

	WATER QUALITY PARAMETERS				BECH 6/10/2021
	pH	TEMP	FREE	TOTAL	TIME
5121 MORRISH	7.68	17.4°C	.3	.3	8:40 AM
8083 Civic Dr	8.	17.5°C	.4	.4	9 AM
4061 Elms	8.09	18°C	.4	.4	9:20 AM

Had to re-test - lab waited too long  
to test one element.



12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

Monday, August 23, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 369973

Revision of Report ID: 369973 - 0629210806

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

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## GLOSSARY

Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

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## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3699730001	5121 Morrish	WSSN: 6505	D	06/10/2021 08:40	06/10/2021 13:49	REBECC
3699730002	4061 Elms	WSSN: 6505	D	06/10/2021 09:20	06/10/2021 13:49	REBECC
3699730003	8083 Civic	WSSN: 6505	D	06/10/2021 09:00	06/10/2021 13:49	REBECC

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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#### General Comments:

Samples were received on natural ice with an average temperature of 1.9°C on June 10, 2021.

#### General Comments:

A revised report has been issued in regards to the ortho-phosphorus results for sample 369973-0001, -0002 & -0003.

### Analysis Results Narrative

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3699730001 - 5121 Morrish - Turbidity

T|Sample received and/or test analyzed after recommended maximum holding time.

3699730002 - 4061 Elms - Aluminum, Total

H|Result (or RL) is above Max limit.

3699730002 - 4061 Elms - Turbidity

T|Sample received and/or test analyzed after recommended maximum holding time.

3699730003 - 8083 Civic - Turbidity

T|Sample received and/or test analyzed after recommended maximum holding time.

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# ANALYTICAL RESULTS

Lab ID: 3699730001  
Sample ID: 5121 Morrish  
Description: WSSN: 6505

Date Collected: 06/10/2021 08:40  
Date Received: 06/10/2021 13:49

Matrix: Drinking Water, Potable (D)  
Collector: REBECCA

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	72		mg/L	1.0		1			06/16/2021 13:53	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	32		mg/L	1.0		1			06/16/2021 13:53	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			06/16/2021 13:53	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	06/18/2021 06:59	DTM
Sulfate	23		mg/L	5.0		1		250	06/18/2021 06:59	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.22	*	NTU	0.05		1		1	06/22/2021 09:50	JKP
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			06/17/2021 07:26	JKP
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	1.0		mg/L	0.25		10			06/11/2021 11:00	MSH
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.060		mg/L	0.010		1		0.20	06/16/2021 13:53	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0026		mg/L	0.0010		1		1.30	06/28/2021 10:57	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	06/28/2021 10:57	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	06/28/2021 10:57	DTM

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# ANALYTICAL RESULTS

Lab ID: 3699730002	Date Collected: 06/10/2021 09:20	Matrix: Drinking Water, Potable (D)
Sample ID: 4061 Elms	Date Received: 06/10/2021 13:49	Collector: REBECCA
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	70		mg/L	1.0		1			06/16/2021 13:40	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	33		mg/L	1.0		1			06/16/2021 13:40	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			06/16/2021 13:40	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	06/18/2021 07:59	DTM
Sulfate	23		mg/L	5.0		1		250	06/18/2021 07:59	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.22	*	NTU	0.05		1		1	06/22/2021 09:50	JKP
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			06/17/2021 07:26	JKP
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.72		mg/L	0.25		10			06/11/2021 11:00	MSH
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.35	*	mg/L	0.10		10		0.20	06/16/2021 13:40	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	06/28/2021 10:57	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	06/28/2021 10:57	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	06/28/2021 10:57	DTM

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# ANALYTICAL RESULTS

Lab ID: 3699730003  
Sample ID: 8083 Civic  
Description: WSSN: 6505

Date Collected: 06/10/2021 09:00  
Date Received: 06/10/2021 13:49

Matrix: Drinking Water, Potable (D)  
Collector: REBECCA

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	70		mg/L	1.0		1			06/16/2021 13:43	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	32		mg/L	1.0		1			06/16/2021 13:43	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			06/16/2021 13:43	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	06/18/2021 08:17	DTM
Sulfate	23		mg/L	5.0		1		250	06/18/2021 08:17	DTM
Individual Parameters by SM 2130 B										
Turbidity	0.21	*	NTU	0.05		1		1	06/22/2021 09:50	JKP
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			06/17/2021 07:26	JKP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.85		mg/L	0.25		10			06/11/2021 11:00	MSH
Metals by EPA 200.7										
Aluminum, Total	0.072		mg/L	0.010		1		0.20	06/16/2021 13:43	JPG
Metals by EPA 200.8										
Copper, Total	0.028		mg/L	0.0010		1		1.30	06/28/2021 10:57	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	06/28/2021 10:57	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	06/28/2021 10:57	DTM

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11/4/2021

	FREE	TOTAL	PH	TEMP
8230 CRAPO	.5	.5	7.6	63°F
3259 ELMS	.6	.6	7.5	62°F
<del>01270</del>				

Friday, November 19, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 373860

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

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Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,



Elizabeth Pangborn  
Account Coordination Team Leader

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MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3738600001	5121 Morrish	WSSN; 6505	D	11/04/2021 10:30	11/05/2021 07:12	B. Becca
3738600002	8083 Civic	WSSN; 6505	D	11/04/2021 11:00	11/05/2021 07:12	B. Becca
3738600003	4061 Elms	WSSN; 6505	D	11/04/2021 12:20	11/05/2021 07:12	B. Becca

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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#### General Comments:

Samples were received ambient with an average temperature of 10.1°C on November 5, 2021.

### Analysis Results Narrative

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3738600001 - 5121 Morrish - Aluminum, Total

H|Result (or RL) is above Max limit.

3738600001 - 5121 Morrish - Sulfate

The MS and/or MSD recovery for this analyte was above the upper control limit.

3738600002 - 8083 Civic - Aluminum, Total

H|Result (or RL) is above Max limit.

3738600003 - 4061 Elms - Aluminum, Total

H|Result (or RL) is above Max limit.

---

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# ANALYTICAL RESULTS

Lab ID: 3738600001  
Sample ID: 5121 Morrish  
Description: WSSN; 6505

Date Collected: 11/04/2021 10:30  
Date Received: 11/05/2021 07:12

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	71		mg/L	1.0		1			11/16/2021 12:18	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			11/16/2021 12:18	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			11/16/2021 12:18	JPG
Individual Parameters by EPA 300.0										
Chloride	10		mg/L	5.0		1		250	11/11/2021 16:53	RTS
Sulfate	23	*	mg/L	5.0		1		250	11/11/2021 16:53	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.48		NTU	0.05		1		1	11/05/2021 12:30	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			11/11/2021 08:34	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.84		mg/L	0.025		1			11/05/2021 10:03	SKS
Metals by EPA 200.7										
Aluminum, Total	0.47	*	mg/L	0.010		1		0.20	11/16/2021 12:18	JPG
Calcium, Total	28		mg/L	0.10		1			11/16/2021 12:18	JPG
Magnesium, Total	7.4		mg/L	0.10		1			11/16/2021 12:18	JPG
Zinc, Total	<0.050		mg/L	0.050		1		5	11/16/2021 12:18	JPG
Metals by EPA 200.8										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	11/12/2021 15:15	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	11/12/2021 15:15	RTS

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# ANALYTICAL RESULTS

Lab ID: 3738600002  
Sample ID: 8083 Civic  
Description: WSSN; 6505

Date Collected: 11/04/2021 11:00  
Date Received: 11/05/2021 07:12

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	70		mg/L	1.0		1			11/16/2021 12:23	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			11/16/2021 12:23	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			11/16/2021 12:23	JPG
Individual Parameters by EPA 300.0										
Chloride	10		mg/L	5.0		1		250	11/11/2021 17:49	RTS
Sulfate	23		mg/L	5.0		1		250	11/11/2021 17:49	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.27		NTU	0.05		1		1	11/05/2021 12:30	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			11/11/2021 08:34	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.75		mg/L	0.025		1			11/05/2021 10:03	SKS
Metals by EPA 200.7										
Aluminum, Total	0.22	*	mg/L	0.010		1		0.20	11/16/2021 12:23	JPG
Zinc, Total	<0.050		mg/L	0.050		1		5	11/16/2021 12:23	JPG
Metals by EPA 200.8										
Copper, Total	0.0027		mg/L	0.0010		1		1.30	11/12/2021 15:15	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	11/12/2021 15:15	RTS

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# ANALYTICAL RESULTS

Lab ID: 3738600003  
Sample ID: 4061 Elms  
Description: WSSN; 6505

Date Collected: 11/04/2021 12:20  
Date Received: 11/05/2021 07:12

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	69		mg/L	1.0		1			11/16/2021 12:28	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			11/16/2021 12:28	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			11/16/2021 12:28	JPG
Individual Parameters by EPA 300.0										
Chloride	10		mg/L	5.0		1		250	11/11/2021 18:07	RTS
Sulfate	23		mg/L	5.0		1		250	11/11/2021 18:07	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.34		NTU	0.05		1		1	11/05/2021 12:40	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			11/11/2021 09:45	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.82		mg/L	0.025		1			11/05/2021 10:38	SKS
Metals by EPA 200.7										
Aluminum, Total	0.34	*	mg/L	0.010		1		0.20	11/16/2021 12:28	JPG
Zinc, Total	<0.050		mg/L	0.050		1		5	11/16/2021 12:28	JPG
Metals by EPA 200.8										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	11/12/2021 15:15	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	11/12/2021 15:15	RTS

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4-12-21

WSSN 6505

FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
<u>5121 MORRISH ROAD</u>	<u>0.3</u>	<u>0.3</u>
<u>ELMS RD. ELEMENTARY</u>	<u>0.15</u>	<u>0.15</u>
<u><del>8240 MILLER ROAD</del></u>	<u><del>          </del></u>	<u><del>          </del></u>
<u>8083 CIVIC DRIVE</u>	<u>0.15</u>	<u>0.5</u>

Roxanne  
732-0079

Jafar  
4/26/21

10:44

Q

4-26-2021

	TOTAL	FREE
<u>MIDDLE SCHOOL</u>	<u>0.15</u>	<u>0.15</u>
<u>HIGH SCHOOL</u>	<u>0.15</u>	<u>0.15</u>
<u>SYRING SCHOOL</u>	<u>0.15</u>	<u>0.15</u>
<u><del>3462 DYE ROAD MTA</del></u>	<u><del>          </del></u>	<u><del>          </del></u>



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

**MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY**  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

**Official Laboratory Report**

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ51584**  
**Work Order: 10401227\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	04/12/2021 09:00
Sample Point:	KITCHEN SINK	Date Received:	04/13/2021 07:46
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			04/13/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

**Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.**

**Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603**

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

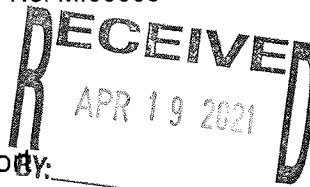


MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
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DRINKING WATER LABORATORY

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report By: \_\_\_\_\_

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: **LJ51583**

Work Order: 10401227\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELM RD ELEMENTARY SCHOOL, SWA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	04/12/2021 09:30
Sample Point:	KITCHEN SINK	Date Received:	04/13/2021 07:46
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

<b>Coliform Organisms per 100 mL</b>	<b>Not Detected</b>	<b>04/13/2021</b>	<b>SM 9223 B</b>	<b>TC-00-B</b>
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Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

**Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.**

**Genesee County Health Dept.**  
**630 South Saginaw**  
**Flint, MI 48502-1540**  
**810 257-3603**

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane

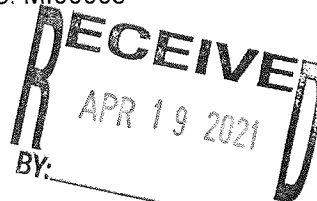


MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report By: \_\_\_\_\_

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ51585

Work Order: 10401227\_03

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 8083 CIVIC DR, SWARTZ CREEK  
Collected By: ROD  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 04/12/2021 09:50  
Date Received: 04/13/2021 07:46  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			04/13/2021		SM 9223 B	TC-00-B
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Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ53289  
Work Order: 10402667\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL CRAP;	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	04/26/2021 09:25
Sample Point:	KITCHEN SINK	Date Received:	04/27/2021 08:29
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			04/27/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ53290**  
**Work Order: 10402667\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL OAKVIE, MI	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	04/26/2021 10:00
Sample Point:	KITCHEN SINK	Date Received:	04/27/2021 08:29
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			04/27/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit	mg/L: milligrams / Liter (ppm)	CFU: Colony Forming Unit
MCL: Maximum Contaminant Level	ng/L: nanograms / Liter (ppt)	CAS: Chemical Abstract Service
AL: Action Level	MPN: Most Probable Number	Laboratory Contact: Marlene Kane
Not Detected: Not detected at or above the reporting limit (RL)		

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ53291  
Work Order: 10402667\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL DRAGON	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	04/26/2021 09:50
Sample Point:	KITCHEN SINK	Date Received:	04/27/2021 08:29
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			04/27/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
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mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

# Paragon 8-5-21

## Water Quality Parameters

	Temp	pH	Free	TOTAL	Time	Date
5121 Morrish	19.6	8.3	.2	.2	9:15	8-5-21
1061 Elms	22.2	8.4	.2	.2	10:40	8-5-21
3083 Civic	20.2	8.1	.3	.3	9:55	8-5-21

	Temp	pH	Free	TOTAL	Time	Date
3259 Elms	23.4	8.7	.1	.1	10:20am	8-5-21
8230 Crapo	21.6	8.1	.2	.3	9:35am	8-5-21





12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

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Wednesday, August 18, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 371463  
Project Name: City of Swartz Creek

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

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## GLOSSARY

Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3714630001	5121 Morrish	WSSN: 6505, Grab	D	08/05/2021 09:15	08/05/2021 12:50	Jay
3714630002	4061 Elms	WSSN: 6505, Grab	D	08/05/2021 10:40	08/05/2021 12:50	Jay
3714630003	8083 Civic	WSSN: 6505, Grab	D	08/05/2021 09:55	08/05/2021 12:50	Jay

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

---

#### General Comments:

Samples were received on natural ice with an average temperature of 4.9°C on August 5, 2021.

