




# Technical Memorandum

**To:** Nelsonville Village Board  
**From:** Peter Arntsen, MS, PH, PG; Senior Hydrogeologist/Sand Creek Consultants, Inc.   
**Date:** September 20, 2019  
**Re:** Village of Nelsonville Drinking Water  
Nelsonville, Wisconsin  
**Subject:** Evaluation of Data for “Source-Test” Private Wells

---

## INTRODUCTION

Residents of the Village of Nelsonville have concerns regarding the presence of elevated concentrations of nitrate-N (nitrate plus nitrite as nitrogen) in water samples collected from residential private wells located within the Village. Results from historic homeowner-submitted samples, a Village-wide sampling of private wells performed in fall 2018, and a “source-test” monitoring program implemented in winter 2018 - 2019, provide an overview of drinking water conditions within the Village. However, evaluation of conditions affecting individual wells is lacking.

## PURPOSE

The purpose of this Technical Memorandum is to provide a professional evaluation of data related to the wells that were included in a source-testing program implemented for the Village.

## BACKGROUND

### Previous Investigations

Anecdotal reports of individual results from Nelsonville private well samples provided the initial indication and concern regarding nitrate in Village drinking water supplies. A nitrate screening event implemented by the County during spring 2018 provided further evidence of elevated nitrate concentrations in Village drinking water samples. On behalf of the Village of Nelsonville, the Portage County Health and Human Services and Planning and Zoning Departments applied for and received an Environmental Health Tracking Grant from the Wisconsin Department of Health Services to provide sample collection and analysis for Village private wells. As part of this grant-funded study, samples from 60 of 77 private wells within the Village were collected and subsequently analyzed<sup>1</sup> for nitrate-N, chloride, pH, specific conductance, alkalinity, and total hardness. The analysis results showed that 28 of the 60 samples had concentrations of nitrate-N above the 10 mg/L (milligrams per liter, which is equivalent to parts-per-million) maximum contaminant level established for public drinking water supplies by the Environmental Protection Agency and adopted by the State of Wisconsin. Of the 28 samples, 25 were subsequently resampled and analyzed<sup>1</sup> for “source-test” substances. The source-test analyses included substances typically associated with domestic use by humans (e.g., artificial

---

<sup>1</sup> All laboratory analyses performed by the Water and Environmental Analysis Lab at the University of Wisconsin – Stevens Point.

sweeteners, nicotine and caffeine metabolites, and antibiotics) and other substances typically associated with agricultural practices (e.g., herbicide metabolites). The source-test results showed that all 25 samples had substances associated with agricultural practices, and eight samples had substances associated with domestic sources (McNelly and Garske, 2019).

### Physical Site Conditions

The Village of Nelsonville is located within the Tomorrow River Watershed in east-central Portage County (**Figure 1**). The topography is rolling hills of glacial moraine surrounding a shallow alluvial valley carved by the Tomorrow River. The Village encompasses approximately one square mile on the east valley slopes and alluvial plain of the Tomorrow River. An air photo of the Village and surrounding area is included as **Figure 2**.

The glacial moraine surrounding the river valley is classified as Till of the Maplevue Member of the Horicon Formation (Clayton, 1986). The geologic materials include unbedded sands and gravels with 5 to 10 percent silt and similar amounts of clay. The thickness of till is variable and uncertain but estimated to range from several feet to up to 30 feet. The till is draped over earlier landforms comprised primarily of sand. The geologic characterization is consistent with **well construction reports** (attached) for the area, which show particle sizes generally becoming coarser with depth. The depth to bedrock is greater than 150 feet.

Groundwater occurs in unconfined conditions at depths ranging from a few feet to over 50 feet, depending on ground elevations and proximity to the Tomorrow River. Groundwater flow is generally towards the river and in its direction of flow (**Figure 3**). Using representative values in the modified Darcy equation (see attached **Hydrogeologic Calculations**), the average linear groundwater flow velocity is calculated to be between 1 and 2 feet per day. The area typically receives around 30 inches of rain per year, with an estimated 10 inches going to groundwater recharge.

Supporting and supplemental information regarding groundwater and hydrologic system is included in the *Portage County Groundwater Management Plan* (Portage County, 2017).

For this evaluation, land use in the Nelsonville area was grouped into three categories: agricultural, natural, and residential/urban (see **Figure 4**).

### SOURCE-TEST WELLS

#### Results

Parcels with wells included in the source-testing and the inferred groundwater flow path to the wells are indicated on **Figure 5**. Analysis results for nitrate-N, septic indicators, and agricultural indicators are included in the attached **Table**.

Concentrations of nitrate-N in the source-test wells ranged from 10.4 mg/l to 23.7 mg/l. The distribution of the nitrate-N results is indicated on **Figure 6**.

Of the eight samples in which indicators of domestic (i.e., septic) impacts were detected, four are considered of lesser certainty because only one substance was detected in each, and the concentrations were near the level of detection for the analysis method. The four samples that are more likely impacted by substances of

domestic origin had two or more such substances detected at concentrations well above detection limits. The cumulative concentrations of domestic indicator substances for the four less-certain samples ranged from 12.1 ng/l (nanograms per liter, which is equivalent to parts-per-trillion) to 14.1 ng/l. The cumulative concentrations for the remaining four samples ranged from 95 ng/l to 1,169 ng/l. The distribution of the domestic-indicator results is shown on **Figure 7**.

All of the detections of agricultural indicators were for herbicide metabolites (breakdown products of alachlor, metolachlor, and/or atrazine; each are commonly used on corn and soybeans). One sample had one metabolite detected, three samples had two metabolites detected, and the other 21 had three or more metabolites. The total metabolite concentrations ranged from 330 ng/l to 11,260 ng/l. Similar to the less-certain domestic-indicator results, the sample with only one metabolite at a concentration near analysis detection limits is considered a less-certain indicator of agriculture impacts. The distribution of the agriculture-indicator results is shown on **Figure 8**.

### **Well Depth and Groundwater Flow**

Well depth and water level data were available for 16 of the 25 source-test wells. The well depths ranged from 23 to 95 feet, and the water depths ranged from 10 to 48 feet. Water column heights ranged from 13 to 62 feet (**Table**).

As a general rule, which likely applies to the Nelsonville aquifer, the greater the depth from which a water sample is collected, the farther upgradient is the point that the water entered into the aquifer. Thus, depth below the water table can be used to roughly calculate the time water has been in the aquifer. Assuming 10 inches of groundwater recharge per year, and an effective aquifer porosity of 0.25, a year's worth of recharge would occupy approximately 40 inches (3.3 feet) of aquifer thickness. Dividing the annual aquifer recharge thickness into the height of water column provides a value that correlates to the time the groundwater has been within the aquifer. Using these values and the heights of water in the wells, the age of groundwater at the deepest points in the wells would range from 4 to 19 years (**Table**).

The age of groundwater and its rate of flow can be used to calculate the distance the water sample in question would have travelled. Using the calculated water ages and an average linear groundwater flow velocity of 1.1 feet/day (408 feet/year; see **Hydrogeology Calculations**), groundwater at the bottom of the shortest water column would have travelled roughly 1,600 feet (about 0.3 mile), and groundwater at the base of the tallest water column would have travelled approximately 7,600 feet (a bit under a mile-and-a-half). Results are included in the **Table** and **Figure 9**.

[Note that this technique is not intended to suggest absolute locations, flow times, or flow paths, but rather to demonstrate the principles of the process and to indicate reasonable approximations.]

### **LAND USE AND NITRATE**

It is safe to assume that natural areas, such as forests, prairies, wetlands, and surface waters, are relatively minor contributors of nitrate to groundwater and that the majority of the groundwater nitrate in Nelsonville area originates from agricultural or residential/urban areas. Nitrate sources from agricultural areas include livestock manure and mineral fertilizers, which are often spread over most of the area within this land-use category. Nitrate sources from residential/urban areas include septic discharge and mineral fertilizers, which

originate from smaller fractions of the land-use area. As such, agricultural land use generally has the greater potential for nitrogen additions.

The application of nitrogen onto agricultural areas depends on a number of factors, including the type of crop, the planting density, the type of soil, and whether the field is irrigated or not. A guide often used when considering nitrogen application is the *Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin* (Laboski and Peters, 2012). The recommended application rates presented in the guideline are based primarily on economic considerations designed to maximize profit. In the Nelsonville area, a significant portion (up to 50 percent or more) of the nitrogen applied to agricultural land is lost to groundwater, mostly during the early spring and late fall, when crop growth and thus nutrient uptake are minimal.

In residential/urban areas, nitrogen additions from septic systems occur at a relatively constant rate of around 10 lbs/person/year, generally distributed evenly throughout the year. Nitrogen additions from yard and garden fertilizers are dependent on fertilizer use (whether they use it or not), and the application rates, which would presumably be similar to agricultural usage. In most instances, septic systems contribute much greater amounts of nitrogen to groundwater than do lawns and gardens. As such, nitrogen from urban/residential sources is dependent primarily on septic density (i.e., lot size). Residential/urban land use has a considerable fraction of total area that does not contribute nitrogen (e.g., runoff from impervious surfaces, natural areas), which thus serve as sources of "clean" (i.e., low nitrate) recharge.

Comparing the inferred groundwater flow paths towards the source-test wells (**Figure 5**) with the land use map (**Figure 4**) reveals that agriculture is the predominant land use along most groundwater flow paths, with natural lands comprising the second most abundant land use, and residential/urban the least. This suggests that agricultural practices have the greatest influence on degraded groundwater quality.

With regard to residential/urban contributions to the nitrate in source-test wells, the close proximity of this land use to most of the source-test wells restricts the extent to which said nitrate could reach the screened portion of the well. In other words, the well depths suggest that the groundwater samples originated farther upgradient, in areas dominated by agricultural or natural land use.

## CONCLUSIONS

Considering that groundwater is the primary source of drinking water in Nelsonville, that agriculture is the dominant land use in the recharge area for drinking water wells in this community, and that agricultural practices often result in significant loss of nitrate to groundwater, a conclusion of this evaluation is that the vast majority of nitrate present in Nelsonville drinking water is from agricultural sources. The ubiquity of herbicide metabolites detected in source-test wells supports this conclusion.

Residential/urban land uses in Nelsonville do contribute nitrate to the groundwater. However, with few exceptions, the quantity and location of contributions are such that the impact to drinking water supplies is minor.

## QUALIFICATIONS OF AUTHOR

**Pete Arntsen** is a senior hydrogeologist at Sand Creek Consultants, Inc., working at their Amherst office. He is a licensed professional hydrologist and a licensed professional geologist with 29 years of experience as a

private sector environmental scientist. Pete has over 30 years of experience with investigating groundwater in Portage County, first as an undergrad at the University of Wisconsin – Stevens Point College of Natural Resources, then as a grad student for Byron Shaw studying the effects of unsewered subdivisions on groundwater quality, and finally as a scientist investigating and remediating contaminants released to the environment throughout the state and Midwest.

## REFERENCES

- Clayton, L, 1986, *Pleistocene Geology of Portage County, Wisconsin*, Information Circular 56, Wisconsin Geological and Natural History Survey, University of Wisconsin – Extension, Madison, Wisconsin.
- Laboski, C.A.M. and J.B. Peters, 2012, *A2809: Nutrient application guidelines for field, vegetable, and fruit crops in Wisconsin*, University of Wisconsin-Extension, Madison, Wisconsin.
- McNelly, J. and G. Garske, 2019, *Village of Nelsonville Water Quality Project*, Portage County Planning and Zoning Department, Stevens Point, Wisconsin.
- Portage County, 2017, *Portage County Groundwater Management Plan*, Portage County Planning and Zoning Department, Stevens Point, Wisconsin.

