ATTACHMENT 30

AR # 529

E-mail re: Cost Tool for ERR Activities

529

McDonald, Jeffrey

From: Bayer, MaryRose
Sent: Wednesday, August 27, 2014 12:10 PM
To: McDonald, Jeffrey
Cc: Greenhagen, Andrew
Subject: Cost Tool for ERR activities

FutureGen originally provided an ERR cost estimate of $6.1 million, which fell below the lower bound of the "acceptable range of costs" generated by the Cost Tool for ERR activities. The ERR costs generated by the Cost Tool include costs for treating contaminated USDWs. One set of inputs used by the Cost Tool to estimate treatment costs is the duration of extraction well operation and extraction well O&M, which is based on 10th, 50th, and 90th percentiles of corresponding data from pump-and-treat groundwater remediation at Superfund sites (EPA, 2001). These percentiles correspond to 2, 18, and 30 years of treatment duration, respectively. Based on research conducted to date, EPA studies of Superfund groundwater remediation represent the best available source for costs of pump-and-treat operations; GS sites would be expected to use similar pump-and-treat techniques in case of contamination, but will likely require less complex treatment. In March 2014, EPA and FutureGen discussed and agreed upon revising the ERR cost estimate of $6.1 million to $26.7 million, a value close to the mid-range estimate generated by the Cost Tool. This estimate assumes 18 years of groundwater remediation, corresponding to the 50th percentile of pump-and-treat duration from EPA (2001).

Reference:

U.S. Environmental Protection Agency (EPA), Office of Solid Waste and Emergency Response. 2001. Groundwater Pump and Treat Systems: Summary of Selected Cost and Performance Information at Superfund-financed Sites. Washington, DC. Office of Solid Waste and Emergency Response. EPA 542-R-01-021b. http://www.epa.gov/tio/download/remed/542r01021b.pdf.

Regards,
Molly

Mary Rose Bayer
Geologist, UIC GS Team Leader
U.S. Environmental Protection Agency
Office of Ground Water & Drinking Water: Prevention Branch
Phone: (202) 564-1981