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## ANALYTICAL RESULTS

Lab ID: 3714630001	Date Collected: 08/05/2021 09:15	Matrix: Drinking Water, Potable (D)
Sample ID: 5121 Morrish	Date Received: 08/05/2021 12:50	Collector: Jay
Description: WSSN: 6505, Grab		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	72		mg/L	1.0		1			08/11/2021 12:34	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			08/11/2021 12:34	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			08/11/2021 12:34	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	08/06/2021 12:26	DTM
Sulfate	27		mg/L	5.0		1		250	08/06/2021 12:26	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.15		NTU	0.05		1		1	08/05/2021 14:38	JKP
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			08/10/2021 12:53	CTJ
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.63		mg/L	0.25		10			08/06/2021 09:40	MSH
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.15		mg/L	0.010		1		0.20	08/11/2021 12:34	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0022		mg/L	0.0010		1		1.30	08/11/2021 11:53	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	08/11/2021 11:53	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	08/11/2021 11:53	DTM

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# ANALYTICAL RESULTS

Lab ID: 3714630002	Date Collected: 08/05/2021 10:40	Matrix: Drinking Water, Potable (D)
Sample ID: 4061 Elms	Date Received: 08/05/2021 12:50	Collector: Jay
Description: WSSN: 6505, Grab		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	71		mg/L	1.0		1			08/11/2021 12:49	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			08/11/2021 12:49	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			08/11/2021 12:49	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	08/06/2021 12:45	DTM
Sulfate	27		mg/L	5.0		1		250	08/06/2021 12:45	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	08/05/2021 14:38	JKP
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			08/10/2021 12:53	CTJ
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.65		mg/L	0.025		1			08/06/2021 09:40	MSH
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.17		mg/L	0.010		1		0.20	08/11/2021 12:49	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0039		mg/L	0.0010		1		1.30	08/11/2021 11:56	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	08/11/2021 11:56	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	08/11/2021 11:56	DTM

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# ANALYTICAL RESULTS

Lab ID: 3714630003	Date Collected: 08/05/2021 09:55	Matrix: Drinking Water, Potable (D)
Sample ID: 8083 Civic	Date Received: 08/05/2021 12:50	Collector: Jay
Description: WSSN: 6505, Grab		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	70		mg/L	1.0		1			08/11/2021 13:04	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			08/11/2021 13:04	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			08/11/2021 13:04	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	08/06/2021 13:04	DTM
Sulfate	27		mg/L	5.0		1		250	08/06/2021 13:04	DTM
Individual Parameters by SM 2130 B										
Turbidity	<0.05		NTU	0.05		1		1	08/05/2021 14:38	JKP
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	50		mg/L	10		1			08/10/2021 12:53	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.63		mg/L	0.025		1			08/06/2021 09:40	MSH
Metals by EPA 200.7										
Aluminum, Total	0.13		mg/L	0.010		1		0.20	08/11/2021 13:04	JPG
Metals by EPA 200.8										
Copper, Total	0.0092		mg/L	0.0010		1		1.30	08/11/2021 11:57	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	08/11/2021 11:57	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	08/11/2021 11:57	DTM

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12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

Friday, August 27, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 371462  
Project Name: City of Swartz Creek

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

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## GLOSSARY

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MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3714620001	3259 Elms	WSSN: 6505	D	08/05/2021 10:20	08/05/2021 12:50	Jay
3714620002	8230 Crapo	WSSN: 6505	D	08/05/2021 09:35	08/05/2021 12:50	Jay

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## WORKORDER SUMMARY

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### Accreditations

---

Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

---

#### General Comments:

Samples were received on natural ice with an average temperature of 2.5°C on August 5, 2021.

All VOA vials contained zero head-space.

---

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# ANALYTICAL RESULTS

Lab ID: 3714620001	Date Collected: 08/05/2021 10:20	Matrix: Drinking Water, Potable (D)
Sample ID: 3259 Elms	Date Received: 08/05/2021 12:50	Collector: Jay
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Haloacetic Acids (HAAs) by EPA 552.3</b>										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			08/18/2021 10:43	GFM
Chloroacetic acid (MCAA)	<2.0		µg/L	2.0	0.30	1			08/18/2021 10:43	GFM
Dibromoacetic acid (DBAA)	<1.0		µg/L	1.0	0.39	1			08/18/2021 10:43	GFM
Dichloroacetic acid (DCAA)	6.7		µg/L	1.0	0.20	1			08/18/2021 10:43	GFM
Trichloroacetic acid (TCAA)	17		µg/L	1.0	0.12	1			08/18/2021 10:43	GFM
Haloacetic Acids, Total (HAA5)	24		µg/L	1.0		1		60	08/18/2021 10:43	GFM
<b>Sample Preparation by EPA 552.3</b>										
Liquid-Liquid Extraction, HAAs	Complete					1			08/17/2021 11:30	GFM
<b>Volatiles by EPA 524.2</b>										
Bromodichloromethane	11		µg/L	0.50		1			08/07/2021 16:33	DTM
Bromoform	<0.50		µg/L	0.50		1			08/07/2021 16:33	DTM
Chloroform	47		µg/L	0.50		1			08/07/2021 16:33	DTM
Dibromochloromethane	3.5		µg/L	0.50		1			08/07/2021 16:33	DTM
Trihalomethanes, Total (TTHM)	61		µg/L	0.50		1		80	08/07/2021 16:33	DTM

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# ANALYTICAL RESULTS

Lab ID: 3714620002  
Sample ID: 8230 Crapo  
Description: WSSN: 6505

Date Collected: 08/05/2021 09:35  
Date Received: 08/05/2021 12:50

Matrix: Drinking Water, Potable (D)  
Collector: Jay

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Haloacetic Acids (HAAs) by EPA 552.3</b>										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			08/20/2021 13:30	GFM
Chloroacetic acid (MCAA)	<2.0		µg/L	2.0	0.30	1			08/20/2021 13:30	GFM
Dibromoacetic acid (DBAA)	<1.0		µg/L	1.0	0.39	1			08/20/2021 13:30	GFM
Dichloroacetic acid (DCAA)	7.7		µg/L	1.0	0.20	1			08/20/2021 13:30	GFM
Trichloroacetic acid (TCAA)	13		µg/L	1.0	0.12	1			08/20/2021 13:30	GFM
Haloacetic Acids, Total (HAA5)	21		µg/L	1.0		1		60	08/20/2021 13:30	GFM
<b>Sample Preparation by EPA 552.3</b>										
Liquid-Liquid Extraction, HAAs	Complete					1			08/18/2021 13:00	GFM
<b>Volatiles by EPA 524.2</b>										
Bromodichloromethane	11		µg/L	0.50		1			08/07/2021 17:02	DTM
Bromoform	<0.50		µg/L	0.50		1			08/07/2021 17:02	DTM
Chloroform	44		µg/L	0.50		1			08/07/2021 17:02	DTM
Dibromochloromethane	3.5		µg/L	0.50		1			08/07/2021 17:02	DTM
Trihalomethanes, Total (TTHM)	58		µg/L	0.50		1		80	08/07/2021 17:02	DTM

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8-2-21

WSSN 6505

### FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
<u>5121 MORRISH ROAD</u>	<u>0.2</u>	<u>0.9</u>
<u>ELMS RD. ELEMENTARY</u>	<u>0.1</u>	<u>0.1</u>
<u>8240 MILLER ROAD</u>		
<u>8083 CIVIC DRIVE</u>	<u>0.2</u>	<u>0.2</u>

Roxanne  
732-0079

8-17-21

	TOTAL	FREE
<u>MIDDLE SCHOOL</u>	<u>.2</u>	<u>.1</u>
<u>HIGH SCHOOL</u>	<u>.2</u>	<u>.1</u>
<u>SYRING SCHOOL</u>	<u>.3</u>	<u>.2</u>
<u>3462 DYE ROAD MTA</u>	<u>.4</u>	<u>.4</u>

dated 8/17/21 (3)



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ69818  
Work Order: 10800186\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELMS RD ELEMENTARY SCHOOL, SW	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	08/02/2021 09:20
Sample Point:	KITCHEN SINK	Date Received:	08/03/2021 08:02
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			08/03/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane



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Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ69819

Work Order: 10800186\_02

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 8083 CIVIC DR, SWARTZ CREEK  
Collected By: ROD  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 08/02/2021 09:45  
Date Received: 08/03/2021 08:02  
Purpose: Routine Monitoring

TESTING INFORMATION

REGULATORY INFORMATION

Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			08/03/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

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MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane



# Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ69820  
Work Order: 10800186\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	08/02/2021 08:55
Sample Point:	KITCHEN SINK	Date Received:	08/03/2021 08:02
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			08/03/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603



Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473



**Sample ID: LJ73144**  
**Work Order: 10802196\_04**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	MIDDLE SCHOOL, SWARTZ CREEK	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	/304/	Collector:	Other
County:	Genesee	Date Collected:	08/17/2021 09:05
Sample Point:	KITCHEN SINK	Date Received:	08/18/2021 07:42
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			08/18/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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**Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603**





MICHIGAN DEPARTMENT OF  
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TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473



Sample ID: LJ73143  
Work Order: 10802196\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	3462 DYE RD MTA, SWARTZ CREEK	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	/304/	Collector:	Other
County:	Genesee	Date Collected:	08/17/2021 10:15
Sample Point:	KITCHEN SINK	Date Received:	08/18/2021 07:42
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			08/18/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

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MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



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P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report



Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ73142

Work Order: 10802196\_02

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: HIGH SCHOOL, SWARTZ CREEK  
Collected By: JAY SANDFORD  
Township/Well#/Section: /304/  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE II  
Site Code:  
Collector: Other  
Date Collected: 08/17/2021 08:40  
Date Received: 08/18/2021 07:42  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			08/18/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

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MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473



Sample ID: LJ73141  
Work Order: 10802196\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING SCHOOL, SWARTZ CREEK	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	/304/	Collector:	Other
County:	Genesee	Date Collected:	08/17/2021 09:35
Sample Point:	KITCHEN SINK	Date Received:	08/18/2021 07:42
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			08/18/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

WSSN 6505

12-6-21

# FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
<u>5121 MORRISH ROAD</u>	<u>0.5</u>	<u>0.4</u>
<u>ELMS RD. ELEMENTARY</u>	<u>0.4</u>	<u>0.3</u>
<u>8240 MILLER ROAD</u>		
<u>8083 CIVIC DRIVE</u>	<u>0.5</u>	<u>0.5</u>

Roxanne  
732-0079

12-20-21

	TOTAL	FREE
<u>MIDDLE SCHOOL</u>	<u>0.5</u>	<u>0.5</u>
<u>HIGH SCHOOL</u>	<u>0.5</u>	<u>0.5</u>
<u>SYRING SCHOOL</u>	<u>0.5</u>	<u>0.5</u>
<u>3462 DYE ROAD MTA</u>		

dated 1/3/22 Q



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ91333

Work Order: 11200522\_02

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELMS ELEMENTARY, SWARTZ CREEK	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	12/06/2021 10:15
Sample Point:	KITCHEN SINK	Date Received:	12/07/2021 08:21
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			12/07/2021		SM 9223 B	TC-00-B
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Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RECEIVED  
DEC 14 2021  
BY: \_\_\_\_\_

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



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FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ91334**

**Work Order: 11200522\_03**

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	12/06/2021 09:45
Sample Point:	KITCHEN SINK	Date Received:	12/07/2021 08:21
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			12/07/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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810 257-3603



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MCL: Maximum Contaminant Level	ng/L: nanograms / Liter (ppt)	CAS: Chemical Abstract Service
AL: Action Level	MPN: Most Probable Number	Laboratory Contact: Marlene Kane
Not Detected: Not detected at or above the reporting limit (RL)		





MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
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FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ91332

Work Order: 11200522\_01

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	8083 CIVIC DR, SWARTZ CREEK	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	12/06/2021 10:40
Sample Point:	KITCHEN SINK	Date Received:	12/07/2021 08:21
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			12/07/2021		SM 9223 B	TC-00-B
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Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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EC Positive = Coliform and E. Coli bacteria were found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RECEIVED  
DEC 10 2021  
BY: \_\_\_\_\_

RL: Reporting Limit  
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AL: Action Level  
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mg/L: milligrams / Liter (ppm)  
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CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



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Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ93729  
Work Order: 11202322\_01

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL, Sv	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	12/20/2021 10:10
Sample Point:	KITCHEN SINK	Date Received:	12/20/2021 11:59
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			12/21/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RECEIVED  
BY: \_\_\_\_\_

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Not Detected: Not detected at or above the reporting limit (RL)



MICHIGAN DEPARTMENT OF  
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DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ93730  
Work Order: 11202322\_02

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	12/20/2021 10:21
Sample Point:	KITCHEN SINK	Date Received:	12/20/2021 11:59
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			12/21/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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BY: \_\_\_\_\_

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MCL: Maximum Contaminant Level

AL: Action Level

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MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane



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FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ93731  
Work Order: 11202322\_03

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SPRING ELEMENTARY SCHOOL OAK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	12/20/2021 10:30
Sample Point:	KITCHEN SINK	Date Received:	12/20/2021 11:59
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			12/21/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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Flint, MI 48502-1540  
810 257-3603

RECEIVED  
BY: \_\_\_\_\_

RL: Reporting Limit	mg/L: milligrams / Liter (ppm)	CFU: Colony Forming Unit
MCL: Maximum Contaminant Level	ng/L: nanograms / Liter (ppt)	CAS: Chemical Abstract Service
AL: Action Level	MPN: Most Probable Number	Laboratory Contact: Marlene Kane
Not Detected: Not detected at or above the reporting limit (RL)		

2-1-2021

WSSN 6505

FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
5121 MORRISH ROAD	0.3	0.3
ELMS RD. ELEMENTARY	0.3	0.3
<del>8240 MILLER ROAD</del>		
8083 CIVIC DRIVE	0.3	0.3

Roxanne  
732-0079

2-17-2021

	TOTAL	FREE
MIDDLE SCHOOL	0.5	0.5
HIGH SCHOOL	0.5	0.5
SYRING SCHOOL	0.5	0.5
<del>3462 DYE ROAD MTA</del>		



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Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ43331  
Work Order: 10200073\_01

System Name/Owner:	GENESSEE COUNTY WATER SAMPLE	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	02/01/2021 08:55
Sample Point:	KITCHEN SINK	Date Received:	02/02/2021 07:56
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			02/02/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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630 South Saginaw  
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MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

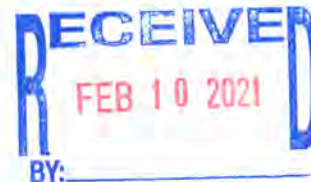




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FAX: (517) 335-8562



Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ43332  
Work Order: 10200073\_02

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELM RD ELEMENTARY, SWARTZ CREI	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	02/01/2021 09:15
Sample Point:	KITCHEN SINK	Date Received:	02/02/2021 07:56
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			02/02/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

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Flint, MI 48502-1540  
810 257-3603

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CFU: Colony Forming Unit  
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Laboratory Contact: Marlene Kane



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Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ43333  
Work Order: 10200073\_03

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	8083 CIVIC DR, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	02/01/2021 09:35
Sample Point:	KITCHEN SINK	Date Received:	02/02/2021 07:56
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			02/02/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

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Laboratory Contact: Marlene Kane





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FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ45028  
Work Order: 10201545\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL DRA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	02/17/2021 09:20
Sample Point:	KITCHEN SINK	Date Received:	02/18/2021 07:20
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			02/18/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

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MAR 01 2021  
BY: \_\_\_\_\_

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AL: Action Level  
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CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



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Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ45026

Work Order: 10201545\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL, SWA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	02/17/2021 09:35
Sample Point:	KITCHEN SINK	Date Received:	02/18/2021 07:20
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			02/18/2021		SM 9223 B	TC-00-B

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Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ45027

Work Order: 10201545\_02

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL, SV	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	02/17/2021 09:05
Sample Point:	KITCHEN SINK	Date Received:	02/18/2021 07:20
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			02/18/2021		SM 9223 B	TC-00-B

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CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane



Monday, February 22, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 367501

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5622.