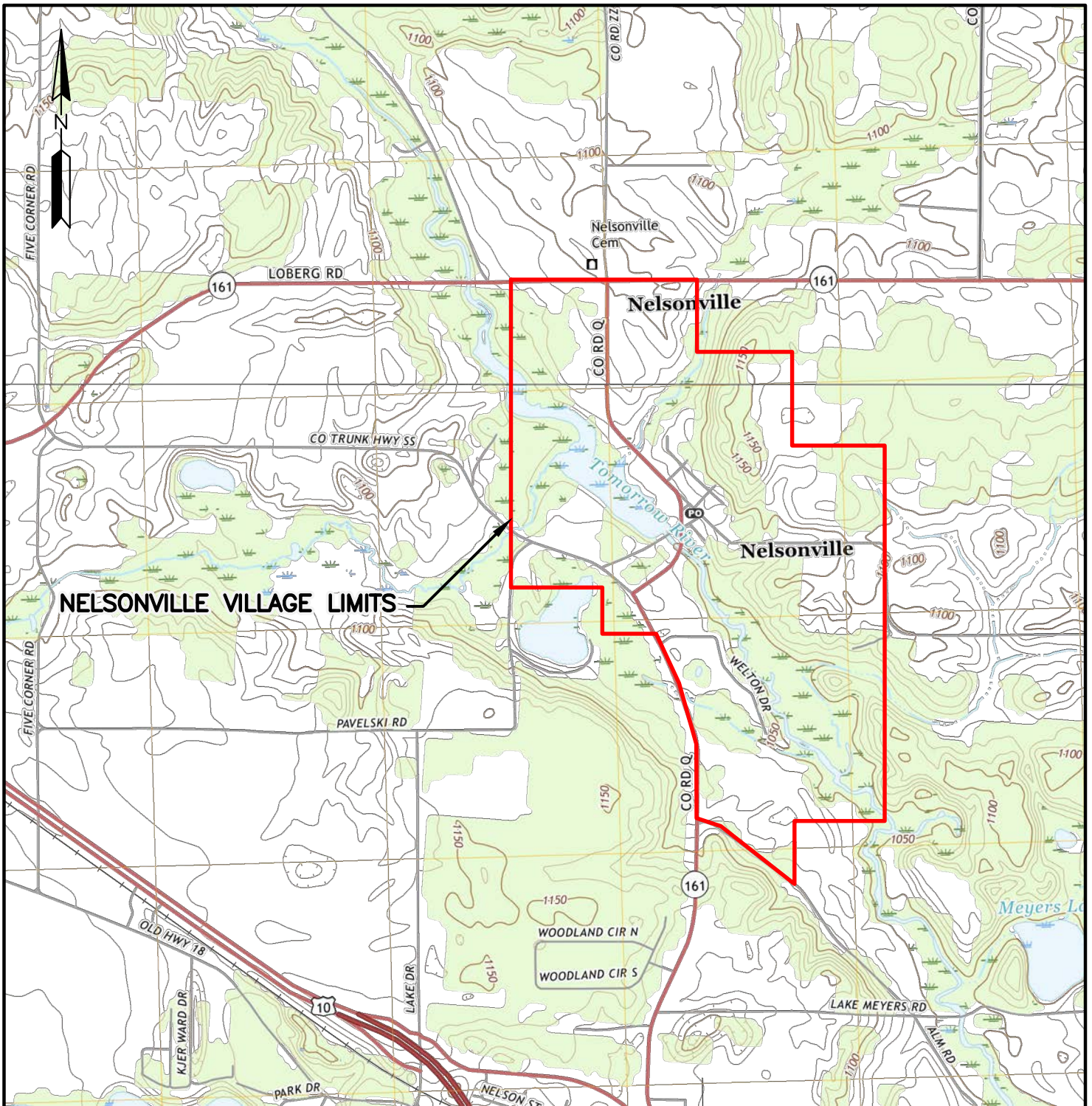
## LIST OF ATTACHMENTS

Figures  
Well Construction Reports  
Hydrogeologic Calculations  
Table

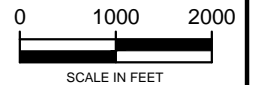
O:\1-Projects\Nelsonville Consulting\Wrk Plns\_Rpts\2019.09.19 SCC Nelsonville Tech Memo.docx

## Figures

- |                 |  |
|-----------------|--|
| <b>Figure 1</b> | <b>Site Location Map</b>   |
| <b>Figure 2</b> | <b>Airphoto of Village and Surrounding Area</b>                                  |
| <b>Figure 3</b> | <b>Water Table Contour Map</b>   |
| <b>Figure 4</b> | <b>Land Use Map</b>  |
| <b>Figure 5</b> | <b>Parcels with Wells Included in Source-Testing</b>                             |
| <b>Figure 6</b> | <b>Distribution of Nitrate Concentrations in Source-Test Wells</b>               |
| <b>Figure 7</b> | <b>Distribution of Septic Indicator Concentrations in Source-Test Wells</b>      |
| <b>Figure 8</b> | <b>Distribution of Agriculture Indicator Concentrations in Source-Test Wells</b> |
| <b>Figure 9</b> | <b>Calculated Recharge Distances and Flow Paths for Source-Test Wells</b>        |



**WISCONSIN**  
PORTAGE COUNTY



REFERENCE:  
USGS 7.5 MIN. NEW HOPE AND AMHERST WISCONSIN  
TOPOGRAPHIC QUADRANGLES DATED 2018.



Environmental and Geological  
Scientists and Engineers

**SITE LOCATION MAP**  
**EVALUATION OF DATA FOR "SOURCE-TEST"**  
**PRIVATE WELLS**  
**VILLAGE OF NELSONVILLE**  
**NELSONVILLE, WI**

DATE: SEPTEMBER 2019    DRAWN BY: KAP  
SCALE: 1"=2000'    APPROVED: PDA

**FIGURE 1**



Environmental and Geological  
Scientists and Engineers



**AIRPHOTO  
OF  
VILLAGE  
AND  
SURROUNDING  
AREA**



**EVALUATION OF DATA  
FOR "SOURCE-TEST"  
PRIVATE WELLS  
VILLAGE OF  
NELSONVILLE  
NELSONVILLE, WI**

DATE: SEPTEMBER 2019

SCALE: 1"=1750'

DRAWN BY: KAP

APPROVED : PDA

**FIGURE 2**



PHOTOSOURCE: PORTAGE COUNTY GIS  
WEBSITE. IMAGE DATED 2015.  
DATE ACCESSED SEPTEMBER 2019.

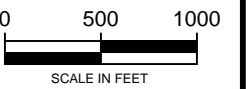




Environmental and Geological  
Scientists and Engineers



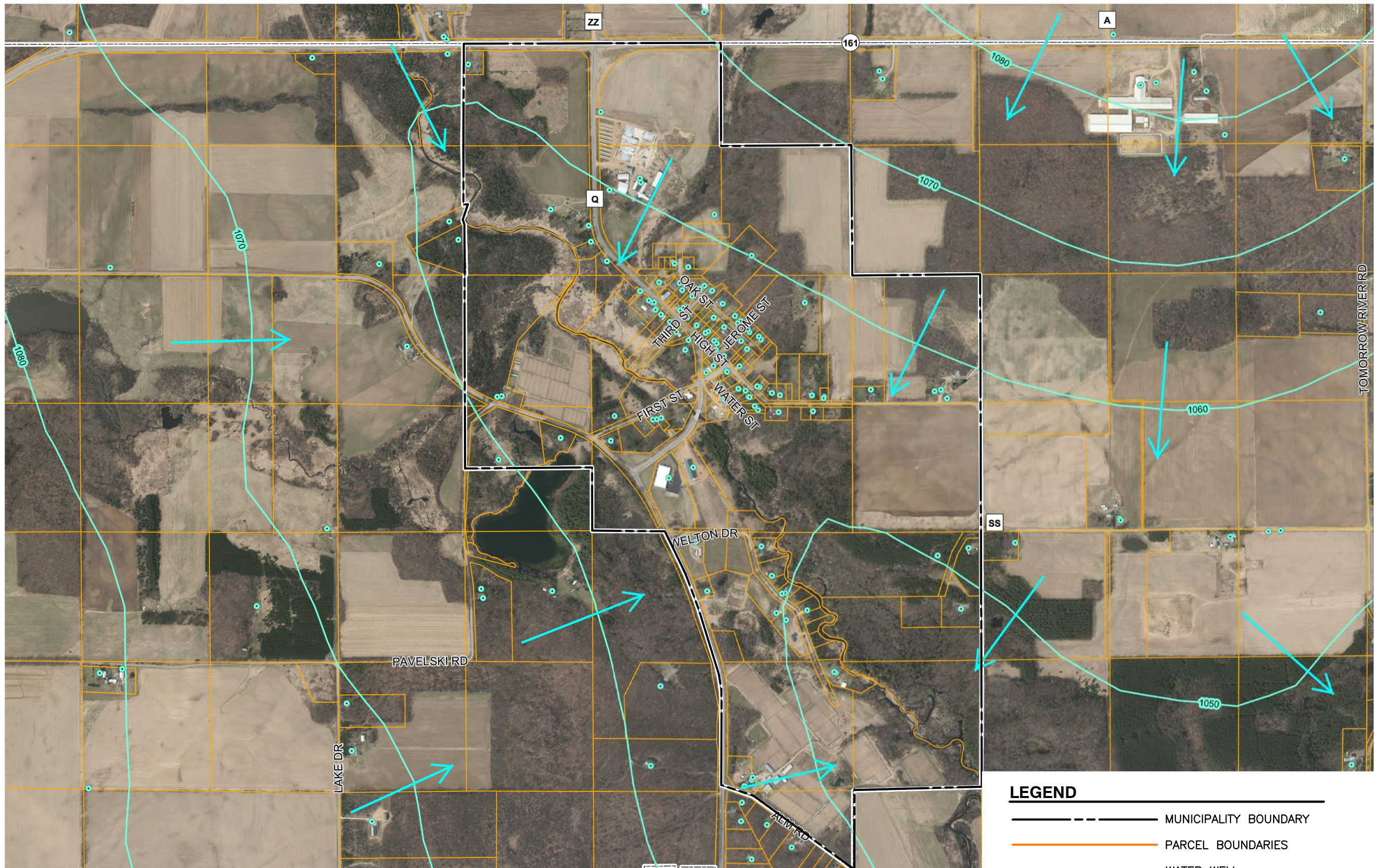
### WATER TABLE CONTOUR MAP



**EVALUATION OF DATA  
FOR "SOURCE-TEST"  
PRIVATE WELLS  
VILLAGE OF  
NELSONVILLE  
NELSONVILLE, WI**

DATE: SEPTEMBER 2019  
SCALE: 1"=1000'  
DRAWN BY: KAP  
APPROVED: PDA

**FIGURE 3**



**LEGEND**

- MUNICIPALITY BOUNDARY
- PARCEL BOUNDARIES
- WATER WELL
- GROUNDWATER CONTOUR AND ELEVATION
- GROUNDWATER FLOW DIRECTION

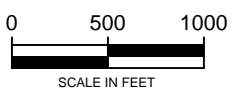
PHOTOSOURCE: PORTAGE COUNTY GIS WEBSITE. IMAGE DATED 2015. DATE ACCESSED SEPTEMBER 2019.



Environmental and Geological  
Scientists and Engineers



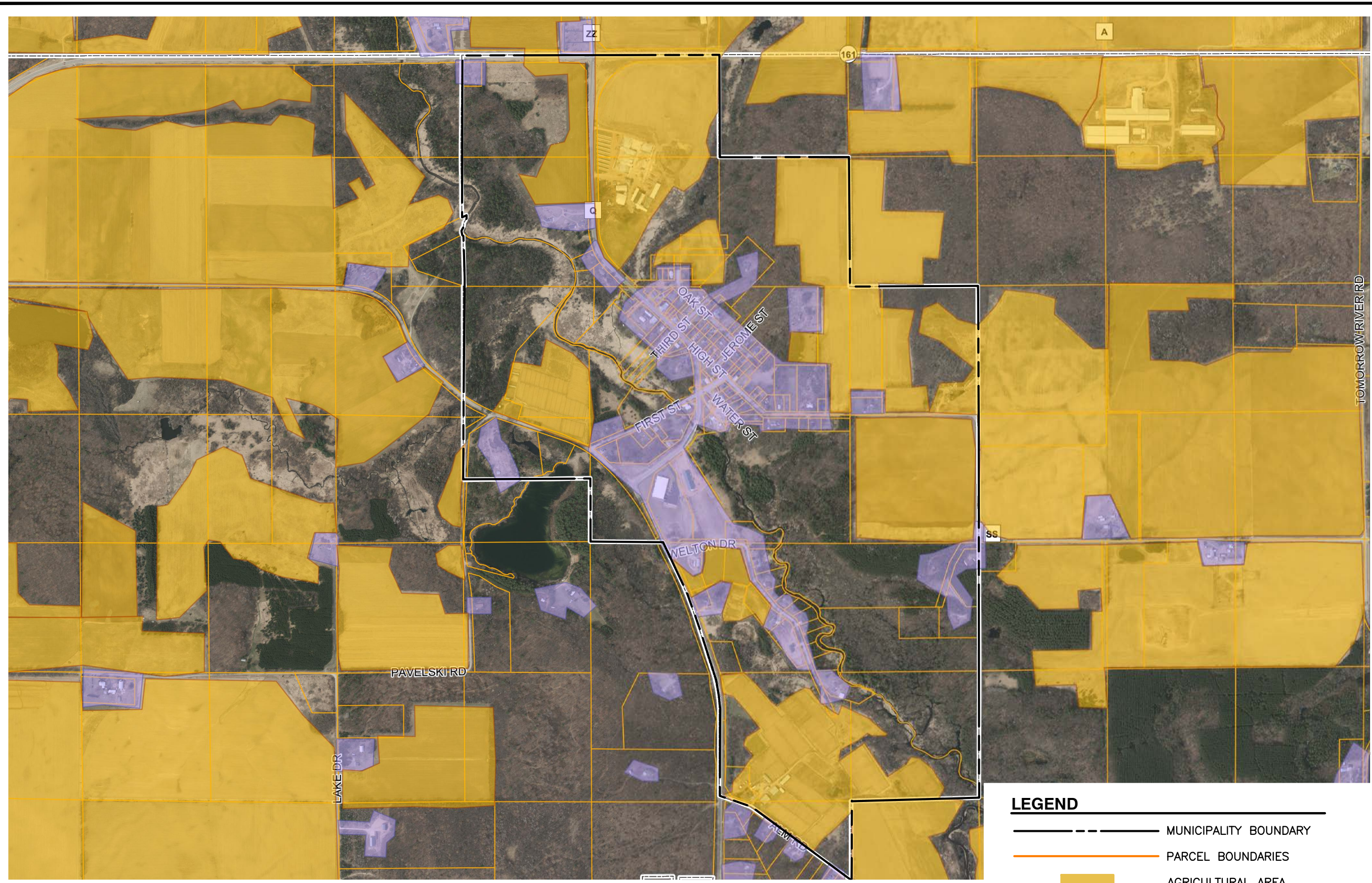
**LAND USE  
MAP**








**EVALUATION OF DATA  
FOR "SOURCE-TEST"  
PRIVATE WELLS  
VILLAGE OF  
NELSONVILLE  
NELSONVILLE, WI**

DATE: SEPTEMBER 2019  
SCALE: 1"=1000'  
DRAWN BY: KAP  
APPROVED: PDA

**FIGURE 4**



- LEGEND**
-  MUNICIPALITY BOUNDARY
  -  PARCEL BOUNDARIES
  -  AGRICULTURAL AREA
  -  URBAN/RESIDENTIAL AREA
  -  NATURAL AREA

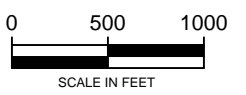
PHOTOSOURCE: PORTAGE COUNTY GIS  
WEBSITE. IMAGE DATED 2015.  
DATE ACCESSED SEPTEMBER 2019.



Environmental and Geological  
Scientists and Engineers



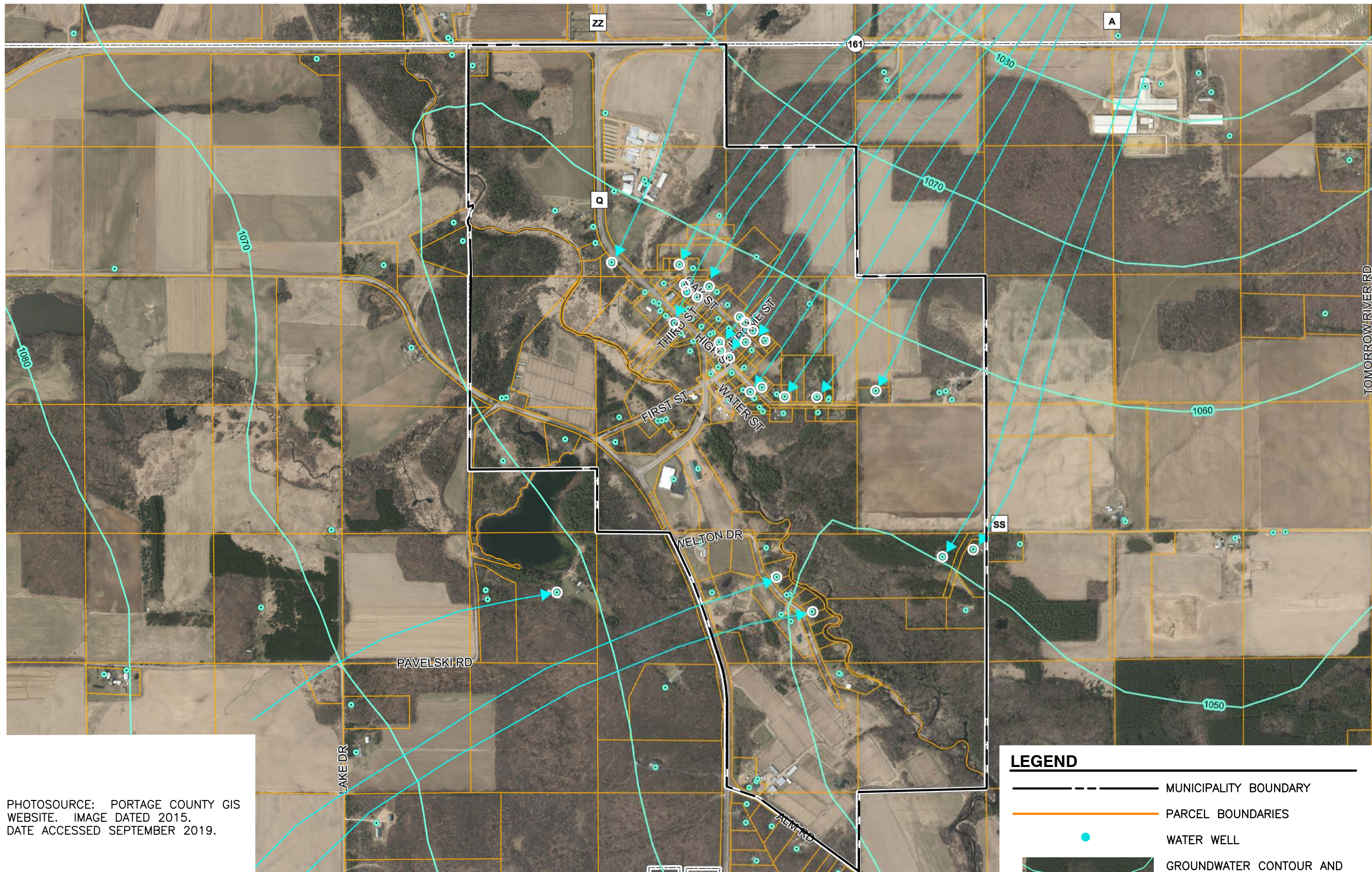
**PARCELS  
WITH  
WELLS  
INCLUDED  
IN  
SOURCE-TESTING**



**EVALUATION OF DATA  
FOR "SOURCE-TEST"  
PRIVATE WELLS  
VILLAGE OF  
NELSONVILLE  
NELSONVILLE, WI**

DATE: SEPTEMBER 2019  
SCALE: 1"=1000'  
DRAWN BY: KAP  
APPROVED: PDA

**FIGURE 5**



PHOTOSOURCE: PORTAGE COUNTY GIS WEBSITE. IMAGE DATED 2015. DATE ACCESSED SEPTEMBER 2019.

**LEGEND**

- MUNICIPALITY BOUNDARY
- PARCEL BOUNDARIES
- WATER WELL
- GROUNDWATER CONTOUR AND ELEVATION
- SOURCE-TEST WELL LOCATION
- INFERRED GROUNDWATER FLOW DIRECTION



Environmental and Geological  
Scientists and Engineers



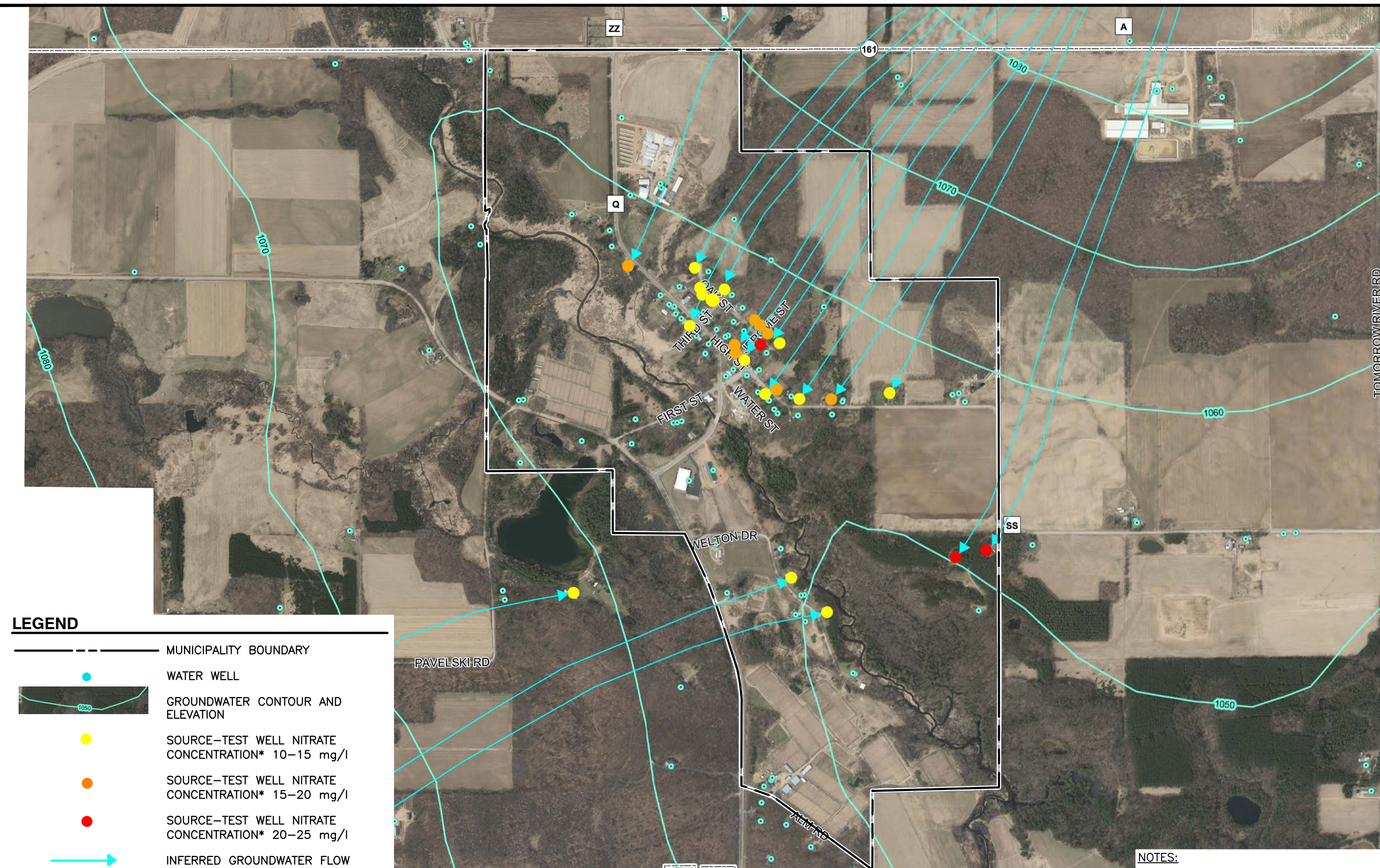
**DISTRIBUTION OF NITRATE CONCENTRATIONS IN SOURCE-TEST WELLS**



**EVALUATION OF DATA FOR "SOURCE-TEST" PRIVATE WELLS VILLAGE OF NELSONVILLE NELSONVILLE, WI**

DATE: SEPTEMBER 2019  
SCALE: 1"=1000'  
DRAWN BY: KAP  
APPROVED: PDA

**FIGURE 6**



**LEGEND**

- MUNICIPALITY BOUNDARY
- WATER WELL
- GROUNDWATER CONTOUR AND ELEVATION
- SOURCE-TEST WELL NITRATE CONCENTRATION\* 10-15 mg/l
- SOURCE-TEST WELL NITRATE CONCENTRATION\* 15-20 mg/l
- SOURCE-TEST WELL NITRATE CONCENTRATION\* 20-25 mg/l
- INFERRED GROUNDWATER FLOW DIRECTION

\*SAMPLE COLLECTED OCTOBER 2018.

