# Appendix E

**URS**



Job

Project No. 51-00070007.00

Sheet ___ of ___

Description Mass Balance of dissolved non-reactive constituent around one segment pair

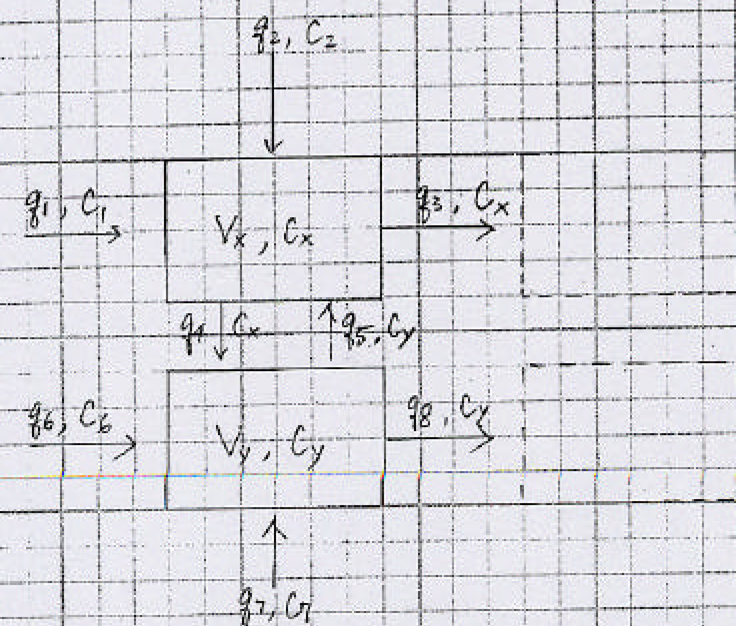
Computed by Siu Lee

Date

Checked by

Date

Reference




Mass Balance Around Water Column:

$$\frac{d(V_x C_x)}{dt} = q_1 C_1 + q_2 C_2 - q_4 C_x + q_5 C_y - q_3 C_x \qquad (1)$$

Mass Balance Around Benthic Layer:

$$\frac{d(V_y C_y)}{dt} = q_6 C_6 + q_4 C_x - q_5 C_y + q_7 C_7 - q_8 C_y \qquad (2)$$

Where

$q_2$ = Groundwater flow through stream bank

$q_1, q_3$ = surface water flow

$q_4, q_5$ = pore water flow through surface water-sediment interface

$q_6, q_8$ = pore water flow

$C_x$ = Concentration of dissolved constituent in water column

$C_y$ = Concentration of dissolved constituent in benthic layer

At Steady State:

Eqn (1) becomes:

$$q_1 C_1 + q_2 C_2 - q_4 C_x + q_5 C_y - q_3 C_x = 0$$

$$(q_4 + q_3) C_x - q_5 C_y = q_1 C_1 + q_2 C_2 \qquad (3)$$

Eqn (2) becomes:

$$q_6 C_6 + q_4 C_x - q_5 C_y + q_7 C_7 - q_8 C_y = 0$$

$$-q_4 C_x + (q_5 + q_8) C_y = q_6 C_6 + q_7 C_7 \qquad (4)$$

Therefore $C_x$, $C_y$ are obtained by solving the following matrix:

$$\begin{bmatrix} q_4 + q_3 & -q_5 \\ -q_4 & q_5 + q_8 \end{bmatrix} \begin{bmatrix} C_x \\ C_y \end{bmatrix} = \begin{bmatrix} q_1 C_1 + q_2 C_2 \\ q_6 C_6 + q_7 C_7 \end{bmatrix}$$

Job

Description

Project No. 51-0007007.00

Computed by Siu Lee

Checked by

Date

Date

Reference

Let $a = q_4 + q_3$

$b = -q_5$

$c = -q_4$

$d = q_5 + q_8$

$e = q_1 C_1 + q_2 C_2$

$f = q_6 C_6 + q_7 C_7$

Sub a, b, c, d, e, f into Eqn (3) and (4)

$$a C_x + b C_y = e \qquad (5)$$
$$c C_x + d C_y = f \qquad (6)$$

Multiply (5) by d and (6) by b:

$$ad C_x + bd C_y = ed$$
$$bc C_x + bd C_y = bf$$

and subtract to obtain

$$ad C_x - bc C_x = ed - bf$$
$$C_x (ad - bc) = ed - bf$$
$$C_x = \frac{ed - bf}{ad - bc}$$

Similarly, multiplying (5) by c, (6) by a and subtracting yields

$$C_y = \frac{af - ce}{ad - bc}$$

**URS**

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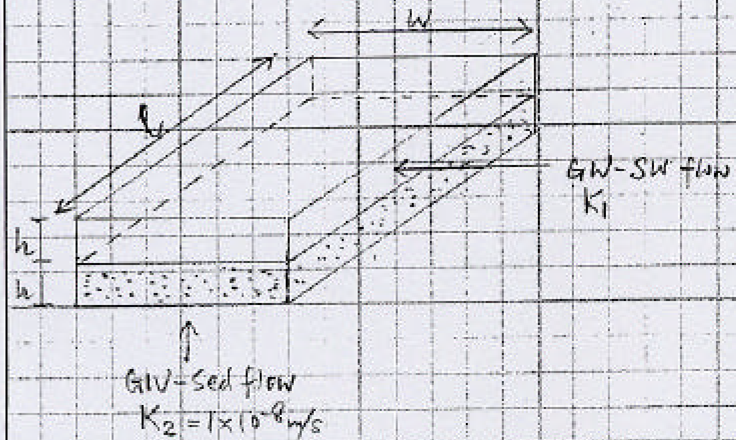
Description ______ Computed by Sin Lee Sheet ___ of ___ Date ______

