

**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
GTA ProjNo: 052620-2

Site Addr: 1005 ISLAND LAKE RD
KALKASKA
Sampled By: BRENDON WOLF/VOK
Date Rec: 5/26/2020
Time Rec: 10:30 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-1	5/25/2020	8:51 AM	WATER
2	MW-2D	5/25/2020	10:05 AM	WATER
3	MW-2S	5/25/2020	9:49 AM	WATER
4	MW-3	5/25/2020	9:22 AM	WATER
5	MW-4	5/25/2020	8:29 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
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SP: 231-590-0291
kirk@gtanalytical.com

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COMPANY: VILLAGE OF KALKASKA

PROJECT NO: QUARTERLY

LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI

SAMPLED BY: BRENDON WOLF/VOK

SAMPLE ID: MW-1

GTA PROJECT NO: 052620-2

GTA SAMPLE NO: 1

DATE RECEIVED: 5/26/2020
TIME RECEIVED: 10:30 AMDATE SAMPLED: 5/25/2020
TIME SAMPLED: 8:51 AM

SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	6/3/2020
CHLORIDE EPA 300.0	<10	10	mg/L (PPM)	KC	5/26/2020
CONDUCTIVITY SM2510-B	260	1.0	uS/cm@25C	KC	5/26/2020
NITRATE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
SODIUM EPA 200.8	15	0.50	mg/L (PPM)	MR	6/1/2020
TOTAL PHOSPHORUS EPA 365.2	<0.010	0.010	mg/L (PPM)	LV	6/4/2020

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

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COMPANY: VILLAGE OF KALKASKA

PROJECT NO: QUARTERLY

LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI

SAMPLED BY: BRENDON WOLF/VOK

SAMPLE ID: MW-2D

GTA PROJECT NO: 052620-2

GTA SAMPLE NO: 2

DATE RECEIVED: 5/26/2020
TIME RECEIVED: 10:30 AMDATE SAMPLED: 5/25/2020
TIME SAMPLED: 10:05 AM

SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	6/3/2020
CHLORIDE EPA 300.0	240	10	mg/L (PPM)	KC	5/26/2020
CONDUCTIVITY SM2510-B	1,100	1.0	uS/cm@25C	KC	5/26/2020
NITRATE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
SODIUM EPA 200.8	360	5.0	mg/L (PPM)	MR	6/1/2020
TOTAL PHOSPHORUS EPA 365.2	<0.010	0.010	mg/L (PPM)	LV	6/4/2020

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COMPANY: VILLAGE OF KALKASKA

PROJECT NO: QUARTERLY

LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI

SAMPLED BY: BRENDON WOLF/VOK

SAMPLE ID: MW-2S

GTA PROJECT NO: 052620-2

GTA SAMPLE NO: 3

DATE RECEIVED: 5/26/2020
TIME RECEIVED: 10:30 AMDATE SAMPLED: 5/25/2020
TIME SAMPLED: 9:49 AM

SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	6/3/2020
CHLORIDE EPA 300.0	140	10	mg/L (PPM)	KC	5/26/2020
CONDUCTIVITY SM2510-B	730	1.0	uS/cm@25C	KC	5/26/2020
NITRATE-N EPA 300.0	1.1	0.10	mg/L (PPM)	KC	5/26/2020
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
SODIUM EPA 200.8	280	5.0	mg/L (PPM)	MR	6/1/2020
TOTAL PHOSPHORUS EPA 365.2	0.23	0.010	mg/L (PPM)	LV	6/4/2020

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COMPANY: VILLAGE OF KALKASKA

PROJECT NO: QUARTERLY

LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI

SAMPLED BY: BRENDON WOLF/VOK

SAMPLE ID: MW-3

GTA PROJECT NO: 052620-2

GTA SAMPLE NO: 4

DATE RECEIVED: 5/26/2020
TIME RECEIVED: 10:30 AMDATE SAMPLED: 5/25/2020
TIME SAMPLED: 9:22 AM

SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	6/3/2020
CHLORIDE EPA 300.0	<10	10	mg/L (PPM)	KC	5/26/2020
CONDUCTIVITY SM2510-B	290	1.0	uS/cm@25C	KC	5/26/2020
NITRATE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
SODIUM EPA 200.8	9.6	0.50	mg/L (PPM)	MR	6/1/2020
TOTAL PHOSPHORUS EPA 365.2	<0.010	0.010	mg/L (PPM)	LV	6/4/2020

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COMPANY: VILLAGE OF KALKASKA