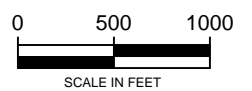
- NOTES:**
- PHOTOSOURCE: PORTAGE COUNTY GIS WEBSITE. IMAGE DATED 2015.
  - DATE ACCESSED SEPTEMBER 2019. RESULTS ARE NITRATE AS NITROGEN GROUNDWATER RESULTS (mg/l)



Environmental and Geological  
Scientists and Engineers



**DISTRIBUTION  
OF SEPTIC  
INDICATOR  
CONCENTRATIONS  
IN  
SOURCE-TEST  
WELLS**



**EVALUATION OF DATA  
FOR "SOURCE-TEST"  
PRIVATE WELLS  
VILLAGE OF  
NELSONVILLE  
NELSONVILLE, WI**

DATE: SEPTEMBER 2019

SCALE: 1"=1000'

DRAWN BY: KAP

APPROVED: PDA

**FIGURE 7**



**LEGEND**

- MUNICIPALITY BOUNDARY
- WATER WELL
- GROUNDWATER CONTOUR AND ELEVATION
- TOTAL DOMESTIC INDICATOR SUBSTANCE CONCENTRATION NO DETECT
- TOTAL DOMESTIC INDICATOR SUBSTANCE CONCENTRATION\* <50 ng/l
- TOTAL DOMESTIC INDICATOR SUBSTANCE CONCENTRATION\* 50-200 ng/l
- TOTAL DOMESTIC INDICATOR SUBSTANCE CONCENTRATION\* >200 ng/l
- INFERRED GROUNDWATER FLOW DIRECTION

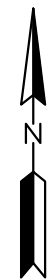
\*SAMPLE COLLECTED JANUARY 2019

**NOTES:**

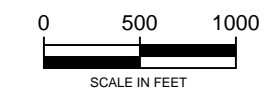
1. PHOTOSOURCE: PORTAGE COUNTY GIS WEBSITE. IMAGE DATED 2015. DATE ACCESSED SEPTEMBER 2019.
2. RESULTS ARE NITRATE AS NITROGEN GROUNDWATER RESULTS (ng/l)



Environmental and Geological  
Scientists and Engineers



**DISTRIBUTION OF AGRICULTURE INDICATOR CONCENTRATIONS IN SOURCE-TEST WELLS**



**EVALUATION OF DATA FOR "SOURCE-TEST" PRIVATE WELLS VILLAGE OF NELSONVILLE NELSONVILLE, WI**

DATE:	SEPTEMBER 2019
SCALE:	1"=1000'
DRAWN BY:	KAP
APPROVED:	PDA

**FIGURE 8**



**LEGEND**

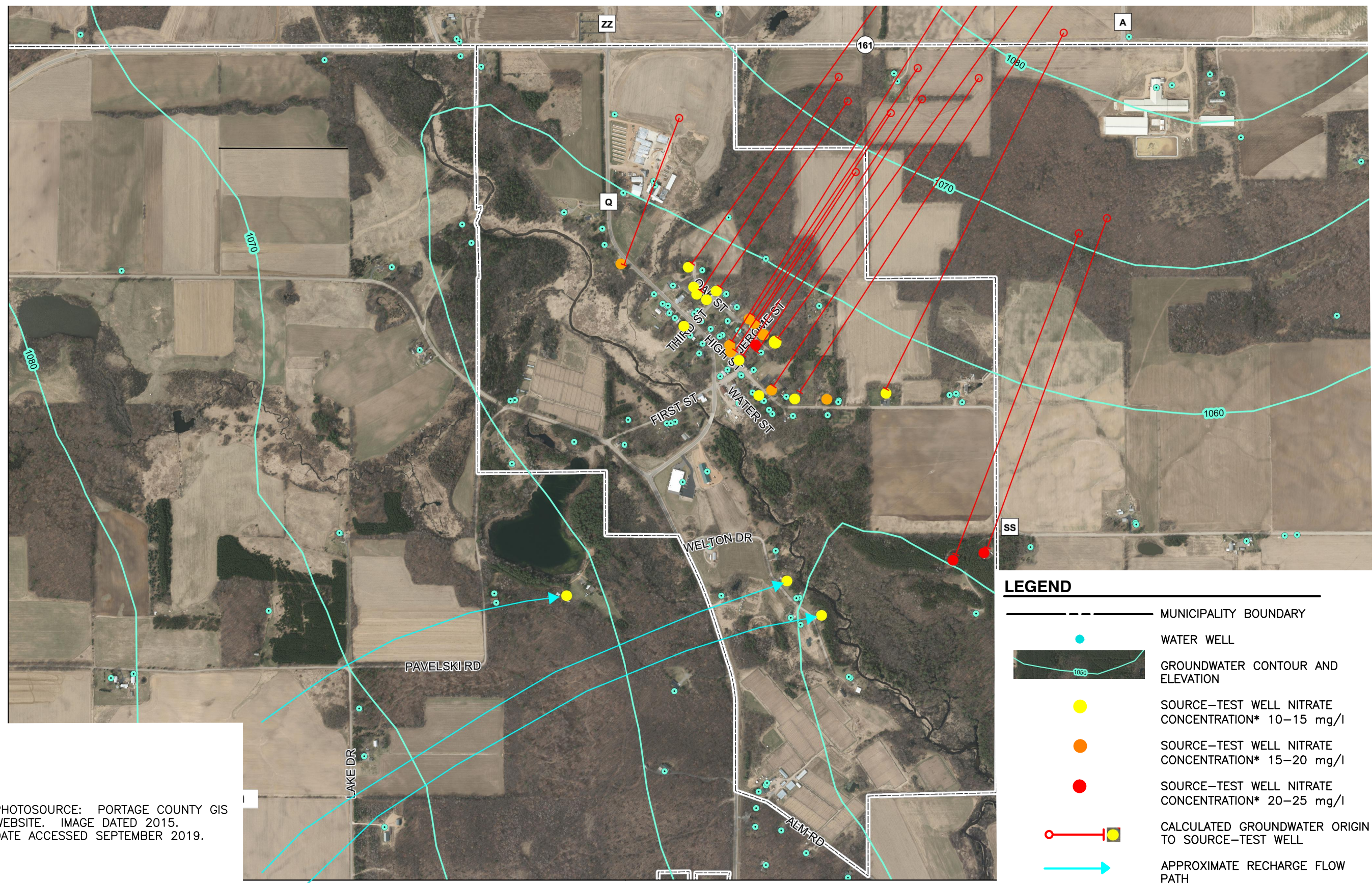
- MUNICIPALITY BOUNDARY
- WATER WELL
- GROUNDWATER CONTOUR AND ELEVATION
- TOTAL HERBICIDE METABOLITE SUBSTANCE CONCENTRATION\* <50 ng/l
- TOTAL HERBICIDE METABOLITE SUBSTANCE CONCENTRATION\* 500-2,000 ng/l
- TOTAL HERBICIDE METABOLITE SUBSTANCE CONCENTRATION\* 2,000-5,000 ng/l
- TOTAL HERBICIDE METABOLITE SUBSTANCE CONCENTRATION\* >5,000 ng/l
- INFERRED GROUNDWATER FLOW DIRECTION

\*SAMPLE COLLECTED JANUARY 2019

- NOTES:**
- PHOTOSOURCE: PORTAGE COUNTY GIS WEBSITE. IMAGE DATED 2015. DATE ACCESSED SEPTEMBER 2019.
  - RESULTS ARE NITRATE AS NITROGEN GROUNDWATER RESULTS (ng/l)

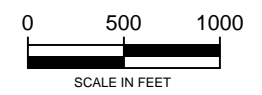


**CALCULATED RECHARGE DISTANCES AND FLOW PATHS FOR SOURCE-TEST WELLS**



**LEGEND**

- MUNICIPALITY BOUNDARY
- WATER WELL
- GROUNDWATER CONTOUR AND ELEVATION
- SOURCE-TEST WELL NITRATE CONCENTRATION\* 10-15 mg/l
- SOURCE-TEST WELL NITRATE CONCENTRATION\* 15-20 mg/l
- SOURCE-TEST WELL NITRATE CONCENTRATION\* 20-25 mg/l
- CALCULATED GROUNDWATER ORIGIN TO SOURCE-TEST WELL
- APPROXIMATE RECHARGE FLOW PATH



PHOTOSOURCE: PORTAGE COUNTY GIS WEBSITE. IMAGE DATED 2015. DATE ACCESSED SEPTEMBER 2019.

**EVALUATION OF DATA FOR "SOURCE-TEST" PRIVATE WELLS VILLAGE OF NELSONVILLE NELSONVILLE, WI**

DATE: SEPTEMBER 2019  
SCALE: 1"=1000'  
DRAWN BY: KAP  
APPROVED: PDA

\*SAMPLE COLLECTED OCTOBER 2018.

**FIGURE 9**

## **Well Construction Reports**



WELL CONSTRUCTOR'S REPORT  
FORM 3300-15

JAN 18 1976

NOTE

WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701

1. COUNTY Portage CHECK ONE  Town  Village  City NAME Amherst

2. LOCATION - 1/4 Section Section Township Range 3. OWNER AT TIME OF DRILLING  
NW 1/4 OF NW 1/4 9 23N 10E Michael Tanner  
OR - Grid or street no. Street name ADDRESS  
Box 37

AND - If available subdivision name, lot & block no. POST OFFICE  
Nelsonville, Wis. 54458

4. Distance in feet from well to nearest: BUILDING SANITARY SEWER FLOOR DRAIN FOUNDATION DRAIN WASTE WATER DRAIN  
(Record answer in appropriate block) 15 C.I. TILE C.I. TILE SEWER CONNECTED INDEPENDENT C.I. TILE  
\*\*\*\*\*

CLEAR WATER DRAIN SEPTIC TANK PRIVY SEEPAGE PIT ABSORPTION FIELD BARN SILO ABANDONED WELL SINK HOLE  
C.I. TILE \*\*\*\*\* 57 \*\*\*\*\* 67 \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Home

6. DRILLHOLE			9. FORMATIONS		
Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	20			
		68			
4	20	68			

7. CASING, LINER, CURBING, AND SCREEN			
Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	new II# T&C R&D steel	Surface	64
4	I2 slot stainless steel screen	64	68

8. GROUT OR OTHER SEALING MATERIAL Kind From (ft.) To (ft.)  
Drill cuttings Surface 20

10. TYPE OF DRILLING MACHINE USED  
 Cable Tool  Direct Rotary  Reverse Rotary  
 Rotary - air w/drilling mud  Rotary - hammer with drilling mud & air  Jetting with  Air  Water

Well construction completed on July 10 1975

11. MISCELLANEOUS DATA  
Yield test: 1 Hrs. at 15 GPM  
Well is terminated 12 inches  above  below final grade  
Well disinfected upon completion  Yes  No  
Well sealed watertight upon completion  Yes  No

Water sample sent to Madison laboratory on: Jan. 14. 1976

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

SIGNATURE Charles J Johnson Registered Well Driller COMPLETE MAIL ADDRESS  
2169 Gen. Del. Ogdensburg, Wis. 54962

COLIFORM TEST RESULT GAS - 24 HRS. GAS - 48 HRS. CONFIRMED REMARKS  
905834  
plot

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER CF318**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner <b>CLIFFORD PATORA</b>		Telephone Number <b>-824-2678</b>	
Mailing Address <b>9548 CTY SS</b>			
City <b>NELSONVILLE</b>		State <b>WI</b>	Zip Code <b>54458</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>04/07/1990</b>	

1. Well Location <input type="checkbox"/> Town <input type="checkbox"/> City <input checked="" type="checkbox"/> Village of <b>NELSONVILLE</b>	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number  
**9548 CTY SS**

Subdivision Name <b>LOCATED IN THE VILLAGE</b>	Lot #	Block #
---	-------	---------

Well Constructor (Business Name) <b>SOIK R J PLBG @ HTG INC</b>	License # <b>2868</b>	Facility ID Number (Public Wells)
Address <b>PO BOX 265</b>		Public Well Plan Approval # W--
City <b>STEVENS POINT</b>	State <b>WI</b>	Zip Code <b>54481-0265</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>.5 gpm/ft</b>

Gov't Lot #	or	SW 1/4 of	SE 1/4 of
Section <b>5</b>	T	<b>23 N; R 10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction	Lat/Long Method <b>GPS008</b>
of previous unique well # constructed in Reason for replaced or Reconstructed Well?	