Checked by ______ Date ______

Reference

Sample Calculation for Groundwater flow through streambank and sediment




For segment pair 1, 2:

$h = 2\text{ft} \sim 0.6\text{m}$

$w = 50\text{ft} \sim 15.24\text{m}$

$l = 99.8\text{m}$

$$\text{GW-SW Seepage Area} = h \times l = 0.6\text{m} \times 99.8\text{m} = 61\text{ m}^2$$

$$\text{GW-SW } \frac{dh}{dL} \sim 0.25$$

$$K_1 = 1\times10^{-8}\text{ m/s}$$

$$\text{GW-SW flow} = K_1 A \frac{dh}{dL} = (1\times10^{-8}\text{ m/s})(61\text{m}^2)(0.25) = \boxed{1.52\times10^{-7}\text{ m}^3/\text{s}}$$

$$\text{GW-Sed Seepage Area} = l \times w = 99.8\text{m} \times 15.24\text{m} = 1521\text{ m}^2$$

$$\text{GW-Sed } \frac{dh}{dL} \sim 0.001$$

$$K_2 = 1\times10^{-8}\text{ m/s}$$

$$\text{GW-Sed flow} = K_2 A \frac{dh}{dL} = (1\times10^{-8}\text{ m/s})(1521\text{ m}^2)(0.001) = \boxed{1.52\times10^{-8}\text{ m}^3/\text{s}}$$

**URS**

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Job

Project No. 51-00070007.00

Sheet ___ of ___

Description Sample Calculation for porewater flow due to tidal pumping

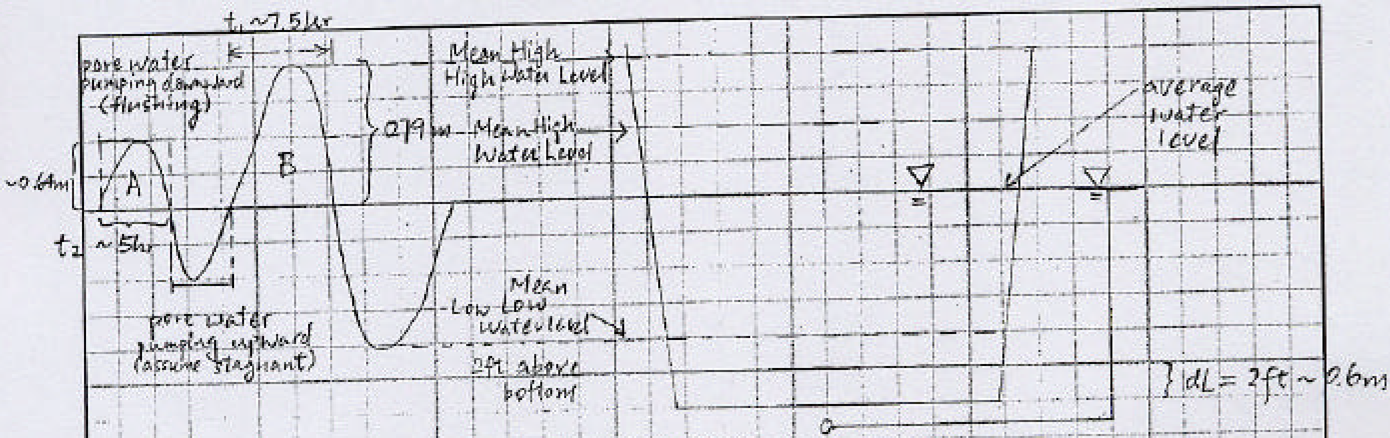
Computed by Siu Lee

Date

Checked by

Date

Reference




porewater flow:

$$q = KA\frac{dh}{dL}\left(\frac{\frac{1}{2}\text{cycle of high water}}{\text{tide cycle}}\right)$$

$K = 1\times10^{-8}$ m/s

$A = 1521\ m^2$ (Segment pair 1, 2)

$dL = 0.6m$

$$\text{Time Averaged } dh = \frac{\text{Area A} + \text{Area B}}{t_1 + t_2}$$

$$\text{Assume Area A} = \frac{1}{2}(5hr \cdot 0.64m) = 1.6\ m\cdot hr$$

$$\text{Assume Area B} = \frac{1}{2}(7.5hr \cdot 0.79m) = 2.96\ m\cdot hr$$

$$\therefore dh = \frac{(1.6 + 2.96)m\cdot hr}{(7.5+5)hr} = 0.37m$$

$$\therefore q = \left(1\times10^{-8}\frac{m}{s}\right)(1521\ m^2)\left(\frac{0.37m}{0.6m}\right)\left(\frac{1}{2}\right)$$

