

**From:** Englander, David  
**Sent:** Wednesday, May 8, 2019 9:11 AM  
**To:** Kate Webb; [pbaruth@leg.state.vt.us](mailto:pbaruth@leg.state.vt.us)  
**Subject:** Parts Per Billion Reporting - Explanation Only

Honorable Chairs:

In discussing the reporting levels with Health laboratorians, I thought it might be useful to share how the outputs work.

The Health Lab machines calculate in mg/L, the result of which goes into the data systems that rounds to the thousandth place (rounded to the closest thousandth, with .0005 rounded up), which is then translated into whole numbers in ppb automatically.

Thus: 0.0045 mg/L - > 0.005 mg/L = 5 ppb

So, as practical matter, the Senate version of S.40 would have action take place at 3.5, because it would be rounded up to 4, and the House version would have action take place at 4.5, because it would be rounded up to 5.

(I've slaved over that second sentenced for a long time hoping to make it as understandable as possible, I hope I have succeeded. )

Best,  
David

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