

Charter Township of Grand Blanc

Consumer Confidence Report

2001

**Jeffrey Zittel
Supervisor**

**Charter Township of Grand Blanc
Consumer Confidence Report
2001**

This report covers the drinking water quality for the Charter Township of Grand Blanc for the calendar year 2001. This information is a snapshot of the quality of the water that we provided in 2001. Included in this report are details about where your water comes from, what it contains and how it compares to Environmental Protection Agency (EPA) and state standards.

Our water comes from Lake Huron, (see map on page 4) which is considered a surface water supply. An assessment of our source water will be conducted by the Michigan Department of Environmental Quality by 2003. We will inform you on how to acquire this assessment report when it becomes available.

Contaminants and their presence in water: Drinking water, and bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants DOES NOT necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Vulnerability of Sub Populations: Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as chemotherapy patients, organ transplant recipients, those suffering from HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791)

Contaminants that may be present in the source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture and residential uses.
- Radioactive contaminants, which are naturally occurring.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production and can also come from gas stations, urban runoff, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public systems. Food & Drug Administration regulations establish limits for contaminants in bottled water which provide the same protection for public health.

Water Quality Data

The following tables list all the drinking water contaminants that we detected during the 2001 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in these tables are from testing done during the calendar year 2001. The State allows us to monitor certain contaminants less than once each year because the concentration of the contaminants is not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old.

Lead: Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of the materials used in your homes plumbing. If you are concerned about elevated lead levels in your homes water, you may wish to have your water tested. You can also flush your tap for 30 seconds to 2 minutes before using your water. Additional information is available from the Safe Drinking Water Hotline at 1-800-426-4791.

Lead and copper levels were tested during 2001 and were found to be within acceptable levels. The 90 percentile lead value was 1 ppb, and the 90 percentile copper value was 12 ppb. These values are well below the action levels mandated the Michigan Safe Drinking Water Act, 1976 P.A. 399, as amended.

Is our water system operating properly and meeting the rules established by the State and EPA?

YES! We have met all the State and EPA requirements, i.e., water testing, monitoring and reporting for 2001.

During 2001 we collected 96 bacteriological samples throughout our water distribution system. However, there was one sample that showed positive for bacti. Further investigation showed no presence of bacteria. We are certain that the positive test was due to laboratory or sampling errors. A violation was issued by the DEQ and the Township took appropriate action.

We are committed to providing you safe, reliable and healthy water. We are pleased to provide you with this information to keep you fully informed about your water. We will be updating this report annually, and will also keep you informed of any problems that may occur throughout the year

For more information on your water or the contents of this report, you may contact Norm Riopelle at 810-424-2642 or you can additional information on our web site www.twp@grand-blanc.mi.us or on the EPA web site www.epa.gov/epahome/rules.html

Michigan Department of Environmental Quality

DWRP Laboratory Services - Drinking Water Lab
USEPA Region V Drinking Water Lab Cert. No. MI00003
P.O. Box 30270, Lansing, MI 48909-7770

TEL: 517/335-8184 FAX: 517/335-8562

Official Laboratory Report

Report To:

Richard M Aubin
G4612 Beecher Road
Flint MI 48532

Sample Number: C2002019767
Customer Number: 25155000

System Name/Owner: GENESEE COUNTY WATER DEPT

WSSN / Pool ID: 2615

Collection Address: 4612 Beecher Road, Flint 48532

Source: Other

Collected By: RICHARD AUBIN

Site Code: O-M

Twp/Sec/Well #: Flint/04/ ?

