2024 Annual Water System Report



Jeff Hume, Utility Foreman City of Dauphin February 7th, 2025 jeffh@dauphin.ca

Water System Information

name o	n Public Water System: Dauphin Public Water Sy	stem
Name o	f the Legal Owner: City of Dauphin	
	Contact Person: Jeff Hume, Utility Foreman	
	Phone: 204.648-4133	
	Email: jeffh@dauphin.ca	
	Website: www.dauphin.ca	
	Emergency Phone Number: 204.622-3202	
Names	of Water Treatment Plant Operators:	
	Jeff Hume	
	Oblin N. Sofan	
	Chad McCrady	
	Jason Lobert	
	Curtis Smith	
	Marty Chartrand	
	Ronald Johnson	
Water T	reatment Plant Phone Number: 204.622.3287	
Date Co	ompleted: March 30th, 2023.	
		Jeff Hume
		Utility Foreman, City of Dauphin

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Introduction

The 2024 Annual Report for the City of Dauphin summarized the Water Utility's ability to produce safe potable water and meet the requirements of all provincial regulations.

Description of Water System

The City of Dauphin Public Water System (PWS) provides potable drinking water to a population of 8368 residents (2021 Census). Dauphins PWS also supplies potable water to a private water system in the RM of Dauphin; Eclipse Water Coop. Treated water produced from the water treatment plant meets all health and aesthetic objectives as stated in the *Guidelines for Canadian Drinking Water Quality*.

Water Supply Source

The City of Dauphin (City) obtains surface water from Edwards Creek. The intake structure is located just south of the southern tip of the Lower Reservoir. The city can draw water from Edwards Lake inside Riding Mountain National Park when required depending on the available supply naturally occurring in Edwards Creek. Vermillion Reservoir Dam is operated by Manitoba Water Stewardship and is also used when needed. The intake structure is located approximately 6.5 km from the water treatment plant (WTP) site. Raw water is drawn from two 45m cast iron pipes 400mm in diameter. The opening is screened by a stainless-steel mesh. The water is then pumped from the reservoir via the Vermillion Raw Water Pumping Station to the Lower Reservoir located at the WTP site via 300 mm diameter pipe. It is then pumped into the WTP via the Low lift Pumping Station via 300 mm diameter pipe. The pumping station consists of two alternating 50 hp pumps.

Water Treatment Process

Raw water is stored at the WTP in what is referred to as the Lower Reservoir. Raw water is pumped from the Lower Reservoir via the Low Lift Pumping Station and enters the facility on the north side of the building and is split to feed the two process trains. Treated water is stored in two reservoirs: the WTP Reservoir and the Brown Avenue Reservoir and distributed to the consumers via water mains. A Pressure Reducing Station located along Hwy #10 aids in the transfer of the treated water to the City of Dauphin (City) distribution system.

The existing treatment process consists of the following:

- Flash Mixing/Flocculation/Sedimentation, using aluminum sulphate (alum), caustic soda (seasonal) and polymer.
- Ozonation, for disinfection, oxidation, and taste & odor.
- Filtration, polishing step using sand and anthracite rapid gravity filters.
- Ultraviolet Disinfection is used as a secondary disinfection.
- Chlorination with contact time for primary disinfection.
- Fluoridation, using hydrofluosilic acid (HFSA) for consumers' dental health.
- Ortho Phosphates are added as the water enters the distribution system to assist with the stabilization of Lead in some older homes tap water.

These processes are designed to clarify the water and remove microbial contaminants, such as bacteria, and organic materials that are naturally found in surface waters.

Distribution System

The existing water distribution network is made up of pipes of various ages, size and material. The distribution network is made up of pipe ranging from 100 mm to 300 mm diameter, with most of the pipe being 150 mm in diameter. The system is gravity fed.

The city has a proactive plan to renew as many water lines each year as possible to maintain an efficient water system. This proves difficult both financially and with our short construction season. Our water loss for 2024 was 31%.

Storage Reservoirs

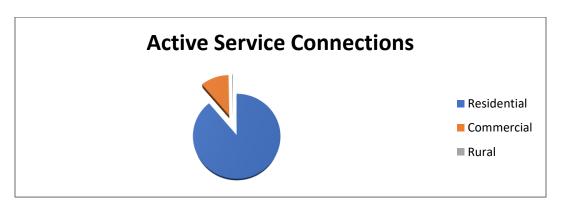
The water storage system incorporates one (1) raw water and two (2) treated water reservoirs. The table below summarizes their capacities.

Capacity	of Res	ervoirs
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	Imperial Units	Metric Units	Voor Constructed
	(Imp. Gallons)	(ML)	Year Constructed
Edwards Reservoir (Raw)	11,300,000	51.4	
WTP (Treated)	792,000	3.6	1999 & 2001
Brown Avenue (Treated)	1,000,000	4.54	1981

Number of Connections, Population Served and Types of Water Users

The Dauphin distribution system is comprised of 3337 active service connections servicing a population of 8368 residents (2021 Census). All service connections are metered with 88.8% being residential services, 10.8% being commercial services and 0.4% being rural services.



Classification and Certification

The water system facility classifications for the year 2024:

Class 4 Water Treatment Facility Classification

Class 2 Water Distribution Facility Classification

The water system staff and certification levels for the 2024 year:

Staff Member	Water Treatment	Water Distribution
Jeffrey J. Hume, C. TECH	Class IV	Class III
Jeff J. Weselowski		Class II
Oblin N. Sofan, C. TECH	Class IV	Class II
Chad McCready	Class III	Class II
Jason Lobert	Class III	Class II
Curtis Smith	Class I	Class II
Marty Chartrand	Class I	Class I
Ronald Johnson	Class I	Class I

Primary Disinfection System in Use

One of our final steps in the treatment of safe water is disinfection. Disinfection is the selective destruction or inactivation of potential disease-causing organisms in water. As per the Drinking Water Safety Act the Dauphin PWS is required to ensure a disinfectant residual of at least:

- 0.5 mg/L of Free Chlorine entering the distribution system following a minimum contact time of 30 minutes.
- 0.1 mg/L of Free available Chlorine always at any point in the water distribution system

Primary disinfection of the filtered water is accomplished using chlorine gas. Chlorine is added to the treated water to produce Free Chlorine. Chlorine gas is added to the water using a Wallace and Tiernan V-Notch gas feeder system. Sodium Hypochlorite can also be added at Brown Avenue Reservoir using a diaphragm pump when required to assist in maintaining a safe level of chlorine in the drinking water.

Chlorine gas is stored in a separate room in 68 kg cylinders. Two banks of two cylinders each are always connected to the chlorine feed system and an automatic transfer system is in place.

Each of the two banks of cylinders can supply the full amount of chlorine required for disinfection at peak demand. Parts and maintenance kits for all chlorination equipment are always kept at the WTP.

Secondary Disinfection in use

In 2022 the city invested in an Ultraviolet treatment system for additional protection. An addition was added to the existing Water Treatment Facility that houses 2 Trojan UV Swift 24 reactors. Each can treat water at the maximum flow rate for the current Water Treatment Plant, thus giving additional redundancy. The reactors were placed online in December of 2022 and have been in service ever since. A minimum dose of 13 mJ/cm2 is always required, in 2024 the average dose was 50.5 mJ/cm2.

A critical spare parts inventory is always kept up to date and onsite.

Disinfectant Residual Overall Performance/Results

For 2024, the Dauphin PWS has met all regulatory requirements regarding monitoring and reporting disinfection residuals in the water leaving the water treatment plant as well as in the distribution system.

List of Water Quality Standards

The Province of Manitoba has adopted several water quality standards from the *Guidelines for Canadian Drinking Water Quality*, developed by Health Canada. The parameters are health-based, and they express the maximum acceptable concentration for a surface water supply source. Concentration values in excess constitute a health-related issue and require corrective actions.

Water Quality Standards		Percent Compliance	Corrective Action Forms
Bacterial			
E. coli	Less than one E. coli bacteria detectable per 100mL in all treated water	100%	N/A
Total coliform	Less than one total coliform bacteria detectable per 100mL in all treated water	100%	N/A
E. coli	Less than one E. coli bacteria detectable per 100mL in all distributed water	100%	N/A
Total coliform	Less than one total coliform bacteria detectable per 100mL in all distributed water	100%	N/A
Water Quality Standards		Percent Compliance	Corrective Action Forms
Disinfection			
	A free chlorine residual of at least 0.5 mg/L in water entering the distribution system following a minimum contact time of 30 minutes	100%	N/A
Chlorine residual	A free chlorine residual of at least 0.1 mg/L at all times at any point in the water distribution system, when free chlorine disinfection is being practiced	100%	N/A
	A monochloramine residual of at least 0.3 mg/L at all times at any point in the water distribution system, when monochloramine disinfection is being practiced	100%	N/A
Physical			
Turbidity	Less than or equal to 0.3 NTU in 95% of the measurements in a month of the effluent from each operating particulate filter.	100%	N/A
lurbidity	Not exceed 0.3 NTU for more than 12 consecutive hours of filter operation	100%	N/A
	Not exceed 1.0 NTU for any continuous measurement	100%	N/A