Sincerely,

Breanna Bell  
Account Coordinator



## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3675010001	8083 Civic	WSSN: 6505	D	02/11/2021 07:30	02/11/2021 13:46	B. Becca
3675010002	5121 Morrish	WSSN: 6505	D	02/11/2021 07:15	02/11/2021 13:46	B. Becca
3675010003	4061 Elms	WSSN: 6505	D	02/11/2021 07:50	02/11/2021 13:46	B. Becca

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**PARAGON**  
Laboratories

**FINAL LABORATORY REPORT**

## WORKORDER SUMMARY

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### Accreditations

Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

---

General Comments:

Samples were received on natural ice with an average temperature of 3.2°C on February 11, 2021.

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## ANALYTICAL RESULTS

<b>Lab ID:</b> 3675010001	<b>Date Collected:</b> 02/11/2021 07:30	<b>Matrix:</b> Drinking Water (Potable)
<b>Sample ID:</b> 8083 Civic	<b>Date Received:</b> 02/11/2021 13:46	<b>Collector:</b> Becca B.
<b>Description:</b> WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	89		mg/L	1.0		1			02/15/2021 09:50	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	32		mg/L	1.0		1			02/15/2021 09:50	MKK
Hardness, Total as CaCO <sub>3</sub>	120		mg/L	1.0		1			02/15/2021 09:50	MKK
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	02/12/2021 13:59	DTM
Sulfate	28		mg/L	5.0		1		250	02/12/2021 13:59	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	02/11/2021 15:53	RLC
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			02/19/2021 11:11	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.74		mg/L	0.025		1			02/11/2021 16:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.016		mg/L	0.010		1		0.20	02/15/2021 09:50	MKK
<b>Metals by EPA 200.8</b>										
Copper, Total	0.023		mg/L	0.0010		1		1.30	02/12/2021 08:17	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	02/12/2021 08:17	MKK
Zinc, Total	<0.0040		mg/L	0.0040		1		5	02/12/2021 08:17	MKK

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# ANALYTICAL RESULTS

Lab ID: 3675010002  
Sample ID: 5121 Morrish  
Description: WSSN: 6505

Date Collected: 02/11/2021 07:15  
Date Received: 02/11/2021 13:46

Matrix: Drinking Water (Potable)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	100		mg/L	1.0		1			02/15/2021 09:50	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	32		mg/L	1.0		1			02/15/2021 09:50	MKK
Hardness, Total as CaCO <sub>3</sub>	130		mg/L	1.0		1			02/15/2021 09:50	MKK
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	02/12/2021 14:42	DTM
Sulfate	28		mg/L	5.0		1		250	02/12/2021 14:42	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	02/11/2021 15:53	RLC
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			02/19/2021 11:11	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.79		mg/L	0.025		1			02/11/2021 16:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.025		mg/L	0.010		1		0.20	02/15/2021 09:50	MKK
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0024		mg/L	0.0010		1		1.30	02/12/2021 08:17	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	02/12/2021 08:17	MKK
Zinc, Total	<0.0040		mg/L	0.0040		1		5	02/12/2021 08:17	MKK

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PARAGON  
Laboratories

FINAL LABORATORY REPORT



# ANALYTICAL RESULTS

Lab ID: 3675010003  
Sample ID: 4061 Elms  
Description: WSSN: 6505

Date Collected: 02/11/2021 07:50  
Date Received: 02/11/2021 13:46

Matrix: Drinking Water (Potable)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	89		mg/L	1.0		1			02/15/2021 09:50	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	33		mg/L	1.0		1			02/15/2021 09:50	MKK
Hardness, Total as CaCO <sub>3</sub>	120		mg/L	1.0		1			02/15/2021 09:50	MKK
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	02/12/2021 14:57	DTM
Sulfate	28		mg/L	5.0		1		250	02/12/2021 14:57	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	02/11/2021 15:53	RLC
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			02/19/2021 11:11	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.75		mg/L	0.025		1			02/11/2021 16:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.071		mg/L	0.010		1		0.20	02/15/2021 09:50	MKK
<b>Metals by EPA 200.8</b>										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	02/12/2021 08:17	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	02/12/2021 08:17	MKK
Zinc, Total	<0.0040		mg/L	0.0040		1		5	02/12/2021 08:17	MKK

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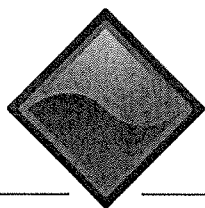
PARAGON  
Laboratories

FINAL LABORATORY REPORT

Paragon

## Water Quality Parameters

	Temp	pH	Free	TOTAL	Time	Date
5121 Marsh	10.2	7.8	.2	.2	8:35am	3-11-21
8083 Civic	14.5	7.5	.3	.4	8:50am	3-11-21
4061 Elms	14	7.5	.3	.3	9:15AM	3-11-21



**PARAGON**  
Laboratories

12649 Richfield Ct.  
Livonia, MI 48150  
P: 734.462.3900  
paragonlaboratories.com

Thursday, March 18, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 368045  
Project Name: City of Swartz Creek

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5622.

Sincerely,

Breanna Bell  
Account Coordinator

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**FINAL LABORATORY REPORT**

## GLOSSARY

Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

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FINAL LABORATORY REPORT

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3680450001	5121 Morrish	WSSN: 6505	D	03/11/2021 08:35	03/11/2021 11:00	Sandford
3680450002	4061 Elms	WSSN: 6505	D	03/11/2021 09:15	03/11/2021 11:00	Sandford
3680450003	8083 Civic	WSSN: 6505	D	03/11/2021 08:50	03/11/2021 11:00	Sandford

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**FINAL LABORATORY REPORT**

**WORKORDER SUMMARY**

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**Accreditations**

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

**Workorder Narrative**

---

General Comments: Samples were received chilled on natural ice with an average temperature of 4.0 °C on 03/11/2021.



# ANALYTICAL RESULTS

Lab ID: 3680450001	Date Collected: 03/11/2021 08:35	Matrix: Drinking Water (Potable)
Sample ID: 5121 Morrish	Date Received: 03/11/2021 11:00	Collector: Jay Sanford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	98		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Total as CaCO <sub>3</sub>	130		mg/L	1.0		1			03/17/2021 10:01	MKK
<b>Individual Parameters by EPA 300.0</b>										
Chloride	12		mg/L	5.0		1		250	03/12/2021 09:47	DTM
Sulfate	28		mg/L	5.0		1		250	03/12/2021 09:47	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	03/12/2021 10:20	RLC
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			03/17/2021 13:50	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.72		mg/L	0.025		1			03/11/2021 17:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.047		mg/L	0.010		1		0.20	03/17/2021 10:01	MKK
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0022		mg/L	0.0010		1		1.30	03/17/2021 10:13	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	03/17/2021 10:13	MKK
Zinc, Total	<0.0040		mg/L	0.0040		1		5	03/17/2021 10:13	MKK

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FINAL LABORATORY REPORT

# ANALYTICAL RESULTS

Lab ID: 3680450002	Date Collected: 03/11/2021 09:15	Matrix: Drinking Water (Potable)
Sample ID: 4061 Elms	Date Received: 03/11/2021 11:00	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	79		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Total as CaCO <sub>3</sub>	110		mg/L	1.0		1			03/17/2021 10:01	MKK
<b>Individual Parameters by EPA 300.0</b>										
Chloride	12		mg/L	5.0		1		250	03/12/2021 10:42	DTM
Sulfate	31		mg/L	5.0		1		250	03/12/2021 10:42	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	03/12/2021 10:20	RLC
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			03/17/2021 13:50	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.78		mg/L	0.025		1			03/11/2021 17:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.10		mg/L	0.010		1		0.20	03/17/2021 10:01	MKK
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0010		mg/L	0.0010		1		1.30	03/17/2021 10:13	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	03/17/2021 10:13	MKK
Zinc, Total	<0.0040		mg/L	0.0040		1		5	03/17/2021 10:13	MKK

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FINAL LABORATORY REPORT



Lab ID:	3680450003	Date Collected:	03/11/2021 08:50	Matrix:	Drinking Water (Potable)
Sample ID:	8083 Civic	Date Received:	03/11/2021 11:00	Collector:	Jay Sandford
Description:	WSSN: 6505				

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## Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ41656**  
**Work Order: 10101808\_01**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL OAKVIE, MI	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/19/2021 09:50
Sample Point:	KITCHEN SINK	Date Received:	01/20/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/20/2021		SM 9223 B	TC-00-B
Explanation of Coliform Results:					Not Detected = Coliform and E. coli bacteria were not found Positive = Total Coliform <u>was found</u> and E. coli bacteria <u>was not found</u> EC Positive = Coliform and E. Coli bacteria were found		

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

**Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.**

**Genesee County Health Dept.**  
**630 South Saginaw**  
**Flint, MI 48502-1540**  
**810 257-3603**

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

## Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ41657**  
**Work Order: 10101808\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL DRAGON	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/19/2021 09:35
Sample Point:	KITCHEN SINK	Date Received:	01/20/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/20/2021		SM 9223 B	TC-00-B
Explanation of Coliform Results:		Not Detected = Coliform and E. coli bacteria were not found Positive = Total Coliform <u>was found</u> and E. coli bacteria <u>was not found</u> EC Positive = Coliform and E. Coli bacteria were found					

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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**Genesee County Health Dept.**  
**630 South Saginaw**  
**Flint, MI 48502-1540**  
**810 257-3603**

## Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ41658**  
**Work Order: 10101808\_03**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL CRAP,	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/19/2021 09:11
Sample Point:	KITCHEN SINK	Date Received:	01/20/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/20/2021	SM 9223 B	TC-00-B	
Explanation of Coliform Results:		Not Detected = Coliform and E. coli bacteria were not found Positive = Total Coliform <u>was found</u> and E. coli bacteria <u>was not found</u> EC Positive = Coliform and E. Coli bacteria were found					

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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**Genesee County Health Dept.**  
**630 South Saginaw**  
**Flint, MI 48502-1540**  
**810 257-3603**

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

1-4-2021

WSSN 6505

FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
<u>5121 MORRISH ROAD</u>	<u>0.12</u>	<u>0.12</u>
<u>ELMS RD. ELEMENTARY</u>	<u>0.5</u>	<u>0.5</u>
<u><del>8240 MILLER ROAD</del></u>	<u><del>          </del></u>	<u><del>          </del></u>
<u>8083 CIVIC DRIVE</u>	<u>0.3</u>	<u>0.3</u>

Roxanne  
732-0079

1-19-2021

	TOTAL	FREE
<u>MIDDLE SCHOOL</u>	<u>0.3</u>	<u>0.3</u>
<u>HIGH SCHOOL</u>	<u>0.5</u>	<u>0.5</u>
<u>SYRING SCHOOL</u>	<u>0.3</u>	<u>0.3</u>
<u><del>3462 DYE ROAD MIA</del></u>	<u><del>          </del></u>	<u><del>          </del></u>

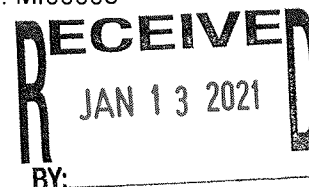


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DRINKING WATER LABORATORY

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report

BY: \_\_\_\_\_

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ39676

Work Order: 10100108\_02

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/04/2021 09:00
Sample Point:	KITCHEN SINK	Date Received:	01/05/2021 07:47
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/05/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

**Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.**

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane

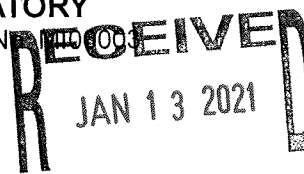


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DRINKING WATER LABORATORY

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Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ39677  
Work Order: 10100108\_03

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELM RD ELEMENTARY, SWARTZ CREI	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/04/2021 09:30
Sample Point:	KITCHEN SINK	Date Received:	01/05/2021 07:47
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/05/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



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DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report



Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

BY: **Sample ID: LJ39675**  
**Work Order: 10100108\_01**

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	8083 CIVIC DR, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/04/2021 09:45
Sample Point:	KITCHEN SINK	Date Received:	01/05/2021 07:47
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/05/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

**Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.**

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

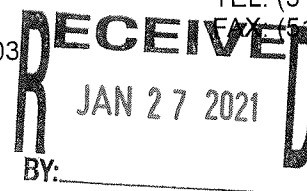




MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ41658  
Work Order: 10101808\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL CF	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/19/2021 09:11
Sample Point:	KITCHEN SINK	Date Received:	01/20/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/20/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

**RECEIVED**  
JAN 27 2021  
BY: \_\_\_\_\_

### Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ41657**  
**Work Order: 10101808\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL DRA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/19/2021 09:35
Sample Point:	KITCHEN SINK	Date Received:	01/20/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

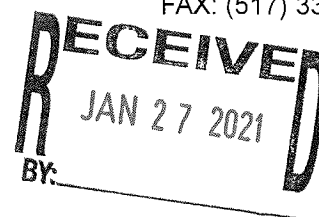
TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/20/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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**Genesee County Health Dept.**  
**630 South Saginaw**  
**Flint, MI 48502-1540**  
**810 257-3603**



Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ41656  
Work Order: 10101808\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL OAK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	01/19/2021 09:50
Sample Point:	KITCHEN SINK	Date Received:	01/20/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			01/20/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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AL: Action Level

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Not Detected: Not detected at or above the reporting limit (RL)

# WATER QUALITY PARAMETERS

	pH	TEMP	FREE	TOTAL	TIME/DATE: 7/15/2021
5121 MORRISH	7.9	20°C	.2	.2	9:40 AM
8083 CIVIC	7.8	22°C	.3	.3	9:50 AM
4061 ELMS	7.7	21°C	.4	.4	10:15 AM



12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

Wednesday, July 28, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 370849

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

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## GLOSSARY

Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

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## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3708490001	5121 Morrish	WSSN; 6505	D	07/15/2021 09:40	07/15/2021 12:30	B. Becca
3708490002	8083 Civic	WSSN; 6505	D	07/15/2021 09:50	07/15/2021 12:30	B. Becca
3708490003	4061 Elms	WSSN; 6505	D	07/15/2021 10:15	07/15/2021 12:30	B. Becca

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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#### General Comments:

Samples were received on natural ice with an average temperature of 0.6°C on July 15, 2021.

### Analysis Results Narrative

---

3708490003 - 4061 Elms - Aluminum, Total

H|Result (or RL) is above Max limit.