Collector: County Personnel

County: Genesee

Sample Date:

Sample Point: KITCHEN

Received: 2/27/2002 11:37:00AM

Sample Kit #: 32

Purpose: Routine Monitoring

Chlorination: Yes

Water System: Treated Public Distribution

Test Result	Analyte Name	Tested	Limit MCL	Rpt Limit	Test Performed
7 mg/L					CRA
0.9 mg/L			4.0 mg/L		CRA
89 mg/L					CRA
Not Detected					CRA
0.4 mg/L			10 mg/L		CRA
Not Detected			1 mg/L		CRA
Not Detected					CRA
21 mg/L					CRA

Lab Comments:
None

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 TEL: 517/335-8184 FAX: 517/335-8562

Official Laboratory Report

Report To:

Richard M Aubin
 G4612 Beecher Road
 Flint MI 48532

Sample Number: C2002019768
 Customer Number: 25155000

System Name/Owner: GENESEE COUNTY WATER DEPT

WSSN / Pool ID: 2615

Collection Address: G4612 Beecher Road, Flint 48532

Source: Other

Collected By: Richard M Aubin

Site Code: O-M

Twp/Sec/Well #: Flint/04/ ?

Collector: County Personnel

County: Genesee

Sample Date:

Sample Point: KITCHEN

Received: 2/27/2002 11:37:00AM

Sample Kit #: 36ME

Purpose: Routine Monitoring

Chlorination: Yes

Water System: Treated Public Distribution

Test Result	Analyte Name						
Not Detected	ARSENIC	3/5/2002	0.05 mg/L	0.001 mg/L	CAS	19970415	
Not Detected	COPPER	3/5/2002		0.05 mg/L	CCU	20011101	
Not Detected	IRON	3/5/2002		0.01 mg/L	CFE	20011101	
Not Detected	LEAD BY ICP/MS	3/5/2002		0.001 mg/L	CPB	19991210	
Not Detected	MANGANESE	3/5/2002		0.01 mg/L	CMN	20011101	
Not Detected	ZINC	3/5/2002		0.01 mg/L	CZN	20011101	

Lab Comments:
None

Michigan Department of Environmental Quality

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Official Laboratory Report

RECEIVED

APR 09 2002

Report To:

Richard M Aubin
G4612 Beecher Road
Flint MI 48532

Sample Number: C2002019768
Customer Number: 25155000

System Name/Owner: GENESEE COUNTY WATER DEPT

WSSN / Pool ID: 2615

Collection Address: G4612 Beecher Road, Flint 48532

Source: Other

Collected By: Richard M Aubin

Site Code: O-M

Twp/Sec/Well #: Flint/04/ ?

Collector: County Personnel

County: Genesee

Sample Date:

Sample Point: KITCHEN

Received: 2/27/2002 11:37:00AM

Sample Kit #: 36ME

Purpose: Routine Monitoring

Chlorination: Yes

Water System: Treated Public Distribution

Test Result	Analyte Name	Tested	Limit MCL	Rpt Limit	Test Performed
Not Detected	ANTIMONY				CSB
0.001 mg/L	ARSENIC				CAS
Not Detected	BARIUM				CBA
Not Detected	BERYLLIUM				CBE
Not Detected	CADMIUM				CCD
Not Detected	CHROMIUM				CCR
0.006 mg/L	LEAD BY ICP/MS				CPB
Not Detected	MERCURY		0.002 mg/L		CHG
Not Detected	NICKEL		0.1 mg/L		CNI
Not Detected	SELENIUM		0.05 mg/L		CSE
Not Detected	THALLIUM		0.002 mg/L		CTL

Lab Comments:

None

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USEPA Region V Drinking Water Lab Cert. No. MI00003
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 TEL: 517/335-8184 FAX: 517/335-8562

Official Laboratory Report

Report To:

Richard M Aubin
 G4612 Beecher Road
 Flint MI 48532

Sample Number: C2002019769
 Customer Number: 25155000

System Name/Owner: GENESEE COUNTY WATER DEPT
Collection Address: 4612 Beecher Road, Flint 48532
Collected By: Richard M Aubin
Twp/Sec/Well #: Flint/04/ ?
County: Genesee
Sample Point: KITCHEN
Sample Kit #: 36VO
Chlorination: Yes

