

Rennaker, Joanne (DEQ)

From: Howard Croft <hcroft@cityofflint.com>
Sent: Tuesday, July 21, 2015 8:03 AM
To: Laura Sullivan
Cc: gdn2@aol.com; bwright@cityofflint.com; dwalling@cityofflint.com; donna.cole@genesys.org; gambrose@cityofflint.com; jhenry@gchd.us; jlorenz@cityofflint.com; jmikewright@yahoo.com; jherman@genesys.org; jfobrien@gcdcwws.com; ksmith@flint.org; larry.koehler@mcc.edu; mglasgow@cityofflint.com; Wright.Michael@epa.gov; mjlane@umflint.edu; Prysby, Mike (DEQ); nhenderson@cityofflint.com; nbirchm1@hurleymc.com; plevine@gcms.org; rbincsik@cityofflint.com; rosejo@msu.edu; Russell.Hudson@mclaren.org; SFMatta@lan-inc.com; jwggreen@lan-inc.com; mike49@sargentstitle.com
Subject: Re: Water Quality Update

Team,

The following are responses to a few questions that have been asked recently;

1. Will the Granulated Activated Carbon remain in use affect with the new water supply form Lake Huron?

No, The main purpose of the GAC is to remove Total Organic Carbon (TOC) from the water. The water from Lake Huron is expected to have a much lower TOC than river water and we do not expect to need the filters to control TTHM. We will however be performing testing on the water supply prior to introducing it into the distribution system and if the the TTHM trend is higher than expected we will reevaluate this decision.

2. Will KWA water be mixed with Flint river water?

No, There are no plans to co-mingle the two water sources once KWA arrives. The average water usage in the City has been fairly consistent over the last decade at approximately 12 million gallons a Day. Main breaks have caused this number to fluctuate but the leak detection service should point out any integrity breaches in the system. The engineering report recommended that the City purchase 18 MGD of capacity from the KWA which we agreed with and that is the contractual capacity that Flint owns.

There is however excess capacity within the KWA system that would allow us to meet the domestic demand if it were to peak above the purchased 18 MGD. If this scenario were realized, the City would purchase this excess capacity from Genesec County.

The Flint River will still serve as a permanent backup supply for the City therefore we constructed the infrastructure to allow us to introduce the water into the system very quickly.

Please continue to forward any questions that arise.

Thank you,

On Mon, Jul 20, 2015 at 10:39 PM, Laura Sullivan <dr.laura2@gmail.com> wrote:

My reading of planning documents for the KWA suggests that once untreated water arrives in Flint, some of it will be sold to GM. Depending on residential water need, it will sometimes be necessary to add water from the Flint River to the remaining untreated KWA water prior to treatment for distribution to residents. Given this, it seems critical that filtration through GAC be considered permanent.

Veolia is pursuing privatization of Great Lakes water, and they specifically recommended that GAC be installed inline when making their report to Flint in February.

Laura Sullivan

On Wednesday, July 15, 2015, <gdn2@aol.com> wrote:
Hello Howard,

Would you share with us whether the Granulated Activated Carbon system will remain in affect with the new water supply from Port Huron for the city of Flint (and possibly the county)? A patient of mine from Flushing asked and I could not answer. It would seem to be an excellent idea both from the standpoint of decreased toxic chemical/metal exposure, taste and safety of the citizens it could serve.

Thank you,

Gerald Natzke DO FAAEM
GCMS Board Representative

-----Original Message-----

From: Howard Croft <hcroft@cityofflint.com>
To: Laura Sullivan <dr.laura2@gmail.com>
Cc: Brent Wright <bwright@cityofflint.com>; Dayne Walling <dwalling@cityofflint.com>; donna. cole <donna.cole@genesys.org>; gdn2 <gdn2@aol.com>; Gerald Ambrose <gambrose@cityofflint.com>; Howard Croft <hcroft@cityofflint.com>; James Henry <jhenry@gchd.us>; Jason Lorenz <jlorenz@cityofflint.com>; jmikewright <jmikewright@yahoo.com>; JoAnne Herman <jherman@genesys.org>; John O'Brien <jfobrien@gcdcwvs.com>; Kirk Smith <ksmith@flint.org>; Larry Koehler <larry.koehler@mcc.edu>; Michael Glasgow <mglasgow@cityofflint.com>; Michael Wright <Wright.Michael@epa.gov>; Mike Lane <mjlane@umflint.edu>; Mike Prysby (DEQ) <prysbym@michigan.gov>; Natasha Henderson <nhenderson@cityofflint.com>; Norb Birchmeier <nbirchm1@hurleymc.com>; Pete Levine <plevine@gcms.org>; Robert Bincsik <rbincsik@cityofflint.com>; rosejo <rosejo@msu.edu>; Russell Hudson <Russell.Hudson@mclaren.org>; Samir Matta <SFMatta@lan-inc.com>; Warren Green <jwgreen@lan-inc.com>; Michael Sargent <mike49@sargentstitle.com>
Sent: Fri, Jun 26, 2015 3:41 pm
Subject: Re: Water Quality Update

As a follow up to this afternoon's email, I am answering several questions that have subsequently been asked.

The vendor is "Calgon Carbon" with headquarters in Pennsylvania. They are both the supplier of the material and the installer as well. After initial designs were approved by the DEQ, various water samples from the Flint River were drawn and sent to Calgon for two weeks of testing under various conditions to try and gauge the effectiveness of the specific carbon filters chosen. Flow rate and temperature tests were performed by our engineering firm LAN at the water plant prior to the design being developed and forwarded to the DEQ. The filter media is Granulated Activated Carbon and the first filters are scheduled for installation to begin following the 4th of July weekend.

Please forward me any additional questions that may arise.

Thank you,

On Fri, Jun 26, 2015 at 3:25 PM, Laura Sullivan <dr.laura2@gmail.com> wrote:
Hello Howard,