



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: HURON ENGINEERING
Name:
ClientProj: 24.074
GTA ProjNo: 071625-2

Site Addr: VILLAGE OF HILLMAN

Sampled By: ALEX STRUBLE/HURON
Date Rec: 7/16/2025
Time Rec: 11:30 AM

Sample No.	Sample ID	Date Sampled	Time Sampled	Sample Matrix
1	OW-2	7/15/2025	12:15 PM	WATER
2	OW-3	7/15/2025	1:55 PM	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
Ph: 231-929-0905
Fx: 231-929-0894
SP: 231-590-0291
kirk@gtanalytical.com



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: HURON ENGINEERING
 PROJECT NO: 24.074
 LOCATION: VILLAGE OF HILLMAN

GTA PROJECT NO: 071625-2
 GTA SAMPLE NO: 1

DATE SAMPLED: 7/15/2025
 TIME SAMPLED: 12:15 PM
 DATE RECEIVED: 7/16/2025
 TIME RECEIVED: 11:30 AM

SAMPLED BY: ALEX STRUBLE/HURON

SAMPLE MATRIX: WATER

SAMPLE ID: OW-2

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date Extracted=

Date Completed= 7/17/2025

Prep Method= EPA 5030B

Analyte	Concentration	LOD	Analyte	Concentration	LOD
ACETONE	ND	25	cis-1,3-DICHLOROPROPENE	ND	1.0
ALLYL CHLORIDE	ND	10	trans-1,3-DICHLOROPROPENE	ND	1.0
BENZENE	ND	1.0	DIETHYL ETHER	ND	10
BROMOBENZENE	ND	1.0	ETHYLBENZENE	ND	1.0
BROMOCHLOROMETHANE	ND	1.0	ETHYL METHACRYLATE	ND	10
BROMODICHLOROMETHANE	ND	1.0	HEXACHLOROBUTADIENE	ND	1.0
BROMOFORM	ND	1.0	HEXACHLOROETHANE	ND	10
BROMOMETHANE	ND	1.0	2-HEXANONE	ND	10
n-BUTYLBENZENE	ND	1.0	IDOMETHANE	ND	10
s-BUTYLBENZENE	ND	1.0	ISOPROPYLBENZENE	ND	1.0
t-BUTYLBENZENE	ND	1.0	ISOPROPYLTOLUENE	ND	1.0
CARBON DISULFIDE	ND	5.0	METHYL ACRYLATE	ND	10
CARBON TETRACHLORIDE	ND	1.0	METHYL ETHYL KETONE	ND	10
CHLOROENZENE	ND	1.0	METHYL-t-BUTYL ETHER	ND	5.0
1-CHLOROBUTANE	ND	1.0	METHYLENE CHLORIDE	ND	1.0
CHLOROFORM	ND	1.0	METHYL METHACRYLATE	ND	10
CHLOROETHANE	ND	1.0	MIBK	ND	10
CHLOROMETHANE	ND	1.0	2-METHYLNAPHTHALENE	ND	5.0
2-CHLOROTOLUENE	ND	1.0	NAPHTHALENE	ND	5.0
4-CHLOROTOLUENE	ND	1.0	PENTACHLOROETHANE	ND	10
DIBROMOCHLOROMETHANE	ND	1.0	n-PROPYLBENZENE	ND	1.0
DIBROMOMETHANE	ND	1.0	STYRENE	ND	1.0
1,2-DIBROMOETHANE	ND	1.0	1,1,1,2-TETRACHLOROETHANE	ND	1.0
1,2-DICHLOROENZENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	1.0
1,3-DICHLOROENZENE	ND	1.0	TETRACHLOROETHENE	ND	1.0
1,4-DICHLOROENZENE	ND	1.0	TOLUENE	ND	1.0
t-1,4-DICHLORO-2-BUTENE	ND	10	1,2,3-TRICHLOROENZENE	ND	1.0
DICHLORODIFLUOROMETHANE	ND	1.0	1,2,4-TRICHLOROENZENE	ND	1.0
1,1-DICHLOROETHANE	ND	1.0	1,1,1-TRICHLOROETHANE	ND	1.0
1,2-DICHLOROETHANE	ND	1.0	1,1,2-TRICHLOROETHANE	ND	1.0
1,1-DICHLOROETHENE	ND	1.0	TRICHLOROETHENE	ND	1.0
cis-1,2-DICHLOROETHENE	ND	1.0	TRICHLORFLUOROMETHANE	ND	1.0
trans-1,2-DICHLOROETHENE	ND	1.0	1,2,3-TRICHLOROPROPANE	ND	1.0
1,2-DICHLOROPROPANE	ND	1.0	1,2,4-TRIMETHYLBENZENE	ND	1.0
1,3-DICHLOROPROPANE	ND	1.0	1,3,5-TRIMETHYLBENZENE	ND	1.0
2,2-DICHLOROPROPANE	ND	1.0	VINYL CHLORIDE	ND	1.0
1,1-DICHLOROPROPENE	ND	1.0	XYLENE (TOTAL)	ND	3.0