WSSN / Pool ID: 2615
Source: Other
Site Code: O-M
Collector: County Personnel
Sample Date:
Received: 2/27/2002 11:37:00AM
Purpose: Routine Monitoring
Water System: Treated Public Distribution

Test Result	Analyte Name	Tested		Rpt Limit		
Not Detected	BENZENE	3/7/2002	0.005 mg/L	0.0005 mg/L	CXVO	19960701
Not Detected	BROMOBENZENE	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	BROMOCHLOROMETHANE	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	BROMOFORM	3/7/2002	0.080 mg/L	0.0004 mg/L	CXVO	19960701
Not Detected	BROMOMETHANE	3/7/2002		0.020 mg/L	CXVO	19960701
Not Detected	BUTYLBENZENE, NORMAL-	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	BUTYLBENZENE, SEC-	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	BUTYLBENZENE, TERT-	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	CARBON TETRACHLORIDE	3/7/2002	0.005 mg/L	0.0004 mg/L	CXVO	19960701
Not Detected	CHLOROBENZENE	3/7/2002	0.1 mg/L	0.0005 mg/L	CXVO	19960701
0.0010 mg/L	CHLORODIBROMOMETHANE	3/7/2002	0.080 mg/L	0.0004 mg/L	CXVO	19960701
Not Detected	CHLOROETHANE	3/7/2002		0.020 mg/L	CXVO	19960701
0.0045 mg/L	CHLOROFORM	3/7/2002	0.080 mg/L	0.0004 mg/L	CXVO	19960701
Not Detected	CHLOROMETHANE	3/7/2002		0.05 mg/L	CXVO	19960701
Not Detected	CHLOROTOLUENE (COMBINED)	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	DIBROMOMETHANE	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	DICHLOROBENZENE,1,2-	3/7/2002	0.6 mg/L	0.0005 mg/L	CXVO	19960701
Not Detected	DICHLOROBENZENE,1,3-	3/7/2002		0.0004 mg/L	CXVO	19960701
Not Detected	DICHLOROBENZENE,1,4-	3/7/2002	0.075 mg/L	0.0004 mg/L	CXVO	19960701
0.0029 mg/L	DICHLOROBROMOMETHANE	3/7/2002	0.080 mg/L	0.0004 mg/L	CXVO	19960701
Not Detected	DICHLORODIFLUOROMETHANE	3/7/2002		0.001 mg/L	CXVO	19960701
Not Detected	DICHLOROETHANE,1,1-	3/7/2002		0.0005 mg/L	CXVO	19960701
Not Detected	DICHLOROETHANE,1,2-	3/7/2002	0.005 mg/L	0.0005 mg/L	CXVO	19960701
Not Detected	DICHLOROETHYLENE,1,1-	3/7/2002	0.007 mg/L	0.0005 mg/L	CXVO	19960701
Not Detected	DICHLOROETHYLENE,1,2-CIS	3/7/2002	0.07 mg/L	0.0004 mg/L	CXVO	19960701
Not Detected	DICHLOROETHYLENE,1,2-TRANS	3/7/2002	0.1 mg/L	0.0004 mg/L	CXVO	19960701