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)  
 High capacity Well?  Yes  No  
 Property?  Yes  No

Drilled  Driven Point  Jetted  Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:  
 Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic  Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline  Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain  
 Cast Iron or Plastic  Other
- Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Collector or Street Sewer:  
 Sanitary units in diam.  
 Storm  =< 6  > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
From Dia. (in.)	To (ft.)		
<b>6</b>	<b>0</b>	<b>76</b>	
		<input type="checkbox"/> ---1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> ---2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> ---3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> ---4. Drill-Through Casing Hammer	
		<input type="checkbox"/> ---5. Reverse Rotary	
		<input checked="" type="checkbox"/> ---6. Cable-tool Bit <b>6</b> in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology Type, Caving/Noncaving, Color, Hardness, etc.	From (ft.)	To (ft.)
--S- SAND	0	20
-NSC FINE SAND @ CLAY	26	65
-NS- FINE SAND	65	76

6. Casing, Liner, Screen Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
<b>6</b>	<b>BLK STEEL PIPE PE 18.97 LBS/FT ASTM A-53 MADE IN USA NEW PIPE</b>	<b>0</b>	<b>69</b>
<b>6</b>	<b>X 7 X 12 JOHNSON SS</b>	<b>67</b>	<b>76</b>
Dia. (in.)	Screen type, material & slot size		

9. Static Water Level ft. above ground surface <b>22</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>12</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>35</b> ft. below surface Pumping at <b>6</b> GPM for <b>4</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method:  
 Method: From (ft.) To (ft.) # Sacks Cement  
 Kind of Sealing Material

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
 Yes  No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller <b>WES</b>	Date signed <b>05/08/1990</b>
Signature of Drill Rig Operator (Mandatory unless same as above) <b>PF</b>	Date signed <b>05/09/1990</b>

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued  Yes  No



**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER EM480**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner <b>WEISBROT, BARBARA</b>		Telephone <b>715-824-3746</b> Number	
Mailing Address <b>PO BOX 1</b>			
City <b>NELSONVILLE</b>		State <b>WI</b>	Zip Code <b>54458</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>08/11/1994</b>	

1. Well Location <input type="checkbox"/> Town <input type="checkbox"/> City <input checked="" type="checkbox"/> Village of <b>NELSONVILLE</b>	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number <b>3021 OAK</b>
---

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) <b>EDWARD J GRITZNER</b>	License # <b>273</b>	Facility ID Number (Public Wells)
Address <b>8658 RILEY RD</b>		Public Well Plan Approval # W--
City <b>AMHERST</b>	State <b>WI</b>	Zip Code <b>54406-9161</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>3.1</b> gpm/ft

Gov't Lot #	or	<b>SE</b> 1/4 of	<b>NE</b> 1/4 of
Section <b>5</b>	T	<b>23</b> N; R <b>10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction	Lat/Long Method <b>GPS008</b>
---	----------------------------------

of previous unique well # \_\_\_\_\_ constructed in  
 Reason for replaced or Reconstructed Well?  
**BRINGING UP TO CODE**

3. Well serves <b>1</b> # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:
---

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:  
 Well located in floodplain?  Yes  No  
 Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic  Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline  Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain  
 Cast Iron or Plastic  Other
- Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Collector or Street Sewer:  
 Sanitary \_\_\_\_\_ units \_\_\_\_\_ in. diam.  
 Storm \_\_\_\_\_ =< 6 \_\_\_\_\_ > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
Dia. (in.)	From (ft.)	To (ft.)	
<b>10</b>	<b>0</b>	<b>20</b>	
			<input type="checkbox"/> --1. Rotary - Mud Circulation-----
			<input type="checkbox"/> --2. Rotary - Air-----
			<input type="checkbox"/> --3. Rotary - Air and Foam-----
			<input type="checkbox"/> --4. Drill-Through Casing Hammer
			<input type="checkbox"/> --5. Reverse Rotary
			<input checked="" type="checkbox"/> --6. Cable-tool Bit <b>10</b> in. dia-----
			<input type="checkbox"/> 7. Dual Rotary
			<input type="checkbox"/> 8. Temp. Outer Casing _____ in. dia. _____ depth (ft.) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, why not?

8. Geology		From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.			
<b>K-I-</b>	<b>BLACK DIRT</b>	<b>0</b>	<b>1</b>
<b>Y-C-</b>	<b>YELLOW CLAY</b>	<b>1</b>	<b>2.5</b>
<b>--PG</b>	<b>HARDPAN GRAVEL</b>	<b>2.5</b>	<b>8</b>
<b>--Y-</b>	<b>SAND @ GRAVEL</b>	<b>8</b>	<b>26</b>
<b>--S-</b>	<b>SAND</b>	<b>26</b>	<b>44.6</b>

6. Casing, Liner, Screen Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
--	--	------------	----------

<b>6</b>	<b>6.625 X .280 A53 PE WELDED JOINT SAWHILL</b>	<b>0</b>	<b>41</b>
<b>6</b>	<b>TELESCOPING STAINLESS 10 SLOT</b>	<b>41</b>	<b>46</b>

9. Static Water Level ft. above ground surface <b>27.2</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>12</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>32</b> ft. below surface Pumping at <b>15</b> GPM for <b>1</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method: Method: <b>GRAVITY</b> Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
<b>BENTONITE</b>	<b>0</b>	<b>0</b>	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
 Yes  No If no, explain: **BY OTHERS**

13. Signature of the Well Constructor or Supervisory Driller <b>EG</b>	Date signed <b>08/11/1994</b>
---	----------------------------------

**Well Construction Report For  
WISCONSIN UNIQUE WELL NUMBER HW205**

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner **MINTON, CHARLES** Telephone **715-824-2650**  
Number

Mailing Address **PO BOX 45**

City **NELSONVILLE** State **WI** Zip Code **54458**

County of Well Location **Portage** County Well Permit No. **W** Well Completion Date **08/16/1994**

Well Constructor (Business Name) **EDWARD J GRITZNER** License # **273** Facility ID Number (Public Wells)

Address **8658 RILEY RD** Public Well Plan Approval #  
W--

City **AMHERST** State **WI** Zip Code **54406-9161** Date of Approval (mm/dd/yyyy)

Hicap Permanent well # Common Well # Specific Capacity **3.4 gpm/ft**

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)  
High capacity Well?  Yes  No  
Property?  Yes  No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

- 1. Landfill
- 7 2. Building Overhang
- 46 3. Septic  Holding Tank
- 55 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank

8. Shoreline  Swimming Pool

- 9. Downspout/Yard Hydrant
- 10. Privy
- 11. Foundation Drain to Clearwater
- 12. Foundation Drain to Sewer
- 13. Building Drain
  - Cast Iron or Plastic  Other
- 14. Building Sewer  Gravity  Pressure
  - Cast Iron or Plastic  Other
- 15. Collector or Street Sewer:
  - Sanitary units in. diam.
  - Storm  =< 6  > 6
- 16. Clearwater Sump

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe  Gravity  Pressure
  - Cast Iron or Plastic  Other
- 23. Other Manure Storage
- 24. Ditch
- 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
Dia. (in.)	From (ft.)	To (ft.)			
10	0	20	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>	
			<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>	
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>	
			<input type="checkbox"/> --4. Drill-Through Casing Hammer	<input type="checkbox"/>	
			<input type="checkbox"/> --5. Reverse Rotary	<input type="checkbox"/>	
			<input checked="" type="checkbox"/> --6. Cable-tool Bit 10 in. dia-----	<input type="checkbox"/>	
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)		
			Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
			If no, why not?		

8. Geology		From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.			
<b>K-I-</b>	<b>BLACK DIRT</b>	<b>0</b>	<b>1</b>
<b>--PG</b>	<b>HARDPAN GRAVEL @ COBBLES</b>	<b>1</b>	<b>18</b>
<b>--Y-</b>	<b>SAND @ GRAVEL</b>	<b>18</b>	<b>26</b>
<b>--SG</b>	<b>SAND @ SOME GRAVEL</b>	<b>26</b>	<b>59</b>

6. Casing, Liner, Screen		Material, Weight, Specification		From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly				
6	6.25 X .280 A53 PE WELDED JOINT SAWHILL	0	55		

Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)
6	TELESCOPING STAINLESS 10 SLOT	55	59

7. Grout or Other Sealing Material. Method:			
Method: GRAVITY	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			
BENTONITE	0	0	

9. Static Water Level		11. Well is:	
ft. above ground surface		<input checked="" type="checkbox"/> Above Grade	
44.5	ft. below ground surface	12 in.	<input type="checkbox"/> Below Grade
10. Pump Test		Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Level	48 ft. below surface	Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping at	12 GPM for 1 hours	Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
 Yes  No If no, explain: **BY OTHERS**

13. Signature of the Well Constructor or Supervisory Driller Date signed  
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed  
**EG** **08/16/1994**

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued  Yes  No

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER HP746**

State of WI - Private Water Systems - DG/2 Form 3300-77A  
 Department of Natural Resources, Box 7921 (R 8/00)  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Property Owner <b>CALVER, JENNIFER</b>		Telephone <b>715-824-3941</b> Number	
Mailing Address <b>3109 HIGH ST</b>			
City <b>NELSONVILLE</b>		State <b>WI</b>	Zip Code <b>54458</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>09/23/1994</b>	

1. Well Location <input type="checkbox"/> Town <input type="checkbox"/> City <input checked="" type="checkbox"/> Village of <b>NELSONVILLE</b>		Fire # (if available)
Grid or Street Address or Road Name and Number		
Subdivision Name	Lot # <b>5</b>	Block # <b>1</b>

Well Constructor (Business Name) <b>ROBERT PETRICK</b>		License # <b>125</b>	Facility ID Number (Public Wells)
Address <b>3663 GRAY LOG LN</b>		Public Well Plan Approval # W--	
City <b>STEVENS POINT</b>	State <b>WI</b>	Zip Code <b>54481-9704</b>	Date of Approval (mm/dd/yyyy)
Hicap Permanent well #	Common Well #	Specific Capacity <b>15</b> gpm/ft	

Gov't Lot #	or	<b>NE</b> 1/4 of	<b>SE</b> 1/4 of
Section <b>5</b>	T	<b>23</b> N; R <b>10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		
2. Well Type		Lat/Long Method <b>GPS008</b>	
<input checked="" type="checkbox"/> Replacement		<input type="checkbox"/> Reconstruction	
of previous unique well # constructed in Reason for replaced or Reconstructed Well? <b>NO WATER</b>			

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)  
 High capacity Well?  Yes  No  
 Property?  Yes  No

Drilled  Driven Point  Jetted  Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:  
 Well located in floodplain?  Yes  No  
 Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain
  - Cast Iron or Plastic
  - Other
- Building Sewer
  - Gravity
  - Pressure
  - Cast Iron or Plastic
  - Other
- Collector or Street Sewer:
  - Sanitary units in. diam.
  - Storm  =< 6  > 6

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe
  - Gravity
  - Pressure
  - Cast Iron or Plastic
  - Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
Dia. (in.)	From (ft.)	To (ft.)			
<b>4</b>	<b>0</b>	<b>68</b>	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>	
			<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>	
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>	
			<input type="checkbox"/> --4. Drill-Through Casing Hammer		
			<input type="checkbox"/> --5. Reverse Rotary		
			<input checked="" type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>	
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)		
			Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
			If no, why not?		

8. Geology		From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.			
--I-	<b>TOP SOIL</b>	<b>0</b>	<b>3</b>
--S-	<b>SAND</b>	<b>3</b>	<b>11</b>
--GS	<b>ROCK @ SAND</b>	<b>11</b>	<b>40</b>
--Y-	<b>SAND @ GRAVEL</b>	<b>40</b>	<b>72</b>

6. Casing, Liner, Screen		Material, Weight, Specification		From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly				
<b>4</b>	<b>SAWHILL MERCER ASTMA NO 589 237 WALL T@C 11 LB PF</b>	<b>0</b>	<b>68</b>		
<b>3.875</b>	<b>HOWARD SMITH SS</b>	<b>68</b>	<b>72</b>		

9. Static Water Level ft. above ground surface <b>48</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>12</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>49</b> ft. below surface Pumping at <b>15</b> GPM for <b>15</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method:  
 Method:  Cement  Grout  Other  
 From (ft.) To (ft.) # Sacks Cement

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
 Yes  No If no, explain: **HE WILL**

13. Signature of the Well Constructor or Supervisory Driller  
**BP**  
 Date signed

Signature of Drill Rig Operator (Mandatory unless same as above)  
**BP**  
 Date signed **11/01/1994**

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER KV882**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner <b>STRATTEN, MARGARET</b>		Telephone <b>715-824-2648</b> Number	
Mailing Address <b>9515 JEROME</b>			
City <b>NELSONVILLE</b>		State <b>WI</b>	Zip Code <b>54458</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>06/25/1996</b>	

1. Well Location <input type="checkbox"/> Town <input type="checkbox"/> City <input checked="" type="checkbox"/> Village of <b>NELSONVILLE</b>	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number <b>9515 JEROME</b>
--

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) <b>EDWARD J GRITZNER</b>	License # <b>273</b>	Facility ID Number (Public Wells)
Address <b>8658 RILEY RD</b>		Public Well Plan Approval # W--
City <b>AMHERST</b>	State <b>WI</b>	Zip Code <b>54406-9161</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>2 gpm/ft</b>

Gov't Lot #	or	<b>NE</b> 1/4 of	<b>SE</b> 1/4 of
Section <b>5</b>	T	<b>23 N; R 10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction	Lat/Long Method <b>GPS008</b>
---	----------------------------------

of previous unique well #	constructed in
Reason for replaced or Reconstructed Well? <b>LOW VOLUME</b>	

3. Well serves <b>1</b> # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:
---

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic  Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline  Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain  
 Cast Iron or Plastic  Other
- Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Collector or Street Sewer:  
 Sanitary units in diam.  
 Storm  =< 6  > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
From (ft.)	To (ft.)		
6	0	70	
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	
		<input type="checkbox"/> --5. Reverse Rotary	
		<input checked="" type="checkbox"/> --6. Cable-tool Bit <b>6</b> in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
<b>K-I- BLACK DIRT</b>	<b>0</b>	<b>1</b>
<b>T-S- DIRTY BROWN SAND</b>	<b>1</b>	<b>3</b>
<b>--YG SAND @ GRAVEL FEW COBBLES</b>	<b>3</b>	<b>19</b>
<b>--Y- SAND @ TRACE GRAVEL</b>	<b>19</b>	<b>70</b>

