

Summary of Public Education (PE) Requirements and Certificate of Distribution

For Community Water Supplies That Exceed the Lead Action Level

Public education (PE) materials must be delivered within 60 days after the end of the monitoring period in which the lead exceedance occurred and repeated once every 12 months for as long as the lead action level is exceeded. Within 10 days after the end of the period in which PE is required, send documentation to the DEQ that contains:

Every Television Station Available in BH City

Every Radio Station

A demonstration that the water supply has delivered the PE materials that meet the content requirements and the delivery requirements.

A list of all the newspapers, radio stations, television stations, and facilities and organization to which the water supply delivered PE materials during the period in which the water supply was required to perform PE tasks.

Every local papers - Phone calls from someone at

To meet this requirement, water supplies may use this checklist to document delivery activities. Send this checklist, or similar documentation to the DEQ along with a sample copy of the PE material that was distributed.

a MI Statewide News Piece.

Start Here for all other water supplies:

1. Deliver PE printed materials (pamphlets, brochures, posters) to all bill paying customers. Date delivered: Delivered Every Door Direct from BH USPS 4,586 pieces mailed Friday, November 30, 2018.

2. Provide the following message on or in each water bill (no less frequently than quarterly). "[Water Supply Name] found high levels of lead in drinking water in some homes. Lead can cause serious health problems. For more information please call [Water Supply Name] or visit [insert Web site if available]."

Date water bills or other delivery mechanism delivered: will start Dec 10/18

3. Partner with the local public health agency to reach at-risk consumers, even if the agency is not served by the water supply: Started with Berrien County Health Department before the actual notice was received. They participated in the Public Advisory during the Press Conference at City Hall on: Early October 2018

a. Deliver PE materials to the local public health agency along with an informational notice encouraging them to distribute to potentially affected consumers.

Date delivered to local public health agency: early October 2018

actual document 12/7/18

b. Contact the local public health agency in person or by phone. If the agency provides a list of other organizations that serve the target population, deliver materials to those organizations too, even if not served by the water supply. A water supply serving 3,300 or fewer people may limit the distribution to organizations it serves.

List of other organizations: Early October 2018

4. Deliver PE materials to the following facilities and organizations that are served by the water supply that are most likely to be visited regularly by pregnant women and children. Check all that apply and list the names of facilities and organizations:

MDEQ Doc 2

1 by MDEQ grant BHAS

1 by BHAS MD 11/5/18

- ☒ Public and private schools or school boards: x BHAS with MDEQ Assistance
☐ Women Infants and Children (WIC) and Head Start programs: _____
☐ Public and private hospitals and medical clinics: _____
☐ Pediatricians: _____
☐ Family planning clinics: _____
☐ Local welfare agencies: _____

5. Make a good faith effort to locate the following organizations within the service area and deliver PE materials, along with an informational notice that encourages distribution to all potentially affected customers or users. The good faith effort to contact at-risk customers may include requesting a specific contact list of the organizations from the local public health agencies, even if the agencies are not located within the water system service area. Check all organizations that apply and list the names of the organizations:

- ☐ Licensed childcare centers: _____
☐ Public and private preschools: _____
☐ Obstetricians-Gynecologists and Midwives: _____

6. Submit press release to newspaper, television, and radio stations. Water supplies serving 3,300 or fewer people may skip this requirement provided the water supply delivers PE materials to every household served by the water supply. List the newspapers, television, and radio stations: Press Release BH City Hall

October 23, 2018 w/ Berrien

7. Conduct activities from the following general categories. county
- For water supplies serving 3,300 or fewer people, conduct 1 activity from 1 of the general categories.
 - For water supplies serving more than 3,300 people, conduct 3 activities from 1, 2, or 3 of the following general categories (for example, you may do 3 PSAs or 3 public meetings if the DEQ allows).
 - Check all that apply and note dates activities performed and locations, if applicable.

- ☒ Public service announcements: _____
☐ Paid advertisements: _____
☒ Display information in public areas: City Hall and BH Public Library
☐ Email to customers: _____
☒ Public meetings: 10/23/18
☒ Delivery to every household: x
☒ Targeted individual customer contact: x mailed results to 159 local residents that took advantage of the Free Lead and Copper Sampling, pool 1. 100 additional notices will be sent the week of December 3-7, 2018.
☒ Provide materials directly to multi-family homes: Included in EDDM _____
☒ Other methods approved by the DEQ: Free Lead and Copper sampling distributed to Residents from End of October and continuing. Nearly 500 sample kits have been taken by local residents 200+ have actually been returned and sent to laboratories.

