



focus on comments to TERA's proposal for the mechanism of action by which 1,4-dioxane causes cancer.

- b) PFCs Workgroup: The group did not meet this past quarter. Joy has received information on studies from Bob Delaney that would need to be discussed by the Subcommittee. DCH has some PFC data from the Great Lakes Initiative (GRLI) project which has not been processed. Upon inquiry of possibly getting an EPA grant for PFC related work, Linda indicated that EPA priority is on habitat restoration and control of invasive species rather than human health. Jennifer completed a guidance document for PFOS in fish: Technical Support Document for Assessment of Perfluorinated Chemicals and Selection of a Perfluorooctane Sulfonate (PFOS) Reference Dose as the basis for Michigan Fish Consumption Screening Values (FCSVs). This document is available at the DCH website: [http://www.michigan.gov/documents/mdch/MDCH\\_PFOS\\_Health\\_Consultation\\_2014\\_468766\\_7.pdf](http://www.michigan.gov/documents/mdch/MDCH_PFOS_Health_Consultation_2014_468766_7.pdf). Jennifer explained that her assessment and numbers match that done by Amy (Water Division) and are right around EPA's numbers.

#### Updates from DEQ, DCH and MDA:

- a) The issue of harmful algal blooms (HAB) was discussed. Linda shared what DCH is doing. A Council of State Territorial Epidemiologist fellow is working with Linda's group on the HAB. They plan to form an interdepartmental group which will include DEQ, DARD, DNR and DCH. Shannon shared information on microcystin. Her group noted that the dermal exposure (e.g. bathing) may be a greater impact than drinking the water. The current microcystin criterion is 1.0 ppb (ug/L). Japan uses a 0.5 ppb level. EPA is doing an assessment that may be out for peer review in December but they are not sharing information yet. It was suggested that the Toledo, OH report could be checked for dermal effects. Shannon informed the group that Water Resources Division (WRD) has some monitoring data for microcystin. Mr. Mike Walterhouse (WRD) is the contact for the monitoring data. Linda noted that the DCH concern is the presence of HABs in bigger bodies of water. One of their deliverables for climate change is the work on HABs.
- b) Emily presented literature search options (CAS search, Google scholar, Medline, Web of Science, Scifinder, JSTOR), document delivery and library issues (complete updates, who updates in the future, 2 versions/front ends, and connectivity). Some members suggested Research Gate as another document delivery option. Emily plans to create a resource list for full text online and will talk to DTMB concerning the connectivity issue. She will also get more information on costs for Scifinder as it is an easier to use interface for CAS searches. She noted some areas for training for TSG members on the use of the search options mentioned. Several TSG members expressed interest in having informational meetings where Emily could give pointers on how to do a thorough and efficient online literature search.

#### Others:

- a) Mike finalized the 2013 TSG draft report.
- b) The Michigan Triennial Report, Emerging Contaminant section contained the following emerging contaminants that may be of concern to Michigan.
- Pharmaceuticals and Personal Care Products
  - Perfluorinated Compounds
  - Polychlorinated Naphthalenes
  - Nanomaterials
  - n-Propyl bromide
  - Endocrine disruptors

- Bisphenol A
  - Triclosan
  - Microplastics
- c) Eric inquired if the TSG group would like to do a Brown Bag Lab tour at MSU with John Buchweitz. John, a former TSG member, is the Toxicology Section Chief of the MSU Diagnostic Center for Population and Animal Health. Many members expressed interest in the tour.
- d) The group was asked whether the TSG webpage needs to be maintained, and if so, should it be updated into a more useful source of information. Eric shared similar toxicology or risk assessment web pages of other states with the group. Divinia will check if the TSG policy contains a mandate for a webpage or ask Jim if the webpage is necessary.

Next meeting:

Date: December 9, Tuesday, 9-11 a.m., Lillian Hatcher Conference Room, Constitution Hall.