

From: da Silva, Allegra K.
Sent: Thu, 30 Jul 2015 19:01:23 +0000
To: Daniel Nix
Subject: RE: Regulating emerging contaminants in the U.S. - can of worms I opened
Attachments: Henderson et al Water Res 43 863 2009.pdf, Ozone Science & Engineering, 2012.pdf

Daniel,

Attached are 2 EEM papers that you might find interesting. Take a look at the introductory material in each of the papers where EEM is described as a monitoring tool. I'm not certain whether it can distinguish pool water specifically, but it can be used to find water with wastewater impact. If you want to learn more about EEM as a tool I'd be happy to set up a conference call with Dr. Martha Wells at TTU who is an expert and worked with us on our Raleigh potable water reuse study.

I apologize it's taken me several days to get these to you – I was waylaid in Cincinnati earlier in the week on a cancelled flight. It was a fun trip. Kati Bell and I met with scientists from EPA's National Exposure Research Laboratory to learn more about their laboratory capabilities. The team there is doing chemical and microbial analysis on samples taken from Brownwood, Big Spring, and El Paso. Are you familiar with that project? They're looking at log removals through the wastewater treatment plants (not the advanced water purification plants). They're trying to characterize how much removal occurs in the WWTPs upstream of DPR.

Best regards,
Allegra

From: Daniel Nix [mailto:daniel.nix@wichitafallstx.gov]
Sent: Friday, July 24, 2015 4:05 PM
To: da Silva, Allegra K. <dasilvaak@cdmsmith.com>
Subject: Re: Regulating emerging contaminants in the U.S. - can of worms I opened

Oh, I will probably be taking care of horses. (That's a given)
But, I am a voracious reader. So, I will always find time to read.
Have a good weekend.

On Fri, Jul 24, 2015 at 5:02 PM, da Silva, Allegra K. <dasilvaak@cdmsmith.com> wrote:

Hi Daniel,

I'm stepping out of the "office" at the moment (my basement office) but will get you some materials on excitation emission matrix (EEM) spectroscopy early next week.

Have a great weekend. I hope you can just relax and not read about pharmaceuticals and personal care products! Don't you have a horse or two to go take care of?

Allegra

From: Daniel Nix [mailto:daniel.nix@wichitafallstx.gov]
Sent: Friday, July 24, 2015 3:57 PM

To: da Silva, Allegra K.

Subject: Re: Regulating emerging contaminants in the U.S. - can of worms I opened

Allegra,

You know how to make me happy. (Send me reading material) Thank you. I will digest all of this over the weekend and will probably have a ton of things to talk to you about.

I was trying to remember the name of the new analysis that you showed me Friday night, that shows a red/yellow spectrum on a blue background. What was it called? I am interested in pursuing some of that equipment and investigating if it has other applications, such as determining the source of unknown waters (i.e. is it groundwater, sewage, drinking water or swimming pool water).

On Fri, Jul 24, 2015 at 8:38 AM, da Silva, Allegra K. <dasilvaak@cdmsmith.com> wrote:

Daniel,

You might find these resources on CECs useful to file away. In the 2 reports there is a good summary of regulations pertaining to CECs. The powerpoint slides are great if you ever have to give a public presentation on CECs.

WRF has published a primer (4387a) that distills current knowledge on endocrine disrupting compounds (EDCs) and pharmaceutical and personal care product (PPCP) ingredients in source and drinking water, including information on occurrence, potential health effects, regulatory programs, treatment methods, monitoring, and communication approaches. The primer will help water utilities understand the issues, develop strategies to address them, and communicate to the public.

- Pharmaceuticals and Endocrine Disrupting Compounds in Water A Primer for Public Outreach (attached)

In addition, a report (4387b) was published that includes a comprehensive overview of EDCs and PPCPs in water. Lastly, a slide deck was developed on EDCs and PPCPs that utilities can use in their own presentations.

- A Comprehensive Overview of EDCs and PPCPs in Water (attached)
- 4387 Presentation

Cheers,
Allegra

From: Daniel Nix [mailto:daniel.nix@wichitafallstx.gov]
Sent: Thursday, July 23, 2015 9:10 AM

To: da Silva, Allegra K.

