



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: 020420-4

Site Addr: 1005 ISLAND LAKE RD
KALKASKA
Sampled By: JAKE TURNIPSEED/VOK
Date Rec: 2/4/2020
Time Rec: 11:35 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	INFLUENT	2/4/2020	7:38 AM	WATER
2	EFFLUENT	2/4/2020	7:41 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

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COMPANY:	VILLAGE OF KALKASKA	GTA PROJECT NO:	020420-4
PROJECT NO:	MONTHLY	GTA SAMPLE NO:	1
LOCATION:	1005 ISLAND LAKE RD	DATE RECEIVED:	2/4/2020
	KALKASKA	TIME RECEIVED:	11:35 AM
	MI	DATE SAMPLED:	2/4/2020
		TIME SAMPLED:	7:38 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	20	0.30	mg/L (PPM)	KC	2/20/2020
TOTAL PHOSPHORUS EPA 365.2	3.7	0.050	mg/L (PPM)	LV	2/13/2020

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	GTA PROJECT NO:	020420-4
PROJECT NO:	MONTHLY	GTA SAMPLE NO:	2
LOCATION:	1005 ISLAND LAKE RD	DATE RECEIVED:	2/4/2020
	KALKASKA	TIME RECEIVED:	11:35 AM
	MI	DATE SAMPLED:	2/4/2020
		TIME SAMPLED:	7:41 AM
SAMPLED BY:	JAKE TURNIPSEED/VOK	SAMPLE MATRIX:	WATER
SAMPLE ID:	EFFLUENT		

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	0.068	0.030	mg/L (PPM)	KC	2/20/2020
CHLORIDE EPA 300.0	520	10	mg/L (PPM)	LV	2/4/2020
NITRATE-N EPA 300.0	0.39	0.10	mg/L (PPM)	LV	2/4/2020
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	2/4/2020
SODIUM DISS EPA 200.8	500	2.5	mg/L (PPM)	MR	2/8/2020
TOTAL PHOSPHORUS EPA 365.2	0.14	0.010	mg/L (PPM)	LV	2/13/2020

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: 020420-4
Date Rec: 04-Feb-20
Time Rec: 11:35 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	2/8/2020	0.9997	PPB	200	295	19.2	PPB	500	575	7.0
	Blank Obs(PPB):	12.00								

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.

1 QC EPA 300.0 ANIONS

CONTINUING CAL

DATE: 2/4/2020

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	8	8.24	-1.5	PASS
NITRATE-N	3.52	3.82	-4.1	PASS
NITRITE-N	3.04	3.27	-3.6	PASS

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DATE: 2/4/2020

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

SPIKE/DUP SPIKE

DATE: 2/4/2020

SAMPLE: PROC BLANK

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	3.81	4	95.3	PASS
NITRATE-N	2.02	1.84	109.8	PASS
NITRITE-N	6.90	6.08	113.5	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	3.71	4	92.8	PASS
NITRATE-N	1.71	1.84	92.9	PASS
NITRITE-N	6.41	6.08	105.4	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	95.3	92.8	1.3	PASS
NITRATE-N	109.8	92.9	8.3	PASS
NITRITE-N	113.5	105.4	3.7	PASS

3 QC TOTAL PHOSPHORUS EPA 356.3

CONTINUING CAL

DATE: 2/13/2020

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
PHOSPHORUS	0.50	0.55	-4.8	PASS

PROCEDURAL BLANK

DATE: 2/13/2020

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

SPIKE/DUP SPIKE

DATE: 2/13/2020

SAMPLE: 020420-4-2

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
PHOSPHORUS	0.53	0.50	106	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
PHOSPHORUS	0.52	0.50	104	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-15%?</u>
PHOSPHORUS	106.0	104.0	1.0	PASS

3 QC AMMONIA-N EPA 350.1

CONTINUING CAL

DATE: 2/20/2020

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
AMMONIA-N	0.50	0.48	2.0	PASS

PROCEDURAL BLANK

DATE: 2/20/2020

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

SPIKE/DUP SPIKE

DATE: 2/20/2020

SAMPLE: 021120-1-1

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
AMMONIA-N	0.46	0.5	92.0	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
AMMONIA-N	0.48	0.5	96.0	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-15%?</u>
AMMONIA-N	92	96	-2.1	PASS

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MONTHLY

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