Northwest Wisconsin · Polk Co. Rear Luck, Balsam Lake, Amery

Absolute - selling without reserve REAL ESTATE AUCTION Tuesday, September 29 • 10:00am

held at Amery Area Community Center, 608 Harriman Ave. South, Amery, W.

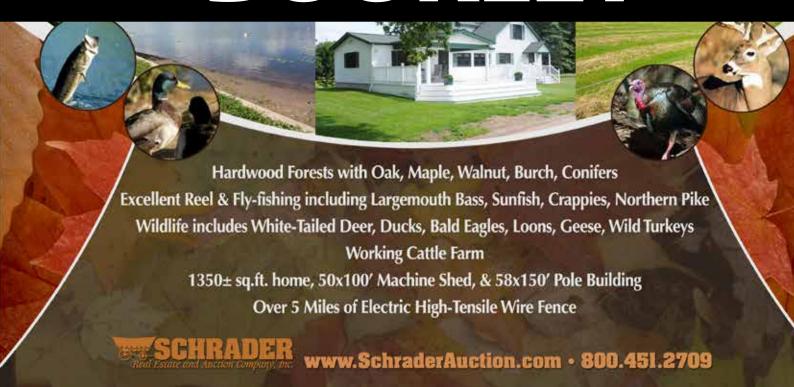




Lost Lake - 70± Acre Private, Deep, Spring-fed Lake

130± Acres FSA Tillable County Record Corn Yields

# INFORMATION BOOKLET



#### **DISCLAIMER:**

This information booklet includes information obtained or derived from third-party sources. Although believed to be accurate and from reliable sources, such information is subject to verification and is not intended as a substitute for a prospective buyer's independent review and investigation of the property. Prospective buyers are responsible for completing their own due diligence.

THIS PROPERTY IS OFFERED "AS IS, WHERE IS". NO WARRANTY OR REPRESENTATION, STATED OR IMPLIED, IS MADE CONCERNING THE PROPERTY. Without limiting the foregoing, Owner, Auction Company and Cooperating Broker, and their respective agents and representatives, assume no liability for (and disclaim any and all promises, representations and warranties with respect to) the information and reports contained herein.

Seller: Charles E. Purdy III

Auction Company: Schrader Real Estate and Auction Company, Inc.



### **BOOKLET INDEX**

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- COUNTY INFORMATION (Tax Parcel Maps, Tax Bills, Zoning Maps)
- FARMLAND PRESERVATION AGREEMENT
- FORESTRY MANAGEMENT PLAN
- LOST LAKE STUDY
- WATER WELL TEST RESULTS
- PHOTOS



### **BIDDER PRE-REGISTRATION FORM**

### 520 ACRES – LUCK, WISCONSIN TUESDAY, SEPTEMBER 29, 2015

This form must be received at Schrader Real Estate and Auction Company, Inc., P.O. Box 508, Columbia City, IN, 46725, Fax # 260-244-4431, no later than Tuesday, September 22, 2015

### **BIDDER INFORMATION**

	(FOR OFFICE USE ONLY)
Name	Bidder #
Address_	
City/State/Zip	
Telephone: (Res) (Office	ce)
My Interest is in Property or Properties #	
BANKING INFORM	IATION
Check to be drawn on: (Bank Name)	
City, State, Zip:	
Contact: Phone No	
Those In	
<b>HOW DID YOU HEAR ABOUT</b>	THIS AUCTION?
☐ Brochure ☐ Newspaper ☐ Signs ☐ Internet	□ Radio □ TV □ Friend
□ Other	
WOULD YOU LIKE TO BE NOTIFIED	OF FUTURE AUCTIONS?
☐ Regular Mail ☐ E-Mail	
☐ Tillable ☐ Pasture ☐ Ranch ☐ Timber ☐	Recreational
What states are you interested in?	_ Dunuing Sites
what states are you interested in:	
Note: If you will be bidding for a partnership, corporation or othe with you to the auction which authorizes you to bid and sign a P	
I hereby agree to comply with terms of this sale including, but not accordance with the contract if I am the successful bidder. Schrad represents the Seller in this transaction.	
Signature:	Date:

#### Online Auction Bidder Registration 520± Acres • Luck, Wisconsin Tuesday, September 29, 2015

This registration form is for the auction listed above only. The person signing this form is personally responsible for any bids placed on the auction site, whether bidding on behalf of their personal account or on behalf of a corporation or other third party. If you are bidding on behalf of a third party, you are responsible for obtaining the necessary documentation authorizing you to bid on behalf of the third party. Schrader Real Estate and Auction Co., Inc. will look to the herein registered bidder for performance on any bid placed on this auction if you are the successful high bidder.

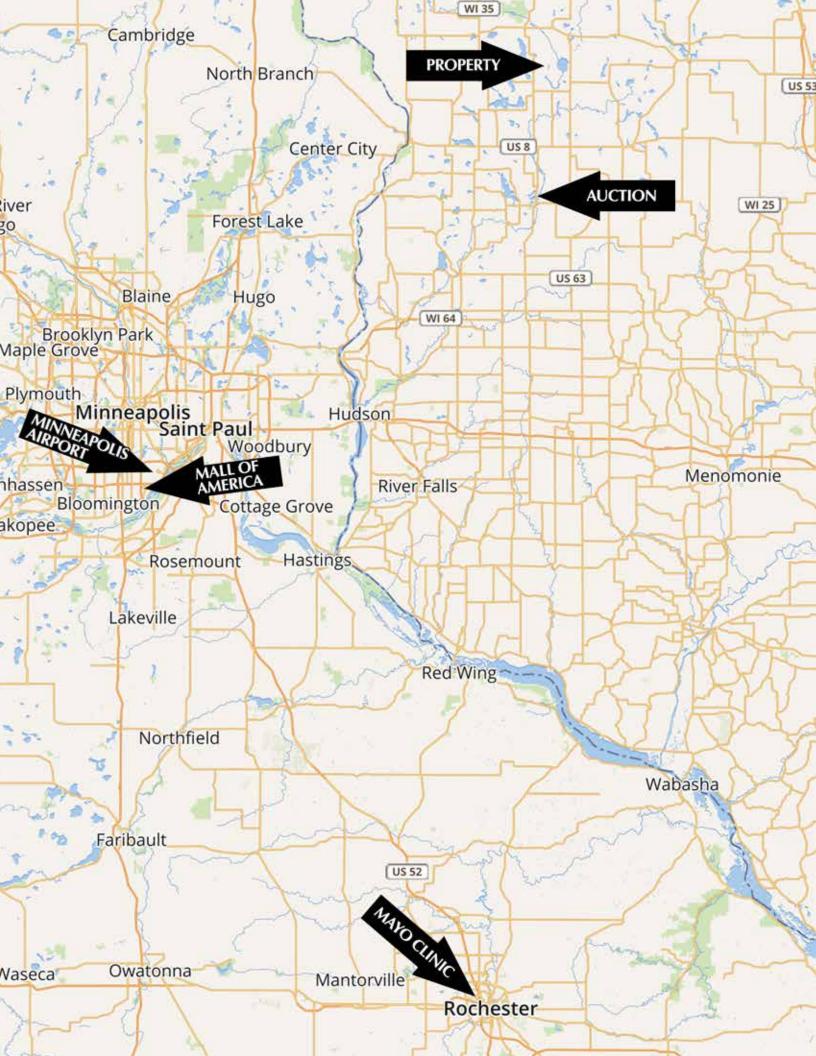
As the registered bidder, I hereby agree to the following statements:

1.	My name and physical address is as follows:
	My phone number is:
2.	I have received the Real Estate Bidder's Package for the auction being held on Tuesday, September 29, 2015.
3.	I have read the information contained in the Real Estate Bidder's Package as mailed to me or by reading the documents on the website (www.schraderauction.com) and understand what I have read.
4.	I hereby agree to comply with all terms of this sale, including paying all applicable buyer's premiums, and signing and performing in accordance with the Real Estate Purchase Agreement if I am the successful bidder.
5.	I understand that Schrader Real Estate and Auction Co., Inc. represent the Seller in this transaction.
6.	I am placing a deposit with Schrader Real Estate and Auction Co., Inc. Escrow in the amount of \$ I understand that the maximum bid or combination of bids I place may not exceed an amount equal to ten times the amount of my deposit. My deposit is being conveyed herewith in the form of a cashier's check payable to Schrader Real Estate and Auction, Co., Inc. Escrow or via wire transfer to the escrow account of Schrader Real Estate and Auction, Co., Inc. per the instructions below. I understand that my deposit money will be returned in full if I am not the successful high bidder on any tract or combination of tracts.
	Schrader Real Estate & Auction Company, Inc. 950 North Liberty Drive / P.O. Box 508, Columbia City, IN 46725 Phone 260-244-7606; Fax 260-244-4431
	Wire instructions: ABA Routing Number: 074901672

	Bank Name: Bank Address:	Star Financial Bank 102 W. Van Buren		
	City/State:	Columbia City, IN		
	Bank Phone:	260-248-6000		
	Contact Name:	Jim Argerbright		
	Account Number:	11035984		
	Beneficiary Name:	Schrader Real Estate	& Auction Co., Inc.	
7.	-	er and bank account number it money). My bank name a		(This
8.	partners and vendors,	make no warranty or guar	Estate and Auction Co., Inc., it	system will
	technical problem occu Schrader Real Estate an liable or responsible for technical failure. I ackn	ars and you are not able to ad Auction Co., Inc., its affi- for any claim of loss, whet howledge that I am accepting	problems can and sometimes do to place your bid during the liliates, partners and vendors will ther actual or potential, as a reg this offer to place bids during a the auction as a personal con	not be held esult of the live outcry
9.	•	4:00 PM, Tuesday, Septem	ceived in the office of Schrader aber 22, 2015. Send your deposi	
I unde	rstand and agree to the ab	oove statements.		
Regist	ered Bidder's signature		Date	
Printe	d Name			
This a	ocument must be comple	eted in full.		
		ed form and your deposit asse confirm your e-mail ad	money, you will be sent a bidd ldress below:	er number
E-mai	l address of registered bid	lder:		
		n. We hope your online bide	ling experience is satisfying and	

Tha convenient. If you have any comments or suggestions, please send them to: kevin@schraderauction.com or call Kevin Jordan at 260-229-1904.

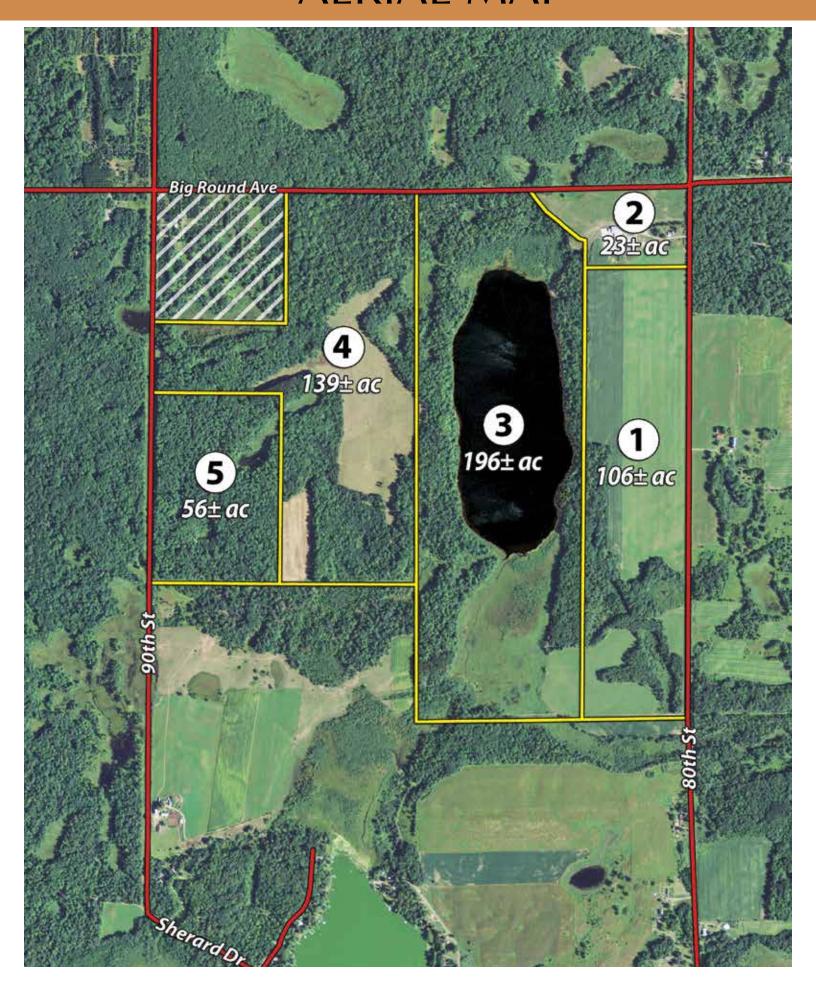




### LOCATION MAP

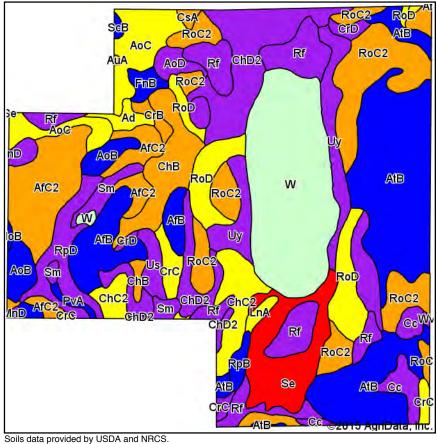


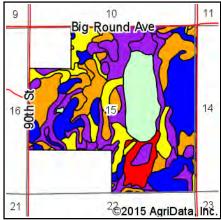
### **AERIAL MAP**





### SOIL MAP





State: Wisconsin

County: **Polk** 

Location: 15-35N-16W Township: Georgetown

Acres: 520

6/29/2015 Date:







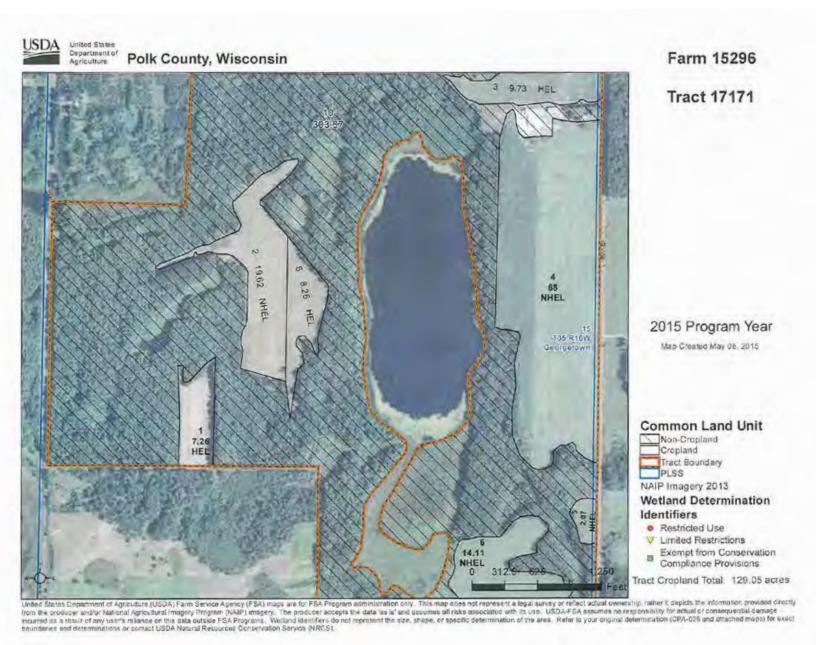
Code	Soil Description	Acres	Percent of field	Non-Irr Class Legend	Non-Irr Class	Irr Class	Alfalfa hay	Corn	Corn silage	Grass clover	Kentucky bluegrass	Oats	Red clover hay	Reed canarygrass	Smooth bromegrass	Soybeans	Winter wheat
AtB	Antigo silt loam, 2 to 6 percent slopes	78.69	15.1%		lle	lle	4	90	15	7	3.9	80	-			30	45
W	Water	62.35	12.0%														
RoC2	Rosholt loam, 6 to 12 percent slopes, eroded	54.59	10.5%		IIIe		3.3	70	11	5.6	2.8	60				23	38
ChD2	Chetek sandy loam, 12 to 20 percent slopes, eroded	40.64	7.8%		Vle		2.6			4.7		40			2.1		
Rf	Rifle muck	35.38	6.8%		Vlw									3.3			
AfC2	Alban fine sandy loam, 6 to 12 percent slopes, eroded	33.92	6.5%		IIIe		3.5	85	14	6.1	3.2	65				28	40
Se	Saprists and Aquents	23.03	4.4%		VIIIw												
RoD	Rosholt loam, 12 to 20 percent slopes	21.92	4.2%		IVe		3.1	65	10	5.4		55			2.6	21	36
AoC	Amery complex, 6 to 12 percent slopes	20.07	3.9%		IVe		3.6	75	12	5.6	2.8	55				24	35
AfB	Alban fine sandy loam, 2 to 6 percent slopes	19.35	3.7%		lle		3.7	90	15	6.3	3.4	70				30	42
Uy	Udorthents, loamy	18.67	3.6%		Vle												
ChB	Chetek sandy loam, 2 to 6 percent slopes	17.87	3.4%		Ille		3.2	70	11	5.3	2.7	60				23	30

