

**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: 090319-2

Site Addr: 1005 ISLAND LAKE RD
KALKASKA
Sampled By: JAKE TURNIPSEED/VOK
Date Rec: 9/3/2019
Time Rec: 10:54 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	INFLUENT	9/3/2019	7:24 AM	WATER
2	EFFLUENT	9/3/2019	7:31 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

Kirk L. Chase/Chemist
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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: INFLUENT

GTA PROJECT NO: 090319-2

GTA SAMPLE NO: 1

DATE RECEIVED: 9/3/2019
TIME RECEIVED: 10:54 AMDATE SAMPLED: 9/3/2019
TIME SAMPLED: 7:24 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	31	0.30	mg/L (PPM)	KC	9/11/2019
TOTAL PHOSPHORUS EPA 365.2	5.6	0.050	mg/L (PPM)	LV	9/10/2019

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: 090319-2
GTA SAMPLE NO: 2
DATE RECEIVED: 9/3/2019
TIME RECEIVED: 10:54 AM
DATE SAMPLED: 9/3/2019
TIME SAMPLED: 7:31 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	9/11/2019
CHLORIDE EPA 300.0	270	10	mg/L (PPM)	LV	9/3/2019
NITRATE-N EPA 300.0	0.86	0.10	mg/L (PPM)	LV	9/3/2019
NITRITE-N EPA 300.0	<0.10	0.10	mg/L (PPM)	LV	9/3/2019
SODIUM DISS EPA 200.8	160	2.5	mg/L (PPM)	MR	9/6/2019
TOTAL PHOSPHORUS EPA 365.2	0.24	0.010	mg/L (PPM)	LV	9/10/2019

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: 090319-2
Date Rec: 03-Sep-19
Time Rec: 10:54 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	9/6/2019	0.9999	PPB	200	185	-3.9	PPB	500	416	-9.2
	Blank Obs(PPB):	6.90								

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: 9/3/2019

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	8	7.93	0.4	PASS
NITRATE-N	3.52	3.50	0.3	PASS
NITRITE-N	3.04	3.08	-0.7	PASS

BLANK

DATE: 9/3/2019

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

SPIKE/DUP SPIKE

DATE: 9/3/2019

SAMPLE: PROC BLANK

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	3.95	4	98.8	PASS
NITRATE-N	1.77	1.84	96.2	PASS
NITRITE-N	5.83	6.08	95.9	PASS

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
CHLORIDE	4.00	4	100.0	PASS
NITRATE-N	1.80	1.84	97.8	PASS
NITRITE-N	6.00	6.08	98.7	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-10%?</u>
CHLORIDE	98.8	100.0	-0.6	PASS
NITRATE-N	96.2	97.8	-0.8	PASS
NITRITE-N	95.9	98.7	-1.4	PASS

3 QC TOTAL PHOSPHORUS EPA 356.3

CONTINUING CAL

DATE: 9/10/2019

	<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: 9/10/2019

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

SPIKE/DUP SPIKE

DATE: 9/10/2019

SAMPLE: 090319-1-2

	<u>SPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
PHOSPHORUS	0.51	0.50	102	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	102.0	104.0	-1.0	PASS

3 QC AMMONIA-N EPA 350.1

CONTINUING CAL

DATE: 9/11/2019

	<u>TRUE PPM</u>	<u>OBS PPM</u>	<u>%DEV</u>	<u>+/-10%?</u>
AMMONIA-N	0.50	0.50	0.2	PASS

PROCEDURAL BLANK

DATE: 9/11/2019

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

SPIKE/DUP SPIKE

DATE: 9/11/2019

SAMPLE: 083019-6-1

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

	<u>DSPK OBS</u>	<u>TRUE</u>	<u>%REC</u>	<u>80-120%?</u>
AMMONIA-N	0.50	0.5	100.0	PASS

	<u>SPK</u>	<u>DSPK</u>	<u>%DEV</u>	<u>+/-15%?</u>
AMMONIA-N	96	100	-2.0	PASS

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