$$= 4.7\times10^{-6}\ m^3/s$$

## Modeling Results Summary for Copper

| | GRD 8 | | | GRD 7 | | | GRD 6 | | | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Conc in Groundwater., mg/L | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 7.3E-04 | 1.5E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 |
| Cy, ug/L | 5.5E+01 | 5.5E+01 | 5.5E+01 | 1.2E+00 | 3.3E-02 | 3.1E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 | 2.2E-03 |
| $C_{sorbed}$, mg/kg | 2.6E+02 | 2.6E+02 | 2.6E+02 | 5.8E+00 | 1.6E-01 | 1.4E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 | 1.0E-02 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cx, ug/L | 0 | 0 | 0 | 3.1E-04 | 6.1E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 |
| Cy, ug/L | 0 | 0 | 0 | 5.4E+01 | 5.5E+01 | 5.5E+01 | 2.2E+00 | 9.6E-02 | 5.3E-03 | 1.1E-03 | 9.3E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 | 9.2E-04 |
| Csorbed, mg/kg | 0 | 0 | 0 | 2.5E+02 | 2.6E+02 | 2.6E+02 | 1.0E+01 | 4.5E-01 | 2.5E-02 | 5.3E-03 | 4.4E-03 | 4.3E-03 | 4.3E-03 | 4.3E-03 | 4.3E-03 | 4.3E-03 | 4.3E-03 | 4.3E-03 | 4.3E-03 | 4.3E-03 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 2.4E-04 | 4.8E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 5.3E+01 | 5.5E+01 | 5.5E+01 | 2.7E+00 | 1.4E-01 | 8.4E-03 | 1.8E-03 | 8.9E-04 | 7.4E-04 | 7.4E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.1E-04 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 2.5E+02 | 2.6E+02 | 2.6E+02 | 1.3E+01 | 6.6E-01 | 3.9E-02 | 8.7E-03 | 4.2E-03 | 3.5E-03 | 3.5E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4E-04 | 4.8E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.2E+01 | 5.5E+01 | 5.5E+01 | 6.1E+00 | 1.2E+00 | 1.9E-01 | 5.5E-03 | 8.5E-04 | 7.2E-04 | 7.2E-04 | 7.2E-04 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5E+02 | 2.6E+02 | 2.6E+02 | 3.8E+01 | 5.8E+00 | 8.8E-01 | 2.6E-02 | 4.0E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.3E-05 | 1.7E-04 | 2.5E-04 | 2.5E-04 | 2.5E-04 | 2.5E-04 | 2.5E-04 | 2.5E-04 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.7E+01 | 5.4E+01 | 5.5E+01 | 1.4E+00 | 4.6E-02 | 9.7E-04 | 2.6E-04 | 2.5E-04 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2E+02 | 2.5E+02 | 2.6E+02 | 6.5E+00 | 1.9E-01 | 4.6E-03 | 1.2E-03 | 1.2E-03 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.8 | 4.8 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5E+00 | 3.0E+00 | 3.0E+00 | 3.0E+00 | 3.0E+00 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.7E+01 | 1.8E+01 | 3.3E+00 | 3.0E+00 | 3.0E+00 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.8E+01 | 8.7E+01 | 1.6E+01 | 1.4E+01 | 1.4E+01 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.4 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0E+00 | 3.0E+00 | 3.0E+00 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0E+01 | 3.3E+00 | 3.0E+00 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9.5E+01 | 1.5E+01 | 1.4E+01 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.9 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0E+00 | 3.0E+00 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5E+01 | 3.1E+00 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.2E+01 | 1.5E+01 |
| Conc in Groundwater., mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0E+00 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0E+01 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.7E+01 |
| Simulated Conponcentration, in Groundwater, mg/L | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 4.8 | 4.8 | 5.4 | 3.9 | 2.2 |
| Predicted Concentration in Water Column, ug/L | 7.3E-04 | 1.5E-03 | 2.2E-03 | 3.1E-04 | 6.1E-04 | 9.2E-04 | 2.4E-04 | 4.8E-04 | 7.2E-04 | 2.4E-04 | 4.8E-04 | 7.2E-04 | 8.3E-05 | 1.7E-04 | 2.5E-04 | 1.5 | 3.0 | 3.0 | 3.0 | 3.0 |
| AWQC for Copper, ug/L | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| Predicted Concentration in Sediment, mg/kg | 258 | 258 | 258 | 253 | 258 | 258 | 248 | 258 | 258 | 248 | 258 | 258 | 220 | 253 | 257 | 78 | 87 | 95 | 72 | 47 |
| ERM for Copper, mg/kg | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |

| | |
|---|---|
| Surface Water, m³/s | 3.92E+00 |
| Kd (L/kg) | 4.7E+00 |
| K2 (m/s) | 1.00E-08 |

