



Protecting, maintaining and improving the health of all Minnesotans

March 5, 2021

Vergas City Council
c/o Ms. Julie Lammers, City Clerk

Dear Council Members:

SUBJECT: Sanitary Survey Report for Vergas Public Water System (PWS), Otter Tail County,
PWSID 1560029

Enclosed is a copy of the sanitary survey report summarizing an on-site inspection of your Community Public Water System. This report includes a review of the system's water source, facilities, equipment, operation, maintenance, and monitoring compliance for the purpose of evaluating the adequacy of the facilities for producing and distributing safe drinking water. Technical and management information regarding the operation of the system may also be provided. Conducting sanitary surveys on a regular basis is an important element in preventing contamination of drinking water supplies and in maintaining compliance with the National Primary Drinking Water Standards. Michael DuFrane was present during this inspection.

Please take appropriate action to address any deficiencies or recommendations identified within this report. A deficiency may lead to a contamination of the water supply or failure of the system to be in compliance with the Safe Drinking Water Act. The enclosed report must be kept on file and made available for public review for not less than ten (10) years.

The Minnesota Department of Health (MDH) continues to monitor your PWS for contaminants identified by state and federal drinking water regulations. The results of such monitoring are not part of this report. They are sent to you under separate cover as they become available.

If you have questions concerning the information contained in the report, please contact me at 218/332-5147.

Sincerely,

Lucas Hoffman
Community Public Water Supply Unit
Environmental Health Division
1505 Pebble Lake Road, Suite 300
Fergus Falls, Minnesota 56537-3858



MINNESOTA DEPARTMENT OF HEALTH
SECTION OF DRINKING WATER PROTECTION
Public Water Supply Inventory Report



System Name: **Vergas**
PWSID: **1560029**
System Contact: **Michael DuFrane**

Survey Date: **01/27/2021**
Surveyor: **Lucas Hoffman**
PWS Type: **Community**

Contact Information

<u>Name</u>	<u>Address</u>	<u>Phone/Email</u>
Contact		
Michael DuFrane	P.O. Box 32 Vergas, MN 56587	Cell Phone 218/234-5110 Email mikeinvergas@gmail.com
Julie Lammers		Business Phone 1 218/342-2091 Email cityofvergas@arvig.net

Owner/Responsible Party

Vergas City Council	c/o Ms. Julie Lammers, City Clerk P.O. Box 32 Vergas, MN 56587	Business Phone 1 218/342-2091 Email cityofvergas@arvig.net
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Financial

City of Vergas	P.O. Box 32 Vergas, MN 56587	Business Phone 1 218/342-2091 Email cityofvergas@arvig.net
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Sample Bottles/General Correspondence

Vergas Water Superintendent	111 East Main Street P.O. Box 32 Vergas, MN 56587	Cell Phone 218/234-5110 Email mikeinvergas@gmail.com
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Emergency Workday

Michael DuFrane	Cell Phone 218/234-5110 Email mikeinvergas@gmail.com
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Emergency After-Hours

Michael DuFrane	Cell Phone 218/234-5110 Email mikeinvergas@gmail.com
Matt Engebretson	Cell Phone 218/234-7053

Consumer Confidence Report

Julie Lammers	Business Phone 1 218/342-2091 Email cityofvergas@arvig.net
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Classification Information

Owner Type:	Municipal	Population:	335
System Class:	C	Service Connections:	169
Service Area Characteristics:	Municipal	Class Points:	34

Certified Operators

<u>Name</u>	<u>Class</u>	<u>Expiration Date</u>	<u>Name</u>	<u>Class</u>	<u>Expiration Date</u>
DuFrane, Michael D.	B	04/30/2023			



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Production Totals

Design Capacity:	150 Gallons per Minute	Emergency Capacity:	100,000 Gallons
Average Daily:	28,000 Gallons	Storage Capacity:	100,000 Gallons
Highest Daily:			

Source Information

Well #1

Unique Well No.: 00520969	Source Type: Groundwater
Type: Well	Pump Capacity (gpm): 150
Status: Active	Pumping Rate (gpm): 150
Availability: Primary	Emergency Capacity:
Year Constructed: 1992	Static Depth (ft): 70
Well Depth (ft): 383	Drawdown (ft): 8
Casing Depth (ft): 353	Pump Type: Submersible
Casing Diameter (in): 8	Vulnerable: No
Screen Length (ft): 20	Last Rehabilitated: 2014
Aquifer: Quaternary Buried Artesian Aquifer	

Well #2

Unique Well No.: 00520970	Source Type: Groundwater
Type: Well	Pump Capacity (gpm): 150
Status: Active	Pumping Rate (gpm): 150
Availability: Primary	Emergency Capacity:
Year Constructed: 1992	Static Depth (ft): 72
Well Depth (ft): 395	Drawdown (ft): 6
Casing Depth (ft): 355	Pump Type: Submersible
Casing Diameter (in): 8	Vulnerable: No
Screen Length (ft): 40	Last Rehabilitated: 2014
Aquifer: Quaternary Buried Artesian Aquifer	

