis	4 Distanc	ce in feet l	rom well	Building	Sanitary Bldg, D	rain Sanita	ry Bldg	Sewer	1	Floor	Drain	200		19. Drain	, 	orm Bida Saw
Biocol       Other Sever (During Several Foundation Drain Connected to) Several Sump       Connected Sump       Sump       The intermediation Drain Connected to) Several Sump       Sump       Sump       The intermediation Drain Connected to) Several Sump       Sump       Sump       The intermediation Drain Connected to) Several Sump	to near	est: (F	ecord	2								_				
San.       Storm C.1.       Other       Several       Storm C.1.       Other       Several       75       -       Several and several	block)			Foundatio	on Drain Connecte	ed to: Sewage	Sump					Sewage	Absor	ption Un	it	
Privy       Pet.       15. Topologic response to the transmission of transmission of the transmission of transmissi of transmission of transmissi of transmission of tran	San. St	torm C.I	. Other		Sump		Other	Sum	1p	Tank				.0		
Pump       Pump       Subservation       Subservation       Other Give Description         Menuny       Structure       Structure       Other Give Description         Stace       Other (Give Description)	Drivy De		Noncontor	Dr.	Sump		Barn	Animal				Seepag	e Tren		- Silaco	
Tank         Prenorative Market Base       Substitution (Structure Base       Water point (Structure Base       Other (Give Description) (Structure Base         5. Well is intended to supply water for:       9. FORMATIONS         6. DRILLHOLE       Kind       From (ft.)       To (ft.)         Dia. (in.)       Prom (ft.)       To (ft.)       To (ft.)       Surface         J.C. ASING, LINER, CURBING AND SCREEN       March Jacob       March Jacob       9.7         Milerial, Wagati, Scattality       From (ft.)       To (ft.)       To (ft.)       Surface       9.7         10. (in.)       Surface       2.0       6       2.0       1.2-6.1       Surface       9.7         10. Surface       2.0       6       2.0       1.2-6.1       Surface       9.7       1.1.0         10. (in.)       & March Jacob       1.0       1.2-6.1       Surface       9.7       1.1.0         10. (in.)       & March Jacob       1.0	W	aste We	11				Gutter	Barn			h Pitl Stora	ge	w/o Pit	Storage	Trencl	h Or
Manure       Linux Manure       Streeture       Gammer       Discost Urities         5. Well is intended is supply water for:              5. Well is intended is supply water for:               6. DRILLINDE                 10. surface       20       6       20       12-6/         Surface           7. CASING, LINER. URBING AND SCREEN		Tar	ık	2 - 11 - 14 -												
Kind       From (ft.)       To (ft.)         0. DRILLHOLE       Dis. (in.)       From (ft.)       To (ft.)       Surface       38         10. (in.)       From (ft.)       To (ft.)       To (ft.)       Surface       38       97         10. (in.)       Surface       ZO       6       20       12-61       Surface       38       97         10. Surface       ZO       6       20       12-61       Surface       97       1/0         7. CASING, LINER, CURBING AND SCREEN       Inc.       Hard Gens       97       1/0         Dia. (in.)       & Method of Assembly       From (ft.)       To (ft.)       Inc.       12.6         6       Stale Little 1897       Surface       1/0       Inc.       12.6       12.6         10. TYPE OF DRILLING MACHINE USED       Reverse Nammer       Inc.	Manure	Liqu	id Manurei	Storage	Gasoline or	Disposal Unit		Other (	Give	escription	on)					
Kind       From (ft.)       To (ft.)         0. DRILLHOLE       Dis. (in.)       From (ft.)       To (ft.)       Surface       38         10. (in.)       From (ft.)       To (ft.)       To (ft.)       Surface       38       97         10. (in.)       Surface       ZO       6       20       12-61       Surface       38       97         10. Surface       ZO       6       20       12-61       Surface       97       1/0         7. CASING, LINER, CURBING AND SCREEN       Inc.       Hard Gens       97       1/0         Dia. (in.)       & Method of Assembly       From (ft.)       To (ft.)       Inc.       12.6         6       Stale Little 1897       Surface       1/0       Inc.       12.6       12.6         10. TYPE OF DRILLING MACHINE USED       Reverse Nammer       Inc.									d"						2	<u>,</u>
6. DRILLHOLÉ DR. (II.) From (IL.) To (IL.) Dia. (In.) From (IL.) To (IL.) DR. (II.) From (IL.) To (IL.) Dia. (In.) From (IL.) To (IL.) Surface ZO 6 ZO 12-61 Acandy Clay 38 97 . CASING LINER, CURRING AND SCREEN DRIAM STRUCTURE CONTROL AND SCREEN STRUCTURE CONTROL AND SCREEN DRIAM STRUCTURE CONTROL AND SCREEN STRUCTURE CONTROL AND SCREEN DRIAM STRUCTURE CONTROL AND SCREEN STRUCTURE CONTROL AND SCREEN DRIAM STRUCTURE CONTROL AND SCREEN STRUCTURE SCREENS, SERIEM SCREENS, SERIEM, SEREENS, SERIEM SCREENS, SERIEM SCREENS, SERIEM SCREENS, SERIEM, SEREMAND SCREENS, SERIEM SCREENS, SE	5. Well is	intended	supply wa	ter for:			9.	FORMA	TION				1	From (f	t.)	To (ft.)