| | GRD 6 | | | GRD 7 | | | GRD 8 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.65E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-09 | 1.5200E-09 | 1.5200E-09 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.65E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 17000 | 17000 | 17000 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 55.0 | 55.0 | 55.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 17000 | 17000 | 17000 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_1$ (ug/L) | 0.0007 | 0.0015 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 |
| $C_2$ (ug/L) | 54.9576 | 54.9583 | 54.9591 | 1.2015 | 0.0035 | 0.0031 | 0.0022 | 0.0022 | 0.0022 |
| $C_{sediment}$ (mg/kg) | 258.3 | 258.3 | 258.3 | 5.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 86 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5329 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.06E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2499E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_1$ (ug/L) | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 |
| $C_2$ (ug/L) | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 | 0.0022 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 4.70E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Semgent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| K3 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 17 | 17 | 17 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_u$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_p$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_d$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_i$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_s$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_b$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.05E-08 | 7.60E-08 |
| $q_o$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_e$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.05E-08 | 7.50E-08 | 8.01E-08 |
| $C_u$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_p$, ug/L | 0 | 0 | 0 | 17000 | 17000 | 17000 | 0 | 0 | 0 |
| $C_d$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 93.7 | 54.9 | 55.0 | 2.2 | 0.1 |
| $C_o$, ug/L | 0 | 0 | 0 | 17000 | 17000 | 17000 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0003 | 0.0006 | 0.0009 | 0.0009 | 0.0009 | 0.0009 |
| $C_b$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 53.7278 | 54.0262 | 54.9569 | 2.2040 | 0.0958 | 0.0050 |
| $C_{sed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 252.5 | 256.2 | 258.3 | 10.4 | 0.5 | 0.0 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Semgent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 106 | 106 | 106 | 762 | 762 | 1347 | 1858 | 3240 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K3 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_u$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_p$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_d$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_i$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_s$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_b$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_o$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2499E-08 | 2.2097E-08 | 3.0479E-08 | 5.3278E-08 |
| $q_e$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_u$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_p$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_d$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_o$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 |
| $C_b$ (ug/L) | 0.0011 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 |
| $C_{sed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 4.70E+03 |
| K2 (m/s) | 1.00E-06 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dl/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dl/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 17 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.028E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 17000 | 17000 | 17000 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.8 | 54.9 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 17000 | 17000 | 17000 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0002 | 0.0005 | 0.0007 |
| $C_y$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 52.7541 | 54.8625 | 54.9532 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 247.9 | 257.9 | 258.1 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1856 | 3240 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5329 |
| GW-SW dl/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dl/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-06 | 1.25E-06 | 2.21E-06 | 3.05E-06 | 5.33E-06 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 0.00E+00 | 1.25E-08 | 3.46E-08 | 6.51E-08 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7870E-09 | 1.7870E-09 | 1.7874E-09 | 1.2346E-08 | 1.2496E-08 | 2.2087E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 0.00E+00 | 1.25E-08 | 3.46E-08 | 6.51E-08 | 1.16E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 55.0 | 2.7 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| $C_y$ (ug/L) | 2.0962 | 0.1402 | 0.0084 | 0.0018 | 0.0008 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| $C_{sediment}$ (mg/kg) | 12.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 4.70E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_5$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_4$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_p$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.8 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2490E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 17000 | 17000 | 17000 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 45.8 | 53.7 | 54.8 | 1.4 | 0.0 | 0.0 | 0.0 |
| $C_4$, ug/L | 0 | 0 | 0 | 17000 | 17000 | 17000 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0001 | 0.0002 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 |
| $C_p$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 46.8124 | 53.7310 | 54.7697 | 1.4640 | 0.0400 | 0.0010 | 0.0003 | 0.0003 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 220.0 | 252.5 | 257.4 | 6.8 | 0.2 | 0.0 | 0.0 | 0.0 |

| | | |
|---|---|---|
| Surface Water | $^3$/s | 3.92E+00 |
| Kd (L/kg) | | 4.70E+03 |
| K2 (m/s) | | 1.00E-08 |

| Seg | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment ent | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Semgent ight (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment idth (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment ngth (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| SW-Sed po ume ($m^3$) | 927 | 927 | 927 | 380 | 380 | 380 | 307 | 307 | 307 |
| K1 flow, $m^3$/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| GW-SW Seep /s | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-Sed Seep ge Area ($m^2$) | 61 | 61 | 61 | 28 | 28 | 28 | 20 | 20 | 20 |
| GW-S ge Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-Se thick | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Groundwater dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| GW-SW Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-Sed w, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| w, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $^3$/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $^3$/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $^3$/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $^3$/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $^3$/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $^3$/s | 0.00E+00 | 1.52E-08 | 3.01E-08 | 4.58E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $^3$/s | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $^3$/s | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, g/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, g/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, g/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_4$, g/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$ (g/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_y$ (g/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Seg | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment ent | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Semgent ight (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment idth (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment ngth (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.6 |
| SW-Sed po ume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1856 | 3240 |
| K1 flow, $m^3$/s | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| GW-SW Seep /s | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-Sed Seep ge Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-S ge Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-Se thick | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Groundwater dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| GW-SW Conc, mg/L | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-Sed w, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| w, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $^3$/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $^3$/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $^3$/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_4$, $^3$/s | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $^3$/s | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $^3$/s | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $^3$/s | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2499E-08 | 2.2097E-08 | 3.0470E-08 | 5.3278E-08 |
| $q_8$, $^3$/s | 8.51E-08 | 9.01E-08 | 8.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, g/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, g/L | 17000 | 17000 | 17000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, g/L | 0.0 | 52.3 | 54.8 | 54.9 | 6.1 | 1.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_4$, g/L | 17000 | 17000 | 17000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$ (g/L) | 0.0002 | 0.0005 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 | 0.0007 |
| $C_y$ (g/L) | 52.2675 | 54.8179 | 54.9560 | 8.1442 | 1.2266 | 0.1881 | 0.0055 | 0.0000 | 0.0007 | 0.0007 | 0.0007 |
| $C_{sorbed}$ (mg/kg) | 245.7 | 257.6 | 258.3 | 38.3 | 5.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 4.70E+00 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Semgent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_0$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_1$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_2$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_3$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_4$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_5$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_6$, $m^3/s$ | 1.52E-08 | 1.5208E-08 | 1.5208E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_7$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_w$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_g$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_L$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_1$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_2$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | |
|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Semgent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 |
| $q_0$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_1$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 |
| $q_2$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_3$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| $q_4$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| $q_5$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 |
| $q_6$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 |
| $q_7$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 |
| $C_w$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_g$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_L$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_1$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_2$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|
| Segment | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Semgent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 81.0 | 82.0 | 148.0 | 200.0 | 349.6 |
| Segment Volume ($m^3$) | 752 | 762 | 1347 | 1850 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 4.8 | 4.8 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_0$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_1$, $m^3/s$ | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_2$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_3$, $m^3/s$ | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_4$, $m^3/s$ | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 1.00E-07 | 1.13E-07 | 1.28E-07 | 1.47E-07 | 1.78E-07 |
| $q_6$, $m^3/s$ | 1.2344E-08 | 1.2496E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_7$, $m^3/s$ | 1.19E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_w$, ug/L | 0.0 | 1.5 | 3.0 | 3.0 | 3.0 |
| $C_g$, ug/L | 4800 | 4800 | 0 | 0 | 0 |
| $C_s$, ug/L | 0.0 | 16.6 | 18.5 | 3.0 | 3.0 |
| $C_L$, ug/L | 4800 | 4800 | 0 | 0 | 0 |
| $C_1$ (ug/L) | 1.5119 | 3.0097 | 3.0380 | 3.0357 | 3.0316 |
| $C_2$ (ug/L) | 16.5071 | 18.4916 | 3.3065 | 3.0302 | 3.0218 |
| $C_{sorbed}$ (mg/kg) | 75.0 | 88.9 | 15.5 | 14.2 | 14.2 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 4.70E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 |
|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Seingent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5205E-08 | 1.5205E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_w$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_p$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 6 | | GRD 5 | | | GRD 4 | |
|---|---|---|---|---|---|---|---|
| Segment | 15,16 | 17,18 | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Seingent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 307 | 307 | 108 | 108 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 20 | 20 | 7 | 7 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 503 | 503 | 177 | 177 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 |
| $q_6$, $m^3/s$ | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7676E-09 | 1.7676E-09 |
| $q_8$, $m^3/s$ | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_w$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_p$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 4 | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|
| Segment | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Seingent Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.9 |
| Segment Volume ($m^3$) | 108 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 5.4 | 0 | 0 |
| GW-SW flow, m3/s | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.30E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 1.7676E-09 | 1.2344E-08 | 1.2496E-08 | 2.2007E-08 | 3.0476E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 5400 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 20.1 | 3.3 |
| $C_7$, ug/L | 0 | 0 | 0 | 5400 | 0 | 0 |
| $C_w$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 3.0404 | 3.0160 | 3.0339 |
| $C_p$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 20.1187 | 3.2912 | 3.0289 |
| $C_{sed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 94.6 | 15.5 | 14.2 |