Treatment Information

TREATMENT PLANT #1

Type: Treatment Plant
Status: Active
Availability: Primary

Source Water: Groundwater
Design Capacity: 150 Gallons per Minute
Emergency Capacity:
Operating Rate: 150 Gallons per Minute

Treatment Objective

Disinfection
Fluoridation
Iron/Manganese Removal

Treatment Process Mechanism

Chlorine/Sodium hypochlorite
Fluoridation/Hydrofluosilicic acid
Coagulation/nonionic polyelectrolytes
Detention (chemical reaction time)
Filtration (Pressure)/Anthracite/Greensand
Oxidation - chemical/Potassium permanganate



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Storage Information

Elevated 100000

Type: Storage-Elevated

Status: Active

Capacity: 100,000

Availability:

Chlorination:

Gallons

Primary

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Bacteriological Sample Site Plan

Distribution

<u>Sample Site ID</u>	<u>Sample Location</u>	<u>Status</u>	<u>Notes</u>
	City Shop	Active	
	Community Center	Active	
	Ball Park	Active	
	City Beach	Active	
	Liquor Store	Active	



MINNESOTA DEPARTMENT OF HEALTH
Section of Drinking Water Protection
Sanitary Survey Report



System Name: **Vergas**

PWSID: **1560029**

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Survey Date: **01/27/2021**

Surveyor: **Lucas Hoffman**

PWS Type: **Community**

Requirements and Recommendations

Water Source

As a reminder, it is required that a well for a community public water supply be located according to distances specified in Minn.Rules 4725.4450, including not less than 50 feet from a source of contamination including buried sewers (except as specified in Minn. Rules 4725.5850).

Pumps/Pump Facilities and Controls

To ensure continuous service when the primary power has been interrupted, it is recommended that a standby power source be provided through: 1. a direct connection to at least two independent public power sources, or 2. dedicated portable or in-place auxiliary power of adequate supply and connectivity. [Minn. Rules 4720.3927]

Treatment

It is required that the electrical outlet for the fluoride feed pump be clearly labeled to identify the continually energized outlet and the flow controlled outlet. Outlet covers may be used to protect from the accidental use of a continually energized outlet. [Recommended Standards for Water Works 5.4.7c]

It is recommended that when replacing the liquid storage tanks a secondary containment be provided to prevent the accidental discharge of chemical in the event of an equipment failure or spill. [Recommended Standards for Water Works 5.1.9]

Water Storage

It is recommended that the community water storage tank be internally inspected on a regular basis. Tank cleaning should take place every 2 to 5 years based on tank sediments, decline of chlorine residuals within the tank or other indicators of a decrease in water quality.

Distribution

It is recommended that dead ends in the distribution system be minimized by looping. If looping is not feasible, a fire hydrant, approved flushing hydrant or blow off for flushing purposes must be used at the dead ends to maintain water quality and/or chlorine residual. [Recommended Standards for Water Works 8.0]

It is recommended that a valve exercising and replacement program be initiated to ensure valves are in working condition. This will minimize sanitary hazards and inconvenience to the customer when working on the distribution system. [AWWA Standards Distribution Systems Operation and Management, Section 4]



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PWS Type: **Community**

Requirements and Recommendations

Monitoring/Reporting Data Verification

The following applicable records are required to be maintained by the water supply system:

- a. Coliform bacteria results - 5 years
 - b. Chlorine residual results - 5 years
 - c. Chemical results - 10 years
 - d. Sanitary survey reports - 10 years
 - e. All lead and copper materials - 12 years
 - f. Consumer confidence reports - 3 years
 - g. Public Notices - 3 years
 - h. Fluoride quarterly results and monthly reports - 1 year
 - i. Turbidity results - 3 years
- [Minn. Rules 4720.0350]

Water System Management/Operation

As a reminder, engineering plans for new, modifications to, or additions to the water supply system, including watermain, are required to be properly submitted to the Minnesota Department of Health for review. All plans must be approved prior to the start of construction. [Minn. Rules 4720.0010]

To ensure security, it is recommended that a daily check of critical system components be conducted, including confirmation that all doors and access hatches are locked.

It is recommended that a security gate/fence be installed at the road's entrance to the water treatment plant. A security gate would reduce the amount of unwanted traffic and visitors.

Operator Compliance with State Requirements

The certified operators are required to qualify themselves by attending waterworks operators training seminars offered throughout the state. Continuing education is valuable experience for anyone engaged in this field. The required contact hours in the previous 3 years for certification renewal are:

- Class A 32 contact hours
 - Class B 24 contact hours
 - Class C 16 contact hours
 - Class D 8 contact hours
 - Class E 4 contact hours
- [Minn. Rules 9400.1200]



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Bacteriological Results and Chlorine Residuals

<u>Date</u>	<u>Sampling Location</u>	<u>Chlorine Residual Free / Total (mg/L)</u>	<u>Coliform Bacteria</u>	<u>E.Coli</u>
01/27/2021	Treatment Plant Effluent	< 0.02 / > 2.20	Absent	
01/27/2021	Well #2	/	Absent	
01/27/2021	City Shop	< 0.02 / 1.55	Absent	
01/27/2021	Event Center	< 0.02 / 0.65	Absent	