10       Surface       20       6       20       12-61       Jandy Clay       38       97         7. CASING LINER, CURBING AND SCREEN Dia (m.)       Material Weight, Specification       97       110       12.6         10. (m.)       & Method of Assembly       From (t.)       To'(t.)       LineeAttoric       110       12.6         6       Steel, Stell 1897       Surface       110       12.6       12.6         MKK       Method of Assembly       From (t.)       To'(t.)       Return Assembly       10.7         8.       GROUT OR OTHER SEALING MATERIAL       Cable Tool       Rotary-harmner       Air         Kind       From (t.)       To (t.)       Rotary-harmner       Air         Mill Sully       Surface       2.0       Rotary-harmner       Bit water			mez,	ALC -		1	2	,1 <sup>*</sup>			D	*:				
7. CASING LINER, CURBING AND SCREEN       Image for the second of the seco	Dia. (in.)	From (t			.) From (ft.)	To (ft.)			~	lan						00
Dia. (in.)       & Method of Assembly       From (ft.)       To'(ft.)       Kennethoric       III	10	Surfac	20	6	20	12-6	1	A	en	ly	Clay	1		38	7	97
Dia. (in.)       & Method of Assembly       From (ft.)       To'(ft.)       Kennethoric       III						, was		le	. (	10 ha	0			9	7	110
Dia. (in.)       & Method of Assembly       From (ft.)       To'(ft.)       Kennethoric       III	7. CASIN	G, LINER	, CURBING	AND SCR	EEN			/nc	1	per			-		·	141
Mew black       Image: Stand Sta					From (ft.)	To (ft.)		Ku	úe	sto	re				0	126
FRWB       10. TYPE OF DRILLING MACHINE USED         NKK       MKK         NKK       States         8. GROUT OR OTHER SEALING MATERIAL       Cable Tool         Kind       From (ft.)         To (ft.)       Rotary-air         Milling       Mud & air         Milling       Patting with         Rotary-air       Rotary-hammer         Milling       Air         Water       Rotary-widrilling         Mulling       Reverse Rotary         Well construction completed on       Male 1         Miscellane to normal water level       16         Pepth from surface to normal water level       16         Well construction completion       Press         No       Depth of water level         when pumping       2.5         Ft.       Stabilized         Yes       No         Water sample sent to       Minute 4         Multing       Information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.         Signature       Complete Mail Address	6	ste	el st	d 189	7 Surface	1110										
FRWB       10. TYPE OF DRILLING MACHINE USED         NKK       MKK         NKK       States         8. GROUT OR OTHER SEALING MATERIAL       Cable Tool         Kind       From (ft.)         To (ft.)       Rotary-air         Milling       Mud & air         Milling       Patting with         Rotary-air       Rotary-hammer         Milling       Air         Water       Rotary-widrilling         Mulling       Reverse Rotary         Well construction completed on       Male 1         Miscellane to normal water level       16         Pepth from surface to normal water level       16         Well construction completion       Press         No       Depth of water level         when pumping       2.5         Ft.       Stabilized         Yes       No         Water sample sent to       Minute 4         Multing       Information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.         Signature       Complete Mail Address	_		0	00		si i										
FRWB       10. TYPE OF DRILLING MACHINE USED         NKK       MKK         NKK       States         8. GROUT OR OTHER SEALING MATERIAL       Cable Tool         Kind       From (ft.)         To (ft.)       Rotary-air         Milling       Mud & air         Milling       Patting with         Rotary-air       Rotary-hammer         Milling       Air         Water       Rotary-widrilling         Mulling       Reverse Rotary         Well construction completed on       Male 1         Miscellane to normal water level       16         Pepth from surface to normal water level       16         Well construction completion       Press         No       Depth of water level         when pumping       2.5         Ft.       Stabilized         Yes       No         Water sample sent to       Minute 4         Multing       Information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.         Signature       Complete Mail Address		nei	und	ack												
FRWB       10. TYPE OF DRILLING MACHINE USED         NKK       MKK         NKK       States         8. GROUT OR OTHER SEALING MATERIAL       Cable Tool         Kind       From (ft.)         To (ft.)       Rotary-air         Milling       Mud & air         Milling       Patting with         Rotary-air       Rotary-hammer         Milling       Air         Water       Rotary-widrilling         Mulling       Reverse Rotary         Well construction completed on       Male 1         Miscellane to normal water level       16         Pepth from surface to normal water level       16         Well construction completion       Press         No       Depth of water level         when pumping       2.5         Ft.       Stabilized         Yes       No         Water sample sent to       Minute 4         Multing       Information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.         Signature       Complete Mail Address		we	elso-	founts	1 /											_