ND = NOT DETECTED, RESULT IS <LOD.

LOD = LIMIT OF DETECTION.



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: HURON ENGINEERING
 PROJECT NO: 24.074
 LOCATION: VILLAGE OF HILLMAN
 MI
 SAMPLED BY: ALEX STRUBLE/HURON
 SAMPLE ID: OW-2

GTA PROJECT NO: 071625-2
 GTA SAMPLE NO: 1
 DATE SAMPLED: 7/15/2025
 TIME SAMPLED: 12:15 PM
 DATE RECEIVED: 7/16/2025
 TIME RECEIVED: 11:30 AM
 SAMPLE MATRIX: WATER

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISSOLVED EPA 6020A	77	5.0	mg/L (PPM)	MR	7/21/2025	EPA 3005A
IRON DISSOLVED EPA 6020A	ND	0.050	mg/L (PPM)	MR	7/21/2025	EPA 3005A
MAGNESIUM DISSOLVED EPA 6020A	18	5.0	mg/L (PPM)	MR	7/21/2025	EPA 3005A
MANGANESE DISSOLVED EPA 6020A	ND	0.0010	mg/L (PPM)	MR	7/21/2025	EPA 3005A
POTASSIUM DISSOLVED EPA 6020A	2.1	0.50	mg/L (PPM)	MR	7/21/2025	EPA 3005A
SODIUM DISSOLVED EPA 6020A	3.4	0.50	mg/L (PPM)	MR	7/21/2025	EPA 3005A

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 DISS = DISSOLVED



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: HURON ENGINEERING
PROJECT NO: 24.074
LOCATION: VILLAGE OF HILLMAN
MI
SAMPLED BY: ALEX STRUBLE/HURON
SAMPLE ID: OW-2
GTA PROJECT NO: 071625-2
GTA SAMPLE NO: 1
DATE RECEIVED: 7/16/2025
TIME RECEIVED: 11:30 AM
DATE SAMPLED: 7/15/2025
TIME SAMPLED: 12:15 PM
SAMPLE MATRIX: WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	300	10	mg/L (PPM)	TR	7/18/2025
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/18/2025
CHLORIDE EPA 300.0	12	10	mg/L (PPM)	KC	7/17/2025
NITRATE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC	7/17/2025
NITRITE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC	7/17/2025
SULFATE EPA 300.0	ND	1.0	mg/L (PPM)	KC	7/17/2025

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C
DISS = DISSOLVED



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY: HURON ENGINEERING
 PROJECT NO: 24.074
 LOCATION: VILLAGE OF HILLMAN

GTA PROJECT NO: 071625-2
 GTA SAMPLE NO: 2

DATE SAMPLED: 7/15/2025
 TIME SAMPLED: 1:55 PM
 DATE RECEIVED: 7/16/2025
 TIME RECEIVED: 11:30 AM

SAMPLED BY: ALEX STRUBLE/HURON

SAMPLE MATRIX: WATER

SAMPLE ID: OW-3

EPA 8260B VOLATILE ORGANICS

Units= ug/L (PPB)

