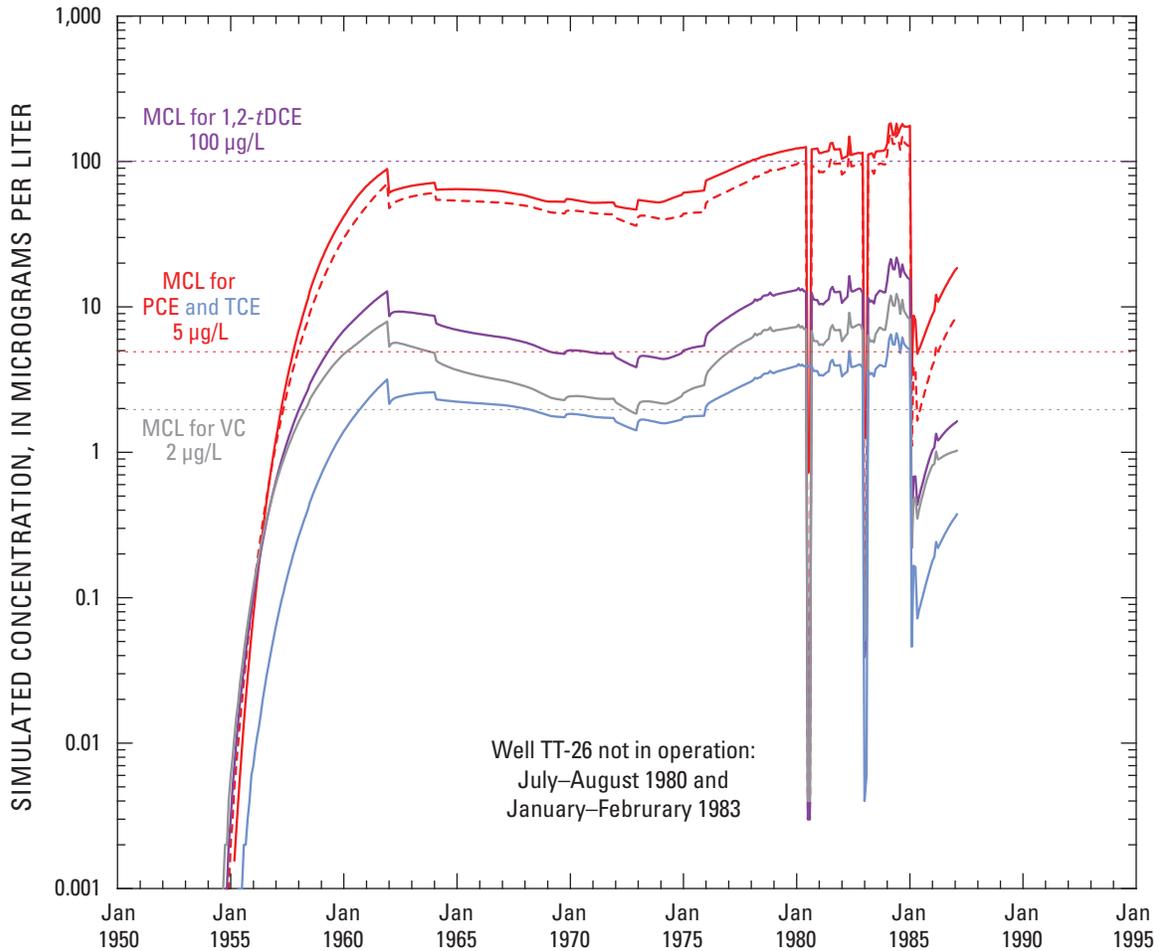


**Simulated concentration of tetrachloroethylene (PCE) and degradation by-products, trichloroethylene (TCE), *trans*-1,2-dichloroethylene (1,2-*t*DCE), and vinyl chloride (VC), in finished water at Tarawa Terrace Water Treatment Plant, U.S. Marine Corps Base Camp Lejeune, North Carolina**



Contaminant	Model
— PCE	— MT3DMS
- - - PCE	} TechFlowMP
— 1,2- <i>t</i> DCE	
— VC	
— TCE	

MCL = maximum contaminant level

Notes:  
 1. Simulation of PCE from MT3DMS model described in Chapter F (Faye, in press 2007)  
 2. Simulation of PCE and degradation by-products TCE, 1,2-*t*DCE, and VC from TechFlowMP model described in Chapter G (Jang and Aral, in press 2007)

**Notes:**

Based on data, information, and simulation, the Tarawa Terrace water treatment plant began operations during January 1952 and was closed during March 1987. Effective dates for MCLs are as follows: VC and TCE, January 9, 1989; PCE and 1,2-*t*DCE, July 6, 1992 (40 CFR, Section 141.60, Effective Dates, July 1, 2002, ed.).

**Reference:**

Maslia ML, Sautner JB, Faye RE, Suárez-Soto RJ, Aral MM, Grayman WM, Jang W, Wang J, Bove FJ, Ruckart PZ, Valenzuela C, Green JW Jr, Krueger AL. Analyses of Groundwater Flow, Contaminant Fate and Transport, and Distribution of Drinking Water at Tarawa Terrace and Vicinity, U.S. Marine Corps Base Camp Lejeune, North Carolina: Historical Reconstruction and Present-Day Conditions—Executive Summary. Atlanta, GA: Agency for Toxic Substances and Disease Registry; 2007.

**DISCLAIMER:** The documents, graphs, and water-modeling analysis results available at this Web site are provided as a service to the public for informational purposes. All data, analyses, and computer-simulation results have been reviewed for accuracy and completeness based on available information and current modeling assumptions. The results however, may not reflect the actual exposure of specific individuals to contaminants in the water system. In addition, more updated information, if and when obtained, may change interpretations presented herein.