NKK       MKK       Mailing       10. TYPE OF DRILLING MACHINE USED         8. GROUT OR OTHER SEALING MATERIAL       Cable Tool       Rotary-hammer       Imad & air         Kind       From (ft.)       To (ft.)       Rotary-air       Rotary-hammer       Imad & air         Multiplicity       Surface       2.0       Rotary-wir       Reverse Rotary       Imad & air         Milling       Surface       2.0       Well construction completed on       Malach       2.7       19.80         11.       MISCELLANEOUS DATA       Image: Stary air       Image: Stary air <t< td=""><td>FRWA</td><td></td><td></td><td></td><td>1</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	FRWA				1	_										
8. GROUT OR OTHER SEALING MATERIAL          □ Cable Tool         □ widd air         □ Midd air         □ Rotary-air         □ Midd air         □ Rotary-air         □ Midd air         □ Rotary-air         □ Rotary-w/drilling         □ Reverse Rotary         □         □ Rotary-Milling         □ Reverse Rotary         □         □         □ Rotary-         □ Rotary-mydrilling         □ Reverse Rotary         □         □         □	-1110		2				10.	TYPE	OF DR	RILLING	MACHIN	E USE	D		·	
3. GROUT OR OTHER SEALING MATERIAL       From (ft.)       To (ft.)       Rotary-air w/drilling mud       Rotary-hammer       Air         Multiplicity       Surface       20       Rotary-w/drilling       Reverse Rotary       Water         11. MISCELLANEOUS DATA       Well construction completed on Multiplicity       If above       final grade         11. MISCELLANEOUS DATA       If above       final grade         11. MISCELLANEOUS DATA       If above       final grade         11. MISCELLANEOUS DATA       If above       final grade         Vield Test:       3       If s. at       20         Depth from surface to normal water level       16       Ft.       Well disinfected upon completion       If yes I No         Water sample sent to       10       11/2       It was an information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finising the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.       Signature         Signature       Complete Mail Address       Complete Mail Address	NKK	an	2m A	53	1		_				w/d	rilling				ting with
Image: Surface       Image	8. GROUT	T OR OTI		NG MATER	1	To (ft.)			otary-a	air	Det	ary-ha				
Well construction completed on March 27 1980         11. MISCELLANEOUS DATA         Yield Test:       3       11rs. at       20       GPM       Well is terminated       16       inches       below       final grade         Depth from surface to normal water level       16       Ft.       Well disinfected upon completion       If Yes       No         Depth of water level       16       Ft.       Well sealed watertight upon completion       If Yes       No         Water sample sent to       10       10       10       Yes       19       90         Your opinion concerning other poll tigh hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.         Signature       Complete Mail Address	1	- 1	_				-		otary-v	-						Water
11. MISCELLANEOUS DATA       Itrs. at       20_GPM       Well is terminated       16_inches       inches       final grade	da	ll,	sling	(	Surface	20		m.	bt		Rev	erse R	otary			
Yield Test:       3       IIrs. at       20       GPM       Well is terminated       1.6       inches       inches       inches       final grade         Depth from surface to normal water level       1.6       Ft.       Well disinfected upon completion       If Yes       No         Depth of water level       1.6       Ft.       Well disinfected upon completion       If Yes       No         Water sample sent to       1.6       If Yes       No       No       No         Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.       Complete Mail Address	-		U				Wel	l constru	ction	complet	ed on	ale	·l.	2	7	_ 19 80
Depth from surface to normal water level       /6       Ft.       Well disinfected upon completion       If Yes       No         Depth of water level       /6       Ft.       Well disinfected upon completion       If Yes       No         Water sample sent to       Directed - Manufacture       Iaboratory on       Image: State of the second					lles at Q	20 0		1 in tormi	natad	10	/ inc	hoe	-		final g	rade
Depth from surface to normal water local       Image: Stabilized       Image: Stabi	110	10_1056_=			<u> </u>											
when pumping Ft. Stabilized I Yes No Well sealed watertight upon completion I Yes No         Water sample sent to		•		ormal water	level 16	Ft.	Well	disinfec	ted up	on com	pletion			Yes 🗀	No	
Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.  Signature Complete Mail Address		•	1	Ë Ft	. Stabilized	Yes 🗆 1	No Well	sealed w	aterti	ght upor	n completio	n	P	Yes 🗆	No	
Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.  Signature Complete Mail Address	W	tor come!	cont to (	y'.	01 9	the iter	and I	1		laborat		3-	2	7		1980
finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.         Signature       Complete Mail Address	Your opin	nion conce	rning other	pollution ha	azards, informatio	on concerning d	ifficulti	es encou	ntered	i, and da			by wel	ls, screen	s, seals,	
	finishing t	the well, a	mount of ce	ement used i	n grouting, blastin	ng, etc., should	be giver	1 on reve	rse sid	le.						