Chemical		
Total trihalomethanes (to include: bromodichloromethane, bromoform, chloroform, dibromochloromethane)	Less than or equal to 0.10 mg/L as annual average of quarterly samples	0.05
Manganese	Less than 0.02 mg/L	0.009
Sodium	Less than 200 mg/L	19.9
Total Dissolved Solids	Less Than 500 mg/L	304
Sulfate	Less than or equal to 500 mg/L	108
Aluminum	Less than or equal to 0.100 mg/L	0.035
Lead	Less than or equal to 0.005 mg/L	0.00
Arsenic	Less than or equal to 0.01 mg/L	0.0003
Fluoride	Less than or equal to 0.9 mg/L	0.60
Nitrate	Less than or equal to 10 mg/L measured as nitrogen	0.018
Total Haloacetic Acids	Less than or equal to 0.08 mg/L as an annual average	0.02

Monitoring Requirements		Percent Compliance
Bacterial		
Total coliform and E. coli	Bi-weekly sampling program with each set of samples consisting of one raw, one treated, and a minimum of 4 distribution samples.	100%
	Consecutive sample sets must be separated by at least 12 days	100%
Disinfection		

Fuer ablantas	One sample per day at the treated water sampling location		
Free chlorine	established by the Drinking Water Officer		
(Treated water)	Continuous sampling of water entering the distribution system		
	following at least thirty minutes of contact time	100%	
Total chlorine	One sample per day of water entering the distribution system	100%	
(Treated water)	following at least thirty minutes of contact time	100%	
Total chlorine	At the same times and location(s) as bacteriological distribution	100%	
(distribution system)	system sampling	100%	
Monochloramine	At the same times and location(s) as bacteriological distribution	100%	
(distribution system)	system sampling when being practiced		
Physical		•	
	One raw water sample per day.	100%	
	Continuous sampling of the effluent from each operating particulate		
Turbidity	filter		
	A confirmatory sample to be taken daily at a location established by	100%	
	the Drinking Water Officer	100%	
Chemistry			
General chemistry			
(To include arsenic,		100%	
fluoride, nitrate, and	One raw and one treated water sample once each year		
Lead)			
Tuile all and a the angle of TUIN As V	"1" preserved distribution system samples taken on a quarterly basis	1000/	
Trihalomethanes (THMs)	during February May, August, and November, every year	100%	
Total Haloacetic Acid	"2" preserved distribution system samples taken on a quarterly basis		
		100%	

Reporting Requirements			
Disinfection	Submit original monthly disinfection report forms within seven days		
Distillection	after the end of each calendar month	100%	
Physical	Submit original monthly turbidity report forms within seven days	100%	
Filysical	after the end of each calendar month	100%	
	Submit original corrective action report for minor exceedance's as		
Corrective Actions	described in the most recent version of the Office of Drinking Water	100%	
Corrective Actions	"Operational Guidelines for Public and Semi-public Water Systems",		
	along with the monthly disinfection, or turbidity report form		
	Immediately notify the Office of Drinking Water of any condition		
	that may affect the ability of the water system to produce or deliver		
Emergency	safe drinking water including treatment upsets or bypass conditions,	NA	
	contamination of the source water or treated water, a filtration or		
	disinfection system failure, or a distribution system failure		

Water System Failures and Corrective Actions

In 2024, there were no water system failures or associated corrective actions required.

Additional Records Required

As part of Manitoba Health's fluoridation program, water samples are collected daily at the WTP and tested on site. Daily fluoride results are recorded, and a 14-day composite sample is submitted weekly for analysis. The Dauphin PWS strives to maintain a 0.70 mg/L fluoride level. The operating range for fluoride, as identified by Manitoba Health, is 0.50-0.90 mg/L. In 2024, fluoride levels never exceeded the 0.90 mg/L recommended limit.

Drinking Water Safety Orders and Actions Taken in Response

In 2024, no Drinking Water Safety Orders were issued for the Dauphin Public Water System.

Boil Water Advisories and Actions Taken in Response

In 2024, no Boil Water Advisories or Action were Taken.

Warnings Issued or Charges Laid on the System in Accordance with the **Drinking Water Safety Act**

In 2024, no Warnings were issued for the Dauphin Public Water System.

Major Expenses Incurred

- A new control valve was installed at the Pressure Reducing Station
- 11th Avenue SW main line replaced Main Street Jackson Street
- Maple Avenue main line replaced

Future system Expansion and/or Increased Production

The City of Dauphin currently has no plans for future expansion in the water treatment or Distribution system. Utility funding will be used to upgrade the Wastewater Treatment Lagoon for the next few years.

