

Approved Minutes of the Technical Advisory Committee Meeting  
July 16, 2013

**Attendees:** Roger Thompson                      Albert Dheeroh  
Mike Carbonneau                      Steve Revell  
Peter Boemig                      Denise Johnson-Terk  
Gunner McCain                      Steve Rebillard  
Ernie Christianson                      Claude Chevalier  
Ken White                      Anne Whiteley  
Rodney Pingree                      Scott Stewart  
Ellen Parr Doering

**Scheduled meetings:**

August 27, 2013	1-4 PM	Winooski Con. Rm., National Life – Montpelier
September 10, 2013	1-4 PM	Winooski Con. Rm., National Life – Montpelier
October 15, 2013	1-4 PM	Winooski Con. Rm., National Life – Montpelier

**Agenda:**

Accepted

**Minutes:**

The minutes from the June 18, 2013 meeting were accepted as drafted.

**Opening Comments:**

Steve said that he appreciated the recent designer training that was done at the North Hero State Park, particularly the wetlands training. He said that there was some good discussion about installation of replacement wastewater disposal systems within the wetlands buffer area but is concerned about the 100 day time frame for decisions when a permit is required. He asked about a process to expedite these decisions. The wetlands staff said they would do what they can. Permits related to real estate transactions are taking about 100 days. Gunner said he has the same concerns and that stormwater permits are even worse with a 150 day time frame. The wetlands program has added a staff member but still has fewer people than in the past. There was discussion about whether there is something about the process that really requires 100 or 150 days or is it a case that the department could just self-impose a 30 day time frame that once implemented would be no more difficult to meet. Ellen said that she would look into these issues and see what might be done to improve the situation.

The next TAC meetings will be August 27<sup>th</sup>, September 10<sup>th</sup>, and October 15<sup>th</sup>. Anne asked that the September meeting be in early part of the month so that the TAC could have another chance to comment on the Underground Injection Control Rules (UIC) prior to moving into the adoption process.

Steve said that he liked the presentation made at the last meeting by Dave Presby and his staff. He made a strong recommendation that Mr. Presby refrain from disparaging competitor's products and instead focus on the advantages of his own.

### **Water Supply Rules (WSR):**

Ernie led a discussion of the proposed updates to the WSR working from draft #8 of Subchapter 11, dated 7/9/2013.

Peter said that it would be helpful to add a step by step description of the application process. Roger agreed it would be a good idea but maybe should be in a separate document in case things about the application process needed to be revised prior to a rule update. Ernie agreed with the need for the information and thinks a separate document would be the best approach.

Ernie said that all of the design flow numbers in this draft are for projects connected to a Potable Water Supply as defined in the Wastewater System and Potable Water Supply Rules (WWR). The water supply design flow numbers vary in a few instances when the project is connected to a Public Water Supply as defined in the WSR.

Ken asked about the permit exemption related to replacement drilled wells for single family residences. Ernie said that the exemption was only that a permit is not required but the well construction must meet all of the requirements related to isolation distances and construction methods.

Permits are also not required for work relating to restoring function of existing wells that are Potable Water Supplies, including hydrofracturing to restore or improve well yield.

Permits are required for any work on wells that are Public Water Supplies if the result is that the well yields more water, even if the work was only intended to restore the original yield.

Scott asked that section 1104(d) be modified to include springs and other sources not considered to be drilled wells. He suggested using the term drinking water sources. There was also discussion about the isolation distances required to wells when the water is drawn from shallow aquifers not protected by layers of slowly permeable soil.

Ken is concerned about the draft language related to well interference testing and asked if interference testing is required for wells serving single family residences when the wells are located at least 200' apart. Ernie said this would be a rare situation and only when there is significant evidence that interference is likely to occur. Steve asked how this

decision would be made so that people can understand how it might apply. Roger asked if, despite changes in the language in the draft rules, this section is intended only to document what has been required in the past. Ernie agreed that the new language does not change the past requirements.

Anne asked if the requirements for calculating the two-year time-of-travel should be included in both the water supply and wastewater system sections or only in one. Roger suggested both places as a particular permit application may deal with only water or wastewater systems.

Roger suggested deleting the new language in (c) of this section related to determining that there will be reasonable pathogen attenuation, saying that the whole concept of the two-year time-of-travel calculation is that two years of travel will result in an acceptable level of pathogen attenuation.

Roger suggested changing the title Water System Quantity to Storage Requirements. He also asked if the language needed clarification related to geothermal systems so that standing column wells would not be subject to excess requirements.

The group recommends putting all of the water storage requirements into one section in the rules.

Roger suggested deleting (a)(2) of the section on long term yield analysis as unneeded.

Scott reviewed the language on calculating the amount of water stored in the well (casing storage). The language should be revised because the well casing usually does not extend to the full depth of the well. Scott said that he is OK with using the depth of the well pump rather than determining the hydraulic base of the well but thinks that the equation should include the steps needed to calculate the volume of the well bore which varies depending on the size of the well bore. Others feel that this is such a basic concept that it does not need to be documented in the rules. Ernie and Roger said to make the process and equation as simple as possible.

Section 1108(e) should be clarified that it applies only to determinations of whether a well can meet the requirements for peak instantaneous yield, not long term yield.

Roger said that section 1109 should include wells that are permitted but not constructed. Ernie and others disagreed because of the difficulty of making a determination that interference will occur except by monitoring an existing well while pumping the source well.

Ernie will circulate an updated draft prior to the next meeting.

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**Executive Committee**

Steve Revell, Ernest Christianson, Roger Thompson

Alternates – Chris Thompson, Spencer Harris, Claude Chevalier, Craig Heindel

**Subcommittees:**

**Hydrogeology**

Craig Heindel, Bill Zabiloski, Mark Bannon, Scott Stewart, Steve Revell, Mary Clark, Roger Thompson, Peter Boemig, Ernie Christianson, Spencer Harris

**UIC Rules**

Craig Heindel, Steve Revell, Roger Thompson, Ernie Christianson, Scott Stewart, Rodney Pingree, Kim Greenwood, Cindy Parks, John Beauchamp, Gail Center

**Wastewater Strength**

Mary Clark, Cindy Parks, Peter Boemig, Bill Zabiloski, Roger Thompson, John Akielaszek,

**Bottomless Sand Filters**

Peter Boemig, Mark Bannon, Cindy Parks, Mary Clark, Denise Johnson-Terk, Craig Heindel, Ernie Christianson

**Seasonal High Water Table Monitoring**

Craig Heindel, Steve Revell, Roger Thompson, Ernie Christianson, Bill Zabiloski, Dan Wilcox, Mary Clark