Joseph Tohm Registered Well Driller 4217 Poncal It. Wismitowood Mins	Signature		1	n			Cor	nplete M	ail Ad	dress			-			
	yos	eph	to	Sans	Registere	d Well Driller	4	217	Pa	nco	elt.	1	Vit	milter	wor	1 Tilles
	0 0				,								4			
							•					1				. 8:

WELL COL	NSTRUCTOR			DEDADTA		OF WIS		DEVEL	0045			Wal 6
	NSTRUCTOR	CS REPORT			AENT OF	RESO			OPME			Wel 6
I. COUNTY	1. 7	· ,		CHECK Town			ty NAME	-	$\sum_{i=1}^{n}$			
2. LOCATI	IN (Number a	nd Street or 3	4 section, sect		and range. Als		- AA	me, lot an	d block n	umbers when	available.)	
SK	N'al	dic.il	2719	NR	24-2	5E	_					
3. OWNER	AT TIME OF	DRILLING	Ka A	0		1						
4. OWNER	S COMPLETE	MAIL ADD	RESS	inthe								• • • • • • • • •
110	1 Fra	and	in St	, ma	netor	22	Uisc					
	e in feet fro		incur con	UILDING SAL	C.I.   TILL	ER FLOOR C. I.	DRAIN TILE SE		NDATION	DRAIN INDEPENDI		TER DRAIN
(Record a	nswer in appr	opriate block)		6 -		-	-		-	-	-	-
		SEPTIC TAN	K PRIVY S	SEEPAGE PIT	ABSORPTI	ON FIELD	BARN	SILO	ABAND	ONED WELL	SINK HOLE	
C. I.	TILE	_			-	~	-	-		_		
OTHER POI	LUTION SOL	JRCES (Give	description s	uch as dump,	quarry, drain	age well, s	tream, pond	d, lake, et	.)		]	
							-					
6. Well is	intended	to supply	water for:	H								
7 00010		The second second		1010	de 1	10 50	RMATION	10				
7. DRILLH Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)	10. 101		ind			From (ft.)	To (ft.)
in	Surface	20	6	20	303			1	Q		Surface	20
								11			20	FØ
8 CASINO	I G, LINER, CI		ND SCREET	l N	1			G	7		<i></i>	25
Dia. (in.)	1	(ind and Weigh		From (ft.)	To (ft.)		10	land			58	97
6	stu	lith.	1945	Surface	108		1	hand	kin	~	97	108
	nau	place	A. Tres					2:4	+17	-	108	303
	12000	Anna		-				1000	<u>nacion</u>			000
9. GROUT	OR OTHER		MATERIAI	From (ft.)	To (ft.)		,					
he	ieva	lury		Surface	20			-				
		0	_			Well c	onstructio	on comp	leted or	Sec	1 30 -	19/2
11. MISCE Yield test:	LLANEOUS	DATA	Hrs.	at 1 <sup>m</sup>	O GPM		termina		24	inches	below fi	inal grade
				. 4		Well d	isinfected	d upon	completi	ion		
	n surface to			der l. Com	1	Well	ealed wa	tertight	upon c	ompletion	Yes	
	vater level	and the second second	ping	80	9 ft.						4 100	
Water sam	nple sent to	M	cher	ر				labo	oratory d	on: DC	+1-	1968
Your opin	ion concern	ning other	pollution	hazards. in	nformation	concern	ing diffi	culties e	ncounte	red, and	data relating	to nearby

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE		COMPLETE MAIL	ADDRESS	
Joseph Rikme	Registered Well Dr	iller 42170	mar St. 9	Mentour Wis.