---

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# ANALYTICAL RESULTS

Lab ID: 3708490001	Date Collected: 07/15/2021 09:40	Matrix: Drinking Water, Potable (D)
Sample ID: 5121 Morrish	Date Received: 07/15/2021 12:30	Collector: Becca B.
Description: WSSN; 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	69		mg/L	1.0		1			07/21/2021 11:28	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			07/21/2021 11:28	JPG
Hardness, Total as CaCO <sub>3</sub>	99		mg/L	1.0		1			07/21/2021 11:28	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	07/19/2021 14:54	DTM
Sulfate	25		mg/L	5.0		1		250	07/19/2021 14:54	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.11		NTU	0.05		1		1	07/16/2021 07:15	DTM
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			07/16/2021 10:53	CTJ
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.63		mg/L	0.025		1			07/15/2021 16:17	JKP
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.13		mg/L	0.010		1		0.20	07/21/2021 11:28	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0022		mg/L	0.0010		1		1.30	07/27/2021 14:08	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	07/27/2021 14:08	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	07/27/2021 14:08	DTM

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# ANALYTICAL RESULTS

Lab ID: 3708490002	Date Collected: 07/15/2021 09:50	Matrix: Drinking Water, Potable (D)
Sample ID: 8083 Civic	Date Received: 07/15/2021 12:30	Collector: Becca B.
Description: WSSN; 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	67		mg/L	1.0		1			07/21/2021 11:40	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			07/21/2021 11:40	JPG
Hardness, Total as CaCO <sub>3</sub>	98		mg/L	1.0		1			07/21/2021 11:40	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	07/19/2021 15:12	DTM
Sulfate	25		mg/L	5.0		1		250	07/19/2021 15:12	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.14		NTU	0.05		1		1	07/16/2021 07:15	DTM
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	50		mg/L	10		1			07/16/2021 10:53	CTJ
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.61		mg/L	0.025		1			07/15/2021 16:17	JKP
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.095		mg/L	0.010		1		0.20	07/21/2021 11:40	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.030		mg/L	0.0010		1		1.30	07/27/2021 14:08	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	07/27/2021 14:08	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	07/27/2021 14:08	DTM

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# ANALYTICAL RESULTS

Lab ID: 3708490003  
Sample ID: 4061 Elms  
Description: WSSN; 6505

Date Collected: 07/15/2021 10:15  
Date Received: 07/15/2021 12:30

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	66		mg/L	1.0		1			07/21/2021 11:43	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			07/21/2021 11:43	JPG
Hardness, Total as CaCO <sub>3</sub>	97		mg/L	1.0		1			07/21/2021 11:43	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	07/19/2021 15:31	DTM
Sulfate	24		mg/L	5.0		1		250	07/19/2021 15:31	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.14		NTU	0.05		1		1	07/16/2021 07:15	DTM
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			07/16/2021 10:53	CTJ
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.77		mg/L	0.025		1			07/15/2021 16:17	JKP
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.42	*	mg/L	0.010		1		0.20	07/21/2021 11:43	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	07/27/2021 14:08	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	07/27/2021 14:08	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	07/27/2021 14:08	DTM

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7-6-21

WSSN 6505

FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
<u>5121 MORRISH ROAD</u>	<u>0.5</u>	<u>0.5</u>
<u>ELMS RD. ELEMENTARY</u>	<u>0.2</u>	<u>0.2</u>
<del>8240 MILLER ROAD</del>	<del>~~~~~</del>	<del>~~~~~</del>
<u>8083 CIVIC DRIVE</u>	<u>0.5</u>	<u>0.5</u>

Roxanne  
732-0079

7-19-21

	TOTAL	FREE
<u>MIDDLE SCHOOL</u>	<u>0.3</u>	<u>0.3</u>
<u>HIGH SCHOOL</u>	<u>0.3</u>	<u>0.3</u>
<u>SYRING SCHOOL</u>	<u>0.5</u>	<u>0.5</u>
<del>3462 DYE ROAD MTA</del>	<del>~~~~~</del>	<del>~~~~~</del>

faxed 7/20/21  
A



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ65119

Work Order: 10700470\_01

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 8083 CIVIC DR, SWARTZ CREEK  
Collected By:  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 07/06/2021 09:45  
Date Received: 07/07/2021 08:01  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			07/07/2021		SM 9223 B	TC-00-B
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Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

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DRINKING WATER LABORATORY

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ65120

Work Order: 10700470\_02

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELMS RD ELEMENTARY SCHOOL, SW	Source:	TYPE III
Collected By:		Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	07/06/2021 09:22
Sample Point:	KITCHEN SINK	Date Received:	07/07/2021 08:01
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			07/07/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

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mg/L: milligrams / Liter (ppm)

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CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane





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Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ65121

Work Order: 10700470\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	07/06/2021 09:05
Sample Point:	KITCHEN SINK	Date Received:	07/07/2021 08:01
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			07/07/2021		SM 9223 B	TC-00-B
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Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603



RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Not Detected: Not detected at or above the reporting limit (RL)



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DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ67439  
Work Order: 10702061\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	07/19/2021 09:30
Sample Point:	KITCHEN SINK	Date Received:	07/20/2021 08:45
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			07/20/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane





MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ67440  
Work Order: 10702061\_02

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	07/19/2021 09:10
Sample Point:	KITCHEN SINK	Date Received:	07/20/2021 08:45
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			07/20/2021	SM 9223 B		TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

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Laboratory Contact: Marlene Kane



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

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USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ67441  
Work Order: 10702061\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL, SWAR	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	07/19/2021 09:45
Sample Point:	KITCHEN SINK	Date Received:	07/20/2021 08:45
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			07/20/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

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MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane

# WATER QUALITY PARAMETERS - RETESTING

BERCA 06/24/2021

	PH	TEMP	FREE	TOTAL	TIME
5121 MORRISH	7.9	18.5°C	.2	.2	8:15 AM
0083 CIVIC	7.8	19.5°C	.3	.3	8:50 AM
4001 ELMS	7.7	19.2°C	.4	.4	9:15 AM

Tuesday, June 29, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 369973

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,



Elizabeth Pangborn  
Account Coordination Team Leader

## GLOSSARY

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Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3699730001	5121 Morrish	WSSN: 6505	D	06/10/2021 08:40	06/10/2021 13:49	REBECC
3699730002	4061 Elms	WSSN: 6505	D	06/10/2021 09:20	06/10/2021 13:49	REBECC
3699730003	8083 Civic	WSSN: 6505	D	06/10/2021 09:00	06/10/2021 13:49	REBECC

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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#### General Comments:

Samples were received on natural ice with an average temperature of 1.9°C on June 10, 2021.

### Analysis Results Narrative

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3699730001 - 5121 Morrish - Turbidity

T|Sample received and/or test analyzed after recommended maximum holding time.

3699730002 - 4061 Elms - Aluminum, Total

H|Result (or RL) is above Max limit.

3699730002 - 4061 Elms - Turbidity

T|Sample received and/or test analyzed after recommended maximum holding time.

3699730003 - 8083 Civic - Turbidity

T|Sample received and/or test analyzed after recommended maximum holding time.

---

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## ANALYTICAL RESULTS

Lab ID:	3699730001	Date Collected:				06/10/2021 08:40	Matrix:				Drinking Water, Potable (D)
Sample ID:	5121 Morrish	Date Received:				06/10/2021 13:49	Collector:				REBECCA
Description:	WSSN: 6505										
Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By	
Calculated Parameters by SM 2340 B											
Hardness, Calcium as CaCO3	72		mg/L	1.0		1			06/16/2021 13:53	JPG	
Hardness, Magnesium as CaCO3	32		mg/L	1.0		1			06/16/2021 13:53	JPG	
Hardness, Total as CaCO3	100		mg/L	1.0		1			06/16/2021 13:53	JPG	
Individual Parameters by EPA 300.0											
Chloride	11		mg/L	5.0		1		250	06/18/2021 06:59	DTM	
Sulfate	23		mg/L	5.0		1		250	06/18/2021 06:59	DTM	
Individual Parameters by SM 2130 B											
Turbidity	0.22	*	NTU	0.05		1		1	06/22/2021 09:50	JKP	
Individual Parameters by SM 2320 B											
Alkalinity, Total as CaCO3	70		mg/L	10		1			06/17/2021 07:26	JKP	
Individual Parameters by SM 4500-P E											
Orthophosphate, as P	<2.5		mg/L	2.5		10			06/11/2021 11:00	MSH	
Metals by EPA 200.7											
Aluminum, Total	0.060		mg/L	0.010		1		0.20	06/16/2021 13:53	JPG	
Metals by EPA 200.8											
Copper, Total	0.0026		mg/L	0.0010		1		1.30	06/28/2021 10:57	DTM	
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	06/28/2021 10:57	DTM	
Zinc, Total	<0.0040		mg/L	0.0040		1		5	06/28/2021 10:57	DTM	

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## ANALYTICAL RESULTS

Lab ID:	3699730002	Date Collected:	06/10/2021 09:20				Matrix:	Drinking Water, Potable (D)		
Sample ID:	4061 Elms	Date Received:	06/10/2021 13:49				Collector:	REBECCA		
Description:	WSSN: 6505									
Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO3	70		mg/L	1.0		1			06/16/2021 13:40	JPG
Hardness, Magnesium as CaCO3	33		mg/L	1.0		1			06/16/2021 13:40	JPG
Hardness, Total as CaCO3	100		mg/L	1.0		1			06/16/2021 13:40	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	06/18/2021 07:59	DTM
Sulfate	23		mg/L	5.0		1		250	06/18/2021 07:59	DTM
Individual Parameters by SM 2130 B										
Turbidity	0.22	*	NTU	0.05		1		1	06/22/2021 09:50	JKP
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO3	70		mg/L	10		1			06/17/2021 07:26	JKP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	<2.5		mg/L	2.5		10			06/11/2021 11:00	MSH
Metals by EPA 200.7										
Aluminum, Total	0.35	*	mg/L	0.10		10		0.20	06/16/2021 13:40	JPG
Metals by EPA 200.8										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	06/28/2021 10:57	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	06/28/2021 10:57	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	06/28/2021 10:57	DTM

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## ANALYTICAL RESULTS

Lab ID: 3699730003  
Sample ID: 8083 Civic  
Description: WSSN: 6505

Date Collected: 06/10/2021 09:00  
Date Received: 06/10/2021 13:49

Matrix: Drinking Water, Potable (D)  
Collector: REBECCA

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	70		mg/L	1.0		1			06/16/2021 13:43	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	32		mg/L	1.0		1			06/16/2021 13:43	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			06/16/2021 13:43	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	06/18/2021 08:17	DTM
Sulfate	23		mg/L	5.0		1		250	06/18/2021 08:17	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.21	*	NTU	0.05		1		1	06/22/2021 09:50	JKP
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			06/17/2021 07:26	JKP
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	<2.5		mg/L	2.5		10			06/11/2021 11:00	MSH
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.072		mg/L	0.010		1		0.20	06/16/2021 13:43	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.028		mg/L	0.0010		1		1.30	06/28/2021 10:57	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	06/28/2021 10:57	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	06/28/2021 10:57	DTM

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6-7-21

WSSN 6505

FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
5121 MORRISH ROAD	0.5	0.5
ELMS RD. ELEMENTARY	0.5	0.5
<del>8240 MILLER ROAD</del>		
8083 CIVIC DRIVE	0.5	0.5

Roxanne  
732-0079

6-21-21

	TOTAL	FREE
MIDDLE SCHOOL	0.3	0.3
HIGH SCHOOL	0.3	0.3
SYRING SCHOOL	0.3	0.3
<del>3462 DYE ROAD MTA</del>		

**Official Laboratory Report**

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ59562**  
**Work Order: 10600840\_01**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	06/07/2021 10:20
Sample Point:	KITCHEN SINK	Date Received:	06/08/2021 08:13
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			06/08/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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**Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603**

**RECEIVED**  
JUN 14 2021  
BY: \_\_\_\_\_

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Not Detected: Not detected at or above the reporting limit (RL)

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ59563**  
**Work Order: 10600840\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELM RD ELEMENTARY SCHOOL, SWA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	06/07/2021 10:38
Sample Point:	KITCHEN SINK	Date Received:	06/08/2021 08:13
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			06/08/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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810 257-3603**

**RECEIVED**  
JUN 14 2021  
BY: \_\_\_\_\_

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mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Not Detected: Not detected at or above the reporting limit (RL)

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ59564  
Work Order: 10600840\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	8083 CIVIC DR, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	06/07/2021 10:55
Sample Point:	KITCHEN SINK	Date Received:	06/08/2021 08:13
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			06/08/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RECEIVED  
JUN 14 2021  
BY: \_\_\_\_\_

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Not Detected: Not detected at or above the reporting limit (RL)

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ62472**  
**Work Order: 10602712\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	06/21/2021 09:45
Sample Point:	KITCHEN SINK	Date Received:	06/21/2021 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			06/21/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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**Genesee County Health Dept.**  
**630 South Saginaw**  
**Flint, MI 48502-1540**  
**810 257-3603**

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ62472  
Work Order: 10602712\_02

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	06/21/2021 09:45
Sample Point:	KITCHEN SINK	Date Received:	06/21/2021 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			06/21/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

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Positive = Total Coliform was found and E. coli bacteria was not found  
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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane





MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ62473  
Work Order: 10602712\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	06/21/2021 09:30
Sample Point:	KITCHEN SINK	Date Received:	06/21/2021 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			06/21/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



Thursday, March 18, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 368045  
Project Name: City of Swartz Creek

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5622.

Sincerely,

Breanna Bell  
Account Coordinator



## GLOSSARY

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Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

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## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3680450001	5121 Morrish	WSSN: 6505	D	03/11/2021 08:35	03/11/2021 11:00	Sandford
3680450002	4061 Elms	WSSN: 6505	D	03/11/2021 09:15	03/11/2021 11:00	Sandford
3680450003	8083 Civic	WSSN: 6505	D	03/11/2021 08:50	03/11/2021 11:00	Sandford

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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General Comments: Samples were received chilled on natural ice with an average temperature of 4.0 °C on 03/11/2021.

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## ANALYTICAL RESULTS

<b>Lab ID:</b> 3680450001	<b>Date Collected:</b> 03/11/2021 08:35	<b>Matrix:</b> Drinking Water (Potable)
<b>Sample ID:</b> 5121 Morrish	<b>Date Received:</b> 03/11/2021 11:00	<b>Collector:</b> Jay Sandford
<b>Description:</b> WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	98		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Total as CaCO <sub>3</sub>	130		mg/L	1.0		1			03/17/2021 10:01	MKK
<b>Individual Parameters by EPA 300.0</b>										
Chloride	12		mg/L	5.0		1		250	03/12/2021 09:47	DTM
Sulfate	28		mg/L	5.0		1		250	03/12/2021 09:47	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	03/12/2021 10:20	RLC
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			03/17/2021 13:50	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.72		mg/L	0.025		1			03/11/2021 17:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.047		mg/L	0.010		1		0.20	03/17/2021 10:01	MKK
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0022		mg/L	0.0010		1		1.30	03/17/2021 10:13	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	03/17/2021 10:13	MKK
Zinc, Total	<0.0040		mg/L	0.0040		1		5	03/17/2021 10:13	MKK

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# ANALYTICAL RESULTS

Lab ID: 3680450002  
Sample ID: 4061 Elms  
Description: WSSN: 6505

Date Collected: 03/11/2021 09:15  
Date Received: 03/11/2021 11:00

Matrix: Drinking Water (Potable)  
Collector: Jay Sandford

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	79		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Total as CaCO <sub>3</sub>	110		mg/L	1.0		1			03/17/2021 10:01	MKK
<b>Individual Parameters by EPA 300.0</b>										
Chloride	12		mg/L	5.0		1		250	03/12/2021 10:42	DTM
Sulfate	31		mg/L	5.0		1		250	03/12/2021 10:42	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	<0.05		NTU	0.05		1		1	03/12/2021 10:20	RLC
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			03/17/2021 13:50	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.78		mg/L	0.025		1			03/11/2021 17:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.10		mg/L	0.010		1		0.20	03/17/2021 10:01	MKK
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0010		mg/L	0.0010		1		1.30	03/17/2021 10:13	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	03/17/2021 10:13	MKK
Zinc, Total	<0.0040		mg/L	0.0040		1		5	03/17/2021 10:13	MKK