All information on BHcity.us web site including lead & copper results without actual Address

8. Post material on the water supply's Web site (required for supplies serving more than 100,000 people). Web site address: Available on City Web Site 12/05/2018
9. Certify. I affirm that public education material content and delivery requirements have been completed. I am enclosing a sample of the public education material we delivered.

MSR Doc (3)

Signature

Mike O'Malley

Printed Name

Benton Harbor City Water Superintendent

Title

Within 10 days of the end of the period in which PE is required, send a certification that requirements were met to the appropriate DEQ district office at <http://michigan.gov/deq>. Click on Contacts, click on Environmental Contacts, click on district offices.

Water Supply Name

0600

Water Supply Serial Number (WSSN)

12/7/18

Included in this Packet

- #1 EODM Public Education Material 11/27/18
at Benton Harbor post office
4 full pgs including TOC 3rd qtr EODM free fee
- #2 EODM Public Advisory
2 pages delivered EODM BH Post office
10/30/18 same # pgs same price
same procedure

Eddm for Public Education Material 112718

Thank You for Your Order

Mike O'Malley
Account # - 160658403
CRID # - 25729000

Your Order Number:

5552494

Post Office™ Drop-offs Required:

1

Individual Routes Selected:

7

Delivery Addresses:

4588

Cost of Order:

\$816.66

Payment Method:

Pay at Post Office™

Drop Off Order On:

Thursday, November 29, 2018

Check your email for an order confirmation.

Public Education
Mailer
Pg 1

Vendor: 0148

UNITED STATES POSTAL SERVICE

Check #: 00000069931 11/29/2018

Date	Invoice	Description/Detail	Amount
11/28/2018	11282018	EDD MAILING - BH POST OFFICE	816.66

BENTON HARBOR
525 RIVERVIEW DR
BENTON HARBOR
MI
49022-5073
2508600950
(800)275-8777 3:53 PM
11/29/2018
Product Description
Qty
Sale
Final Price
\$816.66
Every Door Direct
(Trans Type:Online Paid at Retail)
(Name:Mike O'Malley)
(CRID/Acct No:25729000)
(Pieces:4588)
(Mail Piece Weight(Oz):0.30)
(Acceptance Date:2018-11-29)
(Barcode No:11000000000257290000000060653470458807)

Total \$816.66
Personal/Bus Check \$816.66

Preview your Mail
Track your Packages
Sign up for FREE @
www.informedelivery.com

All sales final on stamps and postage
Refunds for guaranteed services only
Thank you for your business

HELP US SERVE YOU BETTER
TELL US ABOUT YOUR RECENT
POSTAL EXPERIENCE

Go to:
<https://postalexperience.com/Pos>
840-5493-0260-001-00020-87458-02

or scan this code with
your mobile device:



816.66

Public Edw Mailer (2)

United States Postal Service
Every Door Direct Mail (EDDM) Retail®

Post Office: Note Mail Arrival Date & Time
(Do Not Round Stamp)

