

**From:** [dave.drwgcl.com](mailto:dave.drwgcl.com)  
**To:** [Nahum Lee](#)  
**Cc:** [Angela Love](#)  
**Subject:** RE: Closure and Reclamation Plan  
**Date:** Friday, October 4, 2024 11:30:11 AM

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No problem Nahum.

I was looking at the high ammonia you mentioned from our water samples. In 2020 I reported these results and I was informed that I needed to process that data using a well known formula that takes temperature and pH into account as the ammonia we have reported is total N as ammonia.

There are a number of sites, but I last used <https://www.svl.net/unionized-amonia-calculator/> . Here I input the measurements 15.7 C and 7.9 pH to get 3.965 ppm unionized ammonia for SNP 8 and 0.400 ppm for SNP 9.

The SNP 8 measurement of our sump is heavily influenced by the ammonia-based explosives we use. We have protocols in place to minimize spillage, and excess use. SNP-9 is the small sump immediately down gradient from our muckpiles and is undoubtedly influenced by excess ammonia-based fertilizer in the rock. There are additional ways we can mitigate this that we are willing to try. Should we discuss this further?

Dave

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