# SOIL MAP

RpD	Rosholt- Cromwell complex, 12 to 20 percent slopes	16.91	3.3%		Ve		3	60	10	5.2		55			2.5	20	34
ChC2	Chetek sandy loam, 6 to 12 percent slopes, eroded	15.93	3.1%		IVe		2.8	60	10	4.9	2.3	50				20	26
AoB	Amery complex, 1 to 6 percent slopes	9.28	1.8%		lle		3.8	80	13	5.8	3	60				26	37
Сс	Cathro muck	8.31	1.6%		Vlw									4			
Sm	Seelyeville muck	6.52	1.3%		VIw									4.2			
CrC	Cromwell sandy loam, 6 to 12 percent slopes	5.97	1.1%		IVe		2.9	60	10	5.1	2.5	50	2.3			20	28
Us	Udorthents,	4.36	0.8%		VIIe												
AoD	Amery complex, 12 to 20 percent	3.68	0.7%		Ve		3.4	70	11	5.4		50			2.6	23	33
FnB	Freeon silt loam, 2 to 6 percent slopes	3.10	0.6%		lle		4.3	90	15	7	3.9	75				30	45
Ad	Adolph silt	3.01	0.6%		IVw			80	12			65	3	2.9		25	
RpB	Rosholt- Cromwell complex, 2 to 6 percent slopes	2.58	0.5%		lle	lle	3.5	75	12	5.8	3.2	65				24	40
CrD	Cromwell sandy loam, 12 to 25 percent slopes	2.51	0.5%		Vle		2.6			4.7		40			2.1		
MnC	Menahga loamy sand, 6 to 12 percent slopes	2.18	0.4%		VIs		2.3	45	7	3.8	1.5	40				15	24
CrB	Cromwell sandy loam, 2 to 6 percent slopes	2.12	0.4%		IIIe		3.1	65	10	5.3	2.7	55	2.5			21	30
LnA	Lino loamy fine sand, 0 to 3 percent slopes	1.73	0.3%		IVw		2.5	50	8	4.3	2.5	50	2			16	30
PvA	Plover fine sandy loam, ice-walled lake plain, 0 to 3 percent slopes	1.31	0.3%		llw		3.5	85	13	5.8	3.1	65	3			26	39
CsA	Cromwell variant sandy loam, 0 to 3 percent slopes	1.05	0.2%		IIIw			70	12	5.3	2.7	55	2.5			21	30
Ns	Newson loamy fine	0.95	0.2%		Vlw									2			
ScB	Sand Santiago- Antigo silt loams, 2 to 6 percent slopes	0.64	0.1%		lle	lle	4.5	90	15	7	3.9	75				30	45
MnD	Menahga loamy sand, 12 to 25 percent slopes	0.45	0.1%		VIIs		2			3.3					1.1		
МоВ	Mora loam, 1 to 4 percent slopes	0.41	0.1%		lle		4	80	13	6	3.2	65	3.5			37	40
Wv	Warman variant sandy loam	0.30	0.1%		Vlw			70	11			60	3	3.4		23	
AuA	Auburndale silt loam, 0 to 3 percent slopes	0.22	0.0%		IIIw			85	14			65	3.5	2.9		28	
				Wei	ghted A	verage	2.3	46.9	7.6	4	1.7	42.6	0.1	0.4	0.4	15.5	23



### **FSA INFORMATION**



### **FSA INFORMATION**

Wisconsin

U.S. Department of Agriculture

Polk

FARM: 15296

Prepared: 7/8/15 7:15 AM

Farm Service Agency

Crop Year: 2015

Report ID: FSA-156EZ

Abbreviated 156 Farm Record

Page: 1 of 1

DISCLAIMER: This is data extracted from the web farm database. Because of potential messaging failures in MIDAS, this data is not guaranteed to be an accurate and complete representation of data contained in the MIDAS system, which is the system of record for Farm Records.

**Operator Name** 

CHARLES E PURDY III

Farm Identifier

Recon Number

Farms Associated with Operator:

None

CRP Contract Number(s): None

Farmland	Cropland	DCP Cropland	WBP	WRP/EWP	CRP Cropland	GRP	Farm Status	Number of Tracts
432.72	129.05	129.05	0.0	0.0	0.0	0.0	Active	1
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	MPL/FWP	Native Sod		FAV/WR History	
0.0	0.0	129.05	0.0	0.0	0.0		N	

ARC/PLC

ARC-IC NONE ARC-CO CORN

PLC NONE **PLC-Default** NONE

Crop CORN

Base Acreage 92.8

**CTAP Tran** Yield

PLC Yield

CCC-505 **CRP** Reduction

122

0.0

Total Base Acres:

92.8

Tract Number: 17171 Description: 23 GEORGETOWN

FAV/WR History

N

GRP 0.0

**BIA Range Unit Number:** 

HEL Status: HEL: conservation system is being actively applied

Wetland Status: Wetland determinations not complete

WL Violations:

Farmland	Cropland	DCP Cropland	WBP	WRP/EWP	CRP Cropland
432.72	129.05	129.05	0.0	0.0	0.0
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	MPL/FWP	Native Sod
0.0	0.0	129.05	0.0	0.0	0.0

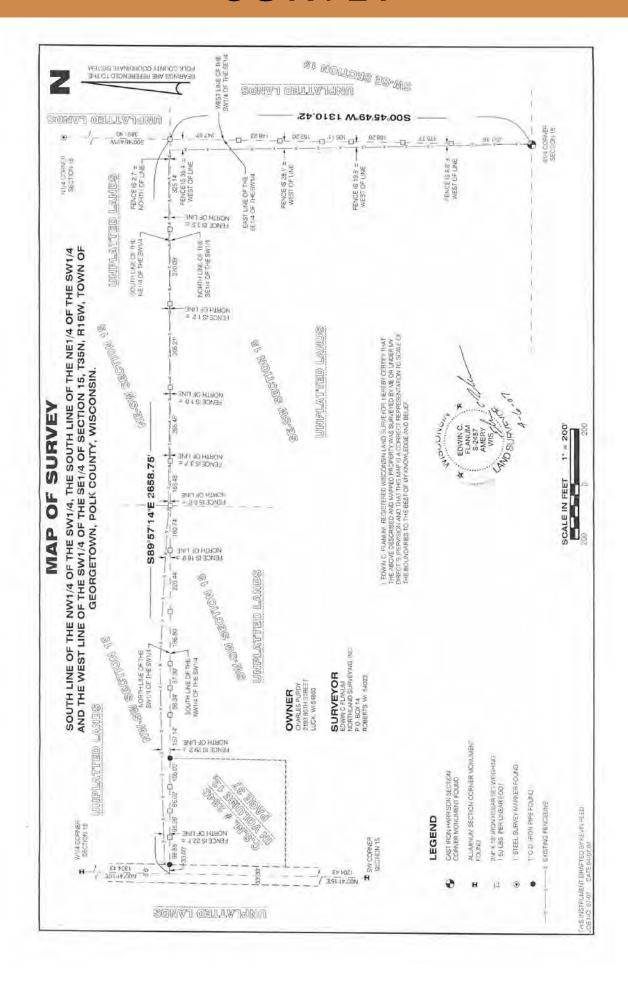
Crop	Base	CTAP Tran	PLC	CCC-505
	Acreage	Yield	Yield	CRP Reduction
CORN	92.8		122	0.0

Total Base Acres:

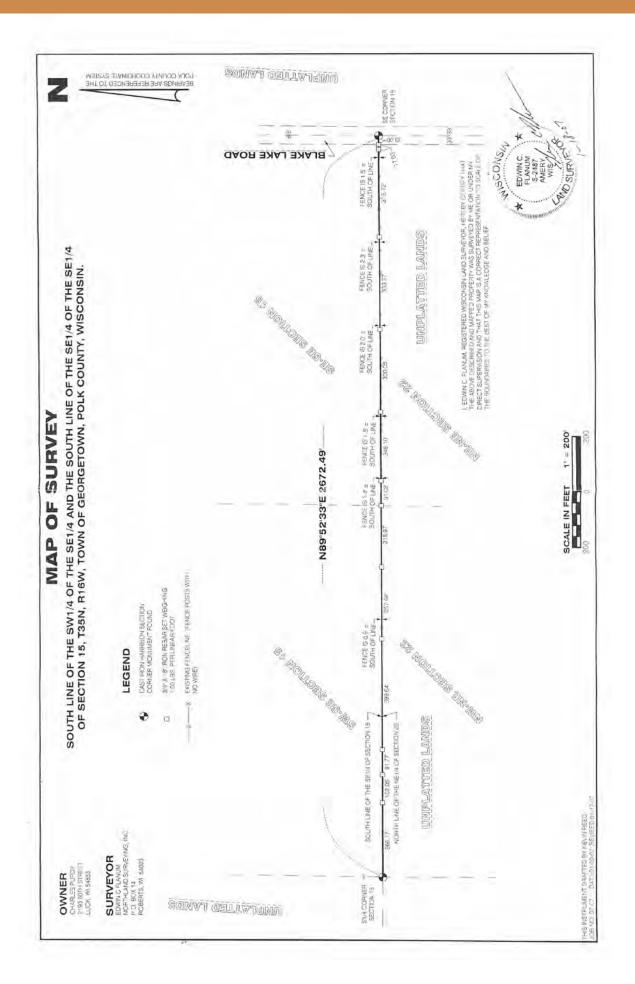
92.8

Owners: CHARLES E PURDY III Other Producers: GARY F JOHNSON

### **SURVEY**

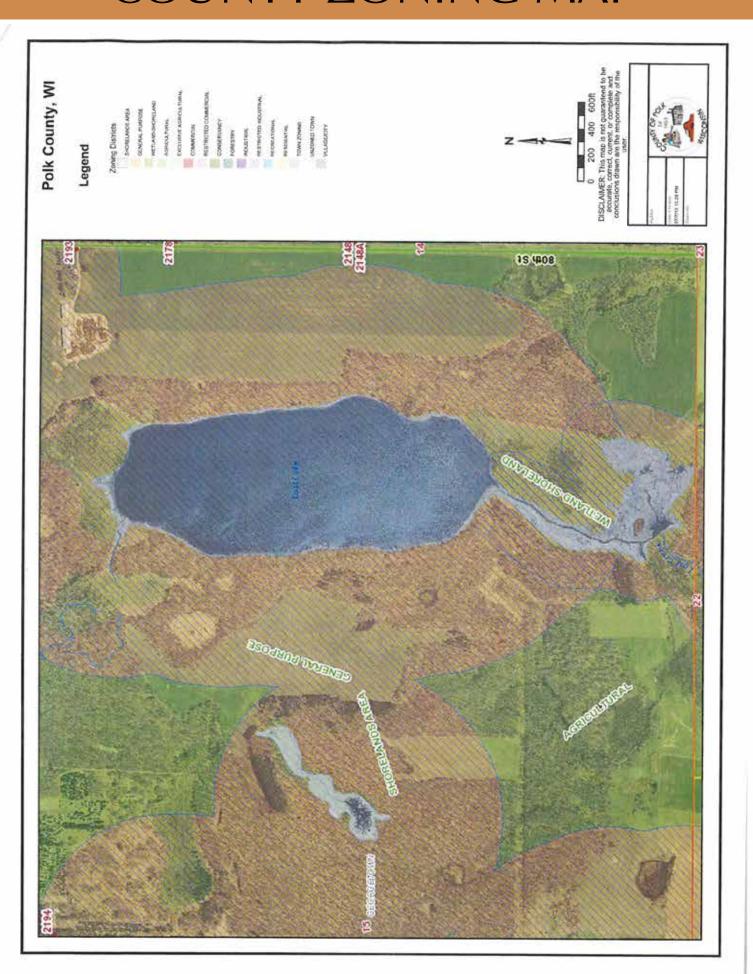


### **SURVEY**

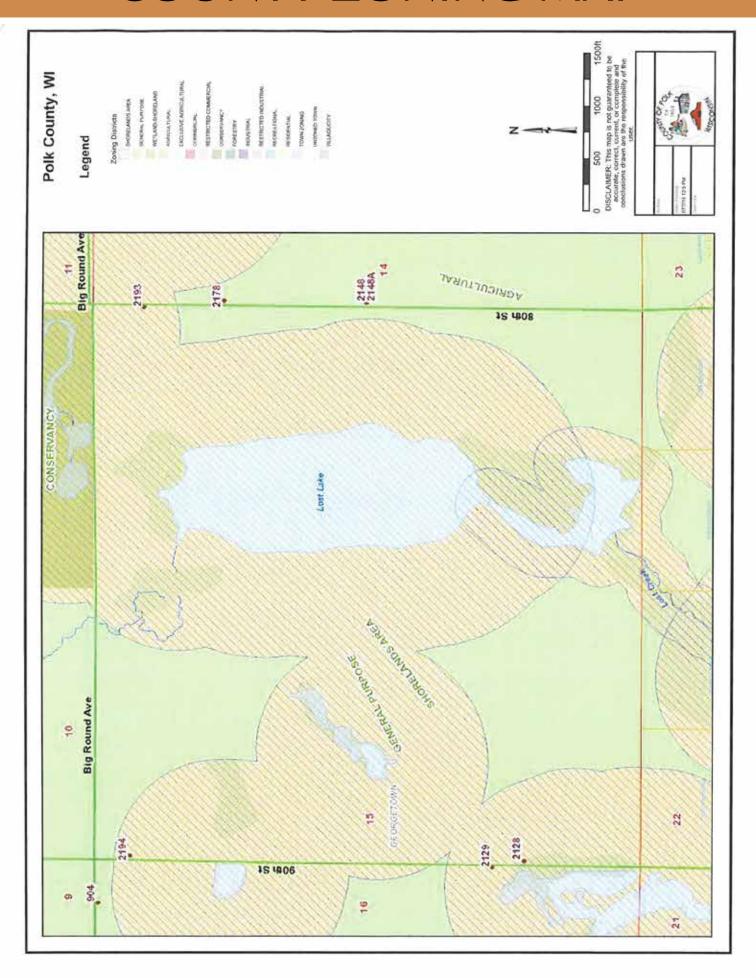




### COUNTY ZONING MAP



# COUNTY ZONING MAP



TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN

POLK COUNTY

Parcel Number: 026-00570-0000

Bill No: 50110

Full Payment of:

\$2,798.23

or First Installment of:

\$1,337.97

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows:

\$1,337.97 due by January 31, 2015 \$1,460.26 due by July 31, 2015

Property Address 2193 80TH ST

CHARLES E III PURDY

50110 026-00570-0000

2193 80TH ST LUCK WI 54853-2002

#### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Est. State Aids   Allocated Tax Dist.   STATE OF WISCONSIN   POLK COUNTY   139,474   145,803   1,014.47   1,001.84   -1.2   TOWN OF GEORGETOWN   102,105   105,812   184.62   201.10   8.9   WITC DISTRICT   25,602   23,037   232.62   66.09   -71.6   UNITY SCHOOL DIST   638,035   878,178   1,776.26   72.76   72.26   -0.7   TOTAL DUE FOR FULL PAY   TOTAL DUE FOR FULL PAY	Assessed Value Land 30,400	Ass'd Value Improv		d Value 1,300	Ave. Assmt. Ratio 1.120	1 5 5 6 5 5 5			ove Total Est. Fair Mkt. E ASSESSMENT	A star in this box means unpaid prior year taxes.
First Dollar Credit 72.76 72.26 -0.7 TOTAL DUE FOR FULL PAY	STATE OF WISE POLK COUNTY TOWN OF GEO WITC DISTRICT	, PRGETOWN T	Est. State Aids Allocated Tax Dist. 139,474 102,105 25,602	Est. S Allocate	tate Aids d Tax Dist. 45,803 05,812 23,037	31.51 1,014.47 184.62 232.62	30.97 1,001.84 201.10 66.09	-1.7 -1.2 8.9 -71.6	First Dollar Credit Lottery Credit Net Property Tax	2,992.78 -72.26 -122.29 2,798.23
Lottery and Gaming Credit 123.91 122.29 -1.3 PAY BY January 31, 2015  Net Property Tax 3,042.81 2,798.23 -8.0 \$2,798.23		4	First Dollar Credit Lottery and Gaming			72.76 123.91	72.26 122.29	-0.7 -1.3	PAY BY January 3	31, 2015

and may not be a full legal description. 15-35N-16W Acres: 40,000 FLP NE NE V601/342

000060 0005 - 1 / 13

.014649018

subject to interest and, if applicable, penalty. Failure to pay on time. See reverse side.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$1,337.97 Pay to Local Treasurer

By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER

2182 100TH ST **LUCK WI 54853** 

Bill # 50110

Parcel # 026-00570-0000

#### AND PAY 2ND INSTALLMENT OF:

\$1,460.26

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to: POLK COUNTY TREASURER

AMANDA NISSEN

100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50110

Parcel # 026-00570-0000

CHARLES E III PURDY Include This Stub With Your Payment

OR PAY FULL AMOUNT OF: \$2,798.23

> Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST

**LUCK WI 54853** Bill # 50110

Parcel # 026-00570-0000

CHARLES E III PURDY Include This Stub With Your Payment CHARLES E III PURDY

Include This Stub With Your Payment

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00571-0000

Bill No: 50111

Full Payment of: or First Installment of: \$885.62 \$444.68

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows: \$444.68 due by January 31, 2015 \$440.94 due by July 31, 2015

50111 026-00571-0000

CHARLES E III PURDY

2193 80TH ST

LUCK WI 54853-2002

Property Address

#### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impro 60,200 FOREST CRO	60	Value Ave. Assmt. Ratio ,200 1.120 1,400		800	Mkt. Impro	53,800	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction	2013 Est. State Aids Allocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax	Gross Property Tax First Dollar Credit Lottery Credit	881.88
STATE OF WISCONSIN POLK COUNTY	139,474	145,803	9.28 298.93	3 295.21	-1.2	Net Property Tax OTHER	881.88
TOWN OF GEORGETOWN WITC DISTRICT UNITY SCHOOL DIST	102,105 25,602 638,035	105,812 23,037 878,178	54.40 68.55 523.40	19.47	8.9 -71.6 -4.7	MFL CLOSED PRE 200	05 3.74
ONIT I GOTTO E BIOT	000,000	070,170	020.40	400.01	1.7		
Total	905,216 First Dollar Credit	1,152,830	954.56	881.88		TOTAL DUE FOR FU	JLL PAYMENT
	Lottery and Gaming Net Property Tax	Credit	954.56	881.88	-7.6	PAY BY January 31 \$885.6	
School taxes reduced by school levy tax credit \$ 99.05	property. This de	sure this description cover scription is for property tax a full legal description.	hill only	Net Assessed Vali (Does NOT reflect	credits)	Warning: If not paid by due option is lost and total tax is subject to interest and, if a	s delinquent and

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

000061 0005 - 2 / 13

15-35N-16W Acres: 40.000 FLP NW NE V601/342

.014649018

Failure to pay on time. See reverse side.

