From: ASH, THAD <tash@co.door.wi.us>
Sent: Tuesday, October 31, 2023 7:27 AM
To: Campoli, Karen L - DNR
Subject: Water samples
Attachments: Message from "HWYCOPYP03"; Message from "HWYCOPYP03"

Follow Up Flag: Follow up
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Karen, attached are the latest water samples from the wells in Sister Bay. First attachment is for the address of 10440 Orchard Road. The second is the proof of new well installation and the water sample from it also for 10397 HWY 57. Hopefully we are able to close these out. If you need anything further from me, please let me know.

Thanks for your help

Thad Ash
Highway Commissioner
Door County Highway Department
1001 S. Duluth Ave.
Sturgeon Bay, WI 54235
920-746-2504 Office
920-493-2574 Cell
920-743-7060 Fax
tash@co.door.wi.us

Clean Water Testing

1990 Prospect Ct., Appleton, WI 54914 * 800-801-7590

DOOR COUNTY HWY DEPARTMENT
1001 S Duluth Ave
STURGEON BAY, WI 54235

Home Owner	PATIO
Well ID/Address	10440 ORCHARD RD
Well City	SISTER BAY, WI 54234
Sample Location	KITCHEN TAP
Lab #	627667
Collected By/Date	MICHAEL LE 10/17/2023

Report Date *25-Oct-23*

Analyte	Result	Units	LOD	LOQ	Dil	Dig Date	Run Date	Mthd	Analyst	QC Code
Inorganic										
Metals										
Sodium	**80.0**	mg/l	0.213	0.71	1		10/24/2023	200.7	TL	1

(as total Na)...Sodium is a common element found in ground water and is an essential nutrient for humans. In large concentration it may affect persons with cardiac difficulties. The EPA has set a health advisory limit for sodium in drinking water for 200 mg/L (parts per million). Elevated levels in well water may indicate agricultural or road salt runoff.

LOD Limit of Detection — None Detected = Result was less than the LOD — LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.

Laboratory Director Matthew Stone

Clean Water Testing

1990 Prospect Ct., Appleton, WI 54914 * 800-801-7590

DOOR COUNTY HWY DEPARTMENT
1001 S Duluth Ave
STURGEON BAY, WI 54235

Home Owner	PAUL VANDER MAZEN
Well ID/Address	10397 HWY 57
Well City	SISTER BAY, WI 54234
Sample Location	KITCHEN TAP
Lab #	627668
Collected By/Date	MICHAEL LE 10/17/2023

Report Date *25-Oct-23*

Analyte	Result	Units	LOD	LOQ	Dil	Dig Date	Run Date	Mthd	Analyst	QC Code
Inorganic										
Metals										
Sodium	**62.6**	mg/l	0.213	0.71	1		10/24/2023	200.7	TL	1

(as total Na)...Sodium is a common element found in ground water and is an essential nutrient for humans. In large concentration it may affect persons with cardiac difficulties. The EPA has set a health advisory limit for sodium in drinking water for 200 mg/L (parts per million). Elevated levels in well water may indicate agricultural or road salt runoff.

LOD Limit of Detection — None Detected = Result was less than the LOD — LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.

