

Advisory Panel on Emerging Contaminants
Unregulated Chemical Contaminant Committee

Date: July 25, 2013

Time: 10:00 AM - Noon

Location: Town of Marana Municipal Complex (11555 W. Civic Center Drive)
Call-in: 1-800-353-1667
Code: 442672

**Subject: Unregulated Chemical Contaminant Committee
Task Meeting**

1. Welcome and Introductions

- John Kmiec, Laura McCasland, (in Marana)
- Mark Brusseau, Daniel Perez, Pejman Eshragih, Doyle Wilson, Cathy Propper, Alissa Coes, Randy Gottler (phone)

2. Review of White Paper Draft Outline

Review and discussion on the four major sections of the draft document.

Section 1. Introduction

1.1 Background-This section should include major works in the area of emerging contaminants (USGS 1999-2000 river study, etc.). How the APEC came to be; 2010 Blue Ribbon Panel. Definition of Emerging/Unregulated Chemical Contaminant here?

1.2 Types and Sources of waters that may be affected. Define the waters for the reader.

1.3 How water is used throughout the state and the uses relate to drinking water

1.4 Description of the Urban Water Cycle. Utilize work by the Watereuse Association for reference. Review info on www.athirstyplanet.com.

1.5 Human Exposure Pathways. Focus on drinking water, reclaimed water, surface waters?

People interested in participating in Section 1: Doyle Wilson, Cathy Propper, Randy Gottler, Laura McCasland, John Kmiec. John Kmiec volunteered to be the facilitator of Section 1.

Section 2. Emerging Chemical Contaminants Found in Arizona Waters.

-Detailed discussion on the types of compounds currently looked at within the state. General consensus that the base of contaminants reviewed should come from the ALEC list generated at UofA.

-List should also include other compounds that are of interest to the members of the group that may not be on the current ALEC list.

2.1 The List

It is anticipated that graduate students at the UofA may assist in drafting the background information on each of the compounds identified to be reviewed by this section. Discussion with Snyder and Abrell is necessary to confirm and organize.

2.2 Other Compounds of Interest.

This section was decided by consensus that this white paper should also address other compounds that are currently under federal review (CCL3, etc.). Compounds that need to be addressed should include products like 1,4-Dioxane, Perchlorate, PFOS/PFOA, etc.

People interested in participating in Section 2: Doyle Wilson, Alissa Coes, need to contact Shane Snyder and Leif Abrell. Doyle Wilson has volunteered to begin the process and coordinate with Dr. Snyder.

Section 3. Information & Recommendation for Utilities

-Information in this section is designed to provide general information and guidance to utilities who may wish to begin a sampling program on their own, or through coordination with federal or state agencies that are conducting research.

3.1 Major Utility Efforts

- This section is offered for utilities that have conducted research an opportunity to give an executive summary of the type of work and results that they have generated. Utilities asked to participate may include, but are not limited to: Lake Havasu City, Tucson Water, City of Scottsdale, and Flagstaff.

3.2 Current Treatment Technologies

-Intent of this section is to give information on current treatment techniques that may be utilized to perform a confident reduction (>90%) of contaminants through treatment.
-Thought is to possibly have a table which includes the contaminants from Section 2 listed against treatment techniques. Table would mark which techniques are proven effective, or should be effective based on chemical properties.

3.2.1 Advanced Treatment Utilities

- This section to highlight some advanced treatment facilities in service nationally or globally. Could include Orange County Water District, Singapore, Scottsdale?, etc.

3.3 Laboratories

-Discussion on this section focused on whether or not to include information on laboratories that may be able to assist utilities in a sampling program. Instead of focusing on labs that can do work, the group consensus was more comfortable with preparing a list of FAQs that

may assist a utility in interviewing laboratories to gain confidence that the unregulated analysis could be conducted.

People interested in participating in Section 3.: Laura McCasland, Doyle Wilson, Mark Brusseau, Cathy Propper, Brad Hill (Flagstaff info), Dan Quintanar (Tucson Water info). Doyle Wilson has volunteered to facilitate this section.

Section 4. Recommendations for the Public.

- This section is designed to provide general information to the public on what they could do to decrease and likely exposure to trace amounts of compounds, and assist in diversion programs to reduce the likely introduction of compounds into the water cycle.

4.1 Point of Use Devices (PODs)

- Discussion on the Good housekeeping research conducted by UofA. Also may include discussion of any research conducted on POU devices by the NSF.

4.2 Take Back Programs

- provide general description of take back programs that are present within the state.
-include summary of the Pima County program, programs in Maricopa County, any participating pharmacies that may have a program.
-This section may also include the value of diversion programs. The programs not only assist the long term impact on the regional water cycle, but diversion programs create an acute solution to counter drug abuse and illicit distribution of prescription drugs from within a community. Discussion should include the Law Enforcement partnerships that may assist utilities in developing diversion programs.

4.3 Quality over Quantity.

-This discussion should focus on the proper use of a quantity of a known chemical that may persist in the environment. If a certain compound is used by a consumer, emphasis should be placed on the proper use and disposal of that compound so as to avoid any exposure to the environment that may be caused by unnecessary 'over use.'

People interested in participating in Section 4. Doyle Wilson, Pejman Eshragih, Cathy Propper, John Kmiec, Laura McCasland, Dr. Snyder? Jeff Prevatt. Pejman Eshragih has volunteered to facilitate this section.

Section 5. Summary/Discussion

-It was decided by consensus that this section will be put on hold until Sections 1 through 4 are near complete (90%). When this occurs, a small group will convene to finalize the section and the white paper.

3. Schedule next meeting, Logistics, and Action Items review

- After minutes are sent out, facilitators for each group are expected to make contact with the members of their group and begin the process of creating the section narratives with review.

4. Adjourn

- a. 11:50 am