

# MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION ENVIRONMENTAL HEALTH SECTION

# NONCOMMUNITY PUBLIC WATER SUPPLY WATER TREATMENT SYSTEM CONSTRUCTION PERMIT APPLICATION REQUIRED UNDER AUTHORITY OF ACT 1976 PA 399, AS AMENDED

## ARSENIC TREATMENT TYPE: ION EXCHANGE WATER SOFTENER

Facility Facility Name		
Street Address		
City	State	Zip
Public Water Supply System Number (WSSN)		
Facility Owner Name	F	Phone
Address		
City	State	Zip
Email		
Treatment System Designer Name	Company _	
Address		
City	State	Zip
Phone		
Email		
Please submit the following information in add maintenance manual:	ition to plans, spec	ifications, and an operation and
Type and volume of media		
Size of treatment tanks		
Peak demand of water system in gpm		
Rated capacity per unit in gpm per square foot		
Total population served		

Number of service connections					
Backwash system co	ontrols				
Backwash discharge	(volume, frequer	cy & arsenic concen	tration)		
Location & approval	for backwash disc	charge			
her Treatment escription and basis o	f design for other	treatment applied su	uch as softenin	g, disinfectio	on, iron removal, etc.
ater Quality (Untrea  Nitrate	<b>ted)</b> (mg/l)	Iron	(mg/l)	Sodium	(mg/l)
Chlorides	(mg/l)	Total Hardness	(mg/l)	рН	(mg/l)
Total Arsenic	(mg/l)	Arsenic III	(mg/l)	Other	(mg/l)
a. Se sar b. Ch c. Wa d. Me e. Lal f. Ma g. Me	ans and specificate rvice line, storage in poling locations emical injection locate water receiving thanical warning beled "Raw Water ike and model of eathod of controlling	tank, treatment vess ocation (if applicable) ng system	r" taps chemical inject	ion pumps	ire gauges, flow mete
a. Ro b. Tro c. Mo	operation and ma utine operation are publeshooting guid nitoring plan	aintenance manual Innd maintenance activede de els for piping, valves,	vities	le taps, key	components
Certified Operator Identify an operator of	certified at or abov	ve the D5 level (limite	ed treatment)		
Operator Name		Cer	t. No.		Level

EGLE Environmental Assistance Center Telephone: 1-800-662-9278

#### **Operation Report**

Monthly operation report (attached) is to be submitted by the certified operator.

#### Other Relevant Information

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If another approved water source is available (by connection or drilling a new well) that source shall be used in lieu of treating a source that exceeds drinking water standards

Distance to and name of nearest community water system			
Is connection to community water possible?	Yes	No	
Comments			

#### **Third Party Standards**

Equipment, materials, and additives in contact with potable water must meet American National Standards Institute/National Sanitation Foundation (ANSI/NSF) Standards.

- 1) Provide ANSI/NSF listing if any "Drinking Water Treatment Chemicals" are involved in treatment system (Standard 60).
- 2) Provide ANSI/NSF product listing for "Drinking Water System Components". (Standard 61, 58, 51...)

#### **Backwash Discharge**

Approval is required for disposal of concentrate waste water. Requirements are dependent on the type of disposal and waste water to be discharged. Identification of the waste receiving systems, approval for discharge and characterization of the backwash water will be required for approval to install an arsenic removal system on a public water supply.

Backwash water will be discharged to: Community Sewer				
Septic tank/drainfield	Other	, if other describe location:		

Provide a copy of the permit application and plans and specifications to the local health department and another copy to:

Drinking Water and Environmental Health Division Environmental Health Section Noncommunity Water Supplies Unit 525 West Allegan Street P.O. Box 30817 Lansing, Michigan 48909-8311



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### ARSENIC TREATMENT MONTHLY OPERATION REPORT - WATER SOFTENER

Facility Name			WSSN			
Certified Operator		#	Month/Year://			
Day	Flow Meter Reading (Gallons)	Arsenic Treated (mg/L)	Visual Inspection (Y/N)	Comments	Inspected By	
1	,					
2						
3						
4						
5						
6						
7						
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9						
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30						
31						
	ator Signati	ure			Date_	

## See back for instructions on completing form

Completion of this form is required by Rule 325.11502, 1976 PA 399 Submit a copy of this MOR to the Local Health Department within 30 days after the end of the month.



#### Instructions for Completion of Monthly Operation Report: Water Softener

**Flow Meter Reading:** Record treated water meter reading at beginning and end of month. Flow data may be read from the face of a shut off valve or other metering device.

Arsenic Treated: Sample arsenic levels at the "Entry Point to Distribution System" sample tap quarterly and analyze through a certified lab. On the lab slip, state the sampling point is "EPTDS" or "Treated Water." Allow water to run from the sample tap for at least 30 seconds before filling the sample bottle to get a representative sample. Sampling arsenic levels in the distribution system where water is consumed is not required and not recommended. After getting the arsenic sample result from the lab, write the result in this column for the day that it was obtained. The Maximum Contaminant Level (MCL) for arsenic is 0.010 mg/L which is 10 parts per billion. If the lab results are higher than 0.010 mg/L, contact your local health department to determine what steps to take to maintain compliance. If you sample the raw water or backwash for arsenic, clearly label the point description "Raw Water" or "Backwash Water" on the lab slip and write the arsenic result and that it is raw water or backwash water in the comment section below so they are not used in determining compliance with the arsenic MCL. Arsenic samples from untreated water must be used in compliance determinations if the source is not clear where the sample is from and that can cause an MCL violation even though the treated water may meet the arsenic MCL.

**Visual Inspection:** Visually inspect the treatment system weekly to verify the treatment unit is operating properly. Mark a "Y" in this column every day the treatment system is inspected and sign your name in the "Inspected By" column for that day.

Comments: Record maintenance or any unusual events. See below for additional space.

**Inspected By:** Person obtaining arsenic sample, changing cartridge filter, or inspecting system signs for that day. Signatures are not needed on days a sample, cartridge filter change, or inspection has not occurred.

**Operator Signature:** Certified operator signs and dates bottom of MOR attesting to the submitted information in the report and then submits the MOR to their local health department within 30 days after the end of the month. Submittal of an MOR is required for every month the treatment system is in operation even if an arsenic sample is not taken that month.

Local Health Department (LHD) Name	
LHD Address	
LHD Contact Person	Phone
wants information about raw water arsenic ledescription "Raw Water" on the lab slip and	(untreated) arsenic level is not required but is allowed if the water supply evels. If you do sample the raw water for arsenic, clearly label the point write the sampling date, arsenic result, and that it is raw water in the d in determining compliance with the arsenic MCL.

Submit a copy of the MOR to the Local Health Department within 30 days after the end of the month