

**INDEPENDENT TESTING LAB**

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: FIFE LAKE AREA UTILITY AUTHORITY

Name:

ClientProj: QUARTERLY MONITOR WELLS

GTA ProjNo: 021522-2

Site Addr: 10701 VAN'S LANE

Sampled By: FIFE LAKE
CHRIS HOUGHTON/FLAUA

Date Rec: 2/15/2022

Time Rec: 2:15 PM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	MW-5	2/15/2022		WATER
2	MW-7	2/15/2022		WATER
3	MW-12	2/15/2022		WATER
4	MW-13	2/15/2022		WATER
5	MW-14	2/15/2022		WATER
6	MW-15	2/15/2022		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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COMPANY: FIFE LAKE AREA UTILITY AUTHORITY
PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: CHRIS HOUGHTON/FLAUA
SAMPLE ID: MW-5

GTA PROJECT NO: 021522-2
GTA SAMPLE NO: 1
DATE RECEIVED: 2/15/2022
TIME RECEIVED: 2:15 PM
DATE SAMPLED: 2/15/2022
TIME SAMPLED:
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<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	2/21/2022
CHLORIDE EPA 300.0	57	10	mg/L (PPM)	TR	2/17/2022
CONDUCTIVITY SM2510-B	560	1.0	uS/cm@25C	TR	2/17/2022
NITRATE-N EPA 300.0	1.6	0.20	mg/L (PPM)	TR	2/17/2022
NITRITE-N EPA 300.0	<0.20	0.20	mg/L (PPM)	TR	2/17/2022
SODIUM EPA 200.8	42	0.50	mg/L (PPM)	MR	2/17/2022
TOTAL INORGANIC NITROGEN	1.6	0.42	mg/L (PPM)	KC/TR	2/21/2022
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	KC	2/21/2022

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: FIFE LAKE AREA UTILITY AUTHORITY
PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: CHRIS HOUGHTON/FLAUA
SAMPLE ID: MW-7

GTA PROJECT NO: 021522-2
GTA SAMPLE NO: 2
DATE RECEIVED: 2/15/2022
TIME RECEIVED: 2:15 PM
DATE SAMPLED: 2/15/2022
TIME SAMPLED:
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<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	2/21/2022
CHLORIDE EPA 300.0	15	10	mg/L (PPM)	TR	2/17/2022
CONDUCTIVITY SM2510-B	250	1.0	uS/cm@25C	TR	2/17/2022
NITRATE-N EPA 300.0	0.59	0.20	mg/L (PPM)	TR	2/17/2022
NITRITE-N EPA 300.0	<0.20	0.20	mg/L (PPM)	TR	2/17/2022
SODIUM EPA 200.8	23	0.50	mg/L (PPM)	MR	2/17/2022
TOTAL INORGANIC NITROGEN	0.59	0.42	mg/L (PPM)	KC/TR	2/21/2022
TOTAL PHOSPHORUS EPA 365.3	0.010	0.010	mg/L (PPM)	KC	2/21/2022

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PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: CHRIS HOUGHTON/FLAUA
SAMPLE ID: MW-12

GTA PROJECT NO: 021522-2
GTA SAMPLE NO: 3
DATE RECEIVED: 2/15/2022
TIME RECEIVED: 2:15 PM
DATE SAMPLED: 2/15/2022
TIME SAMPLED:
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<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	2/21/2022
CHLORIDE EPA 300.0	21	10	mg/L (PPM)	TR	2/17/2022
CONDUCTIVITY SM2510-B	480	1.0	uS/cm@25C	TR	2/17/2022
NITRATE-N EPA 300.0	3.3	0.20	mg/L (PPM)	TR	2/17/2022
NITRITE-N EPA 300.0	<0.20	0.20	mg/L (PPM)	TR	2/17/2022
SODIUM EPA 200.8	66	0.50	mg/L (PPM)	MR	2/17/2022
TOTAL INORGANIC NITROGEN	3.3	0.42	mg/L (PPM)	KC/TR	2/21/2022
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	KC	2/21/2022

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PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: CHRIS HOUGHTON/FLAUA
SAMPLE ID: MW-13