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$444.68

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST

**LUCK WI 54853** 

Bill # 50111

Parcel # 026-00571-0000

#### AND PAY 2ND INSTALLMENT OF:

\$440.94

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Pavable to: POLK COUNTY TREASURER AMANDA NISSEN

100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50111

Parcel # 026-00571-0000

#### OR PAY FULL AMOUNT OF:

\$885.62

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Pavable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

Bill # 50111

Parcel # 026-00571-0000

CHARLES E III PURDY

Include This Stub With Your Payment

CHARLES E III PURDY Include This Stub With Your Payment CHARLES E III PURDY

Include This Stub With Your Payment

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST LUCK WI 54853

#### STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00572-0000

Bill No: 50112

Full Payment of: or First Installment of: \$131.09 \$73.96

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows: \$73.96 due by January 31, 2015 \$57.13 due by July 31, 2015

Property Address

50112 026-00572-0000

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

#### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

7,800	Ass'd Value Improve	100	Value Ave. Assmt. Ratio 800 1,120 ,000	Fet. Fair Mkt. Land 7,000		Mkt. Impro	7,000	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction		2013 Est. State Aids llocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	114.26
POLK COUNTY TOWN OF GEOR		139,474 102,105	145,803 105,812	1.20 38.73 7.05	1.18 38.25 7.68	-1.7 -1.2 8.9	Net Property Tax OTHER	114.26
WITC DISTRICT	70000	25,602 638,035	23,037 878,178	8.88 67.82	2.52	-71.6 -4.7	MFL CLOSED PRE 2005	16.83
3,000	7777	333033	344445		0.5123			
	Total Fir	905,216	1,152,830	123.68	114.26		TOTAL DUE FOR FUL	
		ttery and Gaming ( t Property Tax	Credit	123.68	114.26	-7.6	PAY BY January 31, \$131.09	

School taxes reduced by school levy tax credit

\$ 12.83

IMPORTANT: Be sure this description covers your property. This description is for property tax bill only and may not be a full legal description 15-35N-16W Acres: 40.000

000062 0005 - 3 / 13

FLP.SW NE V601/342

Net Assessed Value Rate (Does NOT reflect credits) .014649018

Warning: If not paid by due date, installment option is lost and total tax is delinquent and subject to interest and, if applicable, penalty, Failure to pay on time. See reverse side.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$73.96

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST LUCK WI 54853

Bill # 50112

Parcel # 026-00572-0000

#### AND PAY 2ND INSTALLMENT OF:

\$57 13

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to: POLK COUNTY TREASURER AMANDA NISSEN 100 POLK COUNTY PZ, STE 150

BALSAM LAKE WI 54810

Bill # 50112

Parcel # 026-00572-0000

#### OR PAY FULL AMOUNT OF:

\$131.09

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST LUCK WI 54853

Bill # 50112

Parcel # 026-00572-0000

CHARLES E III PURDY Include This Stub With Your Payment CHARLES E III PURDY Include This Stub With Your Payment

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

#### STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00573-0000

Bill No: 50113

Full Payment of: or First Installment of: \$105.38 \$105.38

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows: \$105.38 due by January 31, 2015

50113 026-00573-0000

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

Property Address

#### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impre6,300 FOREST CR0	6	Ave. Assmt. Ratio 5,300 1.120 1,000	100000000000000000000000000000000000000	EVERSE, USE		ove Total Est. Fair Mkt.  E ASSESSMENT  OP	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction STATE OF WISCONSIN	2013 Est. State Aids Allocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax 7 0.96	% Tax Change -1.0	Gross Property Tax First Dollar Credit Lottery Credit	92.29 - -
POLK COUNTY TOWN OF GEORGETOWN WITC DISTRICT	139,474 102,105 25,602	145,803 105,812 23,037	31.28 5.69 7.17	30.89 6.20		OTHER MFL CLOSED PRE 20	92.29 005 13.09
UNITY SCHOOL DIST	638,035	878,178	54.77		-4.7		
Total	905,216	1,152,830	99.88	92.29	-7.6	TOTAL DUE FOR F	ULL PAYMENT
11	First Dollar Credit Lottery and Gaming Net Property Tax	g Credit	99.88	3 92.29	-7.6	PAY BY January 3	1, 2015
School taxes reduced by school levy tax credit \$ 10.37	property. This de	e sure this description cover escription is for property tax a full legal description.		Net Assessed Valu (Does NOT reflect	credits)	Warning: If not paid by do option is lost and total tax subject to interest and, if a	is delinquent and

SEE REVERSE SIDE FOR

15-35N-16W Acres: 40.000

FLP SE NE V601/342

000063 0005 - 4 / 13

Failure to pay on time. See reverse side.

IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$105.38

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** Bill # 50113

Parcel # 026-00573-0000

CHARLES E III PURDY Include This Stub With Your Payment

#### AND PAY 2ND INSTALLMENT OF:

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to: POLK COUNTY TREASURER AMANDA NISSEN 100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50113

Parcel # 026-00573-0000

CHARLES E III PURDY Include This Stub With Your Payment

#### OR PAY FULL AMOUNT OF:

\$105.38

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Pavable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST LUCK WI 54853

Bill # 50113

Parcel # 026-00573-0000

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

#### STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00574-0000

Bill No: 50114

Full Payment of: \$533.23 or First Installment of: \$266.62 Due on or Before: January 31, 2015 Make Check Payable to: TOWN OF GEORGETOWN

> Installments may be paid as follows: \$266.62 due by January 31, 2015 \$266.61 due by July 31, 2015

50114 026-00574-0000

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

000064 0005 - 5 / 13

Property Address

#### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impr		Ave. Assmt. Ratio 3,400 1.120				ove Total Est. Fair Mkt.  E ASSESSMENT	A star in this box means unpaid prior year taxes.
	2013 Est. State Aids	2014 Est. State Aids	2013 Net Tax	2014 Net Tax	% Tax	Gross Property Tax First Dollar Credit	533.23
Taxing Jurisdiction	Allocated Tax Dist.	Allocated Tax Dist.	TACE TOX	TVCL TOX	Change	Lottery Credit	
STATE OF WISCONSIN			5.6	5.52			500.00
POLK COUNTY	139,474	145,803	180.75			Net Property Tax	533.23
TOWN OF GEORGETOWN	102,105	105.812	32.89	35.83			
WITC DISTRICT	25,602	23,037	41.45	11.78	-71.6		
UNITY SCHOOL DIST	638,035	878,178	316.47	301.60	-4.7		
Total	905,216	1,152,830	577.17	7 533.23	-7.6		
10331	First Dollar Credit	1,102,000	0,,,,,	000.20	, .0	TOTAL DUE FOR F	<b>ULL PAYMENT</b>
	Lottery and Gaming	Credit				PAY BY January 3	1, 2015
	Net Property Tax		577.17	533.23	-7.6		
School taxes reduced by school levy tax credit \$59.89	property. This de	sure this description cover escription is for property tax a full legal description. res: 40.000		Net Assessed Valu (Does NOT reflect .014649	credits)	Warning: If not paid by d option is lost and total tax subject to interest and, if Failure to pay on time.	is delinquent and applicable, penalty.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION FLP NE NW V601/342

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$266.62

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Pavable to: TOWN OF GEORGETOWN JUDITH MAIER

2182 100TH ST **LUCK WI 54853** Bill # 50114

Parcel # 026-00574-0000

CHARLES E III PURDY Include This Stub With Your Payment

#### AND PAY 2ND INSTALLMENT OF:

\$266.61

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Pavable to: POLK COUNTY TREASURER AMANDA NISSEN 100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50114

Parcel # 026-00574-0000

CHARLES E III PURDY Include This Stub With Your Payment

#### OR PAY FULL AMOUNT OF:

\$533.23

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Pavable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST **LUCK WI 54853** Bill # 50114

Parcel # 026-00574-0000

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST LUCK WI 54853

STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00576-0000

Bill No: 50116

Full Payment of: or First Installment of: \$403.98 \$211,34

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows:

\$211.34 due by January 31, 2015 \$192.64 due by July 31, 2015

Property Address

50116 026-00576-0000 CHARLES E III PURDY

2193 80TH ST LUCK WI 54853-2002

#### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

000065 0005 - 6 / 13

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impro 26,300 FOREST CRO	26,3		100000000	EVERSE, USE		ove Total Est. Fair Mkt.  E ASSESSMENT  OP	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction		2014 Est. State Alds Illocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	385.28
POLK COUNTY	139,474	145,803	130.60	128.97	-1.2	OTHER	385.28
TOWN OF GEORGETOWN WITC DISTRICT UNITY SCHOOL DIST	102,105 25,602 638,035	105,812 23,037 878,178	23.77 29.95 228.66	8.51	-71.6	MLL CLOSED LVE SI	005 18.70
Total	905,216	1,152,830	417.04	4 385.28	-7.6	TOTAL DUE FOR F	ULL PAYMENT
	Lottery and Gaming C Net Property Tax	redit	417.04	4 385.28	-7.6	PAY BY January 3	1, 2015
School taxes reduced by school levy tax credit \$ 43.27	property This desc	ure this description cover cription is for property tax ull legal description s: 40 000		Net Assessed Value (Does NOT reflect .014649	credits)	Warning: If not paid by do option is lost and total tax subject to interest and, if Failure to pay on time.	is delinquent and applicable, penalty.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$211.34

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to:

TOWN OF GEORGETOWN JUDITH MAIER

2182 100TH ST

LUCK WI 54853

Bill # 50116

Parcel # 026-00576-0000

#### AND PAY 2ND INSTALLMENT OF:

\$192.64

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$\_

Make Check Payable to:

POLK COUNTY TREASURER

AMANDA NISSEN

100 POLK COUNTY PZ, STE 150

BALSAM LAKE WI 54810

Bill # 50116

FLP SW NW V601/342

Parcel # 026-00576-0000

#### OR PAY FULL AMOUNT OF:

\$403.98

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST LUCK WI 54853

Bill # 50116

Parcel # 026-00576-0000

CHARLES E III PURDY Include This Stub With Your Payment CHARLES E III PURDY Include This Stub With Your Payment

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

#### STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00577-0000

Bill No: 50117

Full Payment of: or First Installment of: \$336.94 \$168.47

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

50117 026-00577-0000

000066 0005 - 7 / 13

Installments may be paid as follows: \$168.47 due by January 31, 2015 \$168.47 due by July 31, 2015

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

Property Address

TOWN	OF	GEO	RGF	TOWN

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impre 23,000		Value Ave. Assmt. Ratio ,000 1.120	Land, Colonia			ove Total Est. Fair Mkt.  E ASSESSMENT	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction	2013 Est. State Aids Allocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	336.94 - -
STATE OF WISCONSIN			3.55			Net Property Tax	336.94
POLK COUNTY	139,474	145,803	114.21	112.79	-1.2	Carried Section 1	000.01
TOWN OF GEORGETOWN	102,105	105,812	20.78	3 22.64	9.0		
WITC DISTRICT	25,602	23,037	26.19	7.44	-71.6		
UNITY SCHOOL DIST	638,035	878,178	199.97	190.58	-4.7		
Total	905,216	1,152,830	364.70	336.94	-7.6		
	First Dollar Credit	7 6 99 70 60 70			1. 4. 2.	TOTAL DUE FOR F	<b>ULL PAYMENT</b>
	Lottery and Gaming	Credit				PAY BY January 3	1, 2015
	Net Property Tax	21327	364.70	336.94	-7.6	\$336.	
School taxes reduced by school levy tax credit \$ 37.84	property. This de	sure this description cover scription is for property tax a full legal description.		Net Assessed Value (Does NOT reflect	credits)	Warning: If not paid by d option is lost and total tax subject to interest and, if	k is delinquent and

SEE REVERSE SIDE FOR

15-35N-16W Acres: 40.000 FLP SE NW V601/342

.014649018

Failure to pay on time. See reverse side.

IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$168.47

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER

2182 100TH ST **LUCK WI 54853** 

Bill # 50117

Parcel # 026-00577-0000

#### AND PAY 2ND INSTALLMENT OF:

\$168.47

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to: POLK COUNTY TREASURER AMANDA NISSEN

100 POLK COUNTY PZ. STE 150 BALSAM LAKE WI 54810

Bill # 50117

Parcel # 026-00577-0000

#### OR PAY FULL AMOUNT OF:

\$336.94

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER

2182 100TH ST **LUCK WI 54853** 

Bill # 50117

Parcel # 026-00577-0000

CHARLES E III PURDY Include This Stub With Your Payment CHARLES E III PURDY Include This Stub With Your Payment CHARLES E III PURDY

Include This Stub With Your Payment

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST LUCK WI 54853

STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00578-0000

Bill No: 50118

**Full Payment of:** or First Installment of: \$448.26 \$224.13

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows: \$224.13 due by January 31, 2015 \$224.13 due by July 31, 2015

50118 026-00578-0000

000067 0005 - 8 / 13

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

Property Address

TOWN	OF	GEORGETOW	N
1 CAALA	$\sim$	OLONOLION	

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impr	ove Total Assessed Val					ove Total Est. Fair Mkt. E ASSESSMENT	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction		2014 st. State Aids ocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	448.26
STATE OF WISCONSIN POLK COUNTY	139,474	145.803	4.72 151.95			Net Property Tax	448.26
TOWN OF GEORGETOWN WITC DISTRICT	102,105 25,602	105,812 23,037	27.65 34.84		8.9		
UNITY SCHOOL DIST	638,035	878,178	266.05		-4.7		
Total	905,216	1,152,830	485.21	1 448.26	-7.6		THE DAYMENT
	First Dollar Credit Lottery and Gaming Cre Net Property Tax	dit	485.21	1 448.26	-7.6	PAY BY January 3	31, 2015
School taxes reduced by school levy tax credit \$ 50.35				Net Assessed Valu (Does NOT reflect .014649	credits)	Warning: If not paid by o option is lost and total ta subject to interest and, if Failure to pay on time.	x is delinquent and applicable, penalty.