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PARAGON  
Laboratories

FINAL LABORATORY REPORT

# ANALYTICAL RESULTS

Lab ID: 3680450003  
Sample ID: 8083 Civic  
Description: WSSN: 6505

Date Collected: 03/11/2021 08:50  
Date Received: 03/11/2021 11:00

Matrix: Drinking Water (Potable)  
Collector: Jay Sandford

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	81		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			03/17/2021 10:01	MKK
Hardness, Total as CaCO <sub>3</sub>	110		mg/L	1.0		1			03/17/2021 10:01	MKK
Individual Parameters by EPA 300.0										
Chloride	12		mg/L	5.0		1		250	03/12/2021 11:00	DTM
Sulfate	32		mg/L	5.0		1		250	03/12/2021 11:00	DTM
Individual Parameters by SM 2130 B										
Turbidity	<0.05		NTU	0.05		1		1	03/12/2021 10:20	RLC
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			03/17/2021 13:50	RLC
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.74		mg/L	0.025		1			03/11/2021 17:00	RLC
Metals by EPA 200.7										
Aluminum, Total	0.034		mg/L	0.010		1		0.20	03/17/2021 10:01	MKK
Metals by EPA 200.8										
Copper, Total	0.035		mg/L	0.0010		1		1.30	03/17/2021 10:13	MKK
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	03/17/2021 10:13	MKK
Zinc, Total	0.0056		mg/L	0.0040		1		5	03/17/2021 10:13	MKK

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3-1-2021

WSSN 6505

FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
5121 MORRISH ROAD	0.3	0.3
ELMS RD. ELEMENTARY	0.5	0.5
<del>8240 MILLER ROAD</del>		
8083 CIVIC DRIVE	0.5	0.5

Roxanne  
732-0079

3-15-21

	TOTAL	FREE
MIDDLE SCHOOL	0.5	0.5
HIGH SCHOOL	0.5	0.5
SYRING SCHOOL	0.5	0.5
<del>3462 DYE ROAD MTA</del>		

Fayed  
4-5-21  
KB



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

**MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

**Official Laboratory Report**

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ45919**

**Work Order: 10300096\_01**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	03/01/2021 08:45
Sample Point:	KITCHEN SINK	Date Received:	03/02/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			03/02/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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**Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603**

RL: Reporting Limit	mg/L: milligrams / Liter (ppm)	CFU: Colony Forming Unit
MCL: Maximum Contaminant Level	ng/L: nanograms / Liter (ppt)	CAS: Chemical Abstract Service
AL: Action Level	MPN: Most Probable Number	Laboratory Contact: Marlene Kane
Not Detected: Not detected at or above the reporting limit (RL)		



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

**MICHIGAN DEPARTMENT OF  
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P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ45921**  
**Work Order: 10300096\_03**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELMS RD ELEMENTARY SCHOOL ELM	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	03/01/2021 09:00
Sample Point:	KITCHEN SINK	Date Received:	03/02/2021 07:58
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			03/02/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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**Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603**

**RECEIVED**  
MAR 09 2021  
BY: \_\_\_\_\_

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



MICHIGAN DEPARTMENT OF  
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FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ45920  
Work Order: 10300096\_02

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 8083 CIVIC DR, SWARTZ CREEK  
Collected By: ROD  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 03/01/2021 09:25  
Date Received: 03/02/2021 07:58  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			03/02/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

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MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ47686  
Work Order: 10301603\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	03/15/2021 13:15
Sample Point:	KITCHEN SINK	Date Received:	03/16/2021 08:46
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			03/16/2021	SM 9223 B		TC-00-B
Explanation of Coliform Results:					Not Detected = Coliform and E. coli bacteria were not found Positive = Total Coliform <u>was found</u> and E. coli bacteria <u>was not found</u> EC Positive = Coliform and E. coli bacteria were found		

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630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ47687  
Work Order: 10301603\_02

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL CRAP,	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	03/15/2021 13:00
Sample Point:	KITCHEN SINK	Date Received:	03/16/2021 08:46
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			03/16/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ47688  
Work Order: 10301603\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY OAKVIEW DR,SWA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	03/15/2021 13:30
Sample Point:	KITCHEN SINK	Date Received:	03/16/2021 08:46
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			03/16/2021		SM 9223 B	TC-00-B
Explanation of Coliform Results:					Not Detected = Coliform and E. coli bacteria were not found Positive = Total Coliform was <u>found</u> and E. coli bacteria <u>was not found</u> EC Positive = Coliform and E. Coli bacteria were found		

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

5-10-21

WSSN 6505

# FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
<u>5121 MORRISH ROAD</u>	<u>0.3</u>	<u>0.3</u>
<u>ELMS RD. ELEMENTARY</u>	<u>0.5</u>	<u>0.5</u>
<del>8240 MILLER ROAD</del>		
<u>8083 CIVIC DRIVE</u>	<u>0.5</u>	<u>0.5</u>

Roxanne  
732-0079

5-24-21

	TOTAL	FREE
<u>MIDDLE SCHOOL</u>	<u>0.3</u>	<u>0.3</u>
<u>HIGH SCHOOL</u>	<u>0.3</u>	<u>0.3</u>
<u>SYRING SCHOOL</u>	<u>0.5</u>	<u>0.5</u>
<del>3462 DYE ROAD MTA</del>		





MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ55226  
Work Order: 10500950\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELMS RD ELEMENTARY, SWARTZ CRI	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	05/10/2021 09:20
Sample Point:	KITCHEN SINK	Date Received:	05/11/2021 08:52
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			05/11/2021		SM 9223 B	TC-00-B

Not Detected = Coliform and E. coli bacteria were not found

Explanation of Coliform Results: Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RECEIVED  
MAY 17 2021  
BY: \_\_\_\_\_

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ55227**  
**Work Order: 10500950\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	8083 CIVIC DR, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	05/10/2021 09:40
Sample Point:	KITCHEN SINK	Date Received:	05/11/2021 08:52
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

<b>Coliform Organisms per 100 mL</b>	<b>Not Detected</b>			<b>05/11/2021</b>	<b>SM 9223 B</b>	<b>TC-00-B</b>
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Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
 Positive = Total Coliform was found and E. coli bacteria was not found  
 EC Positive = Coliform and E. Coli bacteria were found

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**630 South Saginaw**  
**Flint, MI 48502-1540**  
**810 257-3603**

**RECEIVED**  
**MAY 17 2021**  
BY: \_\_\_\_\_

# Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ55228**  
**Work Order: 10500950\_03**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	05/10/2021 09:00
Sample Point:	KITCHEN SINK	Date Received:	05/11/2021 08:52
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			05/11/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

**RECEIVED**  
MAY 17 2021  
BY: \_\_\_\_\_

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ57430  
Work Order: 10502503\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL CRAP,;	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	05/24/2021 09:40
Sample Point:	KITCHEN SINK	Date Received:	05/25/2021 08:45
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			05/25/2021	SM 9223 B	TC-00-B
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Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
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AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ57431  
Work Order: 10502503\_02

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL OAKVIE, MI	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	05/24/2021 10:10
Sample Point:	KITCHEN SINK	Date Received:	05/25/2021 08:45
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			05/25/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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AL: Action Level  
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mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ANDY HARRIS  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ57432**  
**Work Order: 10502503\_03**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	05/24/2021 09:55
Sample Point:	KITCHEN SINK	Date Received:	05/25/2021 08:45
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			05/25/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

5/13/21

Paragon

# Water Quality Parameters

	Temp	pH	Free	TOTAL	Time	Date
5121 Morrish	12.0°C	7.92	.2	.3	8:30am	5-13-21
4061 Elms	15.1°C	7.91	.4	.4	9:50am	5-13-21
8083 Civic	16.5°C	7.89	.4	.5	8:50am	5-13-21

## TTHM / HAA5 / VOCs

	Temp	pH	Free	TOTAL	Time	Date
3259 Elms	16.2°C	7.98	.4	.5	9:30am	5-13-21
8230 Crapo	16.3°C	7.96	.4	.5	9:15am	5-13-21



12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

Wednesday, May 26, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 369392  
Project Name: City of Swartz Creek

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

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## GLOSSARY

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Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3693920001	5121 Morrish	WSSN: 6505	D	05/13/2021 08:30	05/13/2021 12:50	Sandford
3693920002	4061 Elms	WSSN: 6505	D	05/13/2021 09:50	05/13/2021 12:50	Sandford
3693920003	8083 Civic	WSSN: 6505	D	05/13/2021 08:50	05/13/2021 12:50	Sandford

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

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# ANALYTICAL RESULTS

Lab ID: 3693920001	Date Collected: 05/13/2021 08:30	Matrix: Drinking Water, Potable (D)
Sample ID: 5121 Morrish	Date Received: 05/13/2021 12:50	Collector: Jay Sanford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO3	69		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Magnesium as CaCO3	30		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Total as CaCO3	99		mg/L	1.0		1			05/21/2021 14:53	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	05/15/2021 11:26	DTM
Sulfate	26		mg/L	5.0		1		250	05/15/2021 11:26	DTM
Individual Parameters by SM 2130 B										
Turbidity	0.08		NTU	0.05		1		1	05/14/2021 07:00	DTM
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO3	70		mg/L	10		1			05/19/2021 15:43	JKP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	<2.5		mg/L	2.5		10			05/13/2021 15:20	JKP
Metals by EPA 200.7										
Aluminum, Total	0.014		mg/L	0.010		1		0.20	05/21/2021 14:54	JPG
Metals by EPA 200.8										
Copper, Total	0.0021		mg/L	0.0010		1		1.30	05/18/2021 11:14	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	05/18/2021 11:14	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	05/18/2021 11:14	DTM

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## ANALYTICAL RESULTS

Lab ID: 3693920002	Date Collected: 05/13/2021 09:50	Matrix: Drinking Water, Potable (D)
Sample ID: 4061 Elms	Date Received: 05/13/2021 12:50	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	67		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	29		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Total as CaCO <sub>3</sub>	96		mg/L	1.0		1			05/21/2021 14:53	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	05/15/2021 11:45	DTM
Sulfate	26		mg/L	5.0		1		250	05/15/2021 11:45	DTM
Individual Parameters by SM 2130 B										
Turbidity	0.09		NTU	0.05		1		1	05/14/2021 07:00	DTM
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	50		mg/L	10		1			05/20/2021 15:42	JKP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	<2.5		mg/L	2.5		10			05/13/2021 15:20	JKP
Metals by EPA 200.7										
Aluminum, Total	0.041		mg/L	0.010		1		0.20	05/21/2021 14:54	JPG
Metals by EPA 200.8										
Copper, Total	0.0025		mg/L	0.0010		1		1.30	05/18/2021 11:14	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	05/18/2021 11:14	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	05/18/2021 11:14	DTM

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## ANALYTICAL RESULTS

Lab ID: 3693920003	Date Collected: 05/13/2021 08:50	Matrix: Drinking Water, Potable (D)
Sample ID: 8083 Civic	Date Received: 05/13/2021 12:50	Collector: Jay Sanford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	66		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	29		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Total as CaCO <sub>3</sub>	95		mg/L	1.0		1			05/21/2021 14:53	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	05/15/2021 12:03	DTM
Sulfate	26		mg/L	5.0		1		250	05/15/2021 12:03	DTM
Individual Parameters by SM 2130 B										
Turbidity	0.09		NTU	0.05		1		1	05/14/2021 07:00	DTM
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	60		mg/L	10		1			05/20/2021 15:42	JKP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	<2.5		mg/L	2.5		10			05/13/2021 15:20	JKP
Metals by EPA 200.7										
Aluminum, Total	0.043		mg/L	0.010		1		0.20	05/21/2021 14:54	JPG
Metals by EPA 200.8										
Copper, Total	0.027		mg/L	0.0010		1		1.30	05/18/2021 11:14	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	05/18/2021 11:14	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	05/18/2021 11:14	DTM

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Livonia, MI 48150  
P:734.462.3900  
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Friday, May 28, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 369390  
Project Name: City of Swartz Creek

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

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Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

---

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## GLOSSARY

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(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.



## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3693900001	3259 Elms	WSSN: 6505	D	05/13/2021 09:30	05/13/2021 12:50	Sandford
3693900002	8230 Crapo	WSSN: 6505	D	05/13/2021 09:15	05/13/2021 12:50	Sandford

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## WORKORDER SUMMARY

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### Accreditations

---

Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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General Comments: Samples were received chilled on natural ice with an average temperature of 2.4°C on March 13th, 2021. All VOA vials were observed to be acceptable.

---

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# ANALYTICAL RESULTS

Lab ID: 3693900001	Date Collected: 05/13/2021 09:30	Matrix: Drinking Water, Potable (D)
Sample ID: 3259 Elms	Date Received: 05/13/2021 12:50	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Haloacetic Acids (HAAs) by EPA 552.3										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			05/28/2021 00:30	GFM
Chloroacetic acid (MCAA)	2.5		µg/L	2.0	0.30	1			05/28/2021 00:30	GFM
Dibromoacetic acid (DBAA)	1.0		µg/L	1.0	0.39	1			05/28/2021 00:30	GFM
Dichloroacetic acid (DCAA)	24		µg/L	1.0	0.20	1			05/28/2021 00:30	GFM
Trichloroacetic acid (TCAA)	14		µg/L	1.0	0.12	1			05/28/2021 00:30	GFM
Haloacetic Acids, Total (HAA5)	42		µg/L	1.0		1		60	05/28/2021 00:30	GFM
Sample Preparation by EPA 552.3										
Liquid-Liquid Extraction, HAAs	Complete					1			05/27/2021 10:25	GFM
Volatiles by EPA 524.2										
Bromodichloromethane	6.9		µg/L	0.50		1			05/18/2021 21:33	DTM
Bromoform	<0.50		µg/L	0.50		1			05/18/2021 21:33	DTM
Chloroform	26		µg/L	0.50		1			05/18/2021 21:33	DTM
Dibromochloromethane	1.6		µg/L	0.50		1			05/18/2021 21:33	DTM
Trihalomethanes, Total (TTHM)	35		µg/L	0.50		1		80	05/18/2021 21:33	DTM

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# ANALYTICAL RESULTS

Lab ID: 3693900002  
Sample ID: 8230 Crapo  
Description: WSSN: 6505

Date Collected: 05/13/2021 09:15  
Date Received: 05/13/2021 12:50

Matrix: Drinking Water, Potable (D)  
Collector: Jay Sanford

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Haloacetic Acids (HAAs) by EPA 552.3										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			05/28/2021 01:11	GFM
Chloroacetic acid (MCAA)	<2.0		µg/L	2.0	0.30	1			05/28/2021 01:11	GFM
Dibromoacetic acid (DBAA)	<1.0		µg/L	1.0	0.39	1			05/28/2021 01:11	GFM
Dichloroacetic acid (DCAA)	18		µg/L	1.0	0.20	1			05/28/2021 01:11	GFM
Trichloroacetic acid (TCAA)	16		µg/L	1.0	0.12	1			05/28/2021 01:11	GFM
Haloacetic Acids, Total (HAA5)	33		µg/L	1.0		1		60	05/28/2021 01:11	GFM
Sample Preparation by EPA 552.3										
Liquid-Liquid Extraction, HAAs	Complete					1			05/27/2021 10:25	GFM
Volatiles by EPA 524.2										
Bromodichloromethane	6.7		µg/L	0.50		1			05/18/2021 22:03	DTM
Bromoform	<0.50		µg/L	0.50		1			05/18/2021 22:03	DTM
Chloroform	28		µg/L	0.50		1			05/18/2021 22:03	DTM
Dibromochloromethane	1.9		µg/L	0.50		1			05/18/2021 22:03	DTM
Trihalomethanes, Total (TTHM)	37		µg/L	0.50		1		80	05/18/2021 22:03	DTM