PROJECT NO: QUARTERLY

LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI

SAMPLED BY: BRENDON WOLF/VOK

SAMPLE ID: MW-4

GTA PROJECT NO: 052620-2

GTA SAMPLE NO: 5

DATE RECEIVED: 5/26/2020
TIME RECEIVED: 10:30 AMDATE SAMPLED: 5/25/2020
TIME SAMPLED: 8:29 AM

SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Complete</u>
AMMONIA-N EPA 350.1	<0.015	0.015	mg/L (PPM)	KC	6/3/2020
CHLORIDE EPA 300.0	<10	10	mg/L (PPM)	KC	5/26/2020
CONDUCTIVITY SM2510-B	270	1.0	uS/cm@25C	KC	5/26/2020
NITRATE-N EPA 300.0	0.61	0.10	mg/L (PPM)	KC	5/26/2020
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	KC	5/26/2020
SODIUM EPA 200.8	4.0	0.50	mg/L (PPM)	MR	6/1/2020
TOTAL PHOSPHORUS EPA 365.2	0.33	0.010	mg/L (PPM)	LV	6/4/2020

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Traverse City, MI 49686
Phone (231) 929-0905 Fax (231) 929-0894

Client Information						Lab PM: Chase, Kirk L.							Carrier Tracking No(s):																																											
Client Contact: Brendon Wolf						E-Mail: kirk@gtanalytical.com																																																		
Company: Village of Kalkaska						Address:						Analysis Requested																																												
Address: 1005 Island Lake Road						Due Date Requested:						<table border="1"><thead><tr><th>Nitrate/Nitrite</th><th>Ammonia, Undistilled</th><th>Sulfate</th><th>Chloride</th><th>Total Phosphorus</th><th>Bicarbonate Alkalinity as CaCO₃</th><th>Specific Conductivity</th><th>Calcium, Dissolved</th><th>Magnesium, Dissolved</th><th>Manganese, Dissolved</th><th>Potassium, Dissolved</th><th>Sodium, Dissolved</th><th>Iron, Dissolved</th></tr></thead></table>									Nitrate/Nitrite	Ammonia, Undistilled	Sulfate	Chloride	Total Phosphorus	Bicarbonate Alkalinity as CaCO ₃	Specific Conductivity	Calcium, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Potassium, Dissolved	Sodium, Dissolved	Iron, Dissolved																							
Nitrate/Nitrite	Ammonia, Undistilled	Sulfate	Chloride	Total Phosphorus	Bicarbonate Alkalinity as CaCO ₃	Specific Conductivity	Calcium, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Potassium, Dissolved	Sodium, Dissolved										Iron, Dissolved																																			
City: Kalkaska						TAT Requested (days):																																																		
State, Zip: MI, 49646						PO #: PO Not Required																																																		
Phone: 231-258-4772						WO #:																																																		
Email: cwp@kalkaskavillage.com						Project #:																																																		
Project Name: Quarterly Monitoring Well Samples						SSOW#:						<table border="1"><thead><tr><th colspan="12">Preservation Codes:</th></tr><tr><td>A - HCL</td><td>M - Hexane</td><td>B - NaOH</td><td>N - None</td><td>C - Zn Acetate</td><td>O - AsNaO₂</td><td>D - Nitric Acid</td><td>P - Na₂O₄S</td><td>E - NaHSO₄</td><td>Q - Na₂SO₃</td><td>F - MeOH</td><td>R - Na₂S₂SO₃</td><td>G - Amchlor</td><td>S - H₂SO₄</td><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td><td>I - Ice</td><td>U - Acetone</td><td>J - DI Water</td><td>V - MCAA</td><td>K - EDTA</td><td>W - ph 4-5</td><td>L - EDA</td><td>Z - other (specify)</td></tr></thead></table>									Preservation Codes:												A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO ₂	D - Nitric Acid	P - Na ₂ O ₄ S	E - NaHSO ₄	Q - Na ₂ SO ₃	F - MeOH	R - Na ₂ S ₂ SO ₃	G - Amchlor	S - H ₂ SO ₄	H - Ascorbic Acid	T - TSP Dodecahydrate	I - Ice	U - Acetone	J - DI Water	V - MCAA	K - EDTA	W - ph 4-5	L - EDA	Z - other (specify)
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Site: KWWTP						Sample Identification															Special Instructions/Note:																																			
Sample Date						Sample Time															Sample Type (C=Comp, G=grab)						Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)																													
MW-1						5-25-20						8:51						G W X X X X X X X X X																																						
MW-2D						5-25-20						10:05						G W X X X X X X X X X																																						
MW-2S						5-25-20						9:49						G W X X X X X X X X X																																						
MW-3						5-25-20						9:22						G W X X X X X X X X X																																						
MW-4						5-25-20						8:29						G W X X X X X X X X X																																						
Possible Hazard Identification						Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Dispose By Lab ☐ Archive For _____ Months																																												
Deliverable Requested: I, II, III, IV, Other (specify)						Empty Kit Relinquished by:						Date:						Time:						Method of Shipment:																																
Relinquished by: Brendon Wolf						Date/Time: 5-25-20 10:56						Company KCWP						Received by: [Signature]						Date/Time: 5/26/20 10:30						Company																										
Relinquished by:						Date/Time:						Company						Received by:						Date/Time:						Company																										
Relinquished by:						Date/Time:						Company						Received by:						Date/Time:						Company																										
Custody Seals Intact: Δ Yes Δ No						Custody Seal No.:						Cooler Temperature(s) °C and Other Remarks:																																												