International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues (URAM-2018)



Contribution ID: 223

Type: POSTER

Effective and environmentally compliant in-situ recovery of sedimentary-hosted uranium (poster)

Wednesday, 27 June 2018 17:00 (1 hour)

This poster is the companion to the oral paper (Contribution 219) that reviews recent advancements in Development of in-situ recovery (ISR) projects for uranium including

I dedicated exploration/delineation methods and field tests for gathering deter-mining data,

 \boxtimes efficient lab tests and assays of core samples, including up-scaling methodolo-gy applied to (1D) column leach tests for a reliable feasibility study of (3D) field ISR,

Planning and optimization of ISR processing comprising I wellfield hydrology,

⊠ leaching chemistry,

 \boxtimes monitoring and process control,

 \boxtimes economics,

 \boxtimes environmental compliance,

Post-mining measures for ISR aquifer restauration in accordance to regulatory re-quirements including \boxtimes conceptual methodology (combining test procedures and model predictions) for ISR project development and permit procedure,

I monitoring and optimization.

The effective and environmentally compliant ISR of uranium will be demonstrated for recent ISR projects operated by Heathgate Resources in the Frome Basin, South Australia.

Country or International Organization

Australia

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