Subject: Re: Regulating emerging contaminants in the U.S. - can of worms I opened

Allegra,

Unfortunately, I had my dates wrong for when I was leaving Denver. I will be heading back to WF today at noon. :-(

I hate that it has turned into such a short trip. But, we can definitely get together the next time I am in Denver and catch some jazz. We will have to plan it out next time.

I hope you and your family get to feeling better.

Thanks for everything.

On Jul 22, 2015 12:43 PM, "Daniel Nix" <daniel.nix@wichitafallstx.gov> wrote:

Allegra,

Thanks for the follow-up information. I will read through it tonight after dinner.

I hope you guys get to feeling better. I know what you mean about hitting the ground running. I was equally busy this weekend too.

I will drop you an e-mail tomorrow about the potential for some food and music tomorrow night.

And, the address for Dustin, Jenna and Kelton is:

The Hightowers

14403 County Road 1715

Lubbock, TX 79424

Hope to see you soon. I will be in touch.

On Jul 22, 2015 11:26 AM, "da Silva, Allegra K." <dasilvaak@cdmsmith.com> wrote:

Daniel,

I apologize I didn't get back to you earlier regarding your text about the possibility of emerging contaminants not being regulated for political reasons. When I got home I hit the ground running with the two kiddos. I recall mentioning to you that I felt that EPA potentially regulating CECs/PPCPs was political in nature, rather than purely based on scientific underpinnings. In other words, I feel like any federal agency does things based on the priorities set by the Administrator, administration more generally, and by the interests of Congress, rather than by the scientific evidence alone. (This is based on my experience working at USAID and collaborating with EPA, rather than specific knowledge of the rulemaking process around the UCMR3 lists, for example.) I think we all feel this way to some extent. You may think I have some inside regulatory insight but unfortunately I do not.

Monday I did a bit of research to try to see if I could find anything from AWWA or Susan Crawford that would be interesting to pass on to you regarding emerging contaminants regulations. Attached is Alan Roberson's 2015 projections article – you may have already seen it. One piece hits on the theme of political priorities – the

constraints that the EPA is facing and the need to balance internal priorities for resources (see excerpt below). This is probably not as juicy of information as you were hoping from me!

Regulatory delays. Proposals for perchlorate, long-term revisions to the Lead and Copper Rule (LCR), and carcinogenic volatile organic compounds have all been delayed a year or two and are not anticipated to be proposed until very late in 2015 or, more likely, in 2016. These delays can be attributed to multiple priorities competing for limited funds. Comparing fiscal year 2015 with fiscal year 2010, for example, the USEPA budget has been reduced by \$2.2 billion (22%), and the agency's staffing levels are anticipated to be reduced to the lowest levels since 1989. These continued reductions could mean even more regulatory delays in the future.

A Working Group under the National Drinking Water Advisory Council (NDWAC) met throughout 2014 to develop recommendations for the long-term LCR revisions. The report from this Working Group should be completed in mid-2015, and then the report will be sent to the full NDWAC later in the year. USEPA will then assess how the recommendations could be incorporated into the proposed revisions during the second half of 2015 or, more likely, in 2016.

We will also see the third Six-Year Review of Drinking Water Standards in 2016. As previously discussed, chlorate and nitrosamines are being evaluated as part of the review of the microbial/disinfection by-products regulations. Hexavalent chromium (CrVI) will likely be discussed in the context of the review of the current total chromium regulation, and it is not clear whether USEPA is going to regulate CrVI separately.

Separately, I hope that your meeting is going well here in Denver. If you do have some time free on Thursday evening please let me know. If my husband Jon and I are healthy we'd love to join you for some music. (We're all trying to kick a bit of a cold, but I think things are turning in the right direction.)

Finally, could you please send me Jenna, Dustin, and Kelton's full names and mailing address? I'd like to drop them a note.

Thanks,
Allegra

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Those who have the privilege to know have the duty to act. ~Albert Einstein

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