Mailer	Name and Address of Individual or Organization for Which Mailing is Prepared		Telephone (269) 927-8471		Name and Address of Mailing Agent (If other than mailer)		Telephone 269 363 0175																	
	City of Benton Harbor 200 E WALL ST BENTON HARBOR, MI, 49022				M. O'Malley 34 W. 2nd E. Wall St 34																			
		Customer Registration I.D. (CRID) 25729000				Customer Registration I.D. (CRID)																		
Mailing	Post Office of Mailing BENTON HARBOR		Processing Category <input checked="" type="checkbox"/> EDDM Flats		Mailer's Mailing Date 11/29/2018		Total # of Bundles 91.8																	
	Type of Postage <input checked="" type="checkbox"/> EDDM Retail Indicia <input type="checkbox"/> Metered <input type="checkbox"/> Meter Strip		Delivery Type Business & Residential		Weight of a Single Piece 0.3 ounces Max Weight 3.3 ounces		Total # of Pieces per Bundle 50																	
			Route Type(s) CTY 1		Incentive/Discount Claimed		Every Door Direct Mail Barcode																	
							1100000000002572900000000060653470458807																	
Certification	<table border="1"> <thead> <tr> <th>Entry</th> <th>Price Category</th> <th>Price</th> <th>No. of Pieces</th> <th>Subtotal Postage</th> <th>Incentive/Discount Amount</th> <th>Total Postage</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>DDU</td> <td>Saturation</td> <td>0.178</td> <td>4,588</td> <td>\$816.66</td> <td></td> <td></td> <td>UNPAID</td> </tr> </tbody> </table>								Entry	Price Category	Price	No. of Pieces	Subtotal Postage	Incentive/Discount Amount	Total Postage	Status	DDU	Saturation	0.178	4,588	\$816.66			UNPAID
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	DDU	Saturation	0.178	4,588	\$816.66			UNPAID																
<p>The mailer's signature certifies acceptance of liability for and agreement to pay any revenue deficiencies assessed on this mailing, subject to appeal. If an agent signs this form, the agent certifies that he or she is authorized to sign on behalf of the mailer and that the mailer is bound by the certification and agrees to pay any deficiencies. In addition, agents may be liable for any deficiencies resulting from matters within their responsibility, knowledge, or control. The mailer hereby certifies that all information furnished on this form is accurate, truthful, and complete; that the mail and the supporting documentation comply with all postal standards and the mailing qualifies for the prices and fees claimed; and that the mailing does not contain any matter prohibited by law or postal regulation. I understand that anyone who furnishes false or misleading information on this form or who omits information requested on this form may be subject to criminal and/or civil penalties, including fines and imprisonment.</p> <p>Privacy Notice: For information regarding our Privacy policy visit www.usps.com</p>																								
Signature of Mailer or Agent				Printed Name of Mailer or Agent Signing Form		Telephone																		
Acceptance	Postmaster: Report Total Postage in AIC 207				Subtotal Postage		Incentive/Discount Amount																	
	Weight of a Single Piece _____ ounces				Total Number of Pieces		Total Postage																	
	USPS Acceptance Employee Signature						Round Date (Required) Payment Date																	
	USPS Acceptance Employee Printed Name																							
Verification	Number of Bundles		Any postage figures adjusted from mailer's entries? If yes, reason: <input type="checkbox"/> Yes <input type="checkbox"/> No																					
	I CERTIFY that this mailing has been inspected for each item below if required: (1) eligibility for postage prices claimed; (2) proper preparation (and presort where required); (3) proper completion of postage statement.		Date Mailer Notified		Contact		Round Date (Required) Verification Date																	
			By (Initials)		Time AM PM																			
	USPS Verification Employee Signature		Print USPS Verification Employee Printed Name																					

Affix Meter Strip Here

Public Post
Office
#816-66
11/29/18
7:00 PM
USPS Use Only
Acceptance
mp

Public Edw
89 (3)

$$\frac{4,588}{50} = 91.8 \text{ bundles}$$

Benton Harbor Water Plant
200 E. Wall Street
Benton Harbor, MI. 49022

Public Ed
maile
pg 4

11/29/18

PRSR STD
ECRWSS
U.S. POSTAGE PAID
EDDM Retail

*****ECRWSS*****

Mailed Every Door Direct Mailing
BH Post office 11/30/18

**Local
Postal Customer
Benton Harbor, MI. 49022**

**All the Drinking Water Customers of the City of Benton Harbor, please
open and read this Notice**

**The City of Benton Harbor's Water Department Presents
A Public Education Document Regarding:**

IMPORTANT INFORMATION ABOUT LEAD IN YOUR DRINKING WATER

The Benton Harbor Water Department, found elevated levels of lead in drinking water in some homes/buildings. Lead can cause serious health problems, especially for pregnant women and young children. Please read this notice closely to see what you can do to reduce lead in your drinking water.

This notice is brought to you by the Benton Harbor Water Department. Water Supply Serial Number MI0600 Date: November 30, 2018.

Health Effects of Lead

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

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Sources of Lead

Lead is a common metal found in the environment. Drinking water is one possible source of lead exposure.

