



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: MONTHLY

GTA ProjNo: 080619-2

Site Addr: 1005 ISLAND LAKE RD

KALKASKA

Sampled By: JAKE TURNIPSEED/VOK

Date Rec: 8/6/2019

Time Rec: 10:03 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	INFLUENT	8/6/2019	7:31 AM	WATER
2	EFFLUENT	8/6/2019	7:36 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 L Chase

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COMPANY:	VILLAGE OF KALKASKA	GTA PROJECT NO:	080619-2
PROJECT NO:	MONTHLY	GTA SAMPLE NO:	1
LOCATION:	1005 ISLAND LAKE RD	DATE RECEIVED:	8/6/2019
	KALKASKA	TIME RECEIVED:	10:03 AM
	MI	DATE SAMPLED:	8/6/2019
		TIME SAMPLED:	7:31 AM
SAMPLED BY:	JAKE TURNIPSEED/VOK	SAMPLE MATRIX:	WATER
SAMPLE ID:	INFLUENT		

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	31	0.30	mg/L (PPM)	KC	8/27/2019
TOTAL PHOSPHORUS EPA 365.2	4.2	0.050	mg/L (PPM)	LV	8/15/2019

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: MONTHLY
LOCATION: 1005 ISLAND LAKE RD
KALKASKA
MI
SAMPLED BY: JAKE TURNIPSEED/VOK
SAMPLE ID: EFFLUENT

GTA PROJECT NO: 080619-2
GTA SAMPLE NO: 2
DATE RECEIVED: 8/6/2019
TIME RECEIVED: 10:03 AM
DATE SAMPLED: 8/6/2019
TIME SAMPLED: 7:36 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	<0.030	0.030	mg/L (PPM)	KC	8/27/2019
CHLORIDE EPA 300.0	320	2.5	mg/L (PPM)	LV	8/6/2019
NITRATE-N EPA 300.0	0.53	0.10	mg/L (PPM)	LV	8/6/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	8/6/2019
SODIUM DISS EPA 200.8	200	2.5	mg/L (PPM)	MR	8/8/2019
TOTAL PHOSPHORUS EPA 365.2	0.18	0.010	mg/L (PPM)	LV	8/15/2019

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

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

DISS = DISSOLVED

G.T. ANALYTICAL**QAQC - METALS EPA 7000 SERIES**

Company: VILLAGE OF KALKASKA
Proect no: MONTHLY
Location: 1005 ISLAND LAKE RD
KALKASKA
MI

GTA Project No: 080619-2
Date Rec: 06-Aug-19
Time Rec: 10:03 AM

CALIBRATION and INDEPENDENT CHECK

<u>Metals Method:</u>	<u>Date:</u>	<u>Curve Correlation:</u>	<u>CONTINUING CALIBRATION:</u>				<u>INDEPENDENT CHECK:</u>			
			<u>Units:</u>	<u>True:</u>	<u>Obs:</u>	<u>%DEV</u>	<u>Units:</u>	<u>True:</u>	<u>Obs:</u>	<u>%DEV</u>
SODIUM EPA 200.8	8/8/2019	0.9999	PPB	200	202	0.5	PPB	500	483	-1.7
	Blank Obs(PPB):	1.50								

CURVE CORRELATION IS VALID IF IT IS AT LEAST 0.99XXX CURVE CORRELATION IS VALID IF IT IS AT LEAST 0.99XXX
CONTINUING CAL AND INDEPENDENT CHECK MUST BE LESS THAN 20% DEVIATION.
BLANK OBSERVED MUST BE ZERO OR LESS THAN DETECTION LIMIT.

3 QC TOTAL PHOSPHORUS EPA 356.3

CONTINUING CAL

DATE: 8/15/2019

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
PHOSPHORUS	0.50	0.52	-2.0	PASS

PROCEDURAL BLANK

DATE: 8/15/2019

	<u>OBS PPM</u>	<u><0.01PPM?</u>
PHOSPHORUS	0	PASS

SPIKE/DUP SPIKE

DATE: 8/15/2019

SAMPLE: 080619-2-2

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
PHOSPHORUS	0.56	0.50	112	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
PHOSPHORUS	0.56	0.50	112	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-15%?</u>
PHOSPHORUS	112.0	112.0	0.0	PASS

1 QC EPA 300.0 ANIONS

CONTINUING CAL

DATE: 8/6/2019

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	8	7.75	1.6	PASS
NITRATE-N	3.52	3.48	0.6	PASS
NITRITE-N	3.04	2.95	1.5	PASS

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DATE: 8/6/2019

	<u>OBS PPM</u>	<u><0.1PPM?</u>
CHLORIDE	0	PASS
NITRATE-N	0	PASS
NITRITE-N	0	PASS

SPIKE/DUP SPIKE

DATE: 8/6/2019

SAMPLE: PROC BLANK

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	3.71	4	92.8	PASS
NITRATE-N	1.78	1.84	96.7	PASS
NITRITE-N	6.00	6.08	98.7	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	3.74	4	93.5	PASS
NITRATE-N	1.81	1.84	98.4	PASS
NITRITE-N	6.01	6.08	98.8	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	92.8	93.5	-0.4	PASS
NITRATE-N	96.7	98.4	-0.8	PASS
NITRITE-N	98.7	98.8	-0.1	PASS

3 QC AMMONIA-N EPA 350.1

CONTINUING CAL

DATE: 8/27/2019

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
AMMONIA-N	0.50	0.53	-2.9	PASS

PROCEDURAL BLANK

DATE: 8/27/2019

	<u>OBS PPM</u>	<u><0.01PPM?</u>
AMMONIA-N	0	PASS

SPIKE/DUP SPIKE

DATE: 8/27/2019

SAMPLE: 082019-3-1

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
AMMONIA-N	0.55	0.5	110.0	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
AMMONIA-N	0.52	0.5	104.0	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-15%?</u>
AMMONIA-N	110	104	2.8	PASS

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Monthly

[illegible]