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Correction to "A Concept of Maximum Stream Depletion Rate for Leaky Aquifers in Alluvial Valleys" by Vitaly A. Zlotnik

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INDEX TERMS: 1829 Hydrology: Groundwater hydrology; 1836 Hydrology: Hydrologic budget (1655); 1842 Hydrology: Irrigation; 1860 Hydrology: Runoff and streamflow; 9900 Corrections; *KEYWORDS:* aquitard groundwater, hydraulic conductivity, leaky aquifer, streams, stream depletion rate

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[1] In the paper "A concept of maximum stream depletion rate for leaky aquifers in alluvial valleys'' by Vitaly A. Zlotnik (*Water Resources Research*, *40*(6), W06507, doi:10.1029/2003WR002932, 2004), equations (24), (25), (A11), and (A12) were published with typographical errors. The correct equations are published below.

$$MSDR = \lim_{t\to\infty} \frac{q_S(t)}{Q} \lim_{t\to\infty} D_Z\left(\frac{t}{t_a}, \frac{d}{B_A}\right) = \exp(-d/B_A) \tag{24}$$

$$AR = \lim_{t\to\infty} \frac{1}{Q} \int_0^\infty \frac{K_A}{m_A} H(x,t)dx = 1 - \exp(-d/B_A) \tag{25}$$

$$e^{-\sqrt{p}} \leftrightarrow \frac{1}{2(\pi \bar{t}^3)^{1/2}} \exp[-1/(4\bar{t})] \tag{A11}$$

$$\frac{q_S(\bar{t})}{Q} = \int_0^{\bar{t}} \frac{\exp\left[-1/(4w) - w(d/B_A)^2\right]}{2(\pi w^3)^{1/2}} dw \tag{A12}$$

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