**To:** Couillard, Lon[Lon.A.Couillard@milwaukee.gov]
**Cc:** Elmore, Steve B - DNR[Steve.Elmore@wisconsin.gov]; Constantine.tsoris@wisconsin.gov[Constantine.tsoris@wisconsin.gov]; Nelson, Mark A - DNR[Mark.Nelson@wisconsin.gov]; Porter, Andrea[porter.andrea@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Joe Janczy[janczj@dnr.state.wi.us]
**From:** Deltoral, Miguel
**Sent:** Wed 4/1/2015 8:21:11 PM
**Subject:** Re: Milwaukee proposed lead sampling study for Connection of Service (COS) to residents in 2015
High-Velocity Household and Service Line Flushing Following LSL Replacement (Brown-Cornwell, JAWWA Mar 2015).pdf
Sampling and Flushing Recommendations 04-01-2015.docx

Sorry, I forgot the other attachment.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

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**From:** Deltoral, Miguel
**Sent:** Wednesday, April 1, 2015 03:15 PM
**To:** Couillard, Lon
**Cc:** Elmore, Steve B - DNR; Constantine.tsoris@wisconsin.gov; Nelson, Mark A - DNR; Porter, Andrea; Poy, Thomas; Joe Janczy
**Subject:** Re: Milwaukee proposed lead sampling study for Connection of Service (COS) to residents in 2015

Hi Lon,

Attached are my thoughts and recommendations. They are consistent with what you are thinking, except that I would recommend 15 sequential samples because the lines are being disturbed at the far end near the main so you want to make sure the sampling catches that. Please feel free to call anytime if you have any questions.

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

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**From:** Couillard, Lon <Lon.A.Couillard@milwaukee.gov>
**Sent:** Tuesday, March 31, 2015 03:09 PM

**To:** Deltoral, Miguel
**Subject:** Milwaukee proposed lead sampling study for Connection of Service (COS) to residents in 2015

Miguel, I understand you have been in recent contact with Abigail RE: her AWWARF project, and you are aware that Milw Water Works is a participant in that.

In addition, MWW is planning to conduct a lead sampling study for Connection of Service (COS) to residents in 2015 during our main replacement/relay projects, for those homes with identified lead service lines. The COS procedure is described as a snipping of the LSL at the existing coupling or corporation, then re-connection of the LSL to the new main using a brass/ copper flange and clamp.

MWW proposes to recruit a pool of volunteers from homes in each main-relay project area, and have them collect three sets of samples to be analyzed for lead & copper; 1)pre-construction, 2)within 72 hours of re-connection, and 3) after approx. 30 days post-completion. Each set of samples would be a set of 12 sequential 1L samples, collected with aerators on, after the minimum 6 hours stagnant period.

We are asking for your input and approval to proceed with this project. In addition, we look for feedback as to whether homeowners should be encouraged to flush their home plumbing after re-connection, but before the 72-hr sampling, with the aerators off.

Your thoughts on this are appreciated.

Lon A. Couillard

Water Quality Manager

Milwaukee Water Works

414-286-2226

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