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly		

<b>6 6625 X 280 PE WELDED JOINT A53B SAWHILL</b>	<b>0</b>	<b>66</b>
--	----------	-----------

9. Static Water Level ft. above ground surface <b>46</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>12</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>52</b> ft. below surface Pumping at <b>12</b> GPM for <b>2</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method: Method: <b>GRAVITY</b>	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			

<b>BENTONIOTE</b>	<b>0</b>	<b>0</b>
-------------------	----------	----------

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
13. Signature of the Well Constructor or Supervisory Driller <b>EG</b>	Date signed <b>06/25/1996</b>
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed	

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued  Yes  No

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER LM120**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner **HANSEN, GARY** Telephone **715-824-2323**  
 Number

Mailing Address **3151 OAK ST**

City **NELSONVILLE** State **WI** Zip Code **54458**

County of Well Location **Portage** County Well Permit No. **W** Well Completion Date **05/22/1997**

Well Constructor (Business Name) **EDWARD J GRITZNER** License # **273** Facility ID Number (Public Wells)

Address **8658 RILEY RD** Public Well Plan Approval #  
 W--

City **AMHERST** State **WI** Zip Code **54406-9161** Date of Approval (mm/dd/yyyy)

Hicap Permanent well # Common Well # Specific Capacity **3.6** gpm/ft

3. Well serves **1** # of homes and/or **HOME** High capacity Well?  Yes  No  
 (e.g. barn, restaurant, church, school, industry, etc.) Property?  Yes  No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

1. Landfill
2. Building Overhang
3. Septic  Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline  Swimming Pool

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain  
 Cast Iron or Plastic  Other
14. Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
15. Collector or Street Sewer:  
 Sanitary units in. diam.  
 Storm  =< 6  > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

1. Well Location  Town  City  Village  
 of **NELSONVILLE** Fire # (if available)

Grid or Street Address or Road Name and Number

Subdivision Name Lot # Block #

Gov't Lot # or **SW** 1/4 of **NE** 1/4 of  
 Section **5** T **23** N; R **10**  E  W  
 Latitude Deg. Min. Longitude Deg. Min.  
 Lat/Long Method **GPS008**

2. Well Type  New  Replacement  Reconstruction  
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?  
**LOW VOLUMN**

Drilled  Driven Point  Jetted  Other:

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
Dia. (in.)	From (ft.)	To (ft.)			
<b>6</b>	<b>0</b>	<b>74.5</b>	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>	
			<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>	
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>	
			<input type="checkbox"/> --4. Drill-Through Casing Hammer		
			<input type="checkbox"/> --5. Reverse Rotary		
			<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>	
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)		
			Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
			If no, why not?		

8. Geology		From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.			
<b>K-I- BLACK DIRT</b>		<b>0</b>	<b>1</b>
<b>--PG HARDPAN @ COBBLES</b>		<b>1</b>	<b>36</b>
<b>--YC SAND @ GRAVEL @ CLAY</b>		<b>36</b>	<b>58</b>
<b>--S SAND</b>		<b>58</b>	<b>74.5</b>

6. Casing, Liner, Screen		Material, Weight, Specification		From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly				
<b>6</b>	<b>6 625X280 PE WELDED JOINTA53B SAWHILL</b>	<b>0</b>	<b>70.5</b>		

9. Static Water Level  
 ft. above ground surface  
**40** ft. below ground surface

11. Well is:  Above Grade  
**16** in.  Below Grade

Developed?  Yes  No  
 Disinfected?  Yes  No  
 Capped?  Yes  No

10. Pump Test  
 Pumping Level **45** ft. below surface  
 Pumping at **18** GPM for **1** hours

Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)
<b>6</b>	<b>TELESCOPING SS 7 SLOT</b>	<b>70.5</b>	<b>74.5</b>

7. Grout or Other Sealing Material. Method:		From (ft.)	To (ft.)	# Sacks Cement
Method: <b>GRAVITY</b>	Kind of Sealing Material			
	<b>BENTONITE</b>	<b>0</b>	<b>0</b>	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
 Yes  No If no, explain: **BY OWNER**

13. Signature of the Well Constructor or Supervisory Driller **EG** Date signed **05/22/1997**  
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued  Yes  No



**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER MC078**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner <b>DOMBROWSKI, CURT</b>		Telephone Number <b>715-824-2480</b>	
Mailing Address <b>383 CLINTON CT #2</b>			
City <b>AMHERST</b>		State <b>WI</b>	Zip Code <b>54406</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>09/26/1997</b>	

1. Well Location <input type="checkbox"/> Town <input type="checkbox"/> City <input checked="" type="checkbox"/> Village of <b>NELSONVILLE</b>	Fire # (if available) <b>9610</b>
--	--------------------------------------

Grid or Street Address or Road Name and Number <b>9610 CTY SS</b>
--

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) <b>EDWARD J GRITZNER</b>	License # <b>273</b>	Facility ID Number (Public Wells)
Address <b>8658 RILEY RD</b>		Public Well Plan Approval # W--
City <b>AMHERST</b>	State <b>WI</b>	Zip Code <b>54406-9161</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>2.5 gpm/ft</b>

Gov't Lot #	or	NW 1/4 of	SW 1/4 of
Section <b>4</b>	T	<b>23 N; R 10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction	Lat/Long Method <b>GPS008</b>
of previous unique well # constructed in Reason for replaced or Reconstructed Well? <b>NON COMPLIANCE</b>	

3. Well serves <b>1</b> # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:
---

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic  Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline  Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain  
 Cast Iron or Plastic  Other
- Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Collector or Street Sewer:  
 Sanitary units in diam.  
 Storm  =< 6  > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
Dia. (in.)					
<b>6</b>	<b>0</b>	<b>67</b>	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>	
			<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>	
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>	
			<input type="checkbox"/> --4. Drill-Through Casing Hammer		
			<input type="checkbox"/> --5. Reverse Rotary		
			<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>	
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)		
			Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
			If no, why not?		

8. Geology	From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.		
--Y- SAND @ GRAVEL	<b>0</b>	<b>67</b>

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly		
<b>6</b>	<b>6 6 625 X 280 PE WELDED JOINT A35B SAWHILL</b>	<b>0</b>	<b>63</b>

9. Static Water Level ft. above ground surface <b>34</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>12</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>40</b> ft. below surface Pumping at <b>15</b> GPM for <b>2</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method:	From (ft.)	To (ft.)	# Sacks Cement
Method: <b>GRAVITY</b> Kind of Sealing Material			
<b>BENTONITE</b>	<b>0</b>	<b>63</b>	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
13. Signature of the Well Constructor or Supervisory Driller <b>EG</b>	Date signed <b>09/26/1997</b>
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed	

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued  Yes  No

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER MC114**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner <b>LYTLE, JOANN</b>		Telephone <b>715-445-3877</b> Number	
Mailing Address <b>N8901 FROLAND RD</b>			
City <b>IOLA</b>		State <b>WI</b>	Zip Code <b>54945</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>04/08/1998</b>	

1. Well Location <input type="checkbox"/> Town <input type="checkbox"/> City <input checked="" type="checkbox"/> Village of <b>NELSONVILLE</b>	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number <b>3137 HIGH ST</b>
---

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) <b>EDWARD J GRITZNER</b>	License # <b>273</b>	Facility ID Number (Public Wells)
Address <b>8658 RILEY RD</b>		Public Well Plan Approval # W--
City <b>AMHERST</b>	State <b>WI</b>	Zip Code <b>54406-9161</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>1.7 gpm/ft</b>

Gov't Lot #	or	<b>NE</b> 1/4 of	<b>SE</b> 1/4 of
Section <b>5</b>	T	<b>23 N; R 10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction	Lat/Long Method <b>GPS008</b>
of previous unique well # _____ constructed in _____ Reason for replaced or Reconstructed Well?	

3. Well serves <b>1</b> # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	<b>DUPLEX</b>	High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:
---

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry: \_\_\_\_\_

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain
  - Cast Iron or Plastic
  - Other
- Building Sewer
  - Gravity
  - Pressure
  - Cast Iron or Plastic
  - Other
- Collector or Street Sewer:
  - Sanitary \_\_\_\_\_ units \_\_\_\_\_ in. diam.
  - Storm \_\_\_\_\_ =< 6 \_\_\_\_\_ > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe
  - Gravity
  - Pressure
  - Cast Iron or Plastic
  - Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
Dia. (in.)	From (ft.) To (ft.)		
<b>6</b>	<b>0</b> <b>90</b>	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	
		<input type="checkbox"/> --5. Reverse Rotary	
		<input type="checkbox"/> --6. Cable-tool Bit _____ in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing _____ in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
<b>K-I- BLACK DIRT</b>	<b>0</b>	<b>1</b>
<b>--YC SAND GRAVEL @ CLAY</b>	<b>1</b>	<b>65</b>
<b>--Y- SAND @ GRAVEL</b>	<b>65</b>	<b>90</b>

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly		

**6 6 625 X 280 PE WELDED JOINT A53B SAWHILL**      **0**      **86**

Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)
------------	-----------------------------------	------------	----------

**6**      **TESCOPING SS 10 SLOT**      **86**      **90**

7. Grout or Other Sealing Material. Method: <b>GRAVITY</b>	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			
<b>BENTONITE</b>	<b>0</b>	<b>86</b>	

9. Static Water Level ft. above ground surface <b>41</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>12</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>50</b> ft. below surface Pumping at <b>15 GPM</b> for <b>2</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:
--

13. Signature of the Well Constructor or Supervisory Driller <b>EG</b>	Date signed <b>04/08/1998</b>
Signature of Drill Rig Operator (Mandatory unless same as above)	Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc.      Variance issued  Yes  No

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER AV012**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner <b>MARK MEADOWS</b>		Telephone <b>715-345-0822</b> Number	
Mailing Address <b>806 LINDBERGH AVE</b>			
City <b>STEVENS POINT</b>		State <b>WI</b>	Zip Code <b>54487</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>09/19/1988</b>	

1. Well Location <input checked="" type="checkbox"/> Town <input type="checkbox"/> City <input type="checkbox"/> Village of <b>AMHERST</b>	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number <b>9689 HWY SS</b>
--

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) <b>MAVES LEONARD K</b>	License # <b>190</b>	Facility ID Number (Public Wells)
Address <b>4347 KUBISIAK DR</b>		Public Well Plan Approval # W--
City <b>AMHERST</b>	State <b>WI</b>	Zip Code <b>54406</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>.8</b> gpm/ft

Gov't Lot #	or	<b>NE</b> 1/4 of	<b>NE</b> 1/4 of
Section <b>9</b>	T	<b>23</b> N; R <b>10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input checked="" type="checkbox"/> New <input type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction	Lat/Long Method <b>GPS008</b>
---	----------------------------------

of previous unique well #	constructed in
Reason for replaced or Reconstructed Well? <b>NEW HOUSE</b>	

3. Well serves <b>1</b> # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:
---

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Well located within 1,200 feet of a quarry? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, distance in feet from quarry: Well located in floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. Downspout/Yard Hydrant
--	---------------------------

<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---

- Distance in Feet from Well to Nearest:
- Landfill
  - Building Overhang
  - Septic  Holding Tank
  - Sewage Absorption Unit
  - Nonconforming Pit
  - Buried Home Heating Oil Tank
  - Buried Petroleum Tank
  - Shoreline  Swimming Pool
  10. Privy
  11. Foundation Drain to Clearwater
  12. Foundation Drain to Sewer
  13. Building Drain  
 Cast Iron or Plastic  Other
  14. Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
  15. Collector or Street Sewer:  
 Sanitary units in. diam.  
 Storm  =< 6  > 6

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
From (ft.)	To (ft.)		
4	0	50	
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	
		<input type="checkbox"/> --5. Reverse Rotary	
		<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.		
<b>-QSG SAND AND GRAVEL C,BR,SOFT</b>	<b>0</b>	<b>50</b>

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly		
<b>4</b>	<b>NEW BLACK STEEL T AND C MERCER A-587 .237 11.00#FT</b>	<b>0</b>	<b>46</b>

9. Static Water Level ft. above ground surface <b>20</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>12</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>40</b> ft. below surface Pumping at <b>15</b> GPM for <b>12</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)
<b>4</b>	<b>4 X 12 SLOT STAINLESS STEEL SCREEN</b>	<b>46</b>	<b>50</b>

7. Grout or Other Sealing Material. Method: Method:	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:
---

13. Signature of the Well Constructor or Supervisory Driller <b>LM</b>	Date signed <b>09/19/1988</b>
Signature of Drill Rig Operator (Mandatory unless same as above)	Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued  Yes  No

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER MN344**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner **HARRIS, DON**  
 Telephone Number **715-824-5920**

Mailing Address **3101 OAK ST PO BOX**

City **NELSONVILLE** State **WI** Zip Code **54458**

County of Well Location **Portage** County Well Permit No. **W** Well Completion Date **11/10/1998**

Well Constructor (Business Name) **EDWARD J GRITZNER** License # **273** Facility ID Number (Public Wells)

Address **8658 RILEY RD** Public Well Plan Approval #  
 W--

City **AMHERST** State **WI** Zip Code **54406-9161** Date of Approval (mm/dd/yyyy)

Hicap Permanent well # Common Well # Specific Capacity **3 gpm/ft**

1. Well Location  
 Town  City  Village  
 of **NELSONVILLE** Fire # (if available)

Grid or Street Address or Road Name and Number  
**3101 OAK ST**

Subdivision Name Lot # Block #

Gov't Lot # or **NE** 1/4 of **SE** 1/4 of  
 Section **5** T **23** N; R **10**  E  W  
 Latitude Deg. Min. Longitude Deg. Min.