0	Please do no	ot write in space be	low	,
COLIFORM TEST RESULT	GAS - 24 HRS.	GAS - 48 HRS.	CONFIRMED	REMARKS
		1	1	al l

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	C ONSTRU	CTOR'S R	EPORT	WHITE		2 9 1970		C	DEPARTME	NT OF NA Box 4		SOURCES
Wel-6				GREEN	N COPY -	OWNER'S	COPY		Ma	dison, Wis	consin 5370	01
1. COUNTY	× '~	• •	_	CHECK Town	ONE Villa	ge 😰 Ci	NAME	- 0:				
2. LOCATIO	ON (Number a	nd Street or 1/2	section, se	ction, township a			1000	me, lot and	block numb	ors when av	ailable.)	
NE	= tod	Sec. 10	n.+-1	9 NR :	14-2	5-E						
3. OWNER	AT TIME OF	DRILLING	2						-			
4. OWNER	S COMPLETE	MAIL ADDI	RESS	cc								
3,	1482	nenne	Tiel	Dria	NT.	in N	· ·	1911	in in			
5. Distanc	e in feet ff	om well to	nearest:		NITARY SE C. I.   TI	WER FLOOR	DRAIN TILE SI		NDATION DE		WASTE W.	ATER DRAIN
(Record a	nswer in appr	opriate block)		15-	18 -	- 2.8			_			45-
		SEPTIC TAN	K PRIVY	SEEPAGE PIT	ABSORP	TION FIELD	BARN	SILO	ABANDONE	D WELL	SINK HOLE	170
C. I.	TILE				a	2 0			Sand	paint		
OTHER POL	LUTION SOL	IRCES (Give	description	such as dump,			Iroam pou	vi laka etc	30'an	card 1		
				boon as unap,	quary, an		in child, post		.,	0		
6. Well is	intended	to supply	water fo	r: //								
				him	d a	use						
7. DRILLHO	OLE From (ft.)	To (ft.)	Die. (in.)	From (ft.)	To (ft.)	10. FO	RMATION	NS (ind			From (ft.)	To (ft.)
	Surface								<i></i>		Surface	10 (11.)
10	Jurrace	20	6	20	132	-		Land	2		SUFFACE	46
								11			11	C a
8 CASINO	J G, LINER, C	URBING, A	ND SCRE	EN				2 41			46	08
Dia. (in.)	1	and Weigh		From (ft.)	To (ft.)		Ko	nop	in	-	88	102
/	·F.	1.1		Surface			1	, /				
	sun	nu.	1442		102	÷	- La	mile	(mil)		182	132
	1.f.h.	a les	4									
	T	1;	1 +	-		-						
	men!	place	-140									
							 ,					
						_						
9. GROUT	OR OTHER		MATERIA	1	To (ft.)							
	Kir			From (ft.)	10 (11.)							
du	wst	und		Surface	20							
		0				Wall			eted on (	71.1	. a	10 7
11. MISCE	LLANEOUS	DATA			-				ered on C	1	above	19 20
Yield test:		234	Hrs.	at 2 d	Ø GPA	A Well is	termina	ited	12 ír	iches	below f	inal grade
Depth from	n surface to	o normal w	vater leve	el 14	fi	Well d	isinfected	d upon c	ompletion		P Ye	s 🗌 No
Depth to w	vater level ·	when num	ning	11.	fi	Well s	aled wa	atertight	upon com	pletion	Ye Ye	s 🗌 No
		0		14		<u>.</u>				a . '	· · ·	10
Water sam	ple sent to	Ma	lise	لمسيره				labor	atory on:	lpu	0 2	2 20
wells, scre	ens, seals,	type of a	asing jo	n hazards, ir ints, method ould be give	d of finis	hing the	well, arr					
SIGNATURE						COMPL	TE MAIL	ADDRESS				
0	,	$\sim$ /										
You	up f	Rihm	ci R	Registered W	ell Drille	· 421	7 (m	mil	At.	man	lour	+ 1U4
01	/	-				write in s						
COLLFORM 1	TEST RESULT			GAS - 24 HRS.		2AS - 48 HR	5.	CONFIRM		REMAR	2	
								1				