
From: Prysby, Mike (DEQ)
Sent: Tuesday, September 09, 2014 10:31 AM
To: Busch, Stephen (DEQ)
Cc: Michael Glasgow; Rosenthal, Adam (DEQ); Brent Wright; Daugherty Johnson; Howard Croft
Subject: Re: September 2014 Boil Water Notice Timeline

It may be worthwhile to see if Wade Trim can run an updated hydraulic model with these valves closed to see what the pressure is in the affected area. I recall the north central area of Flint having marginal pressures (35 to 40 psi) under peak conditions as identified in the reliability study.

Sent from my iPhone

On Sep 9, 2014, at 10:00 AM, "Busch, Stephen (DEQ)" <BUSCHS@michigan.gov> wrote:

Mike,

Thanks for the information.

Given these valve issues, would low pressure conditions less than 35 psi, be present in this portion of the system? If low pressure conditions exist, a cross connection or siphon condition where leaks or breaks are present may be occurring. While longer transmission times may contribute to lower chlorine residual, the presence of coliform bacteria suggests contaminants have entered the system and their regrowth and resurgence could be assisted by the presence of a biofilm, tuberculation on the pipe walls, and/or phosphate coating.

Please continue with your investigation and let us know how the valve repair/replacement goes.

Stephen Busch, P.E.
 Lansing and Jackson District Supervisor
 Office of Drinking Water and Municipal Assistance
 MDEQ
 517-643-2314

From: Michael Glasgow [<mailto:mglasgow@cityofflint.com>]
Sent: Tuesday, September 09, 2014 9:47 AM
To: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ)
Cc: Brent Wright; Daugherty Johnson; Howard Croft
Subject: September 2014 Boil Water Notice Timeline

Gentlemen,

Attached is a timeline of events that led us to the recent boil water notice. It shows all sampling and results from 9/2 thru today.

FYI:

I was just talking with a couple of employee's from the Water Service Center who have been helping us with our investigation of the the distribution system. It seems that they have found

one of the possible causes of our recent issues. A 36" transmission main not far west of the treatment plant had a valve that was closed, and the 24" transmission main that leads west also has a valve that is closed. The 36" valve was opened, however the valve on the 24" is inoperable. With these valves closed, it appears the water leaving the plant has no direct route to the west side of the city (or the West Side Reservoir)

Mike Glasgow
City of Flint Water Plant