

Joseph Burch

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Sent: Thursday, January 18, 2018 9:31 AM
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Cc: HENNESSEY, BRIAN; PRATER, M PHILIP; Chris Bergren; Mike Griffith; Thomas Gaughan; Thelesia Oliver; Shelia Mcfalls; Dena Brett; Terry Killeen; Catherine Lewis; Jeffcj Ward; J Ross
Subject: R-Area Operable Unit In Situ Decommissioning Monitoring Well Results Notification

SRNS-J2000-2018-00036

Reference 1: R-Area Groundwater (NBN) Effectiveness Monitoring Report in Support of R Area Operable Unit (U) January 2016 through December 2016 (SRNS-RP-2017-00232, Revision 0, June 2017)

Savannah River Site (SRS) is providing the Core Team a courtesy notification of elevated results that were recently obtained from in-situ decommissioning (ISD) well RDB 3D. These results were not available for inclusion in the 2017 Effectiveness Monitoring Report (EMR) (Reference 1), but will be included in the June 30, 2019 EMR. At ISD well RDB 3D (not in the Monitored Natural Attenuation monitoring network), located south of the R-Reactor Disassembly Basin, both elevated tritium and carbon-14 were detected in the May 2017 ISD groundwater sample. The tritium concentration was 1,930 pCi/mL from well RDB 3D. In comparison, the tritium concentration was 11.5 pCi/mL for the previous (March 2012) ISD sample from well RDB 3D. The carbon-14 concentration was 141 pCi/L, as compared to a non-detect in 2012. This result was below the carbon-14 maximum contaminant level of 2,000 pCi/L (4 mrem equivalent). Confirmation samples collected in September 2017 yielded tritium and carbon-14 results similar to the May 2017 results. This was the only well with elevated results. As a contingency to identify trends, SRS will sample and analyze tritium and carbon-14 annually at wells: RDB 1D, RDB 2D, RDB 3D, RDB003DU, and RDB005C, since these wells are in the immediate vicinity of ISD well RDB 3D. SRS will discuss these results in conjunction with the other well results in the June 30, 2019 report.

Please let me know if you have any questions.

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