Michigan Department of Environmental Quality
 Official Laboratory Report

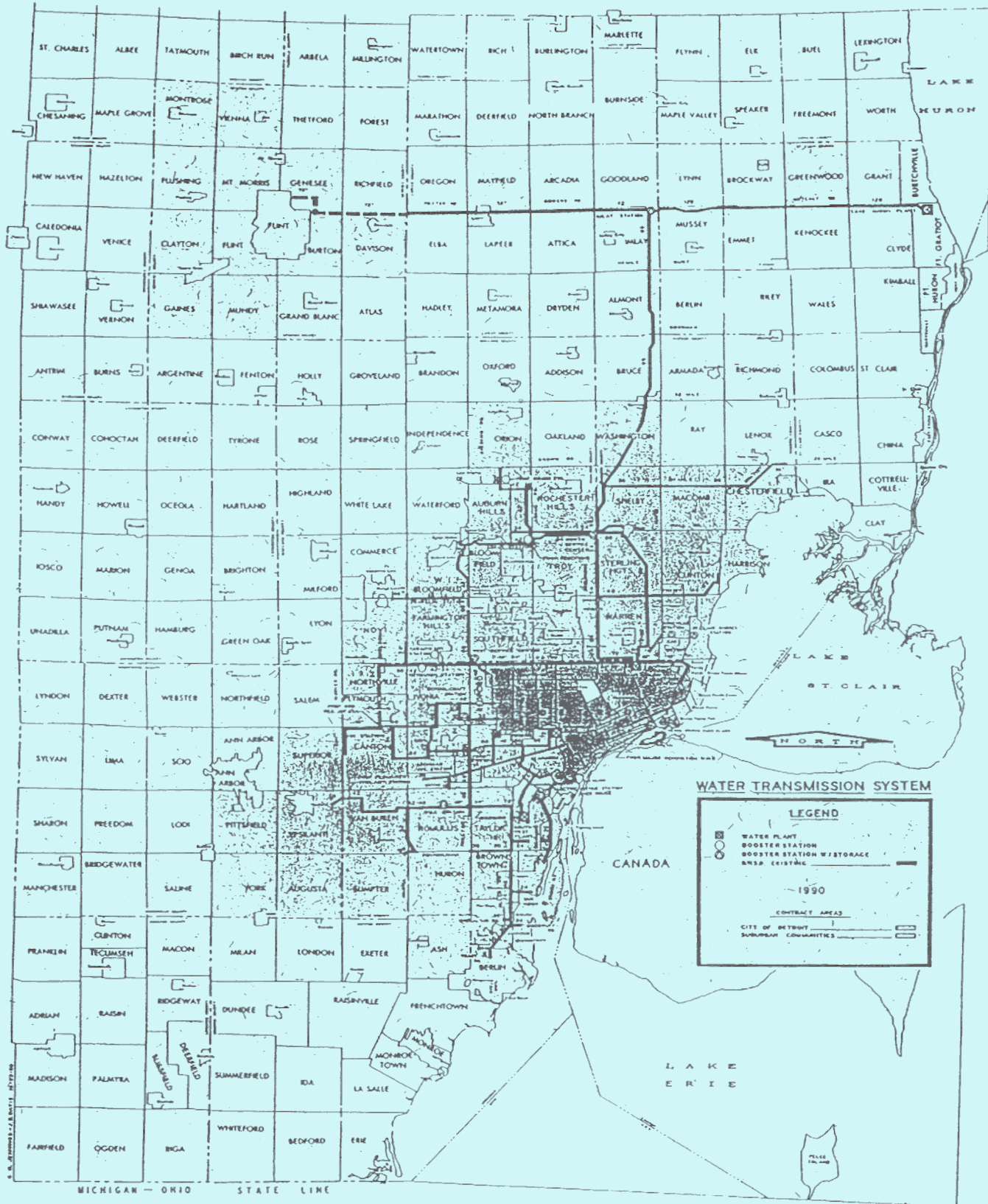
3/13/2002
 C2002019769
 4612 Beecher Road, Flint 48532