Analyst= MR

Date Extracted=

Date Completed= 7/17/2025

Prep Method= EPA 5030B

Analyte	Concentration	LOD	Analyte	Concentration	LOD
ACETONE	ND	25	cis-1,3-DICHLOROPROPENE	ND	1.0
ALLYL CHLORIDE	ND	10	trans-1,3-DICHLOROPROPENE	ND	1.0
BENZENE	ND	1.0	DIETHYL ETHER	ND	10
BROMOBENZENE	ND	1.0	ETHYLBENZENE	ND	1.0
BROMOCHLOROMETHANE	ND	1.0	ETHYL METHACRYLATE	ND	10
BROMODICHLOROMETHANE	ND	1.0	HEXACHLOROBUTADIENE	ND	1.0
BROMOFORM	ND	1.0	HEXACHLOROETHANE	ND	10
BROMOMETHANE	ND	1.0	2-HEXANONE	ND	10
n-BUTYLBENZENE	ND	1.0	IDOMETHANE	ND	10
s-BUTYLBENZENE	ND	1.0	ISOPROPYLBENZENE	ND	1.0
t-BUTYLBENZENE	ND	1.0	ISOPROPYLTOLUENE	ND	1.0
CARBON DISULFIDE	ND	5.0	METHYL ACRYLATE	ND	10
CARBON TETRACHLORIDE	ND	1.0	METHYL ETHYL KETONE	ND	10
CHLOROENZENE	ND	1.0	METHYL-t-BUTYL ETHER	ND	5.0
1-CHLOROBUTANE	ND	1.0	METHYLENE CHLORIDE	ND	1.0
CHLOROFORM	ND	1.0	METHYL METHACRYLATE	ND	10
CHLOROETHANE	ND	1.0	MIBK	ND	10
CHLOROMETHANE	ND	1.0	2-METHYLNAPHTHALENE	ND	5.0
2-CHLOROTOLUENE	ND	1.0	NAPHTHALENE	ND	5.0
4-CHLOROTOLUENE	ND	1.0	PENTACHLOROETHANE	ND	10
DIBROMOCHLOROMETHANE	ND	1.0	n-PROPYLBENZENE	ND	1.0
DIBROMOMETHANE	ND	1.0	STYRENE	ND	1.0
1,2-DIBROMOETHANE	ND	1.0	1,1,1,2-TETRACHLOROETHANE	ND	1.0
1,2-DICHLOROENZENE	ND	1.0	1,1,2,2-TETRACHLOROETHANE	ND	1.0
1,3-DICHLOROENZENE	ND	1.0	TETRACHLOROETHENE	ND	1.0
1,4-DICHLOROENZENE	ND	1.0	TOLUENE	ND	1.0
t-1,4-DICHLORO-2-BUTENE	ND	10	1,2,3-TRICHLOROENZENE	ND	1.0
DICHLORODIFLUOROMETHANE	ND	1.0	1,2,4-TRICHLOROENZENE	ND	1.0
1,1-DICHLOROETHANE	ND	1.0	1,1,1-TRICHLOROETHANE	ND	1.0
1,2-DICHLOROETHANE	ND	1.0	1,1,2-TRICHLOROETHANE	ND	1.0
1,1-DICHLOROETHENE	ND	1.0	TRICHLOROETHENE	ND	1.0
cis-1,2-DICHLOROETHENE	ND	1.0	TRICHLORFLUOROMETHANE	ND	1.0
trans-1,2-DICHLOROETHENE	ND	1.0	1,2,3-TRICHLOROPROPANE	ND	1.0
1,2-DICHLOROPROPANE	ND	1.0	1,2,4-TRIMETHYLBENZENE	ND	1.0
1,3-DICHLOROPROPANE	ND	1.0	1,3,5-TRIMETHYLBENZENE	ND	1.0
2,2-DICHLOROPROPANE	ND	1.0	VINYL CHLORIDE	ND	1.0
1,1-DICHLOROPROPENE	ND	1.0	XYLENE (TOTAL)	ND	3.0

ND = NOT DETECTED, RESULT IS <LOD.

LOD = LIMIT OF DETECTION.