SEE REVERSE SIDE FOR

FLP NE SW V601/342

IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$224.13

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to:

TOWN OF GEORGETOWN

JUDITH MAIER

2182 100TH ST

**LUCK WI 54853** 

Bill # 50118

Parcel # 026-00578-0000

#### AND PAY 2ND INSTALLMENT OF:

\$224.13

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to:

POLK COUNTY TREASURER

AMANDA NISSEN

100 POLK COUNTY PZ, STE 150

BALSAM LAKE WI 54810

Bill # 50118

Parcel # 026-00578-0000

#### OR PAY FULL AMOUNT OF:

\$448.26

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST

LUCK WI 54853 Bill # 50118

Parcel # 026-00578-0000

CHARLES E III PURDY

Include This Stub With Your Payment

CHARLES E III PURDY

Include This Stub With Your Payment

CHARLES E III PURDY

Include This Stub With Your Payment

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

#### STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN

**POLK COUNTY** 

Parcel Number: 026-00579-0000

Bill No: 50119

Full Payment of: or First Installment of:

\$75.04

\$75.04

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows: \$75.04 due by January 31, 2015

50119 026-00579-0000

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

Property Address

#### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

000068 0005 - 9 / 13

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land 400	Ass'd Value Improv		400 Ave. Assmt. Ration 1.120 0,700		EVERSE, USE		E ASSESSMENT	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction		2013 Est. State Aids Allocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	5.85 - -
POLK COUNTY		139,474	145,803	1.9	9 1.96	-1.5	OTHER	5.85
TOWN OF GEO WITC DISTRICT UNITY SCHOOL		102,105 25,602 638,035	105,812 23,037 878,178	0.30 0.40 3.40	6 0.13	-71.7	MFL CLOSED FRE 200	05 69.19
		200						
		905,216 first Dollar Credit ottery and Gaming	1,152,830	6.3	5 5.85	-7.9	TOTAL DUE FOR FU PAY BY January 31	
		let Property Tax		6.3	5.85	-7.9		
School taxes reduced school levy tax credit	* (1) hh	property. This de	e sure this description coverscription is for property ta a full legal description. cres: 40.000		Net Assessed Val (Does NOT reflection .014649	t credits)	Warning: If not paid by due option is lost and total tax i subject to interest and, if a Failure to pay on time. S	s delinquent and pplicable, penalty.

SEE REVERSE SIDE FOR

IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$75.04

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to:

TOWN OF GEORGETOWN

JUDITH MAIER

2182 100TH ST

**LUCK WI 54853** 

Bill # 50119

Parcel # 026-00579-0000

#### AND PAY 2ND INSTALLMENT OF:

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to:

POLK COUNTY TREASURER AMANDA NISSEN

100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50119

FI P NW SW V601/342

Parcel # 026-00579-0000

CHARLES E III PURDY Include This Stub With Your Payment

#### OR PAY FULL AMOUNT OF:

\$75.04

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER

2182 100TH ST **LUCK WI 54853** 

Bill # 50119

Parcel # 026-00579-0000

CHARLES E III PURDY

Include This Stub With Your Payment

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

#### STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN

POLK COUNTY

Parcel Number: 026-00582-0000

Bill No: 50123

Full Payment of: \$187.41 or First Installment of: \$100.25 Due on or Before: January 31, 2015 TOWN OF GEORGETOWN Make Check Payable to:

Installments may be paid as follows: \$100.25 due by January 31, 2015 \$87.16 due by July 31, 2015

50123 026-00582-0000

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

000069 0005 - 10 / 13

Property Address

TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land 11,900	Ass'd Value Improv	11	d Value   Ave. Assmt. Ratio 1,900   1.120 7,700	hard and the second	EVERSE, USE		ove Total Est. Fair Mkt.  E ASSESSMENT  DP	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction		2013 Est. State Aids Allocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	174.32
POLK COUNTY	1 7 7 7	139,474	145,803	1.84 59.09	58.36			174.32
TOWN OF GEO WITC DISTRICT	Γ	102,105 25,602	105,812 23,037	10.75 13.55	3.85	-71.6	MFL CLOSED PRE 200	05 13.09
UNITY SCHOOL	L DIST	638,035	878,178	103.46	98.60	-4.7		
	Total	905,216	1,152,830	188.69	174.32	-7.6	TOTAL DUE FOR FU	JLL PAYMENT
		Lottery and Gaming Net Property Tax	g Credit	188.69	174.32	-7.6	PAY BY January 31 \$187.4	
School taxes reduced school levy tax credit	\$ 1958	property. This de	e sure this description cove escription is for property ta a full legal description. cres: 40 000	whill ank	Net Assessed Valu (Does NOT reflect .014649	credits)	Warning: If not paid by du option is lost and total tax subject to interest and, if a	is delinquent and pplicable, penalty.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

NE SE V601/342

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$100.25

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to:

TOWN OF GEORGETOWN

JUDITH MAIER

2182 100TH ST

LUCK WI 54853

Bill # 50123

Parcel # 026-00582-0000

CHARLES E III PURDY Include This Stub With Your Payment

#### AND PAY 2ND INSTALLMENT OF:

\$87.16

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to:

POLK COUNTY TREASURER AMANDA NISSEN

100 POLK COUNTY PZ. STE 150 BALSAM LAKE WI 54810

Bill # 50123

Parcel # 026-00582-0000

CHARLES E III PURDY Include This Stub With Your Payment

#### OR PAY FULL AMOUNT OF:

\$187.41

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST

LUCK WI 54853 Bill # 50123

Parcel # 026-00582-0000

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

#### STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00583-0000

Bill No: 50124

Full Payment of: or First Installment of: Due on or Before:

\$127.03 January 31, 2015

\$239.10

A star in this box

224.14

224.14

14 96

means unpaid prior year taxes.

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows: \$127.03 due by January 31, 2015 \$112.07 due by July 31, 2015

50124 026-00583-0000

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002

Property Address

TOWN OF GEORGETOWN

STATE OF WISCONSIN

2014 REAL ESTATE PROPERTY TAX

Assessed Value Land 15,300	Ass'd Value Improve	Total Assessed Value 15,300		Ave. Assmt. Ratio 1.120	Est. Fair Mkt. Land	Est. Fair Mkt. Impro		ove Total Est. Fair Mkt. A
	FOREST CROP	2	3,900			FORE	ST CRO	P 21,300
Taxing Jurisdiction STATE OF WISCONSIN		2013 Est. State Aids Allocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.		2013 Net Tax 2.36		% Tax Change -1.7	
POLK COUNTY TOWN OF GEORGETOWN WITC DISTRICT UNITY SCHOOL DIST	RGETOWN	139,474 102,105 25,602 638,035		145,803 105,812 23,037 878,178	75.97 13.83 17.42 133.03	75.03 15.06 4.95 126.78	-1.7 -1.2 8.9 -71.6 -4.7	Net Property Tax OTHER MFL CLOSED PRE 2005
		905,216 irst Dollar Credit		,152,830	242.61	224.14		TOTAL DUE FOR FUI
Lottery and Gaming Credit Net Property Tax					242.61	224.14	-7.6	PAY BY January 31, \$239.10

000070 0005 - 11 / 13

TOTAL DUE FOR FULL PAYMENT

PAY BY January 31, 2015 \$239.10

School taxes reduced by school levy tax credit

\$ 25.17

IMPORTANT: Be sure this description covers your property. This description is for property tax bill only and may not be a full legal description. 15-35N-16W Acres: 40.000

FLP NW SE V601/342

Net Assessed Value Rate (Does NOT reflect credits) .014649018

Warning: If not paid by due date, installment option is lost and total tax is delinquent and subject to interest and, if applicable, penalty Failure to pay on time. See reverse side.

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Please provide SASE if you would like receipt

PAY 1ST INSTALLMENT OF:

\$127.03

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER

2182 100TH ST **LUCK WI 54853** Bill # 50124

Parcel # 026-00583-0000

AND PAY 2ND INSTALLMENT OF:

\$112.07

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to: POLK COUNTY TREASURER AMANDA NISSEN

100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50124

Parcel # 026-00583-0000

OR PAY FULL AMOUNT OF:

\$239.10

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST LUCK WI 54853

Bill # 50124

Parcel # 026-00583-0000

CHARLES E III PURDY Include This Stub With Your Payment CHARLES E III PURDY Include This Stub With Your Payment

## COUNTY REAL ESTATE TAXES

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

STATE OF WISCONSIN 2014 REAL ESTATE PROPERTY TAX TOWN OF GEORGETOWN **POLK COUNTY** 

Parcel Number: 026-00584-0000

Bill No: 50125

Full Payment of: or First Installment of: \$399.91 \$199.96

Due on or Before:

January 31, 2015

Make Check Payable to:

TOWN OF GEORGETOWN

Installments may be paid as follows: \$199.96 due by January 31, 2015 \$199.95 due by July 31, 2015

Property Address

50125 026-00584-0000

CHARLES E III PURDY

2193 80TH ST LUCK WI 54853-2002

### TOWN OF GEORGETOWN

#### STATE OF WISCONSIN

### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impre 27,300		Value Ave. Assmt. Ratio 300 1.120	0.00	Mkt. Land Est. Fair 400	Mkt. Impro	ove Total Est. Fair Mkt. 24,400	A star in this box means unpaid prior year taxes.
Taxing Jurisdiction	2013 Est. State Aids Allocated Tax Dist.	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	399.91 -
STATE OF WISCONSIN POLK COUNTY TOWN OF GEORGETOWN WITC DISTRICT UNITY SCHOOL DIST	139,474 102,105 25,602 638,035	145,803 105,812 23,037 878,178	4.21 135.56 24.67 31.08 237.35	133.87 26.87 8.83	-1.7 -1.2 8.9 -71.6 -4.7	Net Property Tax	399.91
Total	905,216 First Dollar Credit Lottery and Gaming Net Property Tax	1,152,830 Credit	432.87 432.87			TOTAL DUE FOR F PAY BY January 3 \$399.	1, 2015
School taxes reduced by school levy tax credit \$ 44.92	property. This des	sure this description cover- cription is for property tax full legal description.	hill only	Net Assessed Valu (Does NOT reflect	credits)	Warning: If not paid by d option is lost and total tax subject to interest and, if	ue date, installment

SEE REVERSE SIDE FOR

IMPORTANT INFORMATION

15-35N-16W Acres: 40.000

000071 0005 - 12 / 13

FLP SW SE V601/342

.014649018

Failure to pay on time. See reverse side.

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$199.96

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST **LUCK WI 54853** 

Bill # 50125

Parcel # 026-00584-0000

CHARLES E III PURDY Include This Stub With Your Payment

### AND PAY 2ND INSTALLMENT OF:

\$199.95

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

Make Check Payable to: POLK COUNTY TREASURER AMANDA NISSEN

100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50125

Parcel # 026-00584-0000

CHARLES E III PURDY

Include This Stub With Your Payment

### OR PAY FULL AMOUNT OF:

\$399.91

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN

JUDITH MAIER 2182 100TH ST LUCK WI 54853

Bill # 50125

Parcel # 026-00584-0000

CHARLES E III PURDY Include This Stub With Your Payment

## COUNTY REAL ESTATE TAXES

TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST LUCK WI 54853 STATE OF WISCONSIN

2014 REAL ESTATE PROPERTY TAX

TOWN OF GEORGETOWN

TOWN OF GEORGETOWN POLK COUNTY

Parcel Number: 026-00585-0000

Bill No: 50126

Full Payment of: \$262.22
or First Installment of: \$131.11
Due on or Before: January 31, 2015
Make Check Payable to: TOWN OF GEORGETOWN

Installments may be paid as follows: \$131.11 due by January 31, 2015 \$131.11 due by July 31, 2015

50126 026-00585-0000

CHARLES E III PURDY 2193 80TH ST LUCK WI 54853-2002 000072 0005 - 13 / 13

Property Address

TOWN OF GEORGETOWN

### STATE OF WISCONSIN

#### 2014 REAL ESTATE PROPERTY TAX

Assessed Value Land Ass'd Value Impro	ve Total Assessed \					ove Total Est, Fair Mkt.  E ASSESSMENT	A star in this box means unpaid prior year taxes.	
Taxing Jurisdiction	2013 Est. State Aids Allocated Tax Dist. A	2014 Est. State Aids Allocated Tax Dist.	2013 Net Tax	2014 Net Tax	% Tax Change	Gross Property Tax First Dollar Credit Lottery Credit	262.22	
STATE OF WISCONSIN			2.76	2.71	-1.8	Net Property Tax	262.22	
POLK COUNTY	139,474	145,803	88.88	87.78	-1.2	harriopony ran	202.22	
TOWN OF GEORGETOWN	102,105	105,812	16.18	17.62	8.9			
WITC DISTRICT	25,602	23,037	20.38	5.79	-71.6			
UNITY SCHOOL DIST	638,035	878,178	155.63	148.32	-4.7			
Total	905,216	1,152,830	283.83	3 262.22	-7.6			
	First Dollar Credit					TOTAL DUE FOR F	ULL PAYMENT	
	Lottery and Gaming Credit Net Property Tax		283.83	3 262.22	-7.6	PAY BY January 31, 2015 <b>\$262.22</b>		
School taxes reduced by school levy tax credit \$29.45	property. This desc	sure this description cover cription is for property tax full legal description.	hill only	Net Assessed Valu (Does NOT reflect .014649	credits)	Warning: If not paid by due date, installme option is lost and total tax is delinquent and subject to interest and, if applicable, penal Failure to pay on time. See reverse side		

SEE REVERSE SIDE FOR IMPORTANT INFORMATION

Please provide SASE if you would like receipt

#### PAY 1ST INSTALLMENT OF:

\$131.11

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST LUCK WI 54853 Bill # 50126

Parcel # 026-00585-0000

CHARLES E III PURDY
Include This Stub With Your Payment

#### AND PAY 2ND INSTALLMENT OF:

\$131.11

Pay to CountyTreasurer By July 31, 2015

Amount Enclosed: \$

FLP SE SE V601/342

Make Check Payable to: POLK COUNTY TREASURER AMANDA NISSEN 100 POLK COUNTY PZ, STE 150 BALSAM LAKE WI 54810

Bill # 50126

Parcel # 026-00585-0000

CHARLES E III PURDY
Include This Stub With Your Payment

## OR PAY FULL AMOUNT OF:

\$262.22

Pay to Local Treasurer By January 31, 2015

Amount Enclosed: \$

Make Check Payable to: TOWN OF GEORGETOWN JUDITH MAIER 2182 100TH ST LUCK WI 54853

Bill # 50126

Parcel # 026-00585-0000

CHARLES E III PURDY
Include This Stub With Your Payment



## FARMLAND PRESERVATION AGREEMENT

WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION AGRICULTURAL RESOURCE MANAGEMENT DIVISION 2811 Agriculture Drive, PO Box 8911 Madison, WI 53708

#### FARMLAND PRESERVATION AGREEMENT

Agreement No. 16006 Date	of filing application February 11,2008
80% CREDIT LEVEL First eligible tax year	Effective Expiration 2008 Date 3/16/09 Date 3/16/19
Parcel No.(s) Sec. 15: NENI	E(026-00570-0000/40A);
NWNE(026-00571-0000/40A);	SWNE (026-00572-0000/40A);
SENE (026-00573-0000/40A);	NENW (026-00574-0000/40A);
SWNW (026-00576-0000/40A):	SENW(026-00577-0000/40A);
NESW(026-00578-0000/40A);	NWSW(026-00579-0000/40A);
NESE(026-00582-0000/40A);	NWSE(026-00583-0000/40A);
SWSE (026-00584-0000/40A);	(Parcel Numbers Continued Below)

	THIS FARMLAND	PRESERVATION	AGREEMENT	IS N	MADE,	EXECUTED	AND	TAKES	EFFECT	ON	THIS	16	day
of	March	A.D.,	2009	by i	and b	oetween _	Char	les E.	Purdy	111	-		

hereinafter referred to as the "Owner" and the Department of Agriculture, Trade and Consumer Protection hereinafter referred to as the "Department" for and on behalf of the State of Wisconsin.

WHEREAS, the Owner owns real property in the County of Polk, State of Wisconsin, hereinafter referred to as the "Subject Property", which is described as follows:

Parcel Numbers Continued: SESE(026-00585-0000/40A); Sec. 23: NWNW(026-00966-0000/40A); SWNW (026-00968-0000/20A);

The Northeast Quarter of the Northeast Quarter and The Northwest Quarter of the Northeast Quarter and The Southeast Quarter of the Northeast Quarter and The Northeast Quarter of the Northwest Quarter and The Southwest Quarter of the Northeast Quarter and The Southeast Quarter of the Southeast Quarter and The Southwest Quarter of the Southeast Quarter and The Northwest Quarter of the Southeast Quarter and The Northeast Quarter of the Southeast Quarter and The Northwest Quarter of the Southwest Quarter and The Northeast Quarter of the Southwest Quarter and The Southeast Quarter of the Northwest Quarter and The Southwest Quarter of the Northwest Quarter, all in Section 15, Township 35 North, Range 16 West; AND

### (Continued on Exhibit "A")

WHEREAS, the State of Wisconsin desires to preserve agricultural land, to maintain the agricultural economy, to assure a supply of food and fiber, to discourage the premature and unnecessary conversion of agricultural land to other uses; and to accomplish that, greated Wisconsin's Farmland Preservation Law; and

WHEREAS, all the conditions required under Wisconsin's Farmland Preservation Law to enter into this Agreement

have been satisfied; and WHEREAS, both the Owner and the State of Wisconsin intend that the terms, conditions and restrictions of this Agreement be consistent with those agreements authorized by Wisconsin's Farmland Preservation Law (ss. 71.57 to 71.61 91.01 to 91.80, Wis. Stats.), as that law exists on the date this Agreement is executed.

