



DL / LOD / LOQ

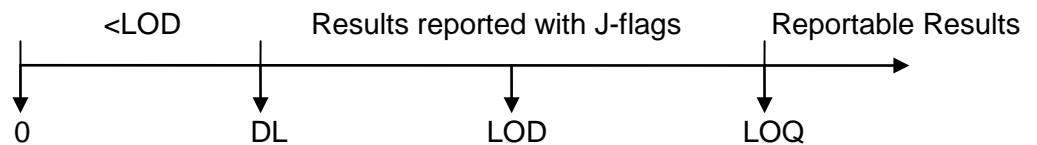
## DETECTION LIMIT TERMINOLOGY

(Revised November 2013)

SGS Alaska has updated the terminology for detection limits in accordance with industry standards. The maximum Method Detection Limit (MDL) is called a Detection Limit (DL) and the Practical Quantitative Limit (PQL) is called a Limit of Quantitation (LOQ). Effective mid-November 2013, the Limit of Detection (LOD) now equals  $\frac{1}{2} \times \text{LOQ}$ .

### TERMINOLOGY PER ISO 17025/DOD QSM V5:

DL – Detection Limit  
LOD – Limit of Detection  
LOQ – Limit of Quantitation



- Results between the DL and the LOQ will be reported with J-flags.
- Any result between the 0 and the DL will be reported as “less than the (LOD Value)” with a U-flag.
- For example, if the DL = 1, LOD = 1.5 and LOQ = 3, then a result of:
  - 2.9 would be reported as 2.9 J
  - 1.1 would be reported as 1.1 J
  - 0.9 would be reported as 1.5 U

As a result of this change (previously, the LOD was equal to  $2 \times \text{DL}$ ), you will see some slight changes if you were trending non-detect data at the LOD level; however, the DL and LOQ values will not change. Using the example listed above, the LOD would have been 2.0 prior to mid-November 2013 and it is now 1.5.

Please contact your Project Manager if you have any questions. Thank you.