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5/13/21

Paragon

# Water Quality Parameters

	Temp	pH	Free	TOTAL	Time	Date
5121 Morrish	12.0°C	7.92	.2	.3	8:30am	5-13-21
4061 Elms	15.1°C	7.91	.4	.4	9:50am	5-13-21
8083 Civic	16.5°C	7.89	.4	.5	8:50am	5-13-21

## TTHM / HAA5 / VOCs

	Temp	pH	Free	TOTAL	Time	Date
3259 Elms	16.2°C	7.98	.4	.5	9:30am	5-13-21
8230 Crapo	16.3°C	7.96	.4	.5	9:15am	5-13-21



12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

Wednesday, May 26, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 369392  
Project Name: City of Swartz Creek

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

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## GLOSSARY

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Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

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## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3693920001	5121 Morrish	WSSN: 6505	D	05/13/2021 08:30	05/13/2021 12:50	Sandford
3693920002	4061 Elms	WSSN: 6505	D	05/13/2021 09:50	05/13/2021 12:50	Sandford
3693920003	8083 Civic	WSSN: 6505	D	05/13/2021 08:50	05/13/2021 12:50	Sandford

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

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## ANALYTICAL RESULTS

Lab ID: 3693920001	Date Collected: 05/13/2021 08:30	Matrix: Drinking Water, Potable (D)
Sample ID: 5121 Morrish	Date Received: 05/13/2021 12:50	Collector: Jay Sanford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	69		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Total as CaCO <sub>3</sub>	99		mg/L	1.0		1			05/21/2021 14:53	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	05/15/2021 11:26	DTM
Sulfate	26		mg/L	5.0		1		250	05/15/2021 11:26	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.08		NTU	0.05		1		1	05/14/2021 07:00	DTM
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			05/19/2021 15:43	JKP
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	<2.5		mg/L	2.5		10			05/13/2021 15:20	JKP
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.014		mg/L	0.010		1		0.20	05/21/2021 14:54	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0021		mg/L	0.0010		1		1.30	05/18/2021 11:14	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	05/18/2021 11:14	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	05/18/2021 11:14	DTM

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## ANALYTICAL RESULTS

Lab ID: 3693920002	Date Collected: 05/13/2021 09:50	Matrix: Drinking Water, Potable (D)
Sample ID: 4061 Elms	Date Received: 05/13/2021 12:50	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	67		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	29		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Total as CaCO <sub>3</sub>	96		mg/L	1.0		1			05/21/2021 14:53	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	05/15/2021 11:45	DTM
Sulfate	26		mg/L	5.0		1		250	05/15/2021 11:45	DTM
Individual Parameters by SM 2130 B										
Turbidity	0.09		NTU	0.05		1		1	05/14/2021 07:00	DTM
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	50		mg/L	10		1			05/20/2021 15:42	JKP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	<2.5		mg/L	2.5		10			05/13/2021 15:20	JKP
Metals by EPA 200.7										
Aluminum, Total	0.041		mg/L	0.010		1		0.20	05/21/2021 14:54	JPG
Metals by EPA 200.8										
Copper, Total	0.0025		mg/L	0.0010		1		1.30	05/18/2021 11:14	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	05/18/2021 11:14	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	05/18/2021 11:14	DTM

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## ANALYTICAL RESULTS

Lab ID: 3693920003	Date Collected: 05/13/2021 08:50	Matrix: Drinking Water, Potable (D)
Sample ID: 8083 Civic	Date Received: 05/13/2021 12:50	Collector: Jay Sanford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	66		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	29		mg/L	1.0		1			05/21/2021 14:53	JPG
Hardness, Total as CaCO <sub>3</sub>	95		mg/L	1.0		1			05/21/2021 14:53	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	05/15/2021 12:03	DTM
Sulfate	26		mg/L	5.0		1		250	05/15/2021 12:03	DTM
Individual Parameters by SM 2130 B										
Turbidity	0.09		NTU	0.05		1		1	05/14/2021 07:00	DTM
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	60		mg/L	10		1			05/20/2021 15:42	JKP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	<2.5		mg/L	2.5		10			05/13/2021 15:20	JKP
Metals by EPA 200.7										
Aluminum, Total	0.043		mg/L	0.010		1		0.20	05/21/2021 14:54	JPG
Metals by EPA 200.8										
Copper, Total	0.027		mg/L	0.0010		1		1.30	05/18/2021 11:14	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	05/18/2021 11:14	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	05/18/2021 11:14	DTM

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12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

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Friday, May 28, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 369390  
Project Name: City of Swartz Creek

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

---

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## GLOSSARY

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Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3693900001	3259 Elms	WSSN: 6505	D	05/13/2021 09:30	05/13/2021 12:50	Sandford
3693900002	8230 Crapo	WSSN: 6505	D	05/13/2021 09:15	05/13/2021 12:50	Sandford

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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General Comments: Samples were received chilled on natural ice with an average temperature of 2.4°C on March 13th, 2021. All VOA vials were observed to be acceptable.

---

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# ANALYTICAL RESULTS

Lab ID: 3693900001	Date Collected: 05/13/2021 09:30	Matrix: Drinking Water, Potable (D)
Sample ID: 3259 Elms	Date Received: 05/13/2021 12:50	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Haloacetic Acids (HAAs) by EPA 552.3										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			05/28/2021 00:30	GFM
Chloroacetic acid (MCAA)	2.5		µg/L	2.0	0.30	1			05/28/2021 00:30	GFM
Dibromoacetic acid (DBAA)	1.0		µg/L	1.0	0.39	1			05/28/2021 00:30	GFM
Dichloroacetic acid (DCAA)	24		µg/L	1.0	0.20	1			05/28/2021 00:30	GFM
Trichloroacetic acid (TCAA)	14		µg/L	1.0	0.12	1			05/28/2021 00:30	GFM
Haloacetic Acids, Total (HAA5)	42		µg/L	1.0		1		60	05/28/2021 00:30	GFM
Sample Preparation by EPA 552.3										
Liquid-Liquid Extraction, HAAs	Complete					1			05/27/2021 10:25	GFM
Volatiles by EPA 524.2										
Bromodichloromethane	6.9		µg/L	0.50		1			05/18/2021 21:33	DTM
Bromoform	<0.50		µg/L	0.50		1			05/18/2021 21:33	DTM
Chloroform	26		µg/L	0.50		1			05/18/2021 21:33	DTM
Dibromochloromethane	1.6		µg/L	0.50		1			05/18/2021 21:33	DTM
Trihalomethanes, Total (TTHM)	35		µg/L	0.50		1		80	05/18/2021 21:33	DTM

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# ANALYTICAL RESULTS

Lab ID: 3693900002  
Sample ID: 8230 Crapo  
Description: WSSN: 6505

Date Collected: 05/13/2021 09:15  
Date Received: 05/13/2021 12:50

Matrix: Drinking Water, Potable (D)  
Collector: Jay Sandford

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Haloacetic Acids (HAAs) by EPA 552.3										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			05/28/2021 01:11	GFM
Chloroacetic acid (MCAA)	<2.0		µg/L	2.0	0.30	1			05/28/2021 01:11	GFM
Dibromoacetic acid (DBAA)	<1.0		µg/L	1.0	0.39	1			05/28/2021 01:11	GFM
Dichloroacetic acid (DCAA)	18		µg/L	1.0	0.20	1			05/28/2021 01:11	GFM
Trichloroacetic acid (TCAA)	16		µg/L	1.0	0.12	1			05/28/2021 01:11	GFM
Haloacetic Acids, Total (HAA5)	33		µg/L	1.0		1		60	05/28/2021 01:11	GFM
Sample Preparation by EPA 552.3										
Liquid-Liquid Extraction, HAAs	Complete					1			05/27/2021 10:25	GFM
Volatiles by EPA 524.2										
Bromodichloromethane	6.7		µg/L	0.50		1			05/18/2021 22:03	DTM
Bromoform	<0.50		µg/L	0.50		1			05/18/2021 22:03	DTM
Chloroform	28		µg/L	0.50		1			05/18/2021 22:03	DTM
Dibromochloromethane	1.9		µg/L	0.50		1			05/18/2021 22:03	DTM
Trihalomethanes, Total (TTHM)	37		µg/L	0.50		1		80	05/18/2021 22:03	DTM

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11-8-21

WSSN 6505

### FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
5121 MORRISH ROAD	0.3	0.3
ELMS RD. ELEMENTARY	0.3	0.3
<del>8240 MILLER ROAD</del>		
8083 CIVIC DRIVE	0.5	0.5

Roxanne  
732-0079

11-23-21

	TOTAL	FREE
MIDDLE SCHOOL	0.5	0.5
HIGH SCHOOL	0.3	0.3
SYRING SCHOOL	0.5	0.5
<del>3462 DYE ROAD MTA</del>		



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

**MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

**RECEIVED**  
BY: \_\_\_\_\_

**Official Laboratory Report**

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ87760**

**Work Order: 11100843\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5121 MORRISH RD, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	11/08/2021 09:30
Sample Point:	KITCHEN SINK	Date Received:	11/09/2021 07:39
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			11/09/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

**Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.**

**Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603**

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

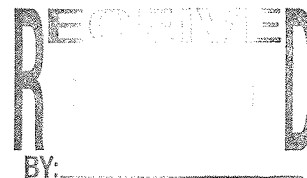
CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ87761  
Work Order: 11100843\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	ELM RD ELEMENTARY SCHOOL, SWA	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	11/08/2021 09:45
Sample Point:	KITCHEN SINK	Date Received:	11/09/2021 07:39
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			11/09/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

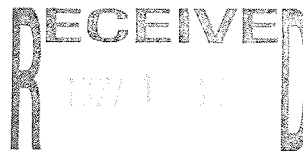
CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



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P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562



Official Laboratory Report

By: \_\_\_\_\_

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ87759  
Work Order: 11100843\_01

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 8083 CIVIC DR, SWARTZ CREEK  
Collected By: ROD  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 11/08/2021 10:00  
Date Received: 11/09/2021 07:39  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			11/09/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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Laboratory Contact: Marlene Kane



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FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ89995  
Work Order: 11102327\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL OAKVIEW, MI	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	11/23/2021 10:15
Sample Point:	KITCHEN SINK	Date Received:	11/24/2021 08:13
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			11/24/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ89996  
Work Order: 11102327\_02

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL, SWAR	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	11/23/2021 10:00
Sample Point:	KITCHEN SINK	Date Received:	11/24/2021 08:13
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			11/24/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. coli bacteria were found

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Flint, MI 48502-1540  
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MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane





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P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ89997  
Work Order: 11102327\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	11/23/2021 10:35
Sample Point:	KITCHEN SINK	Date Received:	11/24/2021 08:13
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			11/24/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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AL: Action Level  
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mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

10-21-21

WSSN 6505

### FREE CHLORINE RESIDUAL TEST

	TOTAL	FREE
5121 MORRISH ROAD	.4	.4
ELMS RD. ELEMENTARY	.5	.5
8240 MILLER ROAD	.6	.6
8083 CIVIC DRIVE	.5	.5

Roxanne  
732-0079

10-25-21

	TOTAL	FREE
MIDDLE SCHOOL	.5	.4
HIGH SCHOOL	.5	.4
SYRING SCHOOL	.4	.3
3462 DYE ROAD MTA		



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FAX: (517) 335-8562

Official Laboratory Report

Report To: ROBERT BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ85469

Work Order: 11002147\_02

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 5121 MORRISH, SWARTZ CREEK  
Collected By: REBECCA BOSAS  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 10/21/2021 10:45  
Date Received: 10/22/2021 07:46  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			10/22/2021	SM 9223 B	TC-00-B	
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Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
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AL: Action Level  
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ng/L: nanograms / Liter (ppt)  
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CFU: Colony Forming Unit  
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Laboratory Contact: Marlene Kane



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Official Laboratory Report

Report To: ROBERT BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ85468

Work Order: 11002147\_01

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 3259 ELMS, SWARTZ CREEK  
Collected By: REBECCA BOSAS  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 10/21/2021 11:15  
Date Received: 10/22/2021 07:46  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			10/22/2021		SM 9223 B	TC-00-B
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Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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FAX: (517) 335-8562

**Official Laboratory Report**

Report To: ROBERT BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ85470**  
**Work Order: 11002147\_03**

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 8240 MILLER, SWARTZ CREEK  
Collected By: REBECCA BOSAS  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 10/21/2021 11:35  
Date Received: 10/22/2021 07:46  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

<b>Coliform Organisms per 100 mL</b>	<b>Not Detected</b>			<b>10/22/2021</b>	<b>SM 9223 B</b>	<b>TC-00-B</b>
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Explanation of Coliform Results:

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Official Laboratory Report

Report To: ROBERT BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ85471

Work Order: 11002147\_04

System Name/Owner: GENESEE CO WATER SYSTEM  
Collection Address: 8083 CIVIC DR, SWARTZ CREEK  
Collected By: REBECCA BOSAS  
Township/Well#/Section: //  
County: Genesee  
Sample Point: KITCHEN SINK  
Water System: Treated Public Distribution System

WSSN/Pool ID: 6505  
Source: TYPE III  
Site Code:  
Collector: Other  
Date Collected: 10/21/2021 11:50  
Date Received: 10/22/2021 07:46  
Purpose: Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			10/22/2021		SM 9223 B	TC-00-B
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Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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FAX: (517) 335-8562



Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ85817  
Work Order: 11002359\_03

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWA	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	/304/	Collector:	Other
County:	Genesee	Date Collected:	10/25/2021 10:20
Sample Point:	KITCHEN SINK	Date Received:	10/26/2021 07:41
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			10/26/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

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630 South Saginaw  
Flint, MI 48502-1540  
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AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

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ng/L: nanograms / Liter (ppt)

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Laboratory Contact: Marlene Kane



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FAX: (517) 335-8562



**Official Laboratory Report**

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

**Sample ID: LJ85816**  
**Work Order: 11002359\_02**

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL,SV	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	/304/	Collector:	Other
County:	Genesee	Date Collected:	10/25/2021 09:45
Sample Point:	KITCHEN SINK	Date Received:	10/26/2021 07:41
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			10/26/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
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Flint, MI 48502-1540  
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AL: Action Level  
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Official Laboratory Report

Report To: ROB BINCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ85815  
Work Order: 11002359\_01

System Name/Owner:	GENESEE CO WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY, SWARTZ CREI	Source:	TYPE II
Collected By:	JAY SANDFORD	Site Code:	
Township/Well#/Section:	/304/	Collector:	Other
County:	Genesee	Date Collected:	10/25/2021 10:45
Sample Point:		Date Received:	10/26/2021 07:41
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			10/26/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603

RL: Reporting Limit  
MCL: Maximum Contaminant Level  
AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

# WATER QUALITY PARAMETERS

7/16/2021

	FREE	TOTAL	pH	TEMP
5121 MORRISH	.3	.3	7.9	19.4°C
4061 ELMS	.6	.6	7.9	19.5°C
8083 CIVIC	.3	.3	8	20.9°C

Wednesday, September 29, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 372653

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,



Elizabeth Pangborn  
Account Coordination Team Leader

## GLOSSARY

Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3726530001	5121 Morrish	WSSN: 6505	D	09/16/2021 09:15	09/16/2021 14:18	Rebecca
3726530002	4061 Elms	WSSN: 6505	D	09/16/2021 09:40	09/16/2021 14:18	Rebecca
3726530003	8083 Civic	WSSN: 6505	D	09/16/2021 10:10	09/16/2021 14:18	Rebecca

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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General Comments:

Samples were received on natural ice with an average temperature of 0.7°C on September 16, 2021.