NOW, THEREFORE, the parties, in consideration of the benefits to each of them accruing by virtue hereof. AGREE

that:

- 1 The term "agricultural use" when used in this Agreement shall have the same meaning as in s. 91.01(1), Wis Stats
- 2. This Agreement is made and entered into pursuant to the provisions of Wisconsin's Farmland Preservation Law (ss. 71.57 to 71.61 and ss. 91.01 to 91.80, Wis. Stats.); and all of the provisions of said law as they exist on the date this Agreement is executed are incorporated herein by reference and made a part of this Agreement.

The Subject Property shall be devoted to agricultural uses. If the use of the Subject Property is changed

other than an agricultural use without first acting under ss. 91.17 and 91.19, Wis. Stats, the Owner or successor in title can be enjoined from changing the use and is subject to civil penalty under s. 91.21, Wis. Stats.

4. Except as provided under s. 91.75(2), Wis. Stats., no structure may be built on the Subject Property except for use consistent with agricultural use or with the approval of the local governing body having jurisdiction and the Department. The phrase "local governing body having jurisdiction" shall have the same meaning as in s. 91.01(8), Wis. Stats. Under this agreement, the minimum parcel size to establish a residence is 35 acres. The only exceptions are when the residence is for immediate family members, which is defined as mother, father, son or daughter of the owner, and for persons or families with at least one adult that earns a majority of their income from conducting the farm operation. A structure made as an incident to a scenic, access or utility easement or license or lease for oil and natural gas exploration and extraction is deemed consistent with agricultural use.

5. Land improvements on the Subject Property shall not be made except for use consistent with agricultura use or with the approval of the local governing body having jurisdiction and the Department. The phrase "local governing body having jurisdiction" shall have the same meaning as in s. 91.01(8), Wis. Stats. A land improvement made as an incident to a scenic, access or utility easement or license or lease for oil and natural gas exploration and extraction is deemed consistent with agricultural use.  6. Public access to the Subject Property shall not be required for the owner to enter into this Agreement and receive tax credits.
7. The following further conditions and restrictions are deemed necessary to preserve the Subject Property or appropriate portions of it for agricultural use:
8. Farming operations on the Subject Property shall be conducted in tompliance with reasonable soil and water conservation attandance enablished under s. 92.105, Wis Stats.  1 Interest of the Subject Property is the State of the Subject Property of the Subject Property in the Contract while the terms of this agreement are in effect to a transferse who has not signed this Agreement. It is specifically agreed that if such transfer of the Subject Property is deed or land contract takes place, the transferor shall notify the Department. It is specifically agreed that if such transfer of the Subject Property is deed or land contract takes place, the transferor shall feel after the closing a transfer worksheet drafted by the Department which transfers all the terms, covenants, conditions, and restrictions under Wisconsin's Farmland Department with cransfers and the transfers of the Subject Property and the Subject Property and Several Agreement and the Farmland Preservation Law until such time as the Agreement expires or the terms of the Agreement and the Farmland Preservation Law until such time as the Agreement expires or the terms of the Agreement and the transfers may be voided by the Department, if it is necessary, for the enforcement of any of the terms coverants, conditions or restrictions in this Agreement. A transfer worksheet can be obtained from the County Law Conservation and the transfers may be voided by the Department, if it is necessary, for the enforcement of any of the terms, coverants, conditions or restrictions in this Agreement. A transfer worksheet can be obtained from the County Law Conservation and the transfers may be recorded by the Department of the State of Water Property is being purchased by land contract, the land contract vendor shall sign this Agreement and shall thereby agree to all of the terms, conditions and restrictions of this agreement. The Agreement shall expire to the March of the State of Water of the State of
SIGNATURE OF LAND CONTRACT SELLER(S) (IF ANY)  SIGNATURE OF DWNER(S)  (SEAL)
ISEAL) (SEAL)

(SEAL)

(SEAL)

(SEAL)

STATE OF WISCONSIN
DEPARTMENT OF AGRICULTURE,
TRADE AND CONSIMER PROTECTION

Keith W. Foye, Section Chief
Farmland Preservation Program

SEAL

SIGNATURES TO BE ACK	NOWLEDGED BY NOTARY	PUBLIC:			
	)ss. y ) ame before me, this _	16th day of	March 200	1	the above named
Charles E. Plant TO ME KNOWN T	NO THE HEAD DUAL A	ited the foregoin	Notary Public, Wisconsin My Commission (Exp	Polk pires) (Is) Feb 5	V Peterson County
			g instrument and acknow		, the above named
			Notary Public. Wisconsin My Commission (Exp.		County
STATE OF WISCONSIN	DEPART	MENT ACKNOWLEDGM	ENT (Official Use Only)		
	199.				
This instrume the Department of Agr	nt was acknowledged iculture, Trade and	before me on H. Consumer Protecti	Sandra V. Weisense. Notary Public, Dane	esersil	10.0
			My Commission Expir	colotober 3,	2010
This instrument was drafted of Agriculture, Trade & Con ARM LR 42 (Rev 9/00	by the Misconsin Departmen summer Protection	nt.		40.796.708	

Farmland Preservation Agreement No.  $\underline{16006}$  Purdy III Charles E. Page  $\underline{1}$  of  $\underline{1}$ 

#### Exhibit "A"

The Northwest Quarter of the Northwest Quarter of Section 23, Township 35 North, Range 16 West and also the adjoining described parcel' Beginning at the Southwest corner of the above described 40 acres, running thence South on Highway a distance of 738.5 feet; thence East parallel to and 738.5 feet from the South boundary of said Northwest Quarter of the Northwest Quarter a distance of 724.0 feet; thence North a distance of 179.0 feet; thence East parallel to and 559.5 feet from the South boundary of said Northwest Quarter of the Northwest Quarter to a North-South boundary fence thereon; thence along boundary fence a distance of 559.5 feet to the Southeast corner of the Northwest Quarter of the Northwest Quarter; thence West along the South boundary of the Northwest Quarter of the Northwest Quarter to point of beginning, all in Section 23, Township 35 North, Range 16 West, making a total of 60 acres more or less, all in Polk County, Wisconsin;



# DNR MANAGED FOREST

Department of Natural Resources

MANAGED FOREST LAW LAND LISTING Form 2450-131 Rev. 10-96

UF	RDY,	CHAR	tal, first, M.I.)  RLES F.  76 54.	<i>III</i>	Contract Length  25 Years  50 Years	County POLK	☐ Villag	of Geor	getow i
o. Co	de 49	S	ORDER NO. eq. No.	Year of Entry					
-	R	Sec.	Desc. Code		Description and P.I.		Open Acres	Closed Acres	Acres Denied
511	1/.1.	15	POID	XIWSW. P	TOF # 02-	600 -2-34-00-00-1	-0-000	37	Domed
5/1	16W	15	P007	SWNW, PT	OF #02-600	600 -2-34-00-00-1 -2-31-00-00-1-0-00	0	10	
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Co. Code/Seq. No/Yr. of Entry 49-032-2001	Form 2450-133	OREST LAW MAP Rev. 12-97	MADISON OFFICE USE ONLY Acreage Entered		
Owner's Name PURDY CHARLES E 3 Street or Route		Town or Village Nam  Conge Tous  Township No.	n	County Pock	
2193 80 M 5%.		Township No.	Range 16	E Section	15
City, State, Zip Code		Closed Acres		Open Acres	10
LUCK, WI 54853		4	7	/	0
Section Open Area Section 8" =	on Diagram = 1 Mile 220 → AJE	N	Prepared By		
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Order Number:	rder Number:							Department of Natural Resources							
MFL Co. 49 Seq.	0,3,2	2	Year	2,0	0,0,(				LAND EXAM AND PRACTICES REPORT Form 2450-128 Rev. 10-96					RT	
WTL Order	Ye	ar 1	11	_											
FCL Co. Seq.	11		Year					Тут	oe of Ac	tivity (I	Data En	try Code	In Pare	ens):	
Owner's Name (Last, First, Middle Initial)										New N	IFL En	try (1)			
PURIDIY, CHARILIE	E,5,	FIL	711		111	1.1				Additio	on to Ex	isting N	IFL En	ту (2)	
Street Address 21/9/31 80/4/ 57	-	1.00	1 1	1 1		1.1	1		_	New S	tand Nu	ımber (N	MFL-1;	FCL-2;	WTL -2
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ANDOWNER OBJECTIVE 2															
County POLK (Code Si	ection /	5	Town 35	T/U	Range	6 W	Town	Name	Eorg	eto	vn		P	age <u>1</u>	of <u></u>
A. Year: S.I. & B.A. Measured		$2\infty$	0		200	00									
1 Stand Number		1			Z										
2 Timber Type-Primary	0	11-1:	5 1	3 A	10-5	5 3									_ 14] -
Timber Type-Secondary	0	5-1	1/ 12	NH	0-	5 11	L								1
3 Habitat Type	A	Ude		1	AVde										
4 Acres		42		5											
Year of Origin		193	9	1985											
Total Height		76		35											
Average DBH of Primary Size Class		13		3											
Site Index		69		75											
Stocking (B.A.)		92			3										
0 Volume-Cords/Acre		13			2										
Volume-Bd. Feet/Acre	3	017	>_		600	)									
1 Soil Type		C			C										
2 Management Objective		F			A										
Management Prescriptions (Items 13 through 18)	Prescr Code	Year	Mand	Prescr Code	Year	Mand	Prescr Code	Year	Mand	Prescr Code	Year	Mand	Prescr Code	Year	Mand
3 Stand Improvement(TSI)	3	2001										7 = 1			
4 Planting Needs	11			11			1.1			11			11		
5 Site Preparation	1			1			1						1		
6 Intermediate Cut (Thinning)	5	2007	M		1										
7 Regeneration Cut (Harvest)	2	2020	M												
8 Wildlife & Aesthetics	A140	W1013	11	A190	W140	11		1.1	11	11	1_1	1.1	1.1	11	11
Other*	11		11	11	11	11	11	1.1	11	11	1.1	1.1	11	1.1	11
emarks (% non-productive for entire parcels, p	roductiv	ity, reasor	ns for de	nial, info	rmationa	l items):									
0 = ( )	1														
grature Forester		Da		2-00		gnature F	Regional	Reviewe	г				Date		

## MANAGED FOREST LANDS STEWARDSHIP FORESTRY PLAN

Name(s) and Address of Landowner(s):

Purdy, Charles E. III 2193 80<sup>th</sup> St. Luck, WI 54853

Order # 49-032-2001

County: Polk

Town Name: Georgetown

Town: 35N; Range 16W; Section(s) 15

Total Plan Acreage: 47

Contract Length: 25 Years

Starting January 1, 2001 through December 31, 2025

Attached maps show the location of Managed Forest Lands and the areas open or closed to public access.

The purpose of the Managed Forest Land Law is to encourage the growth of future commercial crops through sound forestry practices which consider the objectives of individual property owner, forest aesthetics, wildlife habitat, erosion control, protection of endangered or threatened plants and animals, and compatible recreational activities. Forestry under the law "means managing forest lands and their related resources, including trees and other plants, animals, soil, water and air." To guide the Department in fulfilling this stewardship objective, a statement of the owner's forest management objectives is required in the plan. The following statement has been provided either by the landowner or developed with the assistance of the Department. By signing this plan, the landowner(s) agree to comply with it. (The law specifically prohibits use of Managed Forest Lands for commercial recreation, industry, human residence, grazing of domestic livestock or other uses the Department deems incompatible with the practice of forestry.)

## Landowner Objectives for Management of the Enrolled Lands:

- The objective is to preserve the natural beauty of the forest and to encourage wildlife habitat. To accomplish this, I would like to work in cooperation with the DNR.
- More specific objectives for wildlife habitat, aesthetic appearance, and watershed management hopefully will be determined in accordance with help from the DNR as well.

The following pages include descriptions of vegetative or physical areas called "stands." Mandatory forestry practices which must be completed by the landowner(s) during the contract period are listed. Optional forestry activities may also be provided. Regarding mandatory practices, failure to complete them by the end of the specified year may result in withdrawal from the program and payment of a substantial withdrawal tax. The plan may be revised only with consent of both the landowner and the Department. If timber is to be harvested, a cutting notice on Department forms is required at least 30 days prior to cutting. Cutting under the notice may be commenced within one year of the date approved by the Department. Details concerning harvests, taxes, transfers, and other terms of the Managed Forest Law can be found under Chapter 77, subchapter IV, Wis. Stats., and in Chapter NR 46 of the Wisconsin Administrative Code. (Copies of the law or rules are available from the Department upon request. Landowners may also contact their local DNR forester for assistance.)

### Key to Forest Cover Type Symbols:

Produc	ctive	Non-Productive or Non-Forest				
A	Aspen	AX	Off-Site Aspen			
BH	Bottomland Hardwoods	F	Farmland			
BW	White Birch	FG	Grazed Pasture			
C	Cedar	G	Grass			
CH	Central Hardwoods, Locust	GH	Herbaceous Vegetation			
FS	Fir-Spruce, White Spruce	GLS	Low Growing Shrubs			
HH	Hemlock Hardwood	I	Residential or Commercial			
NH	Northern Hardwood	IA	Parking Area			
0	Oak	ICG	Campground			
OX	Scrub Oak	K	Keg			
PJ	Jack Pine	KB	Muskeg Bog			
PR	Red Pine, Scotch Pine	KEV	Emergent Vegetation			
PW	White Pine	KG	Noncommercial Lowland Grass			
SB	Black Spruce	KH	Noncommercial Herbaceous Vegetation			
SC	Swamp Conifer	L	Lake			
SH	Swamp Hardwood	LB	Lowland Brush			
SW	White Spruce	LBA	Tag Alder			
T	Tamarack, European Larch	LBB	Bog Birch			
W	Black Walnut	LBD	Dogwood			
		LBW	Shrub Willow			
		LM	Minor Lake			
		LMS	Minor Stream			
		ROW	Right of Way			
		SX	Noncommercial Swamp			
		SXC	Noncommercial Cedar			
		SXSB	Noncommercial Black Spruce			
the second second second	Size Classes (DBH - Diameter in inches):	SXT	Noncommercial Tamarack			
0-5	Seedlings & Saplings	UB	Upland Brush			
5-9/5-	[1] 보기 (B	Z	Rock Outcrop			
9-15/1						
15+	Large Sawtimber					

Key to Stocking Levels (shown by superscript number after the size class):

Density of Stocking	Seedlings	Saplings	Pole timber (Cords)	Small Saw timber (M. Bd. Ft. Scribner)	Large Saw timber (M. Bd. Ft. Scribner)
l Poor	1-300	1-300	1-7	.0011.0	1.02.5
2 Medium	301-1500	301-900	8-13	1.0012.0	2.5014.0
3 Good	1500+	901+	14-20	2.0013.5	4.0017.0
4 Very Good			21-30	3.501-5.0	7.001-8.5
5 Excellent			31+	5.001+	8.501+

### County Cutting Notice (Section 26.03, Wis. Stats.)

A written declaration must be filed with the County Clerk prior to cutting any forest products. Note, this is a separate notice from that filed with the Department as required under the Managed Forest Law.

### Forest Management Assistance:

Your DNR Forester, as well as Cooperating Consultant Foresters, are available to assist in the implementation or establishment of all forest stewardship practices outlined in your plan. It is highly recommended that landowners seek the assistance of a professional forester before harvesting any timber, both to assure that the timber is cut within sound management guidelines and to protect the landowners financial interests.

ORDER # 49-032-2001

Regiona	I Landscape Ecosystem Information
moraine, ice-stagnation moraines, localized	system subsection called the "Upper Wisconsin/Michigan Moraines: drumlinized ground outwash; northern hardwood forest, bog." Within this subsection, your property is -Green Bay Lobes; stagnation moraine with sandy soils, kettle lakes; northern forest and by the following:
Bedrock Geology	Precambrian bedrock within the subsection is quite diverse and includes granite, gabbro, basalt, gneiss, amphibolite, felsic, and mafic metavolcanic rock, quartzite, slate, and iron formations. Bedrock is generally overlain by glacial drift, but is locally exposed throughout the subsection. Glacial drift is up to 300 feet thick.
Landform	Sub-subsection is a narrow band of stagnation moraine formed at the front of the glacier during the Wisconsin Glaciation.
Lakes and Streams	Small kettle lakes are common on the moraines, but there are a few large lakes. The moraines are also headwater to several streams.
Soils	Soil texture is typically sandy loam to loam, developed from either brown or red glacial drift. Wetland soils are not extensive, but peat bogs are common throughout in ice-block kettles.
Presettlement Vegetation	Northern hardwoods, dominated by a mix of sugar maple, basswood, and white pine.

particular ecosystem landtype is called:	
212jd01 Lake St. Croix Moraines	The characteristic landform pattern is rolling collapsed moraine interlaced with outwash terraces and intermixed with ice-walled lake plains. Soils are predominantly moderately well drained sandy loam over dense, acid sandy loam till. Common habitat types include ACaCi and AA.