Test Result	Analyte Name	Tested	Limit MCL	Rpt Limit	Test Performed
Not Detected	DICHLOROPROPANE,1,2-	3/7/2002	0.005 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPANE,1,3-	3/7/2002		0.001 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPANE,2,2-	3/7/2002		0.001 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPENE,1,1-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPENE,1,3-CIS	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPENE,1,3-TRANS	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	ETHYLBENZENE	3/7/2002	0.7 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	FLUOROTRICHLOROMETHANE	3/7/2002		0.001 mg/L	CXVO 19960701
Not Detected	HEXACHLOROBUTADIENE	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	ISOPROPYL BENZENE	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	ISOPROPYL TOLUENE, PARA-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	METHYL ETHYL KETONE	3/7/2002		0.02 mg/L	CXVO 19960701
Not Detected	METHYL ISOBUTYL KETONE	3/7/2002		0.005 mg/L	CXVO 19960701
Not Detected	METHYL TERT-BUTYL ETHER	3/7/2002		0.001 mg/L	CXVO 19960701
Not Detected	METHYLENE CHLORIDE	3/7/2002	0.005 mg/L	0.0006 mg/L	CXVO 19960701
Not Detected	NAPHTHALENE	3/7/2002		0.001 mg/L	CXVO 19960701
Not Detected	NITROBENZENE	3/7/2002		0.01 mg/L	CXVO 19960701
Not Detected	PROPYLBENZENE, NORMAL-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	STYRENE	3/7/2002	0.1 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	TETRACHLOROETHANE,1,1,1,2-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	TETRACHLOROETHANE,1,1,1,2,2-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	TETRACHLOROETHYLENE	3/7/2002	0.005 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TETRAHYDROFURAN	3/7/2002		0.005 mg/L	CXVO 19960701
Not Detected	TOLUENE	3/7/2002	1 mg/L	0.0005 mg/L	CXVO 19960701
0.0084 mg/L	TOTAL TRIHALOMETHANES	3/7/2002	0.10 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TRICHLOROBENZENE,1,2,3-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	TRICHLOROBENZENE,1,2,4-	3/7/2002	0.07 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	TRICHLOROETHANE,1,1,1-	3/7/2002	0.2 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TRICHLOROETHANE,1,1,2-	3/7/2002	0.005 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	TRICHLOROETHYLENE	3/7/2002	0.005 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TRICHLOROPROPANE,1,2,3-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	TRIMETHYLBENZENE,1,2,4-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	TRIMETHYLBENZENE,1,3,5-	3/7/2002		0.0005 mg/L	CXVO 19960701
Not Detected	VINYL CHLORIDE	3/7/2002	0.002 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	XYLENE, ORTHO-	3/7/2002	10 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	XYLENE,META-&PARA-	3/7/2002	10 mg/L	0.0005 mg/L	CXVO 19960701

Lab Comments:

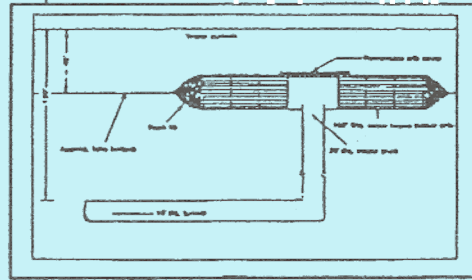
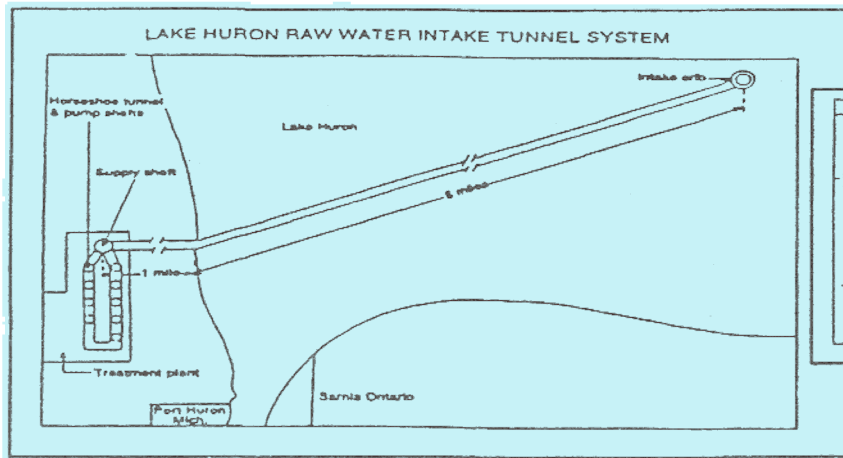
Sample collection date was not given or incorrect date given. Results will be evaluated by regulating agency.