### Analysis Results Narrative

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3726530001 - 5121 Morrish - Sulfate

The MS and/or MSD recovery for this analyte was below the lower control limit.

3726530002 - 4061 Elms - Aluminum, Total

H|Result (or RL) is above Max limit.

---

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# ANALYTICAL RESULTS

Lab ID: 3726530001  
Sample ID: 5121 Morrish  
Description: WSSN: 6505

Date Collected: 09/16/2021 09:15  
Date Received: 09/16/2021 14:18

Matrix: Drinking Water, Potable (D)  
Collector: Rebecca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	72		mg/L	1.0		1			09/23/2021 15:44	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			09/23/2021 15:44	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			09/23/2021 15:44	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	09/21/2021 10:11	RTS
Sulfate	25	*	mg/L	5.0		1		250	09/21/2021 10:11	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.21		NTU	0.05		1		1	09/17/2021 15:35	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			09/23/2021 13:12	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.62		mg/L	0.025		1			09/17/2021 08:52	CTJ
Metals by EPA 200.7										
Aluminum, Total	0.13		mg/L	0.010		1		0.20	09/23/2021 15:44	JPG
Metals by EPA 200.8										
Copper, Total	0.0023		mg/L	0.0010		1		1.30	09/24/2021 14:12	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	09/24/2021 14:12	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	09/24/2021 14:12	DTM

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# ANALYTICAL RESULTS

Lab ID: 3726530002  
Sample ID: 4061 Elms  
Description: WSSN: 6505

Date Collected: 09/16/2021 09:40  
Date Received: 09/16/2021 14:18

Matrix: Drinking Water, Potable (D)  
Collector: Rebecca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	69		mg/L	1.0		1			09/23/2021 15:56	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			09/23/2021 15:56	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			09/23/2021 15:56	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	09/21/2021 11:07	RTS
Sulfate	25		mg/L	5.0		1		250	09/21/2021 11:07	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.28		NTU	0.05		1		1	09/17/2021 15:35	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	60		mg/L	10		1			09/23/2021 13:12	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.73		mg/L	0.025		1			09/17/2021 08:52	CTJ
Metals by EPA 200.7										
Aluminum, Total	0.39	*	mg/L	0.010		1		0.20	09/23/2021 15:56	JPG
Metals by EPA 200.8										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	09/24/2021 14:12	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	09/24/2021 14:12	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	09/24/2021 14:12	DTM

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# ANALYTICAL RESULTS

Lab ID: 3726530003 Date Collected: 09/16/2021 10:10 Matrix: Drinking Water, Potable (D)  
Sample ID: 8083 Civic Date Received: 09/16/2021 14:18 Collector: Rebecca B.  
Description: WSSN: 6505

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	71		mg/L	1.0		1			09/23/2021 16:00	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			09/23/2021 16:00	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			09/23/2021 16:00	JPG
Individual Parameters by EPA 300.0										
Chloride	12		mg/L	5.0		1		250	09/21/2021 11:26	RTS
Sulfate	25		mg/L	5.0		1		250	09/21/2021 11:26	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.08		NTU	0.05		1		1	09/17/2021 15:35	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	70		mg/L	10		1			09/23/2021 13:12	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.62		mg/L	0.025		1			09/17/2021 08:52	CTJ
Metals by EPA 200.7										
Aluminum, Total	0.12		mg/L	0.010		1		0.20	09/23/2021 16:00	JPG
Metals by EPA 200.8										
Copper, Total	0.0064		mg/L	0.0010		1		1.30	09/24/2021 14:12	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	09/24/2021 14:12	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	09/24/2021 14:12	DTM

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12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

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Wednesday, October 20, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 373201

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

---

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## GLOSSARY

Abbreviation	Meaning	Explanation
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Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3732010001	5121 Morrish	WSSN: 6505	D	10/07/2021 09:00	10/07/2021 15:18	Rebecca
3732010002	8083 Civic	WSSN: 6505	D	10/07/2021 09:30	10/07/2021 15:18	Rebecca
3732010003	4061 Elms	WSSN: 6505	D	10/07/2021 10:00	10/07/2021 15:18	Rebecca

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

---

#### General Comments:

Samples were received on natural ice with an average temperature of 3.3°C on October 7, 2021.

### Analysis Results Narrative

---

3732010003 - 4061 Elms - Aluminum, Total  
H|Result (or RL) is above Max limit.

---

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# ANALYTICAL RESULTS

Lab ID: 3732010001	Date Collected: 10/07/2021 09:00	Matrix: Drinking Water, Potable (D)
Sample ID: 5121 Morrish	Date Received: 10/07/2021 15:18	Collector: Rebecca Rosas
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	72		mg/L	1.0		1			10/19/2021 12:19	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			10/19/2021 12:19	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			10/19/2021 12:19	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	10/12/2021 10:47	RTS
Sulfate	25		mg/L	5.0		1		250	10/12/2021 10:47	RTS
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.08		NTU	0.05		1		1	10/08/2021 15:50	RTS
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	80		mg/L	10		1			10/11/2021 14:06	CTJ
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.67		mg/L	0.025		1			10/08/2021 09:43	CTJ
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.094		mg/L	0.010		1		0.20	10/19/2021 12:19	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0025		mg/L	0.0010		1		1.30	10/13/2021 12:30	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	10/13/2021 12:30	RTS
Zinc, Total	<0.0040		mg/L	0.0040		1		5	10/13/2021 12:30	RTS

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## ANALYTICAL RESULTS

Lab ID: 3732010002	Date Collected: 10/07/2021 09:30	Matrix: Drinking Water, Potable (D)
Sample ID: 8083 Civic	Date Received: 10/07/2021 15:18	Collector: Rebecca Rosas
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO3	70		mg/L	1.0		1			10/19/2021 12:37	JPG
Hardness, Magnesium as CaCO3	31		mg/L	1.0		1			10/19/2021 12:37	JPG
Hardness, Total as CaCO3	100		mg/L	1.0		1			10/19/2021 12:37	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	10/12/2021 11:06	RTS
Sulfate	25		mg/L	5.0		1		250	10/12/2021 11:06	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.05		NTU	0.05		1		1	10/08/2021 15:50	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO3	70		mg/L	10		1			10/11/2021 14:06	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.65		mg/L	0.025		1			10/08/2021 09:43	CTJ
Metals by EPA 200.7										
Aluminum, Total	0.096		mg/L	0.010		1		0.20	10/19/2021 12:37	JPG
Metals by EPA 200.8										
Copper, Total	0.0053		mg/L	0.0010		1		1.30	10/13/2021 12:30	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	10/13/2021 12:30	RTS
Zinc, Total	<0.0040		mg/L	0.0040		1		5	10/13/2021 12:30	RTS

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# ANALYTICAL RESULTS

Lab ID: 3732010003	Date Collected: 10/07/2021 10:00	Matrix: Drinking Water, Potable (D)
Sample ID: 4061 Elms	Date Received: 10/07/2021 15:18	Collector: Rebecca Rosas
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO3	69		mg/L	1.0		1			10/19/2021 12:40	JPG
Hardness, Magnesium as CaCO3	31		mg/L	1.0		1			10/19/2021 12:40	JPG
Hardness, Total as CaCO3	99		mg/L	1.0		1			10/19/2021 12:40	JPG
Individual Parameters by EPA 300.0										
Chloride	11		mg/L	5.0		1		250	10/12/2021 11:24	RTS
Sulfate	25		mg/L	5.0		1		250	10/12/2021 11:24	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.07		NTU	0.05		1		1	10/08/2021 15:50	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO3	70		mg/L	10		1			10/11/2021 14:06	CTJ
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.65		mg/L	0.025		1			10/08/2021 09:43	CTJ
Metals by EPA 200.7										
Aluminum, Total	0.24	*	mg/L	0.010		1		0.20	10/19/2021 12:40	JPG
Metals by EPA 200.8										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	10/13/2021 12:30	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	10/13/2021 12:30	RTS
Zinc, Total	<0.0040		mg/L	0.0040		1		5	10/13/2021 12:30	RTS

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WQP

BECLA

	FREE	TOTAL	PH	TEMP
5121 MORRISH	.4	.4	7.2	54°F
8083 CIVIC	.5	.6	7.2	54°F
4001 ELMS	.7	.8	7.3	57°F

Wednesday, December 15, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 374541

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,



Elizabeth Pangborn  
Account Coordination Team Leader

## GLOSSARY

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Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
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<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3745410001	5121 Morrish	WSSN: 6505	D	12/09/2021 09:00	12/09/2021 13:55	B. Becca
3745410002	8083 Civic	WSSN: 6505	D	12/09/2021 09:30	12/09/2021 13:55	B. Becca
3745410003	4061 Elms	WSSN: 6505	D	12/09/2021 10:00	12/09/2021 13:55	B. Becca

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WORKORDER SUMMARY

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Accreditations

---

Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

Workorder Narrative

---

General Comments:

Samples were received on natural ice with an average temperature of 1.7°C on December 9, 2021.

# ANALYTICAL RESULTS

Lab ID: 3745410001  
Sample ID: 5121 Morrish  
Description: WSSN: 6505

Date Collected: 12/09/2021 09:00  
Date Received: 12/09/2021 13:55

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	75		mg/L	1.0		1			12/10/2021 18:27	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	30		mg/L	1.0		1			12/10/2021 18:27	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			12/10/2021 18:27	JPG
Individual Parameters by EPA 300.0										
Chloride	9.8		mg/L	5.0		1		250	12/10/2021 12:49	RTS
Sulfate	29		mg/L	5.0		1		250	12/10/2021 12:49	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.16		NTU	0.05		1		1	12/10/2021 13:00	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	90		mg/L	10		1			12/10/2021 09:53	LDP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.64		mg/L	0.025		1			12/09/2021 15:29	CTJ
Metals by EPA 200.7										
Aluminum, Total	0.076		mg/L	0.010		1		0.20	12/10/2021 18:27	JPG
Metals by EPA 200.8										
Copper, Total	0.0016		mg/L	0.0010		1		1.30	12/13/2021 14:45	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	12/13/2021 14:45	RTS
Zinc, Total	<0.0040		mg/L	0.0040		1		5	12/13/2021 14:45	RTS

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# ANALYTICAL RESULTS

Lab ID: 3745410002  
Sample ID: 8083 Civic  
Description: WSSN: 6505

Date Collected: 12/09/2021 09:30  
Date Received: 12/09/2021 13:55

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Calculated Parameters by SM 2340 B										
Hardness, Calcium as CaCO <sub>3</sub>	70		mg/L	1.0		1			12/10/2021 18:30	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	32		mg/L	1.0		1			12/10/2021 18:30	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			12/10/2021 18:30	JPG
Individual Parameters by EPA 300.0										
Chloride	9.8		mg/L	5.0		1		250	12/10/2021 13:45	RTS
Sulfate	29		mg/L	5.0		1		250	12/10/2021 13:45	RTS
Individual Parameters by SM 2130 B										
Turbidity	0.25		NTU	0.05		1		1	12/10/2021 13:00	RTS
Individual Parameters by SM 2320 B										
Alkalinity, Total as CaCO <sub>3</sub>	90		mg/L	10		1			12/10/2021 09:53	LDP
Individual Parameters by SM 4500-P E										
Orthophosphate, as P	0.64		mg/L	0.025		1			12/09/2021 15:29	CTJ
Metals by EPA 200.7										
Aluminum, Total	0.058		mg/L	0.010		1		0.20	12/10/2021 18:30	JPG
Metals by EPA 200.8										
Copper, Total	0.016		mg/L	0.0010		1		1.30	12/13/2021 14:45	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	12/13/2021 14:45	RTS
Zinc, Total	<0.0040		mg/L	0.0040		1		5	12/13/2021 14:45	RTS

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# ANALYTICAL RESULTS

Lab ID: 3745410003  
Sample ID: 4061 Elms  
Description: WSSN: 6505

Date Collected: 12/09/2021 10:00  
Date Received: 12/09/2021 13:55

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	69		mg/L	1.0		1			12/10/2021 18:34	JPG
Hardness, Magnesium as CaCO <sub>3</sub>	32		mg/L	1.0		1			12/10/2021 18:34	JPG
Hardness, Total as CaCO <sub>3</sub>	100		mg/L	1.0		1			12/10/2021 18:34	JPG
<b>Individual Parameters by EPA 300.0</b>										
Chloride	9.9		mg/L	5.0		1		250	12/10/2021 14:03	RTS
Sulfate	29		mg/L	5.0		1		250	12/10/2021 14:03	RTS
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.19		NTU	0.05		1		1	12/10/2021 13:00	RTS
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	90		mg/L	10		1			12/10/2021 09:53	LDP
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.71		mg/L	0.025		1			12/09/2021 15:29	CTJ
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.16		mg/L	0.010		1		0.20	12/10/2021 18:34	JPG
<b>Metals by EPA 200.8</b>										
Copper, Total	<0.0010		mg/L	0.0010		1		1.30	12/13/2021 14:45	RTS
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	12/13/2021 14:45	RTS
Zinc, Total	<0.0040		mg/L	0.0040		1		5	12/13/2021 14:45	RTS

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11/4/2021

WQPs

	FREE	TOTAL	PH	TEMP
5121 MORRISH	.5	.5	7.8	51.9°F
8083 CIVIC	.5	.5	7.89	61°F
4001 ELMS	.6	.6	7.4	62°F



12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

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Monday, November 29, 2021

Rob Bincsik  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 373859

Rob Bincsik,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5619.

Sincerely,

Elizabeth Pangborn  
Account Coordination Team Leader

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## GLOSSARY

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Abbreviation	Meaning	Explanation
ID	Identification	Preceeded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceeded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3738590001	8230 Crapo	WSSN: 6505	D	11/04/2021 11:30	11/05/2021 07:12	B. Becca
3738590002	3259 Elms	WSSN: 6505	D	11/04/2021 11:55	11/05/2021 07:12	B. Becca

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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#### General Comments:

Samples were received ambient with an average temperature of 10.1°C on November 5, 2021.

All VOA vials contained zero head-space.

