

**From:** Mark Southard  
**Sent:** Thu, 15 Jan 2015 14:23:25 -0600  
**To:** David Sloan  
**Cc:** Daniel Nix (Wichita Falls)  
**Subject:** Re: Draft Materials for TCEQ Meeting

David,

No problem. I knew you would be busy traveling, etc., so I am glad it was helpful.

Thanks

On Thu, Jan 15, 2015 at 1:44 PM, David Sloan <[DWS@freese.com](mailto:DWS@freese.com)> wrote:

Mark: Sorry I didn't respond back on this as things Tuesday were pretty crazy. This was perfect and I included it as you sent it. I think this was very helpful in emphasizing the excellent, consistent operation of the DPR facility.

Thanks for your help.

**DAVID SLOAN / FREESE AND NICHOLS, INC.**

**From:** Mark Southard [mailto:[mark.southard@wichitafallstx.gov](mailto:mark.southard@wichitafallstx.gov)]  
**Sent:** Tuesday, January 13, 2015 4:04 PM

**To:** David Sloan  
**Subject:** Re: Draft Materials for TCEQ Meeting

David,

I gave you the wrong response on the IR for Giardia and Virus. What I have provided in the spreadsheet is the minimum Log removal for Giardia and Virus, NOT the IR.

I've added some more data, so take a look at the updated info and message it as you would like.

Let me know if you want anything else.

Thanks,

On Mon, Jan 12, 2015 at 3:15 PM, Mark Southard <[mark.southard@wichitafallstx.gov](mailto:mark.southard@wichitafallstx.gov)> wrote:

David,

See my responses below.

On Mon, Jan 12, 2015 at 2:17 PM, David Sloan <[DWS@freese.com](mailto:DWS@freese.com)> wrote:

Mark, this is capturing most of the info I was after. A couple of questions and suggestions:

1. If my math is right, the facility has produced 5 MGD every day since July 9, even through the period of membrane replacements. Is this correct? **You are correct. We only changed out 1 RO train at a time, so that we could continue with our current treatment throughout the process.**
2. I want to make sure I understand the IR numbers. Are these IR for the DPR facility only, based on 4 log virus, 3 log Giardia, or are these the log removal values? **These are the IR for the DPR facility only, based on 5 log virus and 2 log Giardia.**
3. Might be good to show the IR or log removal for the conventional treatment as well. **I can certainly add that.**
4. If you can make a comprehensive statement about measured water quality parameters (All except x, y, z below detection levels for sampling events on date1 and date2) or something along those lines, that might be a nice add. **I will see what I can add here also.**
5. May want to add maximum percentage of DPR. **Our reporting only requires the maximum 15-minute DPR percentage, but we do not have any daily averaging (This is so we don't exceed a 55% blend on any 15-minute reading). I could go back through my forms and get that based on the maximum daily average DPR percentage, but I wouldn't be able to complete it before Wednesday.**

Thanks!

DAVID SLOAN / FREESE AND NICHOLS, INC.

**From:** Mark Southard [mailto:[mark.southard@wichitafallstx.gov](mailto:mark.southard@wichitafallstx.gov)]

**Sent:** Monday, January 12, 2015 11:04 AM

**To:** David Sloan

**Subject:** Re: Draft Materials for TCEQ Meeting

David,

Take a look at what I've added for the summary. There isn't a lot in it so far, so let me know if there is anything else specific you would like me to add, or if any of the information currently in the form is not needed. I will dress it up a little more after you look over it.

Thanks,

On Fri, Jan 9, 2015 at 3:47 PM, David Sloan <[DWS@freese.com](mailto:DWS@freese.com)> wrote:

Russell: I think I've got everything rounded up for next Wednesday. Attached please find the following:

1. Meeting Agenda
2. Concept Summary (updated to include discussion of updated drought modeling results per our conversation)
3. Historical and projected Lake Levels (Scenarios 1 and 2 only, for simplicity)
4. Recent dissolved solids summary graphs
5. Projected Blended Water Quality tables
6. Updated CT Study schematic, showing introduction of Kemp water, UV disinfection and supplemental pumping from lagoon

7. Disinfection Inactivation Summary for full membrane capacity
8. Proposed Blend Ratio Accounting
9. Proposed Step-wise Implementation
10. Proposed modifications to TCEQ conditions

This, along with the DPR operational summary to date being prepared by the city, is what I propose we show and discuss with TCEQ. Still open to your thoughts. I'll be out of pocket quite a bit on Tuesday with a trip to Houston, but I'm sure we can work out any changes needed.

Have a great weekend,

**DAVID W. SLOAN, P.E., BCEE**

**SENIOR PROCESS ENGINEER**

**BOARD CERTIFIED ENVIRONMENTAL ENGINEER**



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