Water System: Service Area





Lake Huron Treatment Plant



Water for treatment at the Lake Huron Plant arrives via a deep tunnel with the intake off shore under 45 feet of water.

The six-mile long, 16-foot diameter raw water tunnel system and the Lake Huron Treatment Plant, located five miles north of the City of Port Huron, were constructed in the early 70's.

The main tunnel is 200 feet below the surrounding ground surface. After a 20-foot diameter vertical shaft was constructed at the plant site, an 18-foot diameter horizontal hole was bored through antrim shale deposits by means of a mechanical mole - one mile to the lake shore and five miles out under the lake to a second vertical shaft.

The second shaft as constructed from the tunnel vertically to the bottom of the lake using soil freezing methods. The free-standing horizontal hole was then lined with a one-foot-thick layer of concrete resulting in the 16-foot inside tunnel diameter.

The shaft facilities at the plant site were constructed using complex soil freezing techniques to insure that lake

or ground water would not seep into the construction work.

For practical reasons and design economy, a raw water intake should be built at its ultimate or final desired size. Once a tunnel is in use, it is not feasible to close it down and enlarge at a later date. Constructing two smaller diameter tunnels at different times can be prohibitively expensive. Therefore, a mathematical principle used was allowing tunnel flow volume to be doubled without a tunnel diameter increase.

For example, the Lake Huron plant was sized to produce 800 million gallons a day (MGD) of treated water. Phase I called for a plant one-half that size of 400 MGD. A tunnel to supply Phase I would have been 11-feet, 4-inches in diameter. A second tunnel would have been required in the future.

By increasing the 11-foot, 4-inch tunnel by only 4-feet, 8-inches (to the 16-foot diameter size constructed), the tunnel's potential capacity was increased to 800 MGD. This was an investment in DWSD's future.

Due to the lowered population projections, the initial output capacity of the plant was scaled back to 240 MGD (300 MGD if all pumps are running). The 400 MGD can be reached by simply adding pumps. To reach the 800 MGD level, a transmission main, a sedimentation basin, pumps and filter sand would be needed.

Another built-in advantage for either population increases or for security and reliability purposes, allows an increase in the tunnel's capacity to 1,200 MGD simply by increasing intake velocities.

This additional 400 MGD increase can be made available under ideal no-icing (i.e., summer) conditions. However, to use this potential capacity on a permanent basis, additional pumps, treatment facilities and transmission mains would be necessary.

Construction of such facilities could increase the water system's reliability by providing alternate supplies to DWSD's two other downstream intake systems at Belle Isle and Fighting Island.

Lake Huron Treatment Plant

GENERAL STATISTICS

Area of site	- 457 Acres	Total Reservoir Capacity	- 2 @ 15 MG Each
Normal Rated Capacity	- 800 MGD	PRODUCTION RATES	
High Lift Pumping Capacity	- 300 MGD Present	Average Day	- 121.7 MG
	- 15 Future Pumps	Maximum Day	- 173 MG
Number of Filters	- 20 Present	Maximum Hour	- 210 MG
	- 20 Future		
Number of High Lift Pumps	- 5	* MGD Million Gallons per Day	
Number of Low Lift Pumps	- 4		

GENERAL INFORMATION

Location	-	3993 Metcalf Road, North Street, Fort Gratiot
Area of Site	-	457 Acres
Water Source	-	Lake Huron
Raw Water Tunnel	-	6 Miles - 16 ft. in diameter
Average Depth of Tunnel	-	190 Feet
Rated Plant Capacity	-	1200 MGD (Intake Capacity)
Reservoir Capacity	-	2 @ 15 Millions Gallons Each
Underfilter Storage	-	4 Million Gallons
Electric Power Supply	-	Detroit Edison
Transformers	-	2 @ 120 - 13.8 K.V.