2. Well Type  New  Replacement  Reconstruction Lat/Long Method **GPS008**

of previous unique well # constructed in Reason for replaced or Reconstructed Well?  
**LOW VOLUME**

3. Well serves **1** # of homes and/or **HOMES** High capacity Well?  Yes  No  
 (e.g. barn, restaurant, church, school, industry, etc.) Property?  Yes  No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

- 1. Landfill
- 10** 2. Building Overhang
- 29** 3. Septic  Holding Tank
- 54** 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank

- 9. Downspout/Yard Hydrant
- 10. Privy
- 11. Foundation Drain to Clearwater
- 12. Foundation Drain to Sewer
- 13. Building Drain  
 Cast Iron or Plastic  Other
- 14. Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
- 15. Collector or Street Sewer:  
 Sanitary units in. diam.  
 Storm  =< 6  > 6
- 16. Clearwater Sump

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
- 23. Other Manure Storage
- 24. Ditch
- 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
Dia. (in.)	From (ft.)	To (ft.)			
<b>6</b>	<b>0</b>	<b>70</b>	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>	
			<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>	
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>	
			<input type="checkbox"/> --4. Drill-Through Casing Hammer	<input type="checkbox"/>	
			<input type="checkbox"/> --5. Reverse Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>	
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)		
			Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
			If no, why not?		

8. Geology		From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.			
<b>K-I-</b>	<b>BLACK DIRT</b>	<b>0</b>	<b>1</b>
<b>--Y-</b>	<b>SAND @ GRAVEL</b>	<b>1</b>	<b>59</b>
<b>--C-</b>	<b>CLAY</b>	<b>59</b>	<b>62</b>
<b>--S-</b>	<b>SAND</b>	<b>62</b>	<b>70</b>

6. Casing, Liner, Screen		Material, Weight, Specification		From (ft.)	To (ft.)
Dia. (in.)		Manufacturer & Method of Assembly			
<b>6</b>	<b>6</b>	<b>625X280 PE WELDED JOINT A53B SAWHILL</b>		<b>0</b>	<b>67</b>

Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)
<b>6</b>	<b>TELESCOPING SS 10 SLOT</b>	<b>67</b>	<b>70</b>

7. Grout or Other Sealing Material. Method:			
Method: <b>GRAVITY</b>	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			
<b>BENTONITE</b>	<b>0</b>	<b>67</b>	

9. Static Water Level		11. Well is:	
ft. above ground surface		<input checked="" type="checkbox"/> Above Grade	
<b>45 ft. below ground surface</b>		<b>12 in.</b>	<input type="checkbox"/> Below Grade
10. Pump Test		Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Level <b>50 ft. below surface</b>		Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping at <b>15 GPM for 2 hours</b>		Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
 Yes  No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller Date signed  
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed  
**EG**

**Well Construction Report For  
WISCONSIN UNIQUE WELL NUMBER WP067**

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner <b>OSTERBRINK, DAVE</b>		Telephone -- Number	
Mailing Address <b>PO Box 71</b>			
City <b>Nelsonville</b>		State <b>WI</b>	Zip Code <b>54458</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>06/17/2010</b>	

1. Well Location <input checked="" type="checkbox"/> Town <input type="checkbox"/> City <input type="checkbox"/> Village of <b>NELSONVILLE</b>	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number <b>3099 HIGH STREET</b>
---

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) <b>DJ'S WATER SERVICE LLC</b>	License # <b>7072</b>	Facility ID Number (Public Wells)
Address <b>6522 OAK DR</b>		Public Well Plan Approval # W--
City <b>AMHERST</b>	State <b>WI</b>	Zip Code <b>54406</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>.9</b> gpm/ft

Gov't Lot #	or	NW 1/4 of	SE 1/4 of
Section <b>5</b>	T	<b>23</b> N; R <b>10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction	Lat/Long Method
---	-----------------

of previous unique well # \_\_\_\_\_ constructed in  
Reason for replaced or Reconstructed Well?  
**More Water-Point in Basement**

3. Well serves <b>1</b> # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	Home <input checked="" type="checkbox"/> High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:
---

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:  
Well located in floodplain?  Yes  No  
Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic  Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline  Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain  
 Cast Iron or Plastic  Other
- Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Collector or Street Sewer:  
 Sanitary \_\_\_\_\_ units \_\_\_\_\_ in. diam.  
 Storm \_\_\_\_\_ units \_\_\_\_\_ in. diam.
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
From Dia. (in.)	To (ft.)		
<b>6</b>	<b>0</b>	<b>80</b>	
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	
		<input type="checkbox"/> --5. Reverse Rotary	
		<input type="checkbox"/> --6. Cable-tool Bit _____ in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing _____ in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		If no, why not?	

8. Geology		From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc.			
<b>TQS-</b>	<b>Brown, Caving, Sand, Soft</b>	<b>0</b>	<b>10</b>
<b>TVZ-</b>	<b>Brown, Non-Caving, Clay &amp; Gravel, Medium</b>	<b>10</b>	<b>20</b>
<b>RVX-</b>	<b>Red-Brown, Non-Caving, Sand &amp; Clay, Soft</b>	<b>20</b>	<b>50</b>
<b>RVYC</b>	<b>Red, Non-Caving, Fine Sand &amp; Gravel, Cla</b>	<b>50</b>	<b>75</b>
<b>TQY-</b>	<b>Brown, Caving, Fine Sand &amp; Gravel, Soft</b>	<b>75</b>	<b>80</b>

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
<b>6</b>	<b>Steel, 18.97, A53B, Wheatland, Weld</b>	<b>0</b>	<b>76</b>

9. Static Water Level ft. above ground surface <b>18</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>14</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>34</b> ft. below surface Pumping at <b>15</b> GPM for <b>1</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method:	From (ft.)	To (ft.)	# Sacks Cement
<b>Granular bentonite</b>	<b>0</b>	<b>76</b>	<b>1</b>

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
13. Signature of the Well Constructor or Supervisory Driller <b>LM</b>	Date signed <b>06/17/2010</b>
Signature of Drill Rig Operator (Mandatory unless same as above) _____ Date signed _____	

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued  Yes  No

**Well Construction Report For**  
**WISCONSIN UNIQUE WELL NUMBER YM571**

State of WI - Private Water Systems - DG/2  
 Department of Natural Resources, Box 7921  
 Madison, WI 53707  
 Please type or Print using a black Pen  
 Please Use Decimals Instead of Fractions.

Form 3300-77A  
 (R 8/00)

Property Owner **WALLER, JACK** Telephone **608-356-5543**  
 Number

Mailing Address **PO Box 8**

City **Nelsonville** State **WI** Zip Code **54458**

County of Well Location **Portage** County Well Permit No. **W** Well Completion Date **05/19/2015**

Well Constructor (Business Name) **DJ'S WATER SERVICE** License # **7072** Facility ID Number (Public Wells)

Address **6522 OAK DR** Public Well Plan Approval #  
 W--

City **AMHERST** State **WI** Zip Code **54406** Date of Approval (mm/dd/yyyy)

Hicap Permanent well # Common Well # Specific Capacity **4 gpm/ft**

1. Well Location  
 Town  City  Village  
 of **NELSONVILLE** Fire # (if available)

Grid or Street Address or Road Name and Number  
**2960 OAK STREET**

Subdivision Name Lot # Block #

Gov't Lot # or **SW** 1/4 of **NE** 1/4 of  
 Section **5** T **23** N; R **10**  E  W  
 Latitude Deg. Min. Longitude Deg. Min.  
 Lat/Long Method

2. Well Type  New  Replacement  Reconstruction  
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?

**Point Failing**  
 Drilled  Driven Point  Jetted  Other:

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.) **Home** High capacity Well?  Yes  No Property?  Yes  No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

1. Landfill
2. Building Overhang
- 117 3. Septic  Holding Tank
- 126 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain  
 Cast Iron or Plastic  Other
14. Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
15. Collector or Street Sewer:  
 Sanitary units in. diam.  
 Storm  =< 6  > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
Dia. (in.)	From (ft.)	To (ft.)			
6	0	57	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>	
			<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>	
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>	
			<input type="checkbox"/> --4. Drill-Through Casing Hammer	<input type="checkbox"/>	
			<input type="checkbox"/> --5. Reverse Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>	
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>	
			<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	<input type="checkbox"/>	
			Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
			If no, why not?		

8. Geology	From (ft.)	To (ft.)
-AY- Coarse, Sand & Gravel	0	22
O-S- Orange, Sand	22	50
TES- Tan/Brown, Clean, Sand	50	57

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
6 Steel A53B 18.97	Wheatland Weld	0	13
6 Steel A53B 18.97	Excel Weld	13	53

9. Static Water Level  
 ft. above ground surface  
**26** ft. below ground surface

11. Well is:  Above Grade  
**24** in.  Below Grade

Developed?  Yes  No  
 Disinfected?  Yes  No  
 Capped?  Yes  No

10. Pump Test  
 Pumping Level **30** ft. below surface  
 Pumping at **16** GPM for **1** hours

Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)
6	15 Slot Stainless Steel Telescoping	53	57

7. Grout or Other Sealing Material. Method:	From (ft.)	To (ft.)	# Sacks Cement
Granular bentonite	0	53	.5

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
 Yes  No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **DJF** Date signed **05/19/2015**  
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

**Well Construction Report For  
WISCONSIN UNIQUE WELL NUMBER YX993**

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner <b>MODRZEWSKI, SHARYL</b>		Telephone -- Number	
Mailing Address <b>3010 OAK ST</b>			
City <b>NELSONVILLE</b>		State <b>WI</b>	Zip Code <b>54458</b>
County of Well Location <b>Portage</b>	County Well Permit No. <b>W</b>	Well Completion Date <b>11/16/2017</b>	

1. Well Location <input type="checkbox"/> Town <input type="checkbox"/> City <input checked="" type="checkbox"/> Village of <b>NELSONVILLE</b>	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number <b>3010 OAK ST</b>
--

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) <b>BERTRAM JUNEMANN WELL DR</b>	License # <b>84</b>	Facility ID Number (Public Wells)
Address <b>7117 COUNTY ROAD S</b>		Public Well Plan Approval # W--
City <b>RUDOLPH</b>	State <b>WI</b>	Zip Code <b>54475</b>
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity <b>2.5 gpm/ft</b>

Gov't Lot #	or	NW 1/4 of	SE 1/4 of
Section <b>5</b>	T	<b>23 N; R 10</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Latitude Deg. <b>44</b>	Min. <b>17.82</b>		
Longitude Deg. <b>89</b>	Min. <b>18.642</b>		

2. Well Type <input checked="" type="checkbox"/> Replacement <input type="checkbox"/> New <input type="checkbox"/> Reconstruction	Lat/Long Method <b>GPS008</b>
--	----------------------------------

of previous unique well #	constructed in
Reason for replaced or Reconstructed Well? <b>POINT SLOW</b>	

3. Well serves <b>1</b> # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:
---

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  Yes  No

Well located within 1,200 feet of a quarry?  Yes  No If yes, distance in feet from quarry:

Well located in floodplain?  Yes  No

Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic  Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline  Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain  
 Cast Iron or Plastic  Other
- Building Sewer  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Collector or Street Sewer:  
 Sanitary units in diam.  
 Storm  =< 6  > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe  Gravity  Pressure  
 Cast Iron or Plastic  Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
From (ft.)	To (ft.)		
6	0	42	
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	
		<input type="checkbox"/> --5. Reverse Rotary	
		<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
--Y- SAND & GRAVEL	0	30
--S- SAND	30	42

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)	Manufacturer & Method of Assembly		
<b>6</b>	<b>P.E. A-53 .280 IPSCO</b>	<b>0</b>	<b>39</b>

9. Static Water Level ft. above ground surface <b>20</b> ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade <b>14</b> in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level <b>26</b> ft. below surface Pumping at <b>15</b> GPM for <b>1</b> hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method: Method: <b>MOUNDED</b> Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
<b>BENTONITE</b>	<b>0</b>	<b>1</b>	<b>1</b>