Laboratory Director Matthew Stone

Well Drilling · Geothermal · Environmental

GROUNDSOURCE

formerly Bill Van De Yacht Water Well

Invoice

Date	Invoice #
7/19/23	2023-7293

Bill To
VanderMaazen, Paul 10397 Hwy. 57 Sister Bay, WI

P.O. No.	Terms
10397 Hwy. 57	Net 30

Quantity	Description	Rate	Amount
	Replacement Well at above address. This well is the same construction depths and grout amount as the County Shop well.		
280	DRILLING/ft. = This is the depth of the well.	20.00	5,600.00
242	6" STEEL CASING/ft.	45.00	10,890.00
62	CEMENT GROUT/bag	55.00	3,410.00
1	Grout Set Up	250.00	250.00
1	DRIVE SHOE, WELL CAP & WELL PERMIT	230.00	230.00
1	Coliform and Nitrate Water Sample	100.00	100.00
1	Fuel Surcharge	300.00	300.00
1	***Standard Package*** 3/4 HP Sta Rite Pumping System which offers 10 Gallon/min. and a ProLite CSS35 Pressure Tank with a 5 year warranty. This system features all Stainless Steel fittings to ensure a long service life. Also included is premium double coated pump wire. Price includes water line and pressure tank controls mounted on outside foundation wall. 25 ft. of trench is included with extra trenching charged at $3.00/ft. plus $125/hr. Interior plumbing, fittings, and electric. Insulate trench.	4,992.00	4,992.00
2	Excavator additional trench/hr	125.00	250.00
25	Additional from 25-50', waterline, poly/ft	3.00	75.00
68	WELL ABANDONMENT/bag	24.00	1,632.00
1	Abandonment Labor	250.00	250.00
	Sales Tax	5.50%	0.00

Please sign and date to schedule.

Total $27,979.00

Phone #	Fax #	Remit to: Ground Source, Inc. 3671 Monroe Rd. De Pere, WI 54115
920-336-3659	920-336-5935	

BRANCH RIVER TESTING SERVICE, LLC

693 Lamers Clancy Rd., Greenleaf, WI 54126 (920) 532-0016

		Property Owner	Paul Vandermazzen
Ground Source, Inc.		Well ID/Address	ABB569
3671 Monroe Rd		Well County	Door
De Pere, WI 54115		Sample Location	Sampling Faucet
		Reason for Test	First Water Quality Test
Report Date:	*7/19/2023*	Collected By (Date/Time)	BP 7/17/23@4PM

Analyte	Results	Units	LOD	LOQ	Dil	Dig. Date	Run Date	MTHD	Analyst	QC Code
Coliform Bacteria	**Safe**	1CFU-100 ML					7/18/23	1	CC	2
Ecoli Bacteria	**Safe**	1CFU-100 ML					7/18/23	1	CC	2

Bacteria refers to a group of organisms called Total Coliforms. Not all coliform bacteria are harmful. However, the presence of coliforms in drinking water indicates that other more harmful strains of bacteria may be present. Coliform bacteria are not normally found in groundwater aqufiers considered safe to drink. When coliform is found to be present in drinking water, a second test for the presence of fecal coliforms (E.coli) is performed. The source of coliform bacteria is typically from cold blooded organisms. Fecal coliforms are derived from warm blooded organisms. At any rate, the presence of bacteria in well water must be eliminated prior to human consumption.

Nitrate (NO3)	**0.23**	mg/L	0.130 ppm	0.432 ppm	1	N/A	7/19/23	3	TM	2

Nitrates can be naturally found in drinking water at low levels (<1.5 mg/L). Elevated levels of Nitrates in drinking water can be a result of improper agricultural practices or failing septic systems in the area. Areas where a shallow depth to bedrock (Karst features) or excessively permeable soils over a shallow depth to groundwater can be especially susceptible to Nitrates contamination. An improperly sited, grouted, or short cased well can also result in a Nitrates contamination. The DNR recommended upper limit for Nitrates in drinking water is 10 mg/L.

Arsenic (As)	**N/A**	ppb	0.294 ppb	0.979 ppb	1			3113B		2

Soluble Inorganic Arsenic (As+3, As+5) can be naturally found in certain types of bedrock formations where water wells draw from. Arsenic can be present but only caused to release into water after many years. This is believed to be caused when the water table drops and the bedrock becomes exposed to oxygen. It can also be released by reacting with chlorine after strong well disinfection. Prolonged ingestion of Arsenic in excess of the EPA maximum Contaminant Level (MCL) may cause skin disease, circulatory system issues, and cancer. The EPA MCL for Arsenic is 10 ppb.

LOD-Limit of Detection None Detected- Result was less than LOD LOQ- Limit of Quantitation

Code	*Comment*
1	*MMO-MUG (Colilert) Presence/Absence*
2	*All Laboratory QC requirements were met for this sample*
3	*Hach 10802*

Laboratory Director

Note: Branch River Testing Services LLC shall retain all water sample records for a minimum of 5 years.

Definitions: CFU/100 mL= Colony Forming Units per 100 milliliters
mg/L= milligrams per liter= parts per million
ppb= parts per billion

WI DNR LAB CERTIFICATION #105-484
FID 405224600