PUMPING PLANTS

Low Lift Plant:

Function of Building

Houses pump which lift water from raw water tunnel to treatment plant level.

Building Shape

Rectangular

Cassion Depth

243 Feet

Building Height

59.5 Feet

Elevations (Sea Level)

Pump Floor

618.5

Center Line of Pumps

623 (100 MGD) 624.7 (200 MGD)

Motor Floor

629.2 (100 MGD) 631.2 (200 MGD)

Number of Pumps

4

Type of Pumps

Byron Jackson Vertical Single Stage

Rated Capacity (53' Head)

2 @ 100 MGD, 2 @ 200 MGD

Pump Motors - Synchronous

2 @ 100 MGD 1250 Horse Power 450 RPM -

2 @ 200 MGD 2250 Horse Power 327 RPM

High Lift Plant:

Functions of Building

Houses pumps which supply potable water to the distribution system.

Elevations (Sea Level)

Pump Floor - 603.5

Motor Floor - 616.5

Center Line of Pumps - 609

Building Height

45.75 feet

Number of Pumps

5

Rated Capacity (416.5' Head)

5 @ 60 MGD

Pump Motors - Synchronous

5 @ 5500 Horse Power 600 RPM

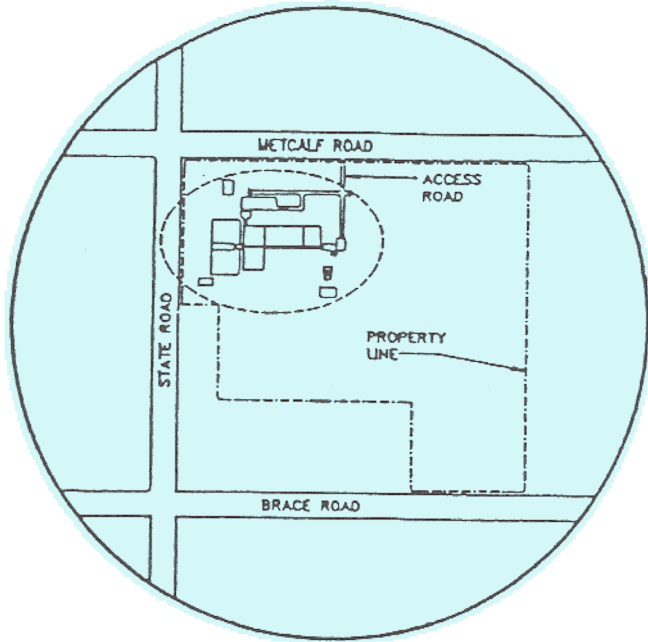
Type of Pump

Johnson vertical four stage

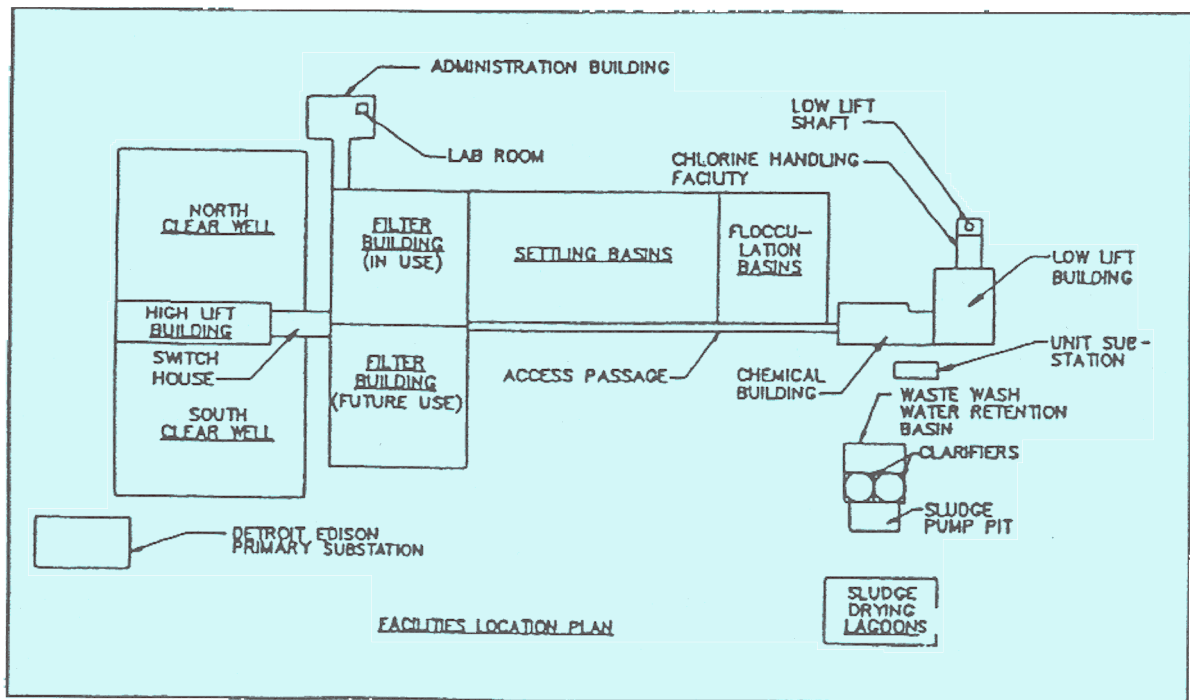
*MGD	=	Million Gallons Per Day
HP	=	Horsepower
RPM	=	Revolutions Per Minute

Lake Huron Treatment Plant

3993 Metcalf Road • Fort Gratiot, MI 48059



LOCATION MAP



Disinfection	
Pre & Post Chlorination	Liquid chlorine to evaporators then gas to V-notch chlorinators
Turbidity Removal	
Chemical	Aluminum Sulfate (Aluminum Ion)