Appendix A

Bacteriological Results

Date	Location	Sample Identification	TC	EC
01-02-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	36	0
01-02-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
01-02-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
01-02-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
01-02-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
01-02-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
01-16-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	70	0
01-16-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
01-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
01-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
01-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
01-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
01-30-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	59	0
01-30-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
01-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
01-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
01-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
01-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
02-13-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	94	0
02-13-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
02-13-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
02-13-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
02-13-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
02-13-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
02-28-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	27	0
02-28-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
02-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
02-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
02-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
02-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 – DISTRIBUTION @ PRV Station	0	0
03-05-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	43	0
03-05-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
03-05-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
03-05-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
03-05-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0

03-05-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
03-19-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	62	0
03-19-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
03-19-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
03-19-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
03-19-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
03-19-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
04-04-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	41	0
04-04-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
04-04-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
04-04-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
04-04-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
04-04-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
04-16-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	>200	0
04-16-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
04-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
04-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
04-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
04-16-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
04-30-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	118	0
04-30-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
04-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
04-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
04-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
04-30-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
05-14-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	144	0
05-14-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
05-14-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
05-14-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
05-14-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
05-14-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
05-28-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	>200	4
05-28-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
05-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
05-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
05-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
05-28-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0

06-11-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	201.4	4
06-11-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
06-11-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
06-11-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
06-11-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
06-11-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
06-25-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	2419	2
06-25-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
06-25-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
06-25-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
06-25-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
06-25-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
07-09-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	2419	13
07-09-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
07-09-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
07-09-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
07-09-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
07-09-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
07-23-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	2419	3
07-23-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
07-23-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
07-23-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
07-23-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
07-23-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
08-06-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	1011	1
08-06-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
08-06-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
08-06-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
08-06-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
08-06-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
08-20-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	1413	9
08-20-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
08-20-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
08-20-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
08-20-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
08-20-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0

09-03-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	461	2
09-03-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
09-03-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
09-03-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
09-03-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
09-03-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
09-17-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	1413	7
09-17-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
09-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
09-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
09-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
09-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
10-01-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	185	6.3
10-01-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
10-01-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
10-01-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
10-01-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
10-01-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
10-15-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	83.6	3
10-15-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
10-15-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
10-15-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
10-15-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
10-15-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
10-29-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	63.7	1
10-29-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
10-29-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
10-29-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
10-29-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
10-29-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
11-12-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	98.4	0
11-12-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
11-12-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
11-12-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
11-12-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
11-12-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0

11-26-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	91	0
11-26-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
11-26-24	DAUPHIN WATER PLANT	<u> </u>	0	0
		DAUPHIN 3 - DISTRIBUTION @ City Hall		
11-26-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
11-26-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
11-26-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
12-10-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	86	0
12-10-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
12-10-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
12-10-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
12-10-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
12-10-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0
12-17-24	DAUPHIN WATER PLANT	DAUPHIN 1 – RAW	46.5	1
12-17-24	DAUPHIN WATER PLANT	DAUPHIN 2 - TREATED @ WTP	0	0
12-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Hall	0	0
12-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ City Shop	0	0
12-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ Brown Avenue	0	0
12-17-24	DAUPHIN WATER PLANT	DAUPHIN 3 - DISTRIBUTION @ PRV Station	0	0

Appendix B

Residential Lead Testing

09-12-24 09-12-24	Dwelling	Sample Type	MG/L	MAC
00 12 24	Non-Lead Service	Random Day Time	0.001	0.005
09-12-24	Non-Lead Service	Random Day Time	0.000	0.005
09-12-24	Non-Lead Service	Random Day Time	0.000	0.005
09-12-24	Non-Lead Service	Random Day Time	0.000	0.005
07-30-24	Lead Service	Random Day Time	0.004	0.005
07-30-24	Non-Lead Service	Random Day Time	0.000	0.005
07-30-24	Non-Lead Service	Random Day Time	0.000	0.005
07-30-24	Non-Lead Service	Randon Day Time	0.001	0.005
07-30-24	Non-Lead Service	Randon Day Time	0.000	0.005
07-30-24	Lead Service	Random Day Time	0.022	0.005
07-31-24	Lead Service	Random Day Time	0.014	0.005
07-31-24	Non-Lead Service	Random Day Time	0.001	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-13-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service	Random Day Time	0.001	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Lead Service	Random Day Time	0.021	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service	Random Day Time	0.000	0.005
	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24				
	Non-Lead Service	Random Day Time	0.000	0.005
07-31-24	Non-Lead Service Non-Lead Service	Random Day Time Random Day Time	0.000	
07-31-24 07-31-24		•		0.005 0.005 0.005