## Forest Habitat Classification System

Your property has a wide variety of plants including small ground plants (forbs), ferns, shrubs and trees. The types of plants you have indicates the nutrient and moisture conditions that exist on your land. Once the combination of plants is known for your land they can be grouped into what is called "habitat types". The primary use of the habitat type classification is to assess the potential of your forest to support or grow different forest communities.

ORDER # 49-032-2001

## Stand 1 Oak 11-15<sup>3</sup>/ Oak(Northern Hardwood 5-11<sup>2</sup>/ NH 0-5<sup>2</sup> 42 acres

## Stand Description:

This stand is mainly good quality red oak of pole (5-11 inches in diameter) and small sawlog sizes (11-15 inches in diameter). Other species present include white oak, red maple, white ash, aspen, and sugar maple. The understory shrub layer is fairly well developed with maple or ash seedlings and saplings, along with ironwood and hazelnut. Included with this stand are a few small wetland or lowland brush areas.

## Stand Objectives:

The objectives of this stand are to maintain forest aesthetics and improve wildlife habitat with periodic thinnings to increase the average size and overall health of the trees.

## **Mandatory Practices:**

- Based on current stand conditions and predicted growth, this stand will need a marked selection thinning to relieve overcrowding and stimulate additional growth in 2007. Select overmature trees along with high risk trees not likely to reach the next cutting cycle; low vigor trees; and selected pole size trees to release future crop trees. A professional forester should mark this harvest. Residual basal area shall average 85-90 sq.ft. in good quality trees. Large crowned oaks should be left where possible to provide mast for wildlife. Damage to residual trees must be kept to a minimum and BMP's must be followed around water bodies. The DNR forestry office must approve the harvest.
- Based on predicted growth, the stand shall be thinned again using a selection type harvest in 2020. Select overmature trees along with high risk trees not likely to reach the next cutting cycle; low vigor trees; and selected pole size trees to release future crop trees leaving a residual basal area of 85 sq. ft. per acre in quality trees. A professional forester should mark this harvest. Damage to residual trees must be kept to a minimum and BMP's must be followed around water bodies. The DNR forestry office must approve the harvest.

## **Optional Practices:**

Anytime during the contract period, fell or girdle <u>unmerchantable</u> trees that are competing with high quality trees. These can then be used as firewood or left as snags for wildlife. If you need help identifying these trees contact the forestry office for assistance.

Parts of this stand are getting overcrowded now. The stand may be thinned earlier than 2007 if you are doing some other harviesting on the property. Minimum basal areas must still be maintained.

ORDER # 49-032-2001

## Stand 2

## Aspen 0-53/ Northern Hardwoods 0-51

5 acres

## Stand Description:

This stand is a small area of aspen and maple saplings that originated from some harvesting in the past. This area is very dense and provides excellent grouse and deer habitat. The trees appear to be about 15 years old. There are some larger trees scattered throughout this stand for some structural diversity.

## Stand Objectives:

The objectives of this stand are to provide habitat for wildlife and produce quality aspen in the future.

Mandatory Practices:

Optional Practices:

None Needed.

None

## All Stands

No endangered or threatened species are known to be present on your property.

### Mandatory Practice:

Wisconsin's Forestry Best Management Practices for water quality (BMP's) must be followed when conducting forestry activities on Managed Forest Law Property. A copy of the Manual is available upon request.

In addition to the BMP's, existing municipal, county, state, and federal regulations state that certain operations in or near streams, lakes, floodplains, or wetlands require a permit.

If timber is to be harvested, a cutting notice on Department forms is required at least 30 days prior to cutting. Cutting under the notice may be commenced within one year of the date approved by the Department.

**Informational Notes:** A good seed mixture for woods roads and trails is: 10 pounds white dutch clover, 5 pounds perennial rye grass and 10 pounds annual rye grass, and 10-15 pounds creeping red fescue per acre of road.

Gypsy Moth: The best way to protect your woodland from this pest is to promote a vigorous healthy forest by following the recommendations in this plan. Additional Info enclosed.

ORDER # 49-032-2001

## **Practice Summary**

YEAR	STAND #	MANDATORY	PRACTICE	
anytime	1	No	Release crop trees	
2007	1	Yes	Thin oak and other hardwoods using selection system	
2020	1	Yes	Thin using selection system	

Provide the name, address, and telephone number of the preparer of this plan:

Paul F. Heimstead, Forester Wisconsin Dept. of Natural Resources 941 Mallard Lane #104 Balsam Lake, WI 54810 715-485-3518

The owner hereby agrees to comply with the terms of this forest stewardship management plan and the conditions of subch. VI, Ch. 77, Wis. Stats., and Ch. NR 46, Wis. Adm. Code. The landowner further agrees to amendment of the Petition for Designation to conform with the landowner objectives and map as included in this plan.

To be signed by the President and Secretary of a corporation or by the individual landowners (or legal agent, if any) as listed on the deed or other instrument of title. Signature Date Signed Signature Date Signed Signature Date Signed Signature (Attach additional signature pages, if needed.) Approved for the Department of Natural Resources by:

Signature of DNR Forester

## FORESTRY PLAN

State of Wisconsin partment of Natural Resources

## Managed Forest Lands STEWARDSHIP FORESTRY PLAN

Section 77.82(3), Wis. Stats. Form 2450-132 Rev. 1-92

Page 1 of \_\_\_\_

ne(s) and Address of Landowner(s)

Furdy Charles E III ET 2 Box 161 Luck. WI 54853

Luck, WI 54853	Or	<b>der #</b> 49 012 1993
ınty_ Polk		Georgetown
vn:	Starting January 1, 19	Total Plan Acreage: 33  through December 31, 20
purpose of the Managed Forest Land Law is to encourage the growth of objectives of individual property owner, forest aesthetics, wildlife habit nals, and compatible recreational activities. Forestry under the law "meether plants, animals, soil, water and air." To guide the Department in tagement objectives is required in the plan. The following statement has stance of the Department. By signing this plan, the landowner(s) agree est Lands for commercial recreation, industry, human residence, grazing h the practice of forestry.)	future commercial crops through tat, erosion control, protection of ans managing forest lands and th fulfilling this stewardship object been provided either by the land to comply with it. (The law spe	f endangered or threatened plants and eir related resources, including trees ive, a statement of the owner's forest downer or developed with the cifically prohibits use of Managed

### ndowner Objectives for Management of the Enrolled Lands:

"The objective is to preserve the natural beauty of the forest and to encourage wildlife habitat. To accomplish this, I would like to work in cooperation with the DNR."To accomplish

"More specific objectives for wildlife habitat, aesthetic appearance, and watershed management hopefully will be determined in accordance with help from the DNR as well."

e following pages include descriptions of vegetative or physical areas called "stands." Mandatory forestry practices which must be completed the landowner(s) during the contract period are listed. Optional forestry activities may also be provided. Regarding mandatory practices, failure complete them by the end of the specified year may result in withdrawal from the program and payment of a substantial withdrawal tax. The plan be revised only with consent of both the landowner and the Department. If timber is to be harvested, a cutting notice on Department forms is uired at least 30 days prior to cutting. Cutting under the notice may be commenced within one year of the date approved by the Department, ails concerning harvests, taxes, transfers, and other terms of the Managed Forest Law can be found under Chapter 77, subchapter IV, Wis. Stats., in Chapter NR 46, Wis. Adm. Code. (Copies of the law or rules are available from the Department upon request. Landowners may also contact r local DNR forester for assistance.)

## FORESTRY PLAN

of Wisconsin

## Managed Forest Lands

### Section 77.82(3), Wis. Stats. Form 2450-132A Rev. 1-92

## STEWARDSHIP FORESTRY PLAN

Page 3 of 4

Order # 49 012 1993

### TAND DESCRIPTIONS

tand 1 - NH 11-15'/5-11", 19 acres

Sugar maple sawtimber and poletimber are dominant on this east slope. There is some aspen toward the north end of the stand. Growing good quality sawtimber and protecting the shoreline are the major goals.

and 2 - (NH)BW 5-11", 7 acres

Northern hardwood (basswood, ash, sugar maple) poletimber and white birch are the larger components of this stand. Some harvesting has taken place in recent years. The goal is to produce high quality sawlogs and veneer.

and 3 - (NII)0 5-11", 7 acres

Pole sized basswood and oak are the major components. There are scattered low quality sawtimber trees. In places i convood saplings dominante the understory thus inhibiting the reproduction of more desirable trees. The goal is to grow good quality sawlogs and encourage natural reproduction.

### NDATORY FRACTICES

- 30 Stand 182-Conduct a marked thinning to reduce the basal area to 70 square feet per acre of uniformly distributed, good quality trees. Harvest all mature aspen and white birch. Favor continued development of oak where it exists.
- NO Stand 3 Conduct a morked harvest of scattered overmature trees. This is a salvage harvest only.
- 5 Stands 1,2 & 3 Conduct a marked harvest to reduce the basal area to 70 square feet per acre of uniformly distributed, high quality trees. Favor retention of oak where it exists.

### OMMENDED PRACTICES

- 3+ Stands 1,2 & 3 Remove low quality trees that directly interfere with the crowns of your best quality trees. This can be done in the process of cutting firewood. This will improve the growth and value of your high quality trees.
- Stand 3 Sever patches of small ironwood that are prevalent. Treating the fresh cut stumps with an appropriate herbicide such as glyphosate or 2,4D may inhibit resprcuting. Always follow label directions when using pesticides. Killing the ironwood will allow more desirable seedlings to become established.
- Stands 1,2 & 3 During all timber hervests leave 2 to 4 hollow trees per acre as they are available. Leave standing dead trees where they do not pose a safety hazard. To not allow logging debris in the lake.

cial note: Managed Forest Lands can not be grazed.

# FORESTRY PLAN

. State of Wisconsin Department of Natural Resources

# Managed Forest Lands STEWARDSHIP FORESTRY PLAN

Section 77.82(3), Wis. Stats.
Form 2450-132B 1-92

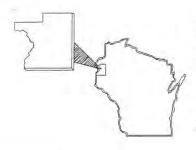
Page \_\_\_\_\_\_ of \_\_\_\_\_\_\_\_

Order # 49 012 1993

Box 537	
Balsam Lake, WI 54810 715-185-3136	
The owner hereby agrees to comply with the terms of this for h. 77, Wis. Stats., and ch. NR 46, Wis. Adm. Code. The landesignation to conform with the landowner objectives and made to be signed by the President and Secretary of a corporation or by the individual strument of title.	downer further agrees to amendment of the Petition for p as included in this plan.
La harden E Party as	7-27-91
Signature	Date Signed
Signature	Date Signed
Signature	Date Signed
Signature	Date Signed
Signature  Attach additional signature pages, if needed.)	Date Signed

	ORDER NUMBER 12 1993	MANAGED Form 2450-133	FOREST LAW MAP Rev. 4-87	MADIS Acreage Entere	ON OFFICE	E USE ONLY
	Code/Seq. No./Yr. of Entr	у				
Owner's Name Purdy	e Charles E III	TO THE COMMENT OF THE PERSON OF THE COMMENT OF THE	Town or Village Name		County	111-
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City, State, Z Luck,		Personal and the second	Closed Acres		Open Acres	15
Luck,	WI 54853		33		7	-0-
LEGEND:	Closed Area Open Area	Section Diagram 8" = 1 Mile	Prepared By Michael	. R Grinye	er Date	7-20-92
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## LAKE REPORT



### POLK COUNTY LAND & WATER RESOURCES DEPARTMENT

215 MAIN STREET & P. O. BOX 460 & BALSAM LAKE &WISCONSIN 54810 PHONE: 715-485-8699 FAX: 715-485-8601

JEFF TIMMONS, DIRECTOR 715-485-8631

Charles E III Purdy 2193 80<sup>th</sup> St. Luck, WI 54853

March 13, 2006

Subject: Lost Lake Chemistry

Dear Chuck,

I am happy to report that Lost Lake is still in incredible shape and look forward to monitoring it for years to come! Enclosed is the bill for the water chemistry that was done. The results were consistent with other tests we have done and we will include another report after another year of monitoring. You can either send payment directly to the Water and Environmental Analysis Lab, or to our department and we will take care of it.

Along with water chemistry I would like to concentrate some efforts on some macroinvertebrates as well this year. We can discuss this further later.

Best regards,

Yeremy Williamson

Water Quality Specialist/Biologist

715-485-8639

jeremyw@co.polk.wi.us

## LAKE REPORT

# Lost Lake Planning Grant Report February 2004

Polk County
Land & Water Resources Department
Suite 120
100 Polk County Plaza
Balsam Lake, WI 54810



# LAKE REPORT

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## Physical Description

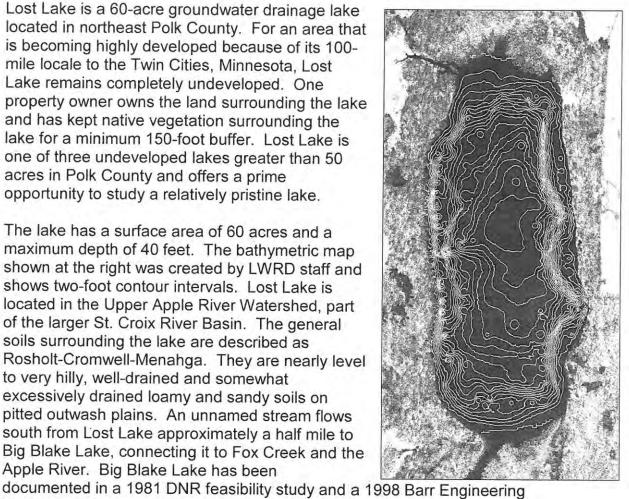
Lost Lake is a 60-acre groundwater drainage lake located in northeast Polk County. For an area that is becoming highly developed because of its 100mile locale to the Twin Cities, Minnesota, Lost Lake remains completely undeveloped. One property owner owns the land surrounding the lake and has kept native vegetation surrounding the lake for a minimum 150-foot buffer. Lost Lake is one of three undeveloped lakes greater than 50 acres in Polk County and offers a prime opportunity to study a relatively pristine lake.

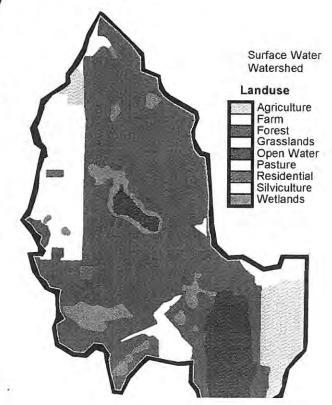
The lake has a surface area of 60 acres and a maximum depth of 40 feet. The bathymetric map shown at the right was created by LWRD staff and shows two-foot contour intervals. Lost Lake is located in the Upper Apple River Watershed, part of the larger St. Croix River Basin. The general soils surrounding the lake are described as Rosholt-Cromwell-Menahga. They are nearly level to very hilly, well-drained and somewhat excessively drained loamy and sandy soils on pitted outwash plains. An unnamed stream flows south from Lost Lake approximately a half mile to Big Blake Lake, connecting it to Fox Creek and the Apple River. Big Blake Lake has been

Macrophyte Survey to contain the exotic curly leaf pondweed. The integrity of Lost Lake's ecosystem is at risk if curly leaf pondweed establishes itself in Lost Lake.

## Surface Water Watershed and Associated Land Use

The surface watershed was delineated to determine the study area of this project. Approximately 772 acres drain directly to Lost Lake. This area includes an unnamed lake to the northwest approximately 9 acres in size. The topographic map shows there is an area of concentrated flow from the unnamed lake to Lost Lake. The watershed to lake area ratio is 13:1. Because the

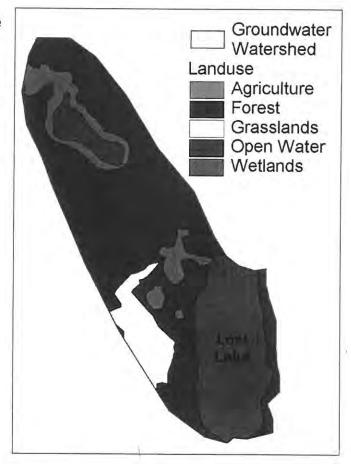




surface watershed is so large, it is important to the water quality of the lake. Surface water commonly carries sediments and nutrients from the watershed to the lake. These nutrients, if available in elevated amounts, can trigger a change in the lake, disrupting its present balance. Lost Lake would be sensitive to development of the surrounding land because of the increase of nutrients to the lake.