| | |
|---|---|
| Surface Water, m³/s | 3.92E+00 |
| Kd (L/kg) | 4.70E+00 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | | GRD 5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 | 19,20 | 21,22 | 23,24 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| Segment Volume (m³) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 | 307 | 307 | 307 |
| SW-Sed pore flow, m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area (m²) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 | 20 | 20 | 20 |
| GW-Sed Seepage Area (m²) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_u$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_b$, m³/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_d$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$ m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_1$, m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_p$, m³/s | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 |
| $q_r$, m³/s | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_p$, m³/s | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 |
| $C_u$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_p$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_g$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_r$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_f$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|
| Segment | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.6 | 200.0 | 349.5 |
| Segment Volume (m³) | 106 | 106 | 106 | 752 | 762 | 1347 | 1856 | 3246 |
| SW-Sed pore flow, m³/s | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area (m²) | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area (m²) | 177 | 177 | 177 | 1234 | 1250 | 2219 | 3048 | 5326 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 3.9 | 0 |
| GW-SW flow, m3/s | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_u$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_b$, m³/s | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_d$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$ m³/s | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_1$, m³/s | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_p$, m³/s | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.70E-07 |
| $q_r$, m³/s | 1.7670E-09 | 1.7670E-09 | 1.7670E-09 | 1.2344E-08 | 1.2496E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_p$, m³/s | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_u$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| $C_p$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 3900 | 0 |
| $C_g$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.4 |
| $C_r$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 3900 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 3.0264 | 3.0223 |
| $C_f$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 15.3835 | 3.1446 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 72.3 | 14.8 |

| | |
|---|---|
| Surface Water, m³/s | 3.92E+00 |
| Kd (L/kg) | 4.70E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.8 |
| Segment Volume (m³) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area (m²) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area (m²) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, m³/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, m³/s | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, m³/s | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2496E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, m³/s | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2200 |
| $C_4$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2200 |
| $C_T$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 2.0801 |
| $C_T$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.9749 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 46.9 |