Feed system	3 Rotodip feeders
Rate of Feed	0.5 to 660 Gallons per hour
Taste & Odor Control	
Chemical	Powdered Activated Carbon
Feed System	3 Rotodip feeders
Rate of Feed	Raw water conduits
Sedimentation	
Rapid Mix Units	4 Vertical turbines
Number of Basins	2 Capacity 15 Million gallons each
Number of Flocculator Paddle Units	20 units 8 paddles each
Flocculation Rotation	Vertical
Basin Retention Time	2.4 - 6.6 Hrs.
Filtration	
Number of Filters	20
Area Per Filter	2320 Square feet
Filtration Capacity	Average = 14 MGD
Water Per Unit	129,000 Gallons above the media
Length of Filter Run	Average 30 hours
Type of Underdrain	Wheeler
Gravel Layers	5 layers 14 inch deep reverse graded
Gravel Size	1/8" to 1" Diameter
Filter Media (Dual)	Sand - Anthracite
Effective Size	0.56mm - 0.9mm
Uniformity Coefficient	1.40 - 1.80
Troughs, Above Anthrafil	32 inches
Frequency of Backwash	7 Per Day average
Wash Water Rates	5 & 60 MGD (2 - 28 inch rise/min.)
Length of Wash	13 Minutes
Surface of Wash Units	Palmer Sweeps
Wash Water System	
Capacity	3 Pumps @ 60 MGD each
Wash Water Pumps	3
Type of Pump	Johnson vertical single stage
Type of Motors	Induction 900 Horse power
Surface Wash	House service used

ppm	=	parts per million
mm	=	millimeter
gpm	=	gallons per minute

Grand Blanc Township
Department of Public Works
G 5375 Saginaw Street
Grand Blanc, Michigan 48439

PRSRT STD
U.S. POSTAGE
PAID
SAGINAW, MI
PERMIT NO. 269