Action Levels	90 th Percentile Value	Range of results (minimum-maximum)	# of samples used for 90 th Percentile
Lead 15 parts per billion (ppb)	22 ppb	0 to 60	27 th of 30 Samples
Copper 1.3 parts per billion (ppb)	61 ppb	1.5 to 86	27 th of 30 Samples

Other sources of lead exposure for most individuals are lead-based paint, lead-contaminated dust or soil, and some plumbing materials. In addition, lead can be found in certain types of pottery, pewter, fixtures, food, and cosmetics. Other sources include exposure in the work place and exposure from certain hobbies (lead can be carried on clothing or shoes).

Plumbing products such as pipes and fixtures, may contain lead. Homes built before 1988 are more likely to have plumbing containing lead, but newer homes may also contain lead. Beginning in 2014, the law reduced the allowable level of lead in these products to a maximum of 0.25 percent to be labeled as "lead free." Older fixtures may contain higher levels of lead.

Benton Harbor's water source is Lake Michigan and it does not contain lead. The water is treated and pumped to the community from the Plant in the SW corner of Jean Klock Park. Some of the water mains in the streets are old enough to be cast iron with lead sealed joints. However, the service lines to the homes could be made of lead and if those lines are not in use for several hours, the lead may enter drinking water. Lead, Copper, and other heavy metals do not dissolve very quickly. Water sitting still for several hours may dissolve lead and other heavy metals. Corrosion has never been an issue as the Lake water is considered Scale Forming, from the Moderately hard (around 160 ppb Calcium Carbonate Hardness) Lake Michigan water.

Most of the Benton Harbor homes were built during the City's Industrial days from early 1900's to the 1960's. Homes built before 1986 are more likely to have plumbing containing lead. New homes may also have lead; even "lead-free" plumbing may contain some lead.

EPA estimates that drinking water can make up 20 percent or more of a person's potential exposure to lead. Infants who consume mostly mixed formula can receive 40 percent to 60 percent of their exposure to lead from drinking water.

Don't forget about other sources of lead, such as lead paint, lead dust, and lead in soil. Wash your children's hands and toys often as they can come into contact with dirt and dust containing lead.

Steps You Can Take to Reduce Your Exposure to Lead in Your Water

1. **Run your water to flush out lead.** The more time water has been sitting in your home's pipes, the more lead it may contain. Therefore, if your water has not been used for several hours, run the water before using it for drinking or cooking. This flushes lead-containing water from the pipes.

- If you **do not** have a lead service line, run the water for 30 seconds to two minutes, or until it becomes cold or reaches a steady temperature.
- If you **do** have a lead service line, run the water for three to five minutes to flush water from both the interior building plumbing and the lead service line.

Additional flushing may be required for homes that have been vacant or have a longer service line.

2. **Use cold water for cooking and preparing baby formula.** Do not cook with or drink water from the hot water tap; lead dissolves more easily into hot water. Do not use water from the hot water tap to make baby formula.

3. **Do not boil water to remove lead.** Boiling water will not reduce lead levels. However if you follow step 1 above, you can boil your water for cooking and Coffee; as there is no significant lead in your piping once you have flushed out the stagnant water.

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4. **Look for alternative sources or treatment of water.** You may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010 or www.nsf.org for information on performance standards for water filters. Be sure to maintain and replace a filter device in accordance with the manufacturer's instructions to protect water quality.

5. **Get your child tested.** Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure.

[Items 6 and 7, below, may be omitted if the water supply is a facility, such as a prison or a hospital, where the population served is not capable of or is prevented from making improvements to plumbing or installing point of use treatment devices or if the supply provides water as part of the cost of services provided and does not separately charge for water consumption.]

6. **Test your water for lead.** Call us at The City Water Payment Center: (269) 927-8400 press 2, then 3. If you have already taken advantage of the City's Free Lead and Copper testing, your results have been mailed to you or will be once available.

7. **Identify if your plumbing fixtures contain lead.** Faucets, fittings, and valves may contribute lead to drinking water unless they have been replaced since 2013. Any new connecting plumbing and fittings should meet the 2014 lead-free definition. If you replace your faucet, buy a new one that meets the 2014 lead-free definition. Visit the National Sanitation Foundation Web site at www.nsf.org to learn more about lead-containing plumbing fixtures.

What Happened? What is Being Done?