Within the 772 acres of the surface watershed, approximately 461.3 acres are forested (59.8 %), 82.3 acres are silviculture (10.7%), 72.2 acres are open water (9.4%), 58.9 acres are wetlands (7.6%), 56.8 acres are agriculture (7.4%), 24.2 acres are grassland (3.1%), 9.0 acres are pastureland (1.2%), 3.5 acres are farmstead (0.5%), and 3.4 acres are residential land use (0.4%).

Sensitive areas were noted within the watershed. Steep slopes perimeter the east and west sides of the lake. The north and south sides of the lake are mainly marshy wetlands with a diverse emergent vegetation community. Wetlands are also scattered throughout the watershed. It is known that Native American burial mounds can be found within the watershed and provide an interesting cultural resource.



## Groundwater Watershed and Associated Land Use

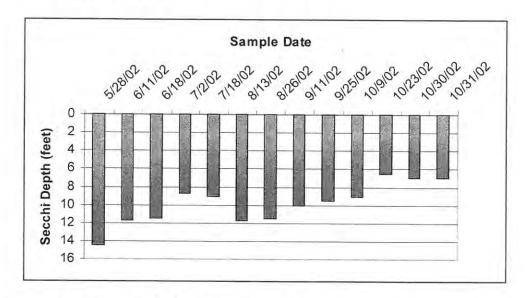
The groundwater watershed is also an important land area to Lost Lake as it is groundwater fed. The groundwater watershed is approximately 275 acres and flows northwest to southeast into Lost Lake. The groundwater watershed is contained entirely within the surface water watershed, and the land use is comprised of 161.0 acres of forestland (58.8%), 71.3 acres of open water (25.9%), 23.9 acres of wetland (8.9%), and 18.8 acres of grassland (6.8%). This watershed is largely undisturbed and is important to the recharge water of the lake.

## **Water Quality**

As no historical water quality data can be found on Lost Lake, this study provides a baseline of comparison for future years. Sampling and monitoring for this study included water clarity, temperature and dissolved oxygen profiles, water chemistry, turnover samples, lake sediments, a watershed biodiversity survey (including exotic species inventory), and lake nutrient modeling.

## Water Clarity

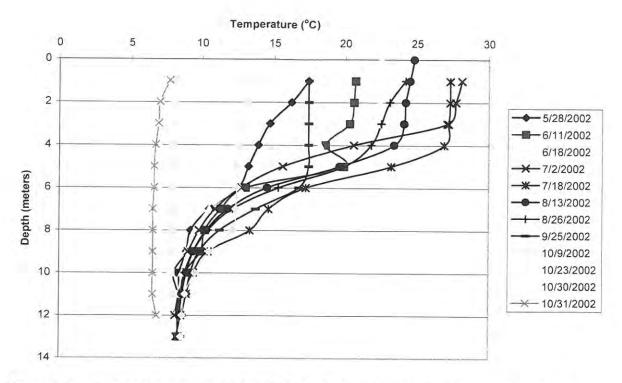
The water clarity of Lost Lake was measured during the summer season of 2002 and 2003 using a Secchi disk. Approximately biweekly from May to October, LWRD staff recorded the Secchi depth. The following figure shows the values and changes throughout the 2002 season.



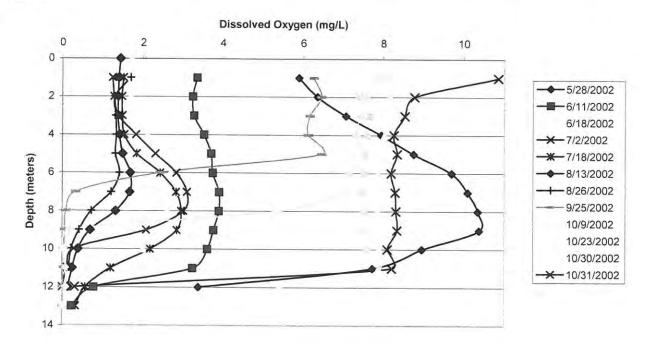
According to Shaw, et al. (2002), the water clarity of Lost Lake is good. The average Secchi depth in 2002 was 9.8 feet.

## Temperature and Dissolved Oxygen Profiles

Lost Lake is a dimictic lake typical of a northern temperate lake. Lost Lake is deep enough to stratify during the summer season, clearly forming three distinct layers.



During overturn (early spring and late fall), the temperature of the water column becomes uniform, and oxygen reaches even the bottom depths. The temperature of Lost Lake warmed to 28.1°C at the surface on July 2, 2002, then gradually cooled throughout the rest of summer. The dissolved oxygen profile of Lost Lake also shows the presence of algae with a positive heterograde curve during early and mid summer.



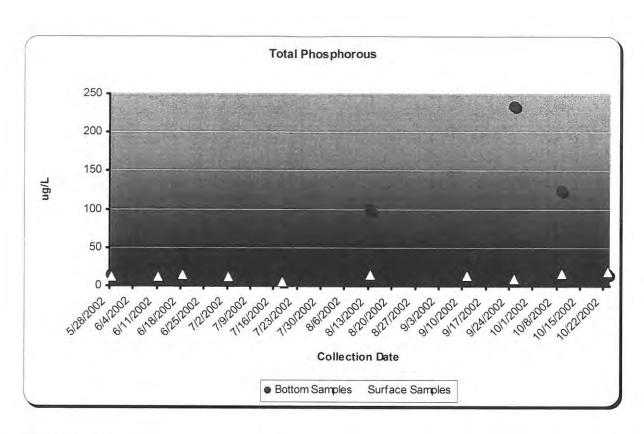
The water column from mid summer to the end becomes nearly devoid of oxygen. Dissolved oxygen concentrations are anoxic (less than 2 mg/L) from June 18 to August 26 unless increased by photosynthesis. Low oxygen concentrations are important not only because they restrict wildlife, but also in that this condition may allow phosphorus to be released from lake bottom sediments as the benthic chemistry is changed.

## Water Chemistry

## Phosphorus

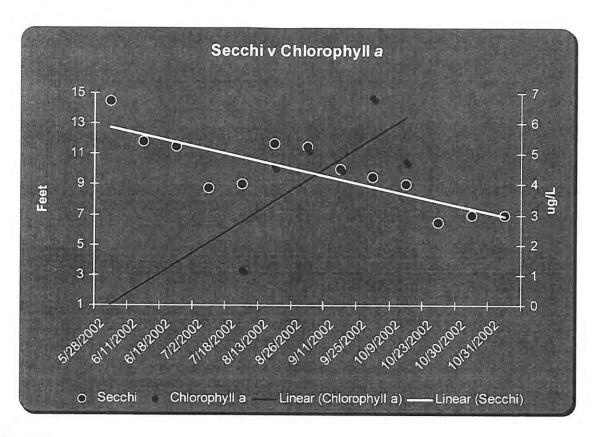
Phosphorus is considered the limiting nutrient in more than 80% of Wisconsin's lakes and affects the amount of plant and algae growth in the lake. The total phosphorus (TP) of Lost Lake averaged 13 Ag/L at the surface during the summer months of 2002 and 2003. This number is very good for natural lakes, and classifies Lost Lake as an oligotrophic to mesotrophic lake. Oligotrophic lakes are generally clear, deep lakes with a low level of nutrients. They typically do not support a large fish or macrophyte population. Mesotrophic lakes contain more nutrients, and thus, more fish and macrophytes. Lost Lake is somewhere between these two categories.

When the dissolved oxygen at the bottom of a lake is depleted, the chemistry of the bottom water changes. Redox conditions cause nutrients to dissolve and become chemically available. The bottom layer of Lost Lake was sampled during 2002 to assess how much phosphorus was present under limited oxygen. Bottom phosphorus concentrations ranged from 15 Mg/L to 234 Mg/L. The following graph shows the range of phosphorus concentrations throughout the summer in Lost Lake. This phosphorus could be utilized by algae or macrophytes if the phosphorus assimilates into the rest of the water column. This source of phosphorus is termed internal loading, but its effects have not been evaluated on Lost Lake. Phosphorus concentrations collected over more seasons would give a better indication of any changes occurring in Lost Lake.



## Chlorophyll a

Chlorophyll *a* gauges the amount of algae in the water of a lake. Algae and other microorganisms are a natural part of a lake's ecosystem, composing the base of the food chain. Dense growths of algae are mainly an aesthetic problem of lakes, unless certain species are present which release toxic biproducts. Chlorophyll *a* concentrations often correspond to phosphorus concentrations and Secchi depth measurements. Additions of phosphorus will typically increase the amount of algae in a lake. And a dense growth of algae will inhibit light penetration, affecting the water clarity (thus, Secchi depth) of a lake. The following graph shows Secchi depth measurements versus chlorophyll *a* concentrations in Lost Lake. The trend lines indicate that as the chlorophyll *a* increases, the water clarity decreases.



## Nitrogen

Nitrogen was analyzed in the form of nitrate-nitrite on the samples collected in 2003. Concentrations were low in the lake water, not being detected on two of the three samples. The third sample, taken August 20, 2003, had a NO<sub>2</sub>+NO<sub>3</sub> concentration of less than 0.034 mg/L. This does not appear to impose problems for Lost Lake.

## **Turnover Samples**

Three turnover samples were collected on Lost Lake, and additional parameters were analyzed for these samples. Turnover samples give us an overview of the characteristics of the lake water quality without being influenced by biological processes. A complete listing of the water quality data can be found in the appendix.

Lost Lake is considered a soft water lake, having an average total hardness concentration of 36 mg/L as CaCO<sub>3</sub>. The cations (positively charged ions) that typically make up the total hardness value, namely calcium, magnesium, potassium, and sodium, readily bind with nutrients or anions (negatively charged ions). Since the cation content of the lake water is low, this makes the lake sensitive to an increase in nutrients. Any change in the land use of the watershed which would increase the nutrient loading to the lake could rapidly cause the lake to become eutrophic.

Lost Lake has an average alkalinity of 35 mg/L as CaCO<sub>3</sub>. This means that there is enough carbonate in the lake system to buffer effects of acid rain, and the lake is not sensitive to acid rain.

The nutrients in Lost Lake are relatively low compared to other lakes of the region. The average total nitrogen found during turnover samples was 0.51 mg/L. The total phosphorus averaged 12 g/L. Potassium, the third most important nutrient to plants, had an average concentration of 0.4 mg/L. Another ion measured was chloride (average 2.0 mg/L), which can indicate the influence of human disturbance at high levels. The chloride also appears to be in check on Lost Lake. The color of Lost Lake reflects the type and amount of dissolved organic chemicals in the water. The color at turnover was 15 standard units, which is considered low. Turbidity, which is caused by particles of matter in the water column, was also low at 5.3 NTU.

## Lake Sediments

Lake sediments are an important part of a lake ecosystem because they host benthic

organisms and aquatic plants, receive organic and sediment deposits from the lake and watershed, and can act as a source of nutrients to the lake.

Lake sediments were collected from Lost Lake in 2002 with a Ponar dredge. The samples were sent to the Soil & Forage Analysis Lab in Marshfield. The samples were analyzed for percent total nitrogen, percent dry matter, percent total phosphorus, and total minerals.

	TN %	% Moisture	TP %	Ca %	Fe ppm
Lost-1	2.2	94.5	0.10	0.61	36500
Lost-2	1.8	91.7	0.06	0.56	57826
Lost-3	2.0	91.6	0.08	0.57	54600
Lost-4	1.6	91.7	0.04	0.40	26580

Sample 1 seems to be an area of accumulation on the lake. All parameters except iron have a slightly higher value than the other sites. Total nitrogen,

Sediment Dredge Samples phosphorus, and calcium are ions that bind with solids. The higher percent moisture also tells us that this site has relatively more organic matter than the other sites. indicating an area of deposition of plant material and other solids.

Sample 4 has the lowest amount of TN, TP, calcium, and iron. Conversely, this site may be flushed by wave action or wind, or may not have nearby vegetation contributing to the nutrients. The lower concentration of iron indicates there is not as much decomposition going on as at the other sites (redox conditions are not as low).

All samples have relatively the same composition, but a few characteristics of the lake give slightly different values. The high percent moisture in the sediment samples of the lake indicates the sediment was very mucky and finely decomposed. A sample with a much lower percent moisture would have more sand, pebbles, or silt and less of the organic matter that is found in Lost Lake.

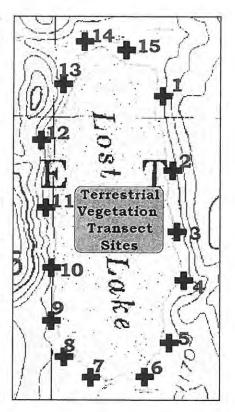
## Watershed Biodiversity Survey

## Terrestrial Survey

The riparian zone of Lost Lake is an incredibly diverse ecosystem that is both ecologically and hydrologically important. This community is an incredible transition from a floating sedge meadow on the lake edge to upland second growth forest.

The objective of the terrestrial vegetation survey was to assess biodiversity in the plant community of theriparian zone. The vegetation survey was carried out August 20, 2002. Fifteen sampling points were established around the lake. Transects lines were set at the shore and extended landward 40 feet. The vegetation was then assessed every 10 feet along the transect in a one-meter square.

Each species in the sampling area was identified, and the approximate density of each species was estimated within the meter square. The results can be used to determine species composition or dominance of a species at a site or certain community. The communities were then evaluated using the Shannon-Wiener Diversity Index to find the riparian average biodiversity.



One hundred fifteen (115) species were found in the sampling areas. A dominance matrix was not run on the results because there was such an assortment in the species, from lowland, marshy plants to upland trees and shrubs. The rich plant community of Lost Lake's watershed is most likely an invaluable part of the lake's ecosystem, particularly to birds, small mammals, and herpetiles. In order to protect the lake, the riparian community needs to be protected. The plant community within the watershed should continue to be monitored to ensure a healthy ecosystem and gauge the effectiveness of management techniques. A major disturbance to the natural community of Lost Lake could be detrimental to its ecosystem and the surface and groundwater quality. Spring sampling would also increase the number of species found.

The Shannon-Wiener Index is based on information theory and determines how difficult it would be to correctly predict the species of the next individual collected. This, in turn, tells us how diverse the plant community is. A number close to 1 indicates that an individual could easily predict correctly the next plant collected, which means there is low diversity in the lake. A higher number indicates a more diverse lake. The Shannon-Wiener Index uses the equation:

$$H = -\sum_{i=1}^{s} (p_i)(\log_2 p_i)$$

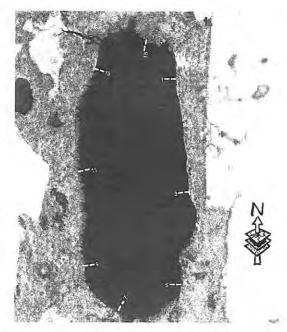
Where H = Shannon-Wiener Diversity,  $\sum$  = sum of species, s = the number of species,  $p_i$  = the proportion of individuals of the total sample belonging to species i, calculated as ni/N for each species i with ni being the number in species i and N being the total number of individuals in the sample (Barbour, et al, 1987). Because the total number of individuals was not determined in this survey, the density of the species was substituted for the total number. It was thought that the density of the species would accurately represent the population of each individual species.

The Shannon-Wiener diversity index for Lost Lake was calculated to be 4.4. As the watershed has little human impact and is dominated by forest, this is to be expected. The actual diversity rating is probably slightly higher than calculated as other species, such as Indian Pipe (*Monotropa uniflora*), trillium (*Trillium grand iflorum*), woodland sedges, and many others, were observed in passing but were not collected in the transects. Additional monitoring would improve diversity indices and our understanding of the riparian community.

## Aquatic Macrophyte Survey

The aquatic macrophyte survey was carried out on Lost Lake August 25-27, 2002, to assess the aquatic ecosystem biodiversity. Seven sampling points were established around the lake approximately every 1000 feet. Transects lines were set at the shore and extended seaward 100 feet, as shown in the figure to the right.

The method used to assess aquatic macrophytes was to snorkel to the bottom of the sampling point and remove all vegetation present in a 1/16-m² sample. The macrophytes were brought to the surface. Each species in the sampling area was identified, and the approximate density of each species was determined (e.g. seven-



angle pipewort (*Eriocaulon aquaticum*), density of 4) by placing all of the species on a 12 x 18" tray broken into 24 equal squares. Density was determined by the coverage

of the plant species on the squares. This method can then be used to determine species composition or dominance of a species at a site or certain water depth. The results were evaluated using three different indices or metrics, the Floristic Quality Assessment, Shannon-Wiener Diversity Index, and the Frequency of Occurrence.

The Frequency of Occurrence (FO) is defined as the number of sites along all transects that the species occurred in divided by the total number of sites in the lake with vegetation, expressed as a percent. The FO showed that fern-leaved pondweed (*Potamogeton robinsii*) was the dominant species during this sampling event, occurring at 75.4% of the intervals. However, there were several species with a FO of more than twenty percent, including watershield (*Brasenia schreberi*) at 40.4%, water celery (*Vallisneria Americana*) at 35.1%, coontail (*Ceratophyllum demersum*) at 31.6%, large leaved pondweed (*Potamogeton amplifolius*) at 21.1%, and common waterweed (*Elodea Canadensis*) at 21.1%.