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY:	HURON ENGINEERING	GTA PROJECT NO:	071625-2
PROJECT NO:	24.074	GTA SAMPLE NO:	2
LOCATION:	VILLAGE OF HILLMAN	DATE SAMPLED:	7/15/2025
		TIME SAMPLED:	1:55 PM
		DATE RECEIVED:	7/16/2025
	MI	TIME RECEIVED:	11:30 AM
SAMPLED BY:	ALEX STRUBLE/HURON	SAMPLE MATRIX:	WATER
SAMPLE ID:	OW-3		

METALS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>	<u>Digestion Method</u>
CALCIUM DISSOLVED EPA 6020A	76	5.0	mg/L (PPM)	MR	7/21/2025	EPA 3005A
IRON DISSOLVED EPA 6020A	ND	0.050	mg/L (PPM)	MR	7/21/2025	EPA 3005A
MAGNESIUM DISSOLVED EPA 6020A	22	5.0	mg/L (PPM)	MR	7/21/2025	EPA 3005A
MANGANESE DISSOLVED EPA 6020A	0.0048	0.0010	mg/L (PPM)	MR	7/21/2025	EPA 3005A
POTASSIUM DISSOLVED EPA 6020A	1.2	0.50	mg/L (PPM)	MR	7/21/2025	EPA 3005A
SODIUM DISSOLVED EPA 6020A	2.2	0.50	mg/L (PPM)	MR	7/21/2025	EPA 3005A

ND = NOT DETECTED, RESULT < LOD

LOD = LIMIT OF DETECTION

DISS = DISSOLVED



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

COMPANY:	HURON ENGINEERING	GTA PROJECT NO:	071625-2
PROJECT NO:	24.074	GTA SAMPLE NO:	2
LOCATION:	VILLAGE OF HILLMAN	DATE RECEIVED:	7/16/2025
	MI	TIME RECEIVED:	11:30 AM
SAMPLED BY:	ALEX STRUBLE/HURON	DATE SAMPLED:	7/15/2025
SAMPLE ID:	OW-3	TIME SAMPLED:	1:55 PM
		SAMPLE MATRIX:	WATER

SAMPLE ANALYSIS

<u>Analysis</u>	<u>Concentration</u>	<u>LOD</u>	<u>Units</u>	<u>Analyst</u>	<u>Date Completed</u>
ALKALINITY SM 4500CO2D (BICARBONATE)	260	10	mg/L (PPM)	TR	7/18/2025
ALKALINITY SM 4500CO2D (CARBONATE)	ND	10	mg/L (PPM)	TR	7/18/2025
CHLORIDE EPA 300.0	67	10	mg/L (PPM)	KC	7/17/2025
NITRATE-N EPA 300.0	0.48	0.20	mg/L (PPM)	KC	7/17/2025
NITRITE-N EPA 300.0	ND	0.20	mg/L (PPM)	KC	7/17/2025
SULFATE EPA 300.0	16	1.0	mg/L (PPM)	KC	7/17/2025

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C
 DISS = DISSOLVED

CHAIN OF CUSTODY

PROJECT NUMBER 24,074	SITE NAME/ADDRESS Village of Hillman - 2025 OWs	COMPANY/NAME Huron Village of Hillman
SAMPLED BY Alex Struble	COMPANY Huron Engineering and Surveying	GTA PROJECT # 071625-2

SAMPLE INFORMATION

#	SAMPLE ID	DATE SAMPLED	TIME	MATRIX	ANALYSIS
	OW 2	07/15/25	1215	GW	Diss. Fe, Mn, Nitrate, Nitrite, Sulfate, Chloride, Sodium, Potassium, Calcium, Magnesium, Carbonate, Bi-carbonate, Alkalinity, VOCs
	OW 3	07/15/25	1355	GW	Same as above

BILL TO: KWB Huron	TempRec: <input type="checkbox"/> 0.2°c	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	REPORT TO: KWB Huron
------------------------------	---	--	--------------------------------

RELEASED BY <i>[Signature]</i>	DATE/TIME	RECEIVED BY Alpena UPS <i>[Signature]</i>	DATE/TIME 07/15/25 pm 7/16/25 11:30
--	------------------	--	--

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