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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.

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

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

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

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