## Modeling Results Summary for Zinc

| | GRD 8 | | | GRD 7 | | | GRD 6 | | | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Conc. In Groundwater, mg/L | 63 | 63 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 2.7E-03 | 5.4E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.1E-03 | 8.0E-03 |
| Cy, ug/L | 2.0E+02 | 2.0E+02 | 2.0E+02 | 4.6E+00 | 1.2E-01 | 1.1E-02 | 8.2E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 |
| $C_{sorbed}$, mg/kg | 4.1E+02 | 4.1E+02 | 4.1E+02 | 9.1E+00 | 2.5E-01 | 2.3E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 | 1.6E-02 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 63 | 63 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cx, ug/L | 0 | 0 | 0 | 1.1E-03 | 2.3E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 |
| Cy, ug/L | 0 | 0 | 0 | 2.0E+02 | 2.0E+02 | 2.0E+02 | 8.2E+00 | 3.5E-01 | 2.0E-02 | 4.2E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 | 3.4E-03 |
| Csorbed, mg/kg | 0 | 0 | 0 | 4.0E+02 | 4.1E+02 | 4.1E+02 | 1.6E+01 | 7.1E-01 | 3.9E-02 | 8.4E-03 | 6.9E-03 | 6.8E-03 | 6.8E-03 | 6.8E-03 | 6.8E-03 | 6.8E-03 | 6.8E-03 | 6.8E-03 | 6.8E-03 | 6.8E-03 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 63 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 8.9E-04 | 1.8E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 2.0E+02 | 2.0E+02 | 2.0E+02 | 1.0E+01 | 5.2E-01 | 3.1E-02 | 6.9E-03 | 3.3E-03 | 2.8E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.7E-03 | 2.6E-03 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 3.9E+02 | 4.1E+02 | 4.1E+02 | 2.0E+01 | 1.0E+00 | 6.2E-02 | 1.4E-02 | 6.6E-03 | 5.5E-03 | 5.3E-03 | 5.3E-03 | 5.3E-03 | 5.3E-03 | 5.3E-03 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 62 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.7E-04 | 1.7E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.9E+02 | 2.0E+02 | 2.0E+02 | 3.0E+01 | 4.5E+00 | 6.9E-01 | 2.0E-02 | 3.1E-03 | 2.6E-03 | 2.6E-03 | 2.6E-03 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.8E+02 | 4.0E+02 | 4.0E+02 | 5.9E+01 | 8.9E+00 | 1.4E+00 | 4.0E-02 | 6.2E-03 | 5.2E-03 | 5.2E-03 | 5.2E-03 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 63 | 63 | 0 | 0 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.1E-04 | 6.2E-04 | 9.3E-04 | 9.4E-04 | 9.4E-04 | 9.4E-04 | 9.4E-04 | 9.3E-04 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.7E+02 | 2.0E+02 | 2.0E+02 | 5.2E+00 | 1.5E-01 | 3.6E-03 | 9.7E-04 | 9.3E-04 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.5E+02 | 4.0E+02 | 4.1E+02 | 1.0E+01 | 3.0E-01 | 7.2E-03 | 1.9E-03 | 1.9E-03 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 53 | 0 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.7E+01 | 3.4E+01 | 3.4E+01 | 3.4E+01 | 3.3E+01 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.8E+02 | 2.0E+02 | 3.7E+01 | 3.3E+01 | 3.3E+01 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.7E+02 | 4.1E+02 | 7.3E+01 | 6.7E+01 | 6.7E+01 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 | 0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.0E+01 | 3.0E+01 | 3.0E+01 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0E+02 | 3.3E+01 | 3.0E+01 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0E+02 | 6.6E+01 | 6.1E+01 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51.0 | 0.0 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39.6 | 39.5 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 201.2 | 41.1 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 402.3 | 82.2 |
| Conc. In Groundwater, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| $C_x$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.1E+01 |
| Cy, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0E+02 |
| $C_{sorbed}$, mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.1E+02 |
| Simulated Concentration in Groundwater, mg/L | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 62 | 62 | 62 | 63 | 63 | 63 | 53 | 53 | 54 | 51 | 45 |
| Predicted Concentration in Water Column, ug/L | 2.7E-03 | 5.4E-03 | 8.1E-03 | 1.1E-03 | 2.3E-03 | 3.4E-03 | 8.9E-04 | 1.8E-03 | 2.7E-03 | 8.7E-04 | 1.7E-03 | 2.6E-03 | 3.1E-04 | 6.2E-04 | 9.3E-04 | 17 | 34 | 30 | 40 | 61 |
| AWQC for Zinc, ug/L | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| Predicted Concentration in Sediment, mg/kg | 407 | 407 | 407 | 398 | 407 | 407 | 391 | 407 | 407 | 381 | 400 | 401 | 347 | 398 | 406 | 366 | 408 | 402 | 402 | 408 |
| ERM for Zinc, mg/kg | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 |

