

Bruce C. Braaten

Work Experience:

Minnesota Pollution Control Agency

9/1990 to present

Engineer Principal (5/10 - present) in Air Permit Unit:

Air permitting section's alternative energy technical and policy lead. Responsibilities include providing technical review, analysis, and application of air quality protection regulations and programs for alternative energy air permitting projects. Energy projects have included energy generation, combustion, incineration, and anaerobic digesters. Work on these projects have considered emerging pollutants of concern (such as PFAS) and greenhouse gas emissions. Guidance has been provided to internal (permitting staff, other MPCA units, and leadership) and external (permittees, EPA) parties. Additional overall position responsibilities include air permitting work on energy projects.

Engineer Senior (9/97 - 5/10), Engineer Graduate II (8/95 - 9/97) in Air Permit Unit:

Air quality permit engineer. Primary responsibilities included air permit issuance and associated project management for numerous industrial facility types. Permit issuance work has included project scheduling; technical evaluation of the industrial processes and air controls; determination of permit requirements; drafting the air emission permit and associated documents; project management of the MPCA team; and coordination with the proposer and interested parties. Project management involved organizing and leading multi-functional work teams. Critical to each permit issuance is the verification of the emission data quality and the technical evaluation of methodologies for estimating the emission data.

PCS Senior (9/90 -8/95) in Ground Water Policy Unit/Rochester Regional Office:

PSC Senior. Primary responsibilities included the review, analysis, development and administration of statewide ground water protection regulations and programs. This included being the project coordinator for the revision effort of MN Rules Chapter 7060 (ground water quality protection). The Rule 7060 revision effort included developing ground water protection requirements (anti-degradation) for the various NPDES and SDS surface water point and nonpoint MPCA programs that impact ground water. Legal, technical, and policy analysis for ground water protection and nonpoint best management practices. Team leader for Superfund cleanup policy and technical guidance development, including drafting "How Clean is Clean" Federal Superfund Reauthorization position paper for ASTSWMO (50 States' Superfund Directors).

University of Minnesota - Adjunct Professor

9/1994 to 12/2010

Taught "Environmental Law for Engineers" course at Civil & Mineral Engineering Dept. at the University of Minnesota. This course was offered for senior, graduate, and professional environmental engineers. The course covered the major environmental regulatory programs, including the Clean Air Act.

Education:

William Mitchell College of Law, St. Paul, MN

J.D.

University of Minnesota, Minneapolis, MN

M.S., Civil Engineer

B.S., Civil Engineer

Licenses:

Professional Engineer – Minnesota, Colorado

Attorney – Minnesota