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# ANALYTICAL RESULTS

Lab ID: 3738590001	Date Collected: 11/04/2021 11:30	Matrix: Drinking Water, Potable (D)
Sample ID: 8230 Crapo	Date Received: 11/05/2021 07:12	Collector: Becca B.
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Haloacetic Acids (HAAs) by EPA 552.3</b>										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			11/19/2021 21:49	GFM
Chloroacetic acid (MCAA)	<2.0		µg/L	2.0	0.30	1			11/19/2021 21:49	GFM
Dibromoacetic acid (DBAA)	<1.0		µg/L	1.0	0.39	1			11/19/2021 21:49	GFM
Dichloroacetic acid (DCAA)	7.0		µg/L	1.0	0.20	1			11/19/2021 21:49	GFM
Trichloroacetic acid (TCAA)	12		µg/L	1.0	0.12	1			11/19/2021 21:49	GFM
Haloacetic Acids, Total (HAA5)	19		µg/L	1.0		1		60	11/19/2021 21:49	GFM
<b>Sample Preparation by EPA 552.3</b>										
Liquid-Liquid Extraction, HAAs	Complete					1			11/18/2021 08:30	BMB
<b>Volatiles by EPA 524.2</b>										
Bromodichloromethane	8.4		µg/L	0.50		1			11/12/2021 10:48	DTM
Bromoform	<0.50		µg/L	0.50		1			11/12/2021 10:48	DTM
Chloroform	23		µg/L	0.50		1			11/12/2021 10:48	DTM
Dibromochloromethane	3.2		µg/L	0.50		1			11/12/2021 10:48	DTM
Trihalomethanes, Total (TTHM)	35		µg/L	0.50		1		80	11/12/2021 10:48	DTM

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# ANALYTICAL RESULTS

Lab ID: 3738590002  
Sample ID: 3259 Elms  
Description: WSSN: 6505

Date Collected: 11/04/2021 11:55  
Date Received: 11/05/2021 07:12

Matrix: Drinking Water, Potable (D)  
Collector: Becca B.

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Haloacetic Acids (HAAs) by EPA 552.3</b>										
Bromoacetic acid (MBAA)	<1.0		µg/L	1.0	0.36	1			11/19/2021 22:30	GFM
Chloroacetic acid (MCAA)	<2.0		µg/L	2.0	0.30	1			11/19/2021 22:30	GFM
Dibromoacetic acid (DBAA)	<1.0		µg/L	1.0	0.39	1			11/19/2021 22:30	GFM
Dichloroacetic acid (DCAA)	9.8		µg/L	1.0	0.20	1			11/19/2021 22:30	GFM
Trichloroacetic acid (TCAA)	11		µg/L	1.0	0.12	1			11/19/2021 22:30	GFM
Haloacetic Acids, Total (HAA5)	21		µg/L	1.0		1		60	11/19/2021 22:30	GFM
<b>Sample Preparation by EPA 552.3</b>										
Liquid-Liquid Extraction, HAAs	Complete					1			11/18/2021 08:30	BMB
<b>Volatiles by EPA 524.2</b>										
Bromodichloromethane	7.0		µg/L	0.50		1			11/12/2021 11:17	DTM
Bromoform	<0.50		µg/L	0.50		1			11/12/2021 11:17	DTM
Chloroform	18		µg/L	0.50		1			11/12/2021 11:17	DTM
Dibromochloromethane	2.6		µg/L	0.50		1			11/12/2021 11:17	DTM
Trihalomethanes, Total (TTHM)	28		µg/L	0.50		1		80	11/12/2021 11:17	DTM

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## Water Quality Parameters

	Temp	pH	Free	TOTAL	Time	Date
5121 Marsh	10.2	7.8	.2	.2	8:35am	3-11-21
8083 Civic	14.5	7.5	.3	.4	8:50am	3-11-21
4061 Elms	14	7.5	.3	.3	9:15AM	3-11-21



Paragon

4/8/21

## Water Quality Parameters

	Temp	pH	Free	TOTAL	Time	Date
5121 Morrish	10.6	8.1	.2	.2	8:45am	4/8/21
4061 Elms	12.3	8.0	.2	.3	9:00am	4-8-21
8083 Civic	12.1	7.8	.3	.3	9:25am	4-8-21



12649 Richfield Ct.  
Livonia, MI 48150  
P:734.462.3900  
paragonlaboratories.com

Friday, April 30, 2021

Andy Harris  
Swartz Creek WDS  
8083 Civic Drive  
Swartz Creek, MI 48473

Workorder: 368574  
Project Name: City of Swartz Creek

Andy Harris,  
Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734.469.5622.

Sincerely,

Breanna Bell  
Account Coordinator

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## GLOSSARY

Abbreviation	Meaning	Explanation
ID	Identification	Preceded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.

## SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
3685740001	5121 Morrish	WSSN: 6505	D	04/08/2021 00:00	04/08/2021 12:01	Sandford
3685740002	4061 Elms	WSSN: 6505	D	04/08/2021 00:00	04/08/2021 12:01	Sandford
3685740003	8083 Civic	WSSN: 6505	D	04/08/2021 00:00	04/08/2021 12:01	Sandford

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## WORKORDER SUMMARY

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### Accreditations

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Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 2/25/2023)

### Workorder Narrative

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#### General Comments:

Samples were received on natural ice with an average temperature of 4.5°C on April 8, 2021.

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## ANALYTICAL RESULTS

Lab ID: 3685740001	Date Collected: 04/08/2021 00:00	Matrix: Drinking Water, Potable (D)
Sample ID: 5121 Morrish	Date Received: 04/08/2021 12:01	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	86		mg/L	1.0		1			04/29/2021 15:10	RLC
Hardness, Magnesium as CaCO <sub>3</sub>	31		mg/L	1.0		1			04/29/2021 15:10	RLC
Hardness, Total as CaCO <sub>3</sub>	120		mg/L	1.0		1			04/29/2021 15:10	RLC
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	04/09/2021 11:09	DTM
Sulfate	27		mg/L	5.0		1		250	04/09/2021 11:09	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.13		NTU	0.05		1		1	04/09/2021 15:10	TSD
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	100		mg/L	10		1			04/12/2021 18:10	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.72		mg/L	0.025		1			04/08/2021 15:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.094		mg/L	0.010		1		0.20	04/29/2021 15:10	RLC
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0020		mg/L	0.0010		1		1.30	04/09/2021 10:32	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	04/09/2021 10:32	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	04/09/2021 10:32	DTM

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# ANALYTICAL RESULTS

Lab ID: 3685740002	Date Collected: 04/08/2021 00:00	Matrix: Drinking Water, Potable (D)
Sample ID: 4061 Elms	Date Received: 04/08/2021 12:01	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	73		mg/L	1.0		1			04/29/2021 15:10	RLC
Hardness, Magnesium as CaCO <sub>3</sub>	33		mg/L	1.0		1			04/29/2021 15:10	RLC
Hardness, Total as CaCO <sub>3</sub>	110		mg/L	1.0		1			04/29/2021 15:10	RLC
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	04/09/2021 12:04	DTM
Sulfate	27		mg/L	5.0		1		250	04/09/2021 12:04	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.23		NTU	0.05		1		1	04/09/2021 15:10	TSD
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	100		mg/L	10		1			04/12/2021 18:10	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.71		mg/L	0.025		1			04/08/2021 15:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.025		mg/L	0.010		1		0.20	04/29/2021 15:10	RLC
<b>Metals by EPA 200.8</b>										
Copper, Total	0.0046		mg/L	0.0010		1		1.30	04/09/2021 10:32	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	04/09/2021 10:32	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	04/09/2021 10:32	DTM

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## ANALYTICAL RESULTS

Lab ID: 3685740003	Date Collected: 04/08/2021 00:00	Matrix: Drinking Water, Potable (D)
Sample ID: 8083 Civic	Date Received: 04/08/2021 12:01	Collector: Jay Sandford
Description: WSSN: 6505		

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
<b>Calculated Parameters by SM 2340 B</b>										
Hardness, Calcium as CaCO <sub>3</sub>	72		mg/L	1.0		1			04/29/2021 15:10	RLC
Hardness, Magnesium as CaCO <sub>3</sub>	33		mg/L	1.0		1			04/29/2021 15:10	RLC
Hardness, Total as CaCO <sub>3</sub>	110		mg/L	1.0		1			04/29/2021 15:10	RLC
<b>Individual Parameters by EPA 300.0</b>										
Chloride	11		mg/L	5.0		1		250	04/09/2021 12:22	DTM
Sulfate	27		mg/L	5.0		1		250	04/09/2021 12:22	DTM
<b>Individual Parameters by SM 2130 B</b>										
Turbidity	0.22		NTU	0.05		1		1	04/09/2021 15:10	TSD
<b>Individual Parameters by SM 2320 B</b>										
Alkalinity, Total as CaCO <sub>3</sub>	100		mg/L	10		1			04/12/2021 18:10	RLC
<b>Individual Parameters by SM 4500-P E</b>										
Orthophosphate, as P	0.72		mg/L	0.025		1			04/08/2021 15:00	RLC
<b>Metals by EPA 200.7</b>										
Aluminum, Total	0.084		mg/L	0.010		1		0.20	04/29/2021 15:10	RLC
<b>Metals by EPA 200.8</b>										
Copper, Total	0.027		mg/L	0.0010		1		1.30	04/09/2021 10:32	DTM
Lead, Total	<0.0010		mg/L	0.0010		1		0.0150	04/09/2021 10:32	DTM
Zinc, Total	<0.0040		mg/L	0.0040		1		5	04/09/2021 10:32	DTM

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CITY OF SWARTZ CREEK  
8083 CIVIC DR.  
SWARTZ CREEK, MI 48473  
(810) 635-4464

Work Order Type: WATER MAIN BREAK  
Status: Scheduled  
Date Filed: 04/29/2021 09:05  
Scheduled By: JKEY

Scheduled Date: 04/29/21

Scheduled Time: 12:00 AM

Assigned To: HARRIS, ANDY

Filer Information

GENERAL MOTORS  
PO BOX 319022  
CHICAGO IL 60631-9022  
0000000000

Work Order #: WMBK21-0114  
Location ID: DY10-003406-0000-01  
Account #: 0001272400  
Route/Book: CO  
Service Address:

3406 DYE RD

SWARTZ CREEK MI 48473

Customer Information

GENERAL MOTORS  
PO BOX 319022  
CHICAGO, IL 60631-9022  
0000000000

Work Description:

WE HAVE ANOTHER BREAK THIS MORNING AT THE GM DRIVE ON DYE ROAD.  
WAS CALLED AROUND 12:30 AND CONTRACTOR IS CURRENTLY WORKING ON IT.

Result Description

Average Usage 431.00

Service/Meter 1

Previous Read: 35800 Date: 06/01/09

Line Type:

Meter Type: NEPTUNE

Size: 5/8 X 3/4 R900

Meter Serial #: 32591428

Auto ID: 1460231834

Location: 01272400  
RADIO 4 WHEEL

New Meter:

Meter/Reader Serial

Digits:

Multiplier:

Hi # Low #

Old Read: Starting Read:

Completed By: Date

9-13-21

MIDDLE SCHOOL 8230 CRAPO
HIGH SCHOOL 1 DRAGON DR
SYRING SCHOOL 5300 OAKVIEW
3462 DYE ROAD MTA

TOTAL	FREE
0.3	0.3
0.3	0.3
0.4	0.4

Roxanne  
732-0079

9-28-21

MIDDLE SCHOOL
HIGH SCHOOL
SYRING SCHOOL
<del>3462 DYE ROAD MTA</del>

TOTAL	FREE
0.3	0.3
0.3	0.3
0.5	0.5

Official Laboratory Report

Report To: ROBERT BINCSIK  
8083 CIVIL DRIVE  
SWARTZ CREEK MI 48473

**Sample ID: LJ77914**  
**Work Order: 10901510\_01**

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	8230 CRAPO STREET, SWARTZ CREEK	Source:	TYPE III
Collected By:	REBECCA BOSAS	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	09/13/2021 10:45
Sample Point:	KITCHEN SINK	Date Received:	09/14/2021 07:55
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			09/14/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

**Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.**

**Genesee County Health Dept.  
630 South Saginaw  
Flint, MI 48502-1540  
810 257-3603**



MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY  
DRINKING WATER LABORATORY  
USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-8184  
FAX: (517) 335-8562

Official Laboratory Report

Report To: ROBERT BINCSIK  
8083 CIVIL DRIVE  
SWARTZ CREEK MI 48473

Sample ID: LJ77916  
Work Order: 10901510\_03

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	1 DRAGON DRIVE, SWARTZ CREEK	Source:	TYPE III
Collected By:	REBECCA BOSAS	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	09/13/2021 11:15
Sample Point:	KITCHEN SINK	Date Received:	09/14/2021 07:55
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			09/14/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane



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Official Laboratory Report

Report To: ROBERT BINCSIK  
8083 CIVIL DRIVE  
SWARTZ CREEK MI 48473

Sample ID: LJ77915  
Work Order: 10901510\_02

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	5300 OAKVIEW, SWARTZ CREEK	Source:	TYPE III
Collected By:	REBECCA BOSAS	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	09/13/2021 11:50
Sample Point:	KITCHEN SINK	Date Received:	09/14/2021 07:55
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			09/14/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results: Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
E.C Positive = Coliform and E. Coli bacteria were found

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RL: Reporting Limit	mg/L: milligrams / Liter (ppm)	CFU: Colony Forming Unit
MCL: Maximum Contaminant Level	ng/L: nanograms / Liter (ppt)	CAS: Chemical Abstract Service
AL: Action Level	MPN: Most Probable Number	Laboratory Contact: Marlene Kane
Not Detected: Not detected at or above the reporting limit (RL)		

Official Laboratory Report

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ81461  
Work Order: 10903767\_01

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK HIGH SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	09/28/2021 09:36
Sample Point:	KITCHEN SINK	Date Received:	09/29/2021 07:42
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #

Coliform Organisms per 100 mL	Not Detected			09/29/2021	SM 9223 B	TC-00-B
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Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

EC Positive = Coliform and E. Coli bacteria were found

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810 257-3603

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MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane



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Official Laboratory Report

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ81462  
Work Order: 10903767\_02

System Name/Owner:	GENESEE COUNTY WATER SYSTEMS	WSSN/Pool ID:	6505
Collection Address:	SWARTZ CREEK MIDDLE SCHOOL, SWARTZ CREEK	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	09/28/2021 09:23
Sample Point:	KITCHEN SINK	Date Received:	09/29/2021 07:42
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			09/29/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found  
Positive = Total Coliform was found and E. coli bacteria was not found  
EC Positive = Coliform and E. Coli bacteria were found

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MCL: Maximum Contaminant Level  
AL: Action Level  
Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)  
ng/L: nanograms / Liter (ppt)  
MPN: Most Probable Number

CFU: Colony Forming Unit  
CAS: Chemical Abstract Service  
Laboratory Contact: Marlene Kane

Official Laboratory Report

Report To: ROB BENCSIK  
8083 CIVIC DR  
SWARTZ CREEK MI 48473

Sample ID: LJ81463  
Work Order: 10903767\_03

System Name/Owner:	GENESEE COUNTY WATER SYSTEM	WSSN/Pool ID:	6505
Collection Address:	SYRING ELEMENTARY SCHOOL, SWARTZ	Source:	TYPE III
Collected By:	ROD	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	09/28/2021 09:55
Sample Point:	KITCHEN SINK	Date Received:	09/29/2021 07:42
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS #
Coliform Organisms per 100 mL	Not Detected			09/29/2021		SM 9223 B	TC-00-B

Explanation of Coliform Results:

Not Detected = Coliform and E. coli bacteria were not found

Positive = Total Coliform was found and E. coli bacteria was not found

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CFU: Colony Forming Unit  
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Laboratory Contact: Marlene Kane