| | |
|---|---|
| Surface Water, m³/s | 3.9E+00 |
| Kd (L/kg) | 2.0E+00 |
| K2 (m/s) | 1.0E-06 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 6.E-06 | 6.E-06 | 6.E-06 | 2.E-06 | 2.E-06 | 2.E-06 | 2.E-06 | 2.E-06 | 2.E-06 |
| K1 (m/s) | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 646 | 646 | 646 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 63 | 63 | 63 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.5E-07 | 1.5E-07 | 1.5E-07 | 6.4E-08 | 6.4E-08 | 6.4E-08 | 5.0E-08 | 5.0E-08 | 5.0E-08 |
| GW-Sed flow, m3/s | 1.5E-08 | 1.5E-08 | 1.5E-08 | 6.4E-09 | 6.4E-09 | 6.4E-09 | 5.0E-09 | 5.0E-09 | 5.0E-09 |
| $q_1$, $m^3/s$ | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 |
| $q_2$, $m^3/s$ | 1.5E-07 | 1.5E-07 | 1.5E-07 | 6.4E-08 | 6.4E-08 | 6.4E-08 | 5.0E-08 | 5.0E-08 | 5.0E-08 |
| $q_3$, $m^3/s$ | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 |
| $q_4$, $m^3/s$ | 4.7E-06 | 4.7E-06 | 4.7E-06 | 2.0E-06 | 2.0E-06 | 2.0E-06 | 1.6E-06 | 1.6E-06 | 1.6E-06 |
| $q_5$, $m^3/s$ | 4.7E-06 | 4.7E-06 | 4.7E-06 | 2.0E-06 | 2.0E-06 | 2.0E-06 | 1.6E-06 | 1.6E-06 | 1.6E-06 |
| $q_6$, $m^3/s$ | 0.0E+00 | 1.5E-08 | 3.0E-08 | 4.6E-08 | 5.2E-08 | 5.9E-08 | 6.5E-08 | 7.0E-08 | 7.5E-08 |
| $q_7$, $m^3/s$ | 1.5E-08 | 1.5E-08 | 1.5E-08 | 6.4E-09 | 6.4E-09 | 6.4E-09 | 5.0E-09 | 5.0E-09 | 5.0E-09 |
| $q_8$, $m^3/s$ | 1.5E-08 | 3.0E-08 | 4.6E-08 | 5.2E-08 | 5.9E-08 | 6.5E-08 | 7.0E-08 | 7.5E-08 | 8.0E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 63000 | 63000 | 63000 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 203.7 | 203.7 | 203.7 | 4.6 | 0.1 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 63000 | 63000 | 63000 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.003 | 0.005 | 0.006 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| $C_T$ (ug/L) | 2.0E+02 | 2.0E+02 | 2.0E+02 | 4.6E+00 | 1.2E-01 | 1.1E-02 | 8.2E-03 | 8.0E-03 | 8.0E-03 |
| $C_{sorbed}$ (mg/kg) | 407 | 407 | 407 | 9 | 0 | 0 | 0 | 0 | 0 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.6 | 82.0 | 145.0 | 200.0 | 349.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 106 | 106 | 106 | 752 | 762 | 1347 | 1858 | 3240 |
| SW-Sed pore flow, $m^3/s$ | 2.E-06 | 2.E-06 | 2.E-06 | 5.E-07 | 5.E-07 | 5.E-07 | 4.E-06 | 4.E-06 | 7.E-06 | 9.E-06 | 2.E-05 |
| K1 (m/s) | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-08 | 1.0E-04 | 1.0E-04 | 1.0E-04 | 1.0E-04 | 1.0E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 5048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.0E-08 | 5.0E-08 | 5.0E-08 | 1.8E-08 | 1.8E-08 | 1.8E-08 | 1.2E-03 | 1.2E-03 | 2.2E-03 | 3.0E-03 | 5.3E-03 |
| GW-Sed flow, m3/s | 5.0E-09 | 5.0E-09 | 5.0E-09 | 1.8E-09 | 1.8E-09 | 1.8E-09 | 1.2E-08 | 1.2E-08 | 2.2E-08 | 3.0E-08 | 5.3E-08 |
| $q_1$, $m^3/s$ | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 |
| $q_2$, $m^3/s$ | 5.0E-08 | 5.0E-08 | 5.0E-08 | 1.8E-08 | 1.8E-08 | 1.8E-08 | 1.2E-03 | 1.2E-03 | 2.2E-03 | 3.0E-03 | 5.3E-03 |
| $q_3$, $m^3/s$ | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 | 3.9E+00 |
| $q_4$, $m^3/s$ | 1.6E-06 | 1.6E-06 | 1.6E-06 | 5.5E-07 | 5.5E-07 | 5.5E-07 | 3.8E-06 | 3.9E-06 | 6.8E-06 | 9.4E-06 | 1.6E-05 |
| $q_5$, $m^3/s$ | 1.6E-06 | 1.6E-06 | 1.6E-06 | 5.5E-07 | 5.5E-07 | 5.5E-07 | 3.8E-06 | 3.9E-06 | 6.8E-06 | 9.4E-06 | 1.6E-05 |
| $q_6$, $m^3/s$ | 8.0E-08 | 8.5E-08 | 9.0E-08 | 9.5E-08 | 9.7E-08 | 9.9E-08 | 1.0E-07 | 1.1E-07 | 1.3E-07 | 1.5E-07 | 1.8E-07 |
| $q_7$, $m^3/s$ | 5.0E-09 | 5.0E-09 | 5.0E-09 | 1.8E-09 | 1.8E-09 | 1.8E-09 | 1.2E-08 | 1.2E-08 | 2.2E-08 | 3.0E-08 | 5.3E-08 |
| $q_8$, $m^3/s$ | 8.5E-08 | 9.0E-08 | 9.5E-08 | 9.7E-08 | 9.9E-08 | 1.0E-07 | 1.1E-07 | 1.3E-07 | 1.5E-07 | 1.8E-07 | 2.3E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| $C_T$ (ug/L) | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 | 8.0E-03 |
| $C_{sorbed}$ (mg/kg) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 2.00E+00 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | |
|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 63 | 63 | 63 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_3$, ug/L | 0 | 0 | 0 | 63000 | 63000 | 63000 |
| $C_4$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 199.1 | 203.8 |
| $C_7$, ug/L | 0 | 0 | 0 | 63000 | 63000 | 63000 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0011 | 0.0023 | 0.0034 |
| $C_t$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 199.1090 | 203.5801 | 203.6639 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 398.2 | 407.1 | 407.3 |