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
13. Signature of the Well Constructor or Supervisory Driller <b>JJ</b>	Date signed <b>12/11/2017</b>
Signature of Drill Rig Operator (Mandatory unless same as above) <b>JAJ</b>	Date signed <b>12/11/2017</b>

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued  Yes  No

## **Hydrogeologic Calculations**



### Groundwater Flow Rate

Modified Darcy Equation:

$$v_{ave} = K (dh/dl)/n_e$$

Where

$$\frac{1.1}{\underline{\quad}} v_{ave} = \text{Average Linear Groundwater Flow Velocity (ft/day)}$$

$$\frac{50}{\underline{\quad}} K = \text{Hydraulic Conductivity (ft/day)}$$

$$\frac{0.25}{\underline{\quad}} n_e = \text{Effective Porosity (fraction)}$$

$$\frac{0.0056}{\underline{\quad}} (dh/dl) = \text{Hydraulic Gradient (fraction)}$$

If

$$K = 50, n_e = 0.25, dh/dl = 0.0056$$

$$\frac{1.1}{\underline{\quad}} v_{ave} \text{ (ft/day)}$$

$$\frac{408}{\underline{\quad}} v_{ave} \text{ (ft/year)}$$

$$K = 100, n_e = 0.30, dh/dl = 0.0056$$

$$\frac{1.9}{\underline{\quad}} v_{ave} \text{ (ft/day)}$$

$$\frac{680}{\underline{\quad}} v_{ave} \text{ (ft/year)}$$

### Aquifer Thickness of Groundwater Recharge

$$b = h_r/n_e$$

Where

$$\frac{3.3}{\underline{\quad}} b = \text{Aquifer Thickness (ft)}$$

$$\frac{10}{\underline{\quad}} h_r = \text{Height of Recharge (in)}$$

$$\frac{0.25}{\underline{\quad}} n_e = \text{Effective Porosity (fraction)}$$

If

$$h_r = 10, n_e = 0.25$$

$$\frac{3.3}{\underline{\quad}} b \text{ (ft)}$$

$$h_r = 10, n_e = 0.30$$

$$\frac{2.8}{\underline{\quad}} b \text{ (ft)}$$

### Groundwater Flow Distance to Well

$$D_{gw} = wc/(b/yr)*v_{ave}$$

Where

$$\frac{1224}{\underline{\quad}} D_{gw} = \text{Distance of Groundwater Flow}$$

$$\frac{10}{\underline{\quad}} wc = \text{Height of Water Column in Well (ft)}$$

$$\frac{3.3}{\underline{\quad}} (b/yr) = \text{Aquifer Thickness per Year of Groundwater Recharge}$$

$$\frac{408}{\underline{\quad}} v_{ave} = \text{Average Linear Groundwater Flow Velocity (ft/yr)}$$

If

$$K = 50, n_e = 0.25, (dh/dl) = 0.0056, hr = 10$$

$$\frac{1469}{\underline{\quad}} D_{gw} \text{ (ft)}$$

$$K = 100, n_e = 0.30, (dh/dl) = 0.0056, hr = 10$$

$$\frac{2448}{\underline{\quad}} D_{gw} \text{ (ft)}$$

**Table**

Source-Test Well Data Tables  
Village of Nelsonville, Wisconsin

WELL_ADDRESS	Well ID	Well Depth (ft)	Static Water level (ft)	Point depth below water table (ft)	Equivalent years of recharge* (years)	Groundwater Travel Distance during recharge duration** (ft)	Nitrate-N Collected November 2018 (mg/l)
2920 COUNTY ROAD Q	--	23	10	13	3.9	1,591	15.3
3040 COUNTY ROAD Q	--	--	--	--	--	--	14.7
2960 OAK ST	<a href="#">YM571</a>	57	26	31	9.3	3,794	10.4
2980 OAK ST	--	50	?	--	--	--	12.7
3010 OAK ST	<a href="#">YX993</a>	42	20	22	6.6	2,693	12.9
3021 OAK ST	<a href="#">EM480</a>	46	27.2	19	5.6	2,301	12.6
3101 OAK ST	<a href="#">MN344</a>	70	45	25	7.5	3,060	15.6
3111 OAK ST	<a href="#">HW205</a>	59	44.5	15	4.4	1,775	16.7
3141 OAK ST	--	50	?	--	--	--	19.2
3151 OAK ST	<a href="#">LM120</a>	74.5	40	35	10.4	4,222	13.8
3099 HIGH ST	<a href="#">WP067</a>	80	18	62	18.6	7,588	17.1
3109 HIGH ST	<a href="#">HP746</a>	72	48	24	7.2	2,937	19.7
3135 HIGH ST	<a href="#">MC114</a>	90	41	49	14.7	5,997	11.6
3431 WELTON DR	--	?	28	--	--	--	11.5
3467 WELTON DR	--	?	15	--	--	--	10.7
9289 PAVELSKI RD	--	60	?	--	--	--	13.8
9488 THIRD ST	--	--	--	--	--	--	10.4
9515 JEROME ST	<a href="#">KV882</a>	70	46	24	7.2	2,937	21.0
9517 COUNTY ROAD SS	--	--	--	--	--	--	12.9
9522 COUNTY ROAD SS	<a href="#">ER132</a>	76	45	31	9.3	3,794	18.4
9548 COUNTY ROAD SS	<a href="#">CF318</a>	76	22	54	16.2	6,609	12.7
9568 COUNTY ROAD SS	--	95	?	--	--	--	16.6
9610 COUNTY ROAD SS	<a href="#">MC078</a>	67	34	33	9.9	4,039	11.7
9689 COUNTY ROAD SS	<a href="#">AV012</a>	50	20	30	9.0	3,672	20.7
9699 COUNTY ROAD SS	<a href="#">PT2169 WGNHS</a>	68	37	31	9.3	3,794	23.7

mg/l = milligrams per liter, which is equivalent to parts per million

-- = Data unavailable

? = Data uncertain

\* = Assumes 10 inches of recharge and an effective porosity of 0.25

\*\* = Assumes groundwater flow velocity of 1.1 ft/day (408 ft/yr)

<20	<6	<2,500	
20-29	6-9	2,500-3,100	10-15
30-39	9-14	3,100-4,300	15 - 20
40-62	14-19	4,300-8,000	20 - 25

Source-Test Well Data Tables  
 Village of Nelsonville, Wisconsin

WELL_ADDRESS	Domestic Indicators (samples collected January 2019)					
	Acesulfame (artificial sweetener) (ng/l)	Sucralose (artificial sweetener) (ng/l)	Caffeine (stimulant) (ng/l)	Carbamazepine (antiepileptic) (ng/l)	Sulfamethoxazole (human antibiotic) (ng/l)	Sum (ng/l)
2920 COUNTY ROAD Q	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3040 COUNTY ROAD Q	14.1	<LOD	<LOD	<LOD	<LOD	14.1
2960 OAK ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
2980 OAK ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3010 OAK ST	263	178	<LOD	<LOD	21.2	462
3021 OAK ST	22.1	92.1	<LOD	<LOD	<LOD	114
3101 OAK ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3111 OAK ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3141 OAK ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3151 OAK ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3099 HIGH ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3109 HIGH ST	246	923	<LOD	<LOD	<LOD	1,169
3135 HIGH ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
3431 WELTON DR	35.3	47.8	<LOD	6.4	5.5	95
3467 WELTON DR	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
9289 PAVELSKI RD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
9488 THIRD ST	13.3	<LOD	<LOD	<LOD	<LOD	13.3
9515 JEROME ST	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
9517 COUNTY ROAD SS	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
9522 COUNTY ROAD SS	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
9548 COUNTY ROAD SS	<LOD	<LOD	12.1	<LOD	<LOD	12.1
9568 COUNTY ROAD SS	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
9610 COUNTY ROAD SS	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
9689 COUNTY ROAD SS	13.5	<LOD	<LOD	<LOD	<LOD	13.5
9699 COUNTY ROAD SS	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD

ng/l = nanograms per liter, which is equivalent to parts per trillion  
 <LOD = Less than the level of detection

<LOD
<50
50 - 150
150 - 500
500-1,000
>1,000

Source-Test Well Data Tables  
 Village of Nelsonville, Wisconsin

WELL_ADDRESS	Agricultural Indicators (samples collected January 2019)						
	Sulfamethazine (bovine antibiotic) (ng/l)	Alachlor OA (ng/l)	Alachlor ESA (ng/l)	Metolachlor OA (ng/l)	Metolachlor ESA (ng/l)	DACT (ng/l)	sum (ng/l)
2920 COUNTY ROAD Q	<LOD	<LOD	140	90	510	120	860
3040 COUNTY ROAD Q	<LOD	<LOD	90	110	1,430	970	2,600
2960 OAK ST	<LOD	<LOD	230	<LOD	380	260	870
2980 OAK ST	<LOD	<LOD	210	140	1,650	890	2,890
3010 OAK ST	<LOD	<LOD	90	90	790	280	1,250
3021 OAK ST	<LOD	<LOD	<LOD	110	1,110	1,080	2,300
3101 OAK ST	<LOD	<LOD	<LOD	1,150	2,080	350	3,580
3111 OAK ST	<LOD	<LOD	110	<LOD	1,140	130	1,380
3141 OAK ST	<LOD	<LOD	<LOD	110	1,570	420	2,100
3151 OAK ST	<LOD	<LOD	<LOD	300	2,270	380	2,950
3099 HIGH ST	<LOD	<LOD	90	450	5,660	730	6,930
3109 HIGH ST	<LOD	<LOD	120	280	3,650	1,040	5,090
3135 HIGH ST	<LOD	<LOD	<LOD	260	2,470	560	3,290
3431 WELTON DR	<LOD	<LOD	680	370	<LOD	<LOD	1,050
3467 WELTON DR	<LOD	<LOD	460	<LOD	270	<LOD	730
9289 PAVELSKI RD	<LOD	<LOD	3490	<LOD	360	170	4,020
9488 THIRD ST	<LOD	<LOD	100	<LOD	970	210	1,280
9515 JEROME ST	<LOD	<LOD	80	130	1,860	680	2,750
9517 COUNTY ROAD SS	<LOD	<LOD	220	260	4,770	400	5,650
9522 COUNTY ROAD SS	<LOD	<LOD	<LOD	870	6,730	3,660	11,260
9548 COUNTY ROAD SS	<LOD	<LOD	100	330	3,410	620	4,460
9568 COUNTY ROAD SS	<LOD	<LOD	<LOD	<LOD	330	<LOD	330
9610 COUNTY ROAD SS	<LOD	<LOD	190	290	2,340	570	3,390
9689 COUNTY ROAD SS	<LOD	<LOD	540	<LOD	760	110	1,410
9699 COUNTY ROAD SS	<LOD	<LOD	90	<LOD	530	<LOD	620

ng/l = nanograms per liter, which is equivalent to parts per trillion

OA = Oxanilic acid

ESA = Ethane sulfonic acid

DACT: Diaminochlorotriazine Screen

<LOD = Less than the level of detection

<500
500 - 2,000
2,000 - 5,000
5,000-10,000
>10,000

Source-Test Well Data Tables  
 Village of Nelsonville, Wisconsin

WELL_ADDRESS	Comparison of Concentrations		
	Nitrate-N (mg/l)	Domestic (ng/l)	Ag (ng/l)
2920 COUNTY ROAD Q	15.3	<LOD	860
3040 COUNTY ROAD Q	14.7	14.1	2,600
2960 OAK ST	10.4	<LOD	870
2980 OAK ST	12.7	<LOD	2,890
3010 OAK ST	12.9	462	1,250
3021 OAK ST	12.6	114	2,300
3101 OAK ST	15.6	<LOD	3,580
3111 OAK ST	16.7	<LOD	1,380
3141 OAK ST	19.2	<LOD	2,100
3151 OAK ST	13.8	<LOD	2,950
3099 HIGH ST	17.1	<LOD	6,930
3109 HIGH ST	19.7	1,169	5,090
3135 HIGH ST	11.6	<LOD	3,290
3431 WELTON DR	11.5	95	1,050
3467 WELTON DR	10.7	<LOD	730
9289 PAVELSKI RD	13.8	<LOD	4,020
9488 THIRD ST	10.4	13.3	1,280
9515 JEROME ST	21.0	<LOD	2,750
9517 COUNTY ROAD SS	12.9	<LOD	5,650
9522 COUNTY ROAD SS	18.4	<LOD	11,260
9548 COUNTY ROAD SS	12.7	12.1	4,460
9568 COUNTY ROAD SS	16.6	<LOD	330
9610 COUNTY ROAD SS	11.7	<LOD	3,390
9689 COUNTY ROAD SS	20.7	13.5	1,410
9699 COUNTY ROAD SS	23.7	<LOD	620

<LOD
<50
<500
10-15
50 - 150
500 - 2,000
15 - 20
150 - 500
2,000 - 5,000
20 - 25
500-1,000
5,000-10,000
>1,000
>10,000