This 2018 sampling year had to be changed quite a bit, because many of the homes were gone or vacant. Several homes were added, mostly by volunteers, in order to get the required number of 30 homes. Some of those added homes, measured high and some of the previous homes measured high for lead and some for copper. There were 7 homes that had lead results higher than the 15ppb Action Level (AL). When the sample results were reported to the MDEQ, the action level was exceeded for Lead at 22ppb.

The City has provided the Public Announcement of the exceedance; and free lead and copper testing. The 1st results were for a group of 159 homes. 17% of these homes showed lead levels higher than the AL for lead. These homeowners received a letter with their results and the results are listed on the City's new web site at www.bhcity.us

Water Service tap records the City has is mostly information about their location in the tree lawn. And essentially nothing about the materials they were made of. City crews through the last couple of years have had to dig up many of these lines due to leaks and many were found to be made of lead. At a Commission meeting, Lead lines received some attention and it was determined, based on the dig ups, that maybe 30% of the lines in the City were made of lead.

The MDEQ in 2018 has awarded the City with a Lead Service line grant for identification and some full replacements. Work towards these 2 tasks is nearly ready to begin.

Benton Harbor began lead and copper sampling the same as all communities in 1991. At that time, there was very limited information about lead service lines. A pool of 60 homes from the Benton Harbor Housing Commission had been properly inspected and all of the qualified as proper Tier 1 sites. In 1993 Benton Harbor qualified for reduced monitoring. Since then every 3-years, Benton Harbor sampled 30 sites as required. Occassionally, Benton Harbor would have 1 or 2 sites above the Action Level of 15 ppb. The sampling pool has changed frequently through the years.

For More Information please contact Mike O'Malley, Water Treatment Plant Superintendent, at his email : momalley@cityofbentonharbormi.gov or try the water plant phone: 269 927-8471 press 2

For more information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's Web site at www.epa.gov/lead or contact your health care provider.

Public Notice Fail 3rd qtr 23 (7)

11/29/18

Additional Important Information About Benton Harbor Drinking Water The 3rd Quarter TOC removal levels were not met.

The City of Benton Harbor (City) Water Treatment Plant was recently cited for a treatment technique violation for inadequate removal of Total Organic Carbon (TOC). We routinely monitor our source water from Lake Michigan for TOC, the amount of carbon found in natural organic compounds. TOC removal is calculated as the ratio between the actual TOC removal and the TOC removal requirements. Our TOC removal ratio during the 1st; 2nd and now the 3rd quarter of 2018 was below 1.00 which is less than the standard Safe Drinking Water Act requirement of 1.00.

The TOC levels in source water and treated water are monitored quarterly to measure TOC levels and the removal efficiency of the treatment process. Historically, TOC levels in the source water have been low enough that the determination of TOC removal efficiency has not been necessary. However, in the past year, TOC levels in Lake Michigan have increased triggering removal requirements. Normal treatment processes were not able to meet the TOC removal requirements in the first quarter of 2018.

What does this mean?

This is not an emergency. This notice is required to be distributed to all customers within 30 days of the violation being identified. If a situation arises where the water is not safe to drink you will be quickly notified within 24 hours.

TOC has no health effects; however, TOC provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the Maximum Contaminant Level (MCL) may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

All drinking water standards for disinfection byproducts in the water delivered to our customers have been met. The water is safe for drinking and all other uses and no alternative water sources are needed.

So, you know, the **Water from Benton Harbor has never exceeded the TTHM or HAA5s MCLs.** Since the testing began in 2008. Benton Harbor recently tested for the alternative value of a constituent called (SUVA) specific ultra violet absorbance; of the raw Lake Michigan Water. The result was 0.93 which qualifies the City to be exempt from any potential TOC result in the 4th Quarter of 2018. The rule states that a SUVA result of less than 2.0 is allowed and Exemption of TOC for that quarter. I am apologize, I did not do this SUVA in the 1st; 2nd and 3rd qtrs. of 2018.

What is being done?

We are investigating the reason for the increased TOC in our source water and are taking steps to improve the removal efficiency of our treatment process. And have found them for now. And, are looking at potential treatments. You will be notified if a future violation occurs.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information, please contact Mike O'Malley, Water Treatment Plant Superintendent, at his email : momalley@cityofbentonharbormi.gov or try the water plant phone: 269 927-8471 press 2

This notice is being sent to you by City of Benton Harbor.

