Parameters used for FINIFLUX simulations for the second high flow campaign.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Stream length  (m) | Radon  (Bq/m3) | River Depth  (m) | River Width  [m] | River Discharge  [l/s] | K1  (m/d) | K2  (m/d) | Kmeas  (m/d) |
| 0 | 9300 | 0.3 | 0.6 | 30 | 2.28 | 1.67 | 4.87 |
| 210 | 10265 | 0.3 | 0.7 | 37 | 2.10 | 1.47 | 4.87 |
| 490 | 11983 | 0.25 | 1.2 | 38 | 1.95 | 1.08 | 4.87 |
| 650 | 7447 | 0.3 | 0.4 | 40 | 2.92 | 2.84 | 4.87 |
| 850 | 4532 | 0.4 | 0.5 | 42 | 1.98 | 1.77 | 4.87 |
| 1050 | 3903 |  |  |  |  |  |  |

Parameters used for FINIFLUX simulations for the first low flow campaign.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Stream length  (m) | Radon  (Bq/m3) | River Depth  (m) | River Width  [m] | River Discharge  [l/s] | K1  (m/d) | K2  (m/d) |  |
| 0 | 5924 | 0.2 | 0.2 | 5.2 | 2.20 | 1.06 |  |
| 210 | 5403 | 0.25 | 0.2 | 6.3 | 1.95 | 1.07 |  |
| 490 | 6227 | 0.15 | 0.5 | 6.4 | 2.06 | 0.71 |  |
| 650 | 2671 | 0.2 | 0.3 | 6.3 | 1.98 | 0.88 |  |
| 850 | 1543 | 0.2 | 0.3 | 5.8 | 1.91 | 0.83 |  |
| 1050 | 915 |  |  |  |  |  |  |

Results from propane experiment

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample point  (-) | Sample location  (m) | Bromide  (mg/l) | Propane  (mg/l) | Injection Br- concentration  (mg/l) | Injection rate Br-  (l/min) | Background stream Br-  (mg/l) | Sc number Rn at 5 oC  (-) | Sc number propane at 5 oC  (-) | n |
| 5 | 0 | 3.9 | 1.55 | 10781 | 0.65 | 0.05 | 1947 | 2643 | -0.5 |
| 4a | 80 | 3.7 | 1.35 |  |  |  |  |  |  |
| 4 | 210 | 3.5 | 1.07 |  |  |  |  |  |  |
| 3 | 410 | 3.1 | 0.79 |  |  |  |  |  |  |
| 2a | 570 | 3.1 | 0.71 |  |  |  |  |  |  |
| 2 | 670 | 3.0 | 0.61 |  |  |  |  |  |  |
| 1 | 770 | 2.9 | 0.49 |  |  |  |  |  |  |
| 0a | 870 | 2.8 | 0.47 |  |  |  |  |  |  |
| 0 | 940 | 0.67 | 0.28 |  |  |  |  |  |  |