GTA PROJECT NO: 021522-2
GTA SAMPLE NO: 4
DATE RECEIVED: 2/15/2022
TIME RECEIVED: 2:15 PM
DATE SAMPLED: 2/15/2022
TIME SAMPLED:
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	0.070	0.015	mg/L (PPM)	KC	2/21/2022
CHLORIDE EPA 300.0	47	10	mg/L (PPM)	TR	2/17/2022
CONDUCTIVITY SM2510-B	700	1.0	uS/cm@25C	TR	2/17/2022
NITRATE-N EPA 300.0	3.7	0.20	mg/L (PPM)	TR	2/17/2022
NITRITE-N EPA 300.0	<0.20	0.20	mg/L (PPM)	TR	2/17/2022
SODIUM EPA 200.8	25	0.50	mg/L (PPM)	MR	2/17/2022
TOTAL INORGANIC NITROGEN	3.8	0.42	mg/L (PPM)	KC/TR	2/21/2022
TOTAL PHOSPHORUS EPA 365.3	0.012	0.010	mg/L (PPM)	KC	2/21/2022

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LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: CHRIS HOUGHTON/FLAUA
SAMPLE ID: MW-14

GTA PROJECT NO: 021522-2
GTA SAMPLE NO: 5
DATE RECEIVED: 2/15/2022
TIME RECEIVED: 2:15 PM
DATE SAMPLED: 2/15/2022
TIME SAMPLED:
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<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	2/21/2022
CHLORIDE EPA 300.0	25	10	mg/L (PPM)	TR	2/17/2022
CONDUCTIVITY SM2510-B	560	1.0	uS/cm@25C	TR	2/17/2022
NITRATE-N EPA 300.0	1.8	0.20	mg/L (PPM)	TR	2/17/2022
NITRITE-N EPA 300.0	<0.20	0.20	mg/L (PPM)	TR	2/17/2022
SODIUM EPA 200.8	16	0.50	mg/L (PPM)	MR	2/17/2022
TOTAL INORGANIC NITROGEN	1.8	0.42	mg/L (PPM)	KC/TR	2/21/2022
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	KC	2/21/2022

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PROJECT NO: QUARTERLY MONITOR WELLS
LOCATION: 10701 VAN'S LANE
FIFE LAKE
MI
SAMPLED BY: CHRIS HOUGHTON/FLAUA
SAMPLE ID: MW-15

GTA PROJECT NO: 021522-2
GTA SAMPLE NO: 6
DATE RECEIVED: 2/15/2022
TIME RECEIVED: 2:15 PM
DATE SAMPLED: 2/15/2022
TIME SAMPLED:
SAMPLE MATRIX: WATER

SAMPLE RESULTS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
AMMONIA-N EPA 350.1	0.10	0.015	mg/L (PPM)	KC	2/21/2022
CHLORIDE EPA 300.0	25	10	mg/L (PPM)	TR	2/17/2022
CONDUCTIVITY SM2510-B	490	1.0	uS/cm@25C	TR	2/17/2022
NITRATE-N EPA 300.0	3.2	0.20	mg/L (PPM)	TR	2/17/2022
NITRITE-N EPA 300.0	<0.20	0.20	mg/L (PPM)	TR	2/17/2022
SODIUM EPA 200.8	21	0.50	mg/L (PPM)	MR	2/17/2022
TOTAL INORGANIC NITROGEN	3.3	0.42	mg/L (PPM)	KC/TR	2/21/2022
TOTAL PHOSPHORUS EPA 365.3	<0.010	0.010	mg/L (PPM)	KC	2/21/2022

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CHAIN OF CUSTODY

PROJECT NUMBER <i>Quarterly Monitoring wells</i>	SITE NAME/ADDRESS <i>10701 Vans Lane FL, M.</i>	COMPANY/NAME <i>FLAUA</i>
SAMPLED BY <i>Chris Houghton</i>	COMPANY <i>FLAUA</i>	GTA PROJECT # <i>021522-2</i> <i>Quarterly Monitoring Well</i>

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
2	<i>MW 5</i>	<i>2/15/22</i>		<i>w/w</i>	<i>Quarterly Monitoring Well</i>
2	<i>MW 7</i>				
2	<i>MW 12</i>				
2	<i>MW 13</i>				
2	<i>MW 14</i>				
2	<i>MW 15</i>				

BILL TO: <i>FLAUA</i>	TempRec: ☐ <i>2.2°</i>	On Ice? ☒ Y ☐ N	REPORT TO: <i>RAY RAVARY</i> <i>provide net</i> <i>FLAUA</i> <i>Att. wet</i>
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RELEASED BY <i>RAY RAVARY</i>	DATE/TIME <i>2-15-22 2:15</i>	RECEIVED BY <i>K. Olin</i>	DATE/TIME <i>2/15/22 2:15P</i>

REQUESTED TAT ☐ STANDARD ☐ 1 BUSINESS DAY ☐ 2 BUSINESS DAYS ☐ 3 BUSINESS DAYS