

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: VILLAGE OF KALKASKA
Name:
ClientProj: QUARTERLY MONITOR WELLS
GTA ProjNo: 110221-3

Site Addr: 1005 ISLAND LAKE RD
KALKASKA
Sampled By: BRENDON WOLF/VOK
Date Rec: 11/2/2021
Time Rec: 12:17 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	11/1/2021	9:18 AM	WATER
2	MW-2D	11/1/2021	11:51 AM	WATER
3	MW-2S	11/1/2021	11:34 AM	WATER
4	MW-3	11/1/2021	10:29 AM	WATER
5	MW-4	11/1/2021	8:53 AM	WATER

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
830 Robinwood Court
Traverse City, MI 49686
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com

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COMPANY: VILLAGE OF KALKASKA
PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI
SAMPLED BY: BRENDON WOLF/VOK
SAMPLE ID: MW-1

GTA PROJECT NO: 110221-3
GTA SAMPLE NO: 1
DATE RECEIVED: 11/2/2021
TIME RECEIVED: 12:17 PM
DATE SAMPLED: 11/1/2021
TIME SAMPLED: 9:18 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	11/23/2021
CHLORIDE EPA 300.0	14	10	mg/L (PPM)	TR	11/3/2021
CONDUCTIVITY SM2510-B	320	1.0	uS/cm@25C	TR	11/3/2021
NITRATE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
SODIUM EPA 200.8	11	0.50	mg/L (PPM)	MR	11/10/2021
TOTAL PHOSPHORUS EPA 365.2	<0.010	0.010	mg/L (PPM)	KC	11/23/2021

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

s.u. = STANDARD pH UNITS REPORTED AT 25 C

DISS = DISSOLVED

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LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI
SAMPLED BY: BRENDON WOLF/VOK
SAMPLE ID: MW-2D

GTA PROJECT NO: 110221-3
GTA SAMPLE NO: 2
DATE RECEIVED: 11/2/2021
TIME RECEIVED: 12:17 PM
DATE SAMPLED: 11/1/2021
TIME SAMPLED: 11:51 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	11/23/2021
CHLORIDE EPA 300.0	160	10	mg/L (PPM)	TR	11/3/2021
CONDUCTIVITY SM2510-B	910	1.0	uS/cm@25C	TR	11/3/2021
NITRATE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
SODIUM EPA 200.8	150	0.50	mg/L (PPM)	MR	11/10/2021
TOTAL PHOSPHORUS EPA 365.2	<0.010	0.010	mg/L (PPM)	KC	11/23/2021

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PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI
SAMPLED BY: BRENDON WOLF/VOK
SAMPLE ID: MW-2S

GTA PROJECT NO: 110221-3
GTA SAMPLE NO: 3
DATE RECEIVED: 11/2/2021
TIME RECEIVED: 12:17 PM
DATE SAMPLED: 11/1/2021
TIME SAMPLED: 11:34 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	11/23/2021
CHLORIDE EPA 300.0	88	10	mg/L (PPM)	TR	11/3/2021
CONDUCTIVITY SM2510-B	670	1.0	uS/cm@25C	TR	11/3/2021
NITRATE-N EPA 300.0	2.3	0.10	mg/L (PPM)	TR	11/3/2021
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
SODIUM EPA 200.8	110	0.50	mg/L (PPM)	MR	11/10/2021
TOTAL PHOSPHORUS EPA 365.2	0.33	0.010	mg/L (PPM)	KC	11/23/2021

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KALKASKA
MI
SAMPLED BY: BRENDON WOLF/VOK
SAMPLE ID: MW-3

GTA PROJECT NO: 110221-3
GTA SAMPLE NO: 4
DATE RECEIVED: 11/2/2021
TIME RECEIVED: 12:17 PM
DATE SAMPLED: 11/1/2021
TIME SAMPLED: 10:29 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	0.23	0.015	mg/L (PPM)	KC	11/23/2021
CHLORIDE EPA 300.0	12	10	mg/L (PPM)	TR	11/3/2021
CONDUCTIVITY SM2510-B	330	1.0	uS/cm@25C	TR	11/3/2021
NITRATE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
SODIUM EPA 200.8	10	0.50	mg/L (PPM)	MR	11/10/2021
TOTAL PHOSPHORUS EPA 365.2	<0.010	0.010	mg/L (PPM)	KC	11/23/2021

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LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI
SAMPLED BY: BRENDON WOLF/VOK
SAMPLE ID: MW-4

GTA PROJECT NO: 110221-3
GTA SAMPLE NO: 5
DATE RECEIVED: 11/2/2021
TIME RECEIVED: 12:17 PM
DATE SAMPLED: 11/1/2021
TIME SAMPLED: 8:53 AM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	11/23/2021
CHLORIDE EPA 300.0	<10	10	mg/L (PPM)	TR	11/3/2021
CONDUCTIVITY SM2510-B	400	1.0	uS/cm@25C	TR	11/3/2021
NITRATE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	TR	11/3/2021
SODIUM EPA 200.8	7.3	0.50	mg/L (PPM)	MR	11/10/2021
TOTAL PHOSPHORUS EPA 365.2	0.36	0.010	mg/L (PPM)	KC	11/23/2021

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Traverse City, MI 49686

Phone (231) 929-0905 Fax (231) 929-0894

Chain of Custody Record

Q. V. Anderson

Client Information

Client Contact:

Brendon Wolf

Company:

Village of Kalkaska

Address:

1005 Island Lake Road

City:

Kalkaska

State, Zip:

MI, 49646

Phone:

231-258-4772

Email:

cwp@kalkaskavillage.com

Project Name:

Quarterly Monitoring Well Samples

Site:

KWWTP

Sampler:

Brendon Wolf

Lab PM:

Chase, Kirk L.

E-Mail:

kirk@gtanalytical.com

Carrier Tracking No(s):

COC No:

110221-3

Page:

Page 1 of 1

Job #:

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

Sample Identification

Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)
MW-1	11:12	G	W
MW-2D	11:51	G	W
MW-2S	11:34	G	W
MW-3	10:29	G	W
MW-4	8:53	G	W

Field Filtered Sample (Yes or No)	Nitrate Nitrite	Ammonia, Undistilled	Sulfate	Chloride	Total Phosphorus	Bicarbonate Alkalinity as CaCO3	Specific Conductivity	Calcium, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Potassium, Dissolved	Sodium, Dissolved	Iron, Dissolved	Total Number of Containers
	X	X		X	X		X					X		
	X	X		X	X		X					X		
	X	X		X	X		X					X		
	X	X		X	X		X					X		
	X	X		X	X		X					X		

Special Instructions/Note:

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by: *Brendon Wolf*

Date/Time:

11-1-21 13:00

Company

KCWP

Received by:

Date/Time:

11/2/21 12:17

Company

Relinquished by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date/Time:

Company

Received by:

Date/Time:

Company

Custody Seals Intact:

☒ Yes ☐ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: