

Notes on Standard Method B and Standard Method C Formula Values

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Potable Groundwater

Groundwater concentrations that are **protective of human health** under standard Method B and standard Method C using the equations and default values provided in the regulation are accessible in the CLARC Information System using the CLARC Database Search tool. See WAC 173-340-720(4)(b)(iii) and 173-340-720(5)(b)(iii).

The following equations were used:

- Equation 720-1 (non-carcinogens)
- Equation 720-2 (carcinogens)

The pre-calculated values are **NOT** cleanup levels. The values **DO NOT** account for the following:

- Consideration of applicable state and federal laws;
- Consideration of surface water impacts;
- Consideration of total site risk;
- Consideration of the NAPL limitation;
- Consideration of natural background concentrations; and
- Consideration of practical quantitation limits.

Surface Water

Surface water concentrations that are **protective of human health** under standard Method B and standard Method C using the equations and default values provided in the regulation are accessible in the CLARC Information System using the CLARC Database Search tool. See WAC 173-340-730(3)(b)(iii) and 173-340-730(4)(b)(iii).

The following equations were used:

- Equation 730-1 (non-carcinogens)
- Equation 730-2 (carcinogens)

The pre-calculated values are **NOT** cleanup levels. The values **DO NOT** account for the following:

- Consideration of applicable state and federal laws;
- Consideration of ecological impacts;
- Consideration of total site risk;
- Consideration of the NAPL limitation;
- Consideration of natural background concentrations; and
- Consideration of practical quantitation limits.

Air

Air concentrations that are **protective of human health** under standard Method B and standard Method C using the equations and default values provided in the regulation are accessible in the CLARC Information System using the CLARC Database Search tool. See WAC 173-340-750(3)(b)(ii) and 173-340-750(4)(b)(ii). The following equations were used:

- Equation 750-1 (non-carcinogens)
- Equation 750-2 (carcinogens)

The pre-calculated values are **NOT** cleanup levels. The values **DO NOT** account for the following:

- Consideration of applicable state and federal laws;
- Consideration of the lower explosive limit limitation;
- Consideration of total site risk;
- Consideration of natural background concentrations; and
- Consideration of practical quantitation limits.

Soil

Soil concentrations that are **protective of human health** under standard Method B (unrestricted land use) and standard Method C (industrial land use) for both the **direct contact pathway (ingestion only)** and the **leaching pathway** (protection of ground water) are accessible in the CLARC Information System using the CLARC Database Search tool. Protective concentrations based on the **direct contact pathway (ingestion only)** were calculated using the equations and default values provided in the regulation. See WAC 173-340-740(3)(b)(iii)(B) and 173-340-745(5)(b)(iii)(B).

The following equations were used:

- Equation 740-1 (Method B: non-carcinogens)
- Equation 740-2 (Method B: carcinogens)
- Equation 745-1 (Method C: non-carcinogens)
- Equation 745-2 (Method C: carcinogens)

Protective concentrations based on the **leaching pathway** were not precalculated. To calculate the soil concentration that is protective of ground water, use the “Workbooks and User’s Guide for Calculating Cleanup Levels” and download spreadsheet tool (MTCASGL10.XLS), located at

<https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools> [link updated June 2019]

The pre-calculated soil concentrations are **NOT** cleanup levels. The values **DO NOT** account for the following:

- Consideration of applicable state and federal laws;
- Consideration of ecological impacts;
- Consideration of dermal contact as part of the direct contact pathway;
- Consideration of residual saturation for protection of ground water;
- Consideration of the vapor pathway;
- Consideration of total site risk;
- Consideration of natural background concentrations; and
- Consideration of practical quantitation limits.

NOTE: The CLARC Information System does not provide pre-calculated values for petroleum mixtures for any media.

For more information, visit [Petroleum Cleanup Information on CLARC’s Guidance page](#) [link updated June 2019].