

From: David Sloan
Sent: Fri, 19 Jul 2013 15:28:05 -0500
To: Daniel Nix
Subject: RE: Removal Credit

We have not had explicit log removal requirements. Pilot testing showed that after MF/RO treatment, there was no detection of Crypto, Giardia or Virus. Based on that, in 2010 they considered the treatment to be adequate, provided all the pilot conditions were met. Included in that was a requirement for a free chlorine residual of 1.0 mg/l in the effluent (our source water), although it was never actually free chlorine. When we went to document the UV treatment in lieu of the free chlorine requirement, they imposed a 4-log virus inactivation requirement documented by the UV system in lieu of the free chlorine in the source water. My understanding is that the MF system can provide a 4-log Crypto removal, but that has not been an explicit requirement. We will be conducting monthly Crypto and Giardia for 24 months beginning this fall.

Obviously, in the CRMWD case, the log removals are in addition to those provided by the surface water treatment plants which receive the blended water.

DAVID SLOAN / FREESE AND NICHOLS, INC.

From: Daniel Nix [mailto:daniel.nix@wichitafallstx.gov]
Sent: Friday, July 19, 2013 2:25 PM
To: David Sloan
Subject: Removal Credit

Can you tell me what the TCEQ is requiring for log removal of Cryptosporidium, Giardia and Virus at Big Spring?

For us (so far) they are requiring 5.5 log removal of Cryptosporidium, 7 log for Giardia and 9 log for Virus.

How did the TCEQ set the log removals for Big Spring? Was it based on historical concentrations coming out of the Wastewater Effluent?

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

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