Clasping leaf pondweed (Potamogeton robbinsii) was by far the densest species in Lost Lake. The relative amount was two fold denser than any other species in the survey. Twenty-six (26) species total were found in the aquatic macrophyte survey.

The Shannon-Wiener Diversity Index was also calculated for the aquatic macrophytes. Because the total number of individual plants of each species was not determined in this survey, the density of the species was substituted for the total number. It was thought that the density of the species would accurately represent the population of each individual species. The Shannon-Wiener diversity index was calculated to be 2.6. Again, the lake has little human impact and is completely buffered by forest, resulting in a relatively high diversity rating. The actual diversity rating is probably slightly higher than calculated as other species, such as white stemmed pondweed (*Potamogeton praelongus*), where observed in passing but were not collected. Additional monitoring would improve diversity indices and our understanding of the aquatic plant community.

The Floristic Quality Index was also determined to assess the quality of the macrophyte community in Lost Lake. The Floristic Quality Index is designed to evaluate the closeness of the flora in an area to that of an undisturbed condition. It can be used to identify natural areas, compare the quality of different sites or locations within a single lake, monitor long-term floristic trends, and monitor habitat restoration efforts. This is an important assessment in Wisconsin because of the demand by the Department of Natural Resources (DNR), local governments, and riparian landowners to consider the integrity of lake plant communities for planning, zoning, sensitive area designation, and aquatic plant management decisions (Nichols, 1999).

Using the equation  $I=\overline{C}\sqrt{N}$  (where I is the floristic quality,  $\overline{C}$  is the average coefficient of conservation (obtainable from

http://www.botany.wisc.edu/wisflora/FloristicR.asp) and  $\sqrt{N}$  is the square root of the number of species), the floristic quality of Lost Lake was determined to be 31.56.

The average for this area of Wisconsin (North Central Hardwood Forest) is 17 to 24.4 with a median of 20.9. Lost Lake appears to be a completely undisturbed lake. The floristic quality of Lost Lake is more than likely so high because such high quality species such as buttercup (*Ranunculus sp.*) and bladderwort (*Utricularia sp.*) were collected, which are sensitive to disturbance.

The rich aquatic plant community of Lost Lake is most likely an invaluable part of the lake's ecosystem, particularly to invertebrates and fish. In order to protect the lake, the aquatic plant community needs to be protected. The aquatic plant community should continue to be monitored to ensure a healthy ecosystem and gauge the effectiveness of management techniques. A major disturbance to the macrophyte community of Lost Lake could be detrimental to its ecosystem.

## Woody Debris

Another measure of habitat for fish and aquatic wildlife is the amount of coarse woody debris in the riparian area. Coarse woody debris (CWD), such as fallen logs and limbs, supply a place for floating plants to root, structure and hiding places for fish, sunning locations away from predators for small animals, and habitat for insects which provide food. CWD has increasingly been discovered as prime habitat and essential for the aquatic community. Measurements were not taken on Lost Lake during this grant, but current conditions seem to be adequate to support fish and aquatic wildlife. Further studies should be conducted to assess woody debris on Lost Lake.

## Lake Nutrient Modeling

The Wisconsin Lake Modeling Suite (WiLMS) was used to model current conditions, pre-development conditions, and projected development conditions for Lost Lake's watershed. Phosphorus was the key parameter in the modeling scenarios, because it is the limiting nutrient for algal growth in most lakes.

The following tables were based on annual external source loading estimates and the Nurnberg model for estimating gross internal loading. The models that appeared to be the best "fit" for Lost Lake were the Reckhow Natural Lake Model (1979) and the Vollenweider Shallow Lake Model (1982). The Reckhow model calculates growing season concentrations. The Vollenweider calculates a spring turnover and growing season average. Both models estimate phosphorus concentrations in the water column.

Table 1. Lost Lake Current Conditions Prediction

	Reckhow,	Vollenweider,
Annual	1979 Natural	1982 Lake
Total P	Lake Model	Model
Loading	Predicted P	Predicted P

	[1]	[]
72 kg	17 Ag/L	26 Aq/L

Table 2. Lost Lake Projected Development Conditions Prediction

	Reckhow, 1979 Natural	Vollenweider , 1982 Lake
Annual	Lake Model	Model
Total P	Predicted P	Predicted P
Loading	[]	[]
206 kg	49 Mg/L	64 Mg/L

Table 3. Lost Lake Undeveloped Conditions Prediction

	Reckhow, 1979 Natural	Vollenweider , 1982 Lake
Annual	Lake Model	Model
Total P	Predicted P	Predicted P
Loading	[]	[]
39 kg	9 Ag/L	15 Ag/L

Tables 1, 2 and 3 indicate that prior to European settlement of the watershed, Lost Lake had a phosphorus concentration of 9 Mg/L versus the modeled and observed concentration today of 17 Mg/L and 12 Mg/L, respectively. Maintaining the current in-lake phosphorus level in Lost Lake is an attainable management goal. Such a level would maintain water clarity and ensure a quality lake for generations.

The projected development condition bodes grim for Lost Lake. The projected development condition assumes that all forestland (67% of the Lost Lake watershed) will be converted into low density rural residential (approximately 1 house per 2 acres). The annual phosphorus loading to the lake would more than double from 72 kg/yr to 206 kg/yr. It is not unreasonable to assume that 40% of the developable forestland and cropland will eventually be converted, as it is possible under the current zoning law. The predicted 64 Mg/L in-lake phosphorus concentration for a developed lake would likely bring nuisance algal blooms and decaying scums on the water's surface. Therefore, a majority of efforts should be focused on maintaining the undeveloped conditions of the shoreline and the natural state of the watershed.

The implementation of best management practices (BMPs) or the use of permanent conservation easements throughout the watershed, and especially in the riparian

areas, would allow the phosphorus concentration to remain low in the lake. Continuing to limit boat traffic on the lake could also further reduce internal phosphorus loading. The empirical models in WiLMS estimate that internal loading makes up approximately 16% of the total phosphorus in the water column.

#### Management Implications

Lost Lake is a very unique lake in Polk County. Nutrient levels are low in the lake, and nutrient loading in the watershed is low because of its undeveloped status. The lake is currently classified as an oligotrophic lake. Lost Lake is a soft water lake and may not have a lot of ionic bonding capacity to buffer nutrients if the lake is exposed to future development. The lake would rapidly accelerate to a eutrophic condition because of the anthropogenic influence.

Therefore, it is in the best interest of the water quality of the lake and its ecosystem to remain in a natural state and be further protected. The lake currently has a vegetative buffer of 150 feet minimum surrounding the lake, which inhibits sediments from reaching the lake, reduces shoreland erosion, and provides critical habitat. Putting this riparian land into a conservation easement to forever protect it will no doubt protect the lake. Maintaining the vegetative buffer would also prevent the infestation of invasive species.

Continued monitoring of the lake and surrounding watershed would be a great educational resource as Lost Lake is one of the few lakes in Polk County that remain in a native state. Baseline data should be established on the lake for use as a comparison for developed lakes in Polk County to realize their potential. Monitoring of the ecosystem could also indicate to lake managers the importance biological components have on water quality.

#### References

Nichols, Stanley A. 1999. Journal of Lake and Reservoir Management 15:133-141.

Shaw, B., C. Mechenich, and L. Klessig. 2002. Understanding Lake Data. UW Extension SR-02/2002-1M-525

## WELL REPORT

Well Construction Report WISCONSIN UNIQUE WELL NUI	WDED		SR	Q h	Department Madison, W		ces, Box 79	2 For 021 (R	7/03)
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Mailing Address 3173 80	31160	1			of Ge	orge Town	V		
City LUCK	Stat	16	Zip Code	553	CST	ess of Road Name		XXX	Not S
County of Well Location Co. Well perm	nit Wel	Complet	ion Date (	(mm-dd-yyyy)	A LEA	V	Lot#		ock #
Well Constructor (Business Name)	License #	Facility	ID Numb	ber (Public We	Section 1	5 7 33	N; R	X -	/4 of ]E
Address 335 to Ch /	luc	Public 'W		Approval #	Latitude L Longitude I	CB. T	Sec Sec	-	
City State Zip	Code	Date of	Approva	l (mm/dd/yyy	y) 2. Well Ty	pe Nev	construction	Lat/Long	Method
Hicap Permanent Well # Common Well #			e Capacity	y gpm	(see	item 12 below)		onstructed in	
3. Well serves# of homes and or /(Eg: barn, restaurant, church, school, indus	Arm/CA	weil:		_YesN		replaced or recons	tructed we	11?	
4. Is the well located upslope or sideslope and		Prope	, L	□Yes □N		☐ Driven Point			es $\square$ No
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#### POLK COUNTY LAND CONSERVATION DEPARTMENT

BOX 460 BALSAM LAKE, WISCONSIN 54810 PHONE (715) 485-3725

COMMITTEE CHAIRMAN - Ray Bauerfield COMMITTEE MEMBERS - A. Stanley Anderson, Jerry Handlos, Walter (Bud) Lee ASCS REPRESENTATIVE - Wilfred Kuhl

Charles Purdy1529 BARN F/L Rt. 2, Box 161
Luck, WI 54853

1973

I would like to thank you for letting us sample your well and I'm enclosing the results of the chemical analysis. You may recall that we sampled your well last year as a part of a project which is looking at general groundwater quality in the county. We sampled for standard water quality indicators and the results from your well are enclosed, along with a brief explanation of what the numbers mean. If one of your results has a minus sign in front of it, that parameter is present in amounts lower than lab analyses can detect.

SPECIFIC CONDUCTANCE: Specific conductance is a measure of the ability of water to conduct an electric current; it is directly related to the total amount of dissolved minerals in the water. It is a quick analysis that can detect changes in mineral content but does not give an indication of which minerals are present. Wells finished in different geologic units will have different conductivities, however, most of the wells that we sampled have conductivities between 150 and 400 umhos. Conductance is typically about twice the hardness of water as hardness ions are a good indicator of total dissolved minerals in most natural waters.

**HARDNESS:** Hardness is a measure of the amount of dissolved calcium and magnesium in the water. These minerals occur naturally in soils and as limestone and dolomite. Compounds of these two elements are responsible for most scaling in pipes and hot water heaters. Hardness is reported in milligrams/liter of calcium carbonate (mg/CaCO3). Zero to 60 mg/l is soft water; 61 to 120 mg/1 is moderately hard; 121 to 180 mg/1 is hard and greater than 180 mg/1 is very hard water.

NITRATE: Nitrate is a from of nitrogen that is commonly derived from fertilizers and animal wastes. The recommended public drinking water standard is 10 mg/1 (which is 10 parts of nitrate \_\_\_\_\_ < / in one million parts of water). Nitrate levels greater than
10 mg/1 can be hazardous to infants under 6 months old. Nitrate levels greater than 20 mg/1 may have an adverse effect on livestock.

Your Well test results

In natural groundwater nitrate levels are low, usually under 2 or 3 mg/l. Nitrate is easily dissolved in water and it is not attracted to soil particles; as a result it is a good indicator of groundwater movement. High nitrate levels are sometimes an early warning that other contaminants may be in the water.

CHLORIDE: Chloride is common in various salts, both natural and man-made. In Wisconsin, uncontaminated groundwater usually has chloride levels below 5 to 10 mg/1. Greater amounts of chloride may be caused by leaking septic systems, road salt, fertilizer, animal wastes, or other waste material. Chloride is very easily dissolved in water and if it is found in high concentrations (greater than 10 mg/1) it may indicate contamination by other surface pollutants. It is not toxic, but can cause a salty taste if over 250 mg/1. High chlorides tend to speed up the corrosion rate of metals.

IRON: Iron is found naturally in some rocks and under certain conditions it can dissolve and move with groundwater. Iron is necessary to plants and animals but when present in high concentrations it may precipitate out of groundwater and form red stains on plumbing fixtures and laundry or it may give an unpleasant taste to the water. The recommended limit for iron in public water supplies is 3 mg/1.

0.1

pH: pH is a measure of the acidity or alkalinity of water. Water that is completely neutral has a pH of 7; pH less than 7 indicate acidic waters, while pH greater than 7 indicates alkaline water. Most groundwater has a pH between 6 and 8.5. Lower pH values may indicate corrosive water while higher pH values may indicate encrusting waters.

7.5

SODIUM: Sodium would be expected to be less than about 20 mg/1 samples from the county and often less than 10 mg/1. Higher values indicate a contamination source. There is no health standard for sodium in drinking water. Values in the hundreds may contribute to problems in people who should be on a low sodium diet. Only 1 out of every 7 samples was tested for sodium, so if this is blank you were not tested.

The combination of results provides a general description of your well water. Thanks again for your cooperation and if you have any questions about these results, please feel free to contact me.

Sincerely,

Jeff Timmons

County Conservationist

#### POLK COUNTY LAND CONSERVATION DEPARTMENT

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COMMITTEE MEMBERS - A. Stanley Anderson, Jerry Handlos, Walter (Bud) Lee
ASCS REPRESENTATIVE - Wilfred Kuhl

Charles Purdy1529A House Rt. 2, Box 161 Luck, WI 54853

I would like to thank you for letting us sample your well and I'm enclosing the results of the chemical analysis. You may recall that we sampled your well last year as a part of a project which is looking at general groundwater quality in the county. We sampled for standard water quality indicators and the results from your well are enclosed, along with a brief explanation of what the numbers mean. If one of your results has a minus sign in front of it, that parameter is present in amounts lower than lab analyses can detect.

SPECIFIC CONDUCTANCE: Specific conductance is a measure of the ability of water to conduct an electric current; it is directly related to the total amount of dissolved minerals in the water. It is a quick analysis that can detect changes in mineral content but does not give an indication of which minerals are present. Wells finished in different geologic units will have different conductivities, however, most of the wells that we sampled have conductivities between 150 and 400 umhos. Conductance is typically about twice the hardness of water as hardness ions are a good indicator of total dissolved minerals in most natural waters.

HARDNESS: Hardness is a measure of the amount of dissolved calcium and magnesium in the water. These minerals occur naturally in soils and as limestone and dolomite. Compounds of these two elements are responsible for most scaling in pipes and hot water heaters. Hardness is reported in milligrams/liter of calcium carbonate (mg/CaCO3). Zero to 60 mg/1 is soft water; 61 to 120 mg/1 is moderately hard; 121 to 180 mg/1 is hard and greater than 180 mg/1 is very hard water.

NITRATE: Nitrate is a from of nitrogen that is commonly derived from fertilizers and animal wastes. The recommended public drinking water standard is 10 mg/1 (which is 10 parts of nitrate in one million parts of water). Nitrate levels greater than 10 mg/1 can be hazardous to infants under 6 months old. Nitrate levels greater than 20 mg/1 may have an adverse effect on livestock.

Your Well test results

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In natural groundwater nitrate levels are low, usually under 2 or 3 mg/1. Nitrate is easily dissolved in water and it is not attracted to soil particles; as a result it is a good indicator of groundwater movement. High nitrate levels are sometimes an early warning that other contaminants may be in the water.

CHLORIDE: Chloride is common in various salts, both natural and man-made. In Wisconsin, uncontaminated groundwater usually has chloride levels below 5 to 10 mg/l. Greater amounts of chloride may be caused by leaking septic systems, road salt, fertilizer, animal wastes, or other waste material. Chloride is very easily dissolved in water and if it is found in high concentrations (greater than 10 mg/l) it may indicate contamination by other surface pollutants. It is not toxic, but can cause a salty taste if over 250 mg/l. High chlorides tend to speed up the corrosion rate of metals.

IRON: Iron is found naturally in some rocks and under certain conditions it can dissolve and move with groundwater. Iron is necessary to plants and animals but when present in high concentrations it may precipitate out of groundwater and form red stains on plumbing fixtures and laundry or it may give an unpleasant taste to the water. The recommended limit for iron in public water supplies is 3 mg/1.

pH: pH is a measure of the acidity or alkalinity of water. Water that is completely neutral has a pH of 7; pH less than 7 indicate acidic waters, while pH greater than 7 indicates alkaline water. Most groundwater has a pH between 6 and 8.5. Lower pH values may indicate corrosive water while higher pH values may indicate encrusting waters.

SODIUM: Sodium would be expected to be less than about 20 mg/1 samples from the county and often less than 10 mg/1. Higher values indicate a contamination source. There is no health standard for sodium in drinking water. Values in the hundreds may contribute to problems in people who should be on a low sodium diet. Only 1 out of every 7 samples was tested for sodium, so if this is blank you were not tested.

The combination of results provides a general description of your well water. Thanks again for your cooperation and if you have any questions about these results, please feel free to contact me.

Sincerely,

Jeff Timmons County Conservationist

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## PROPERTY PHOTOS













# PROPERTY PHOTOS









## PROPERTY PHOTOS













