

March 24, 2011

MEMORANDUM TO: James Rubenstone, Branch Chief
Repository Site Branch

FROM: John Bradbury **/RA/**

SUBJECT: SCIENTIFIC NOTEBOOK – INVENTORY BOOSTING ANALYSIS

Attached is a Scientific Notebook describing analyses performed in 2010 to determine the effect of the DOE method of inventory boosting on radionuclide flux in the saturated zone. The analyses involved one-dimensional simulations comparing the inventory boosted model with one that included ingrowth along the flowpath. Both models include advection, sorption and radioactive decay.