| | GRD 6 | | | GRD 5 | | |
|---|---|---|---|---|---|---|
| Segment | 13,14 | 15,16 | 17,18 | 19,20 | 21,22 | 23,24 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_3$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_4$, ug/L | 203.7 | 8.2 | 0.4 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 |
| $C_t$ (ug/L) | 8.1676 | 0.3549 | 0.0196 | 0.0042 | 0.0034 | 0.0034 |
| $C_{sediment}$ (mg/kg) | 16.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|
| Segment | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.8 |
| Segment Volume ($m^3$) | 108 | 108 | 108 | 762 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3046 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2496E-08 | 2.2097E-08 | 3.0479E-08 | 5.3278E-08 |
| $q_8$, $m^3/s$ | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_3$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_4$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 |
| $C_t$ (ug/L) | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 | 0.0034 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 2.00E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.6 | 99.6 | 99.6 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 827 | 827 | 827 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 63 | 63 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 63000 | 63000 | 63000 |
| $C_B$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 195.6 | 203.3 |
| $C_T$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 63000 | 63000 | 63000 |
| $C_1$ (mg/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0009 | 0.0018 | 0.0027 |
| $C_T$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 195.6003 | 203.3140 | 203.6502 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 391.0 | 406.6 | 407.3 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 61.0 | 82.0 | 145.0 | 200.0 | 349.8 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 106 | 106 | 106 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.61E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.61E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.76E-07 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2496E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.76E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_B$, ug/L | 203.7 | 10.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_T$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_1$ (mg/L) | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0027 |
| $C_T$ (ug/L) | 9.0594 | 0.5195 | 0.0310 | 0.0069 | 0.0033 | 0.0028 | 0.0027 | 0.0027 | 0.0027 | 0.0027 | 0.0026 |
| $C_{sorbed}$ (mg/kg) | 19.0 | 1.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | |
|---|---|
| Surface Water, m³/s | 3.92E+00 |
| Kd (L/kg) | 2.00E+03 |
| K2 (m/s) | 1.00E-06 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume (m³) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area (m²) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area (m²) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_u$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_1$, m³/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_2$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$ m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, m³/s | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, m³/s | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, m³/s | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, m³/s | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_5$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_T$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_r$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.0 |
| Segment Volume (m³) | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, m³/s | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area (m²) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area (m²) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 42 | 42 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-06 | 1.25E-06 | 2.21E-06 | 3.05E-06 | 5.33E-06 |
| $q_u$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_1$, m³/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_2$, m³/s | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$ m³/s | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, m³/s | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, m³/s | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, m³/s | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7676E-09 | 1.7676E-09 | 1.7676E-09 | 1.2344E-06 | 1.2499E-06 | 2.2097E-06 | 3.0479E-06 | 5.3276E-06 |
| $q_8$, m³/s | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_5$, ug/L | 62000 | 62000 | 62000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 190.8 | 199.9 | 200.4 | 29.7 | 4.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 62000 | 62000 | 62000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_T$ (ug/L) | 0.0009 | 0.0017 | 0.0026 | 0.0026 | 0.0026 | 0.0026 | 0.0026 | 0.0026 | 0.0026 | 0.0026 | 0.0026 |
| $C_r$ (ug/L) | 190.8225 | 199.9241 | 200.4057 | 29.7022 | 4.4735 | 0.8881 | 0.0201 | 0.0031 | 0.0026 | 0.0026 | 0.0026 |
| $C_{sed}$ (mg/kg) | 381.2 | 399.8 | 400.8 | 59.4 | 8.9 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| K1 (L/kg) | 2.00E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 5.E-06 | 5.E-06 | 5.E-06 | 2.E-06 | 2.E-06 | 2.E-06 | 2.E-06 | 2.E-06 | 2.E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_5$, $m^3/s$ | 4.69E-08 | 4.69E-08 | 4.69E-08 | 1.99E-08 | 1.99E-08 | 1.99E-08 | 1.55E-08 | 1.55E-08 | 1.55E-08 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.86E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_1$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_2$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1856 | 3246 |
| SW-Sed pore flow, $m^3/s$ | 2.E-06 | 2.E-06 | 2.E-06 | 5.E-07 | 5.E-07 | 5.E-07 | 4.E-06 | 4.E-06 | 7.E-06 | 9.E-06 | 2.E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3046 | 5329 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 63 | 63 | 63 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.86E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 1.55E-08 | 1.55E-08 | 1.55E-08 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.86E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.06E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2496E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.70E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 63000 | 63000 | 63000 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 173.5 | 199.1 | 203.0 | 5.2 | 0.1 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 63000 | 63000 | 63000 | 0 | 0 | 0 | 0 | 0 |
| $C_1$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 | 0.0009 |
| $C_2$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 173.4812 | 192.1207 | 202.9701 | 5.2032 | 0.1484 | 0.0036 | 0.0010 | 0.0009 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 347.0 | 398.2 | 405.9 | 10.4 | 0.3 | 0.0 | 0.0 | 0.0 |

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|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 2.00E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 390 | 390 | 390 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc. mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_4$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_t$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_y$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | |
|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc. mg/L | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7676E-09 | 1.7676E-09 | 1.7676E-09 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_4$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_t$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_y$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|
| Segment | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 81.0 | 82.0 | 145.0 | 200.0 | 349.6 |
| Segment Volume ($m^3$) | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc. mg/L | 53 | 53 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 3.81E-06 | 3.85E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 1.2344E-08 | 1.2499E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 16.7 | 33.6 | 33.5 | 33.5 |
| $C_2$, ug/L | 53000 | 53000 | 0 | 0 | 0 |
| $C_3$, ug/L | 0.0 | 183.1 | 204.2 | 36.5 | 33.3 |
| $C_4$, ug/L | 53000 | 53000 | 0 | 0 | 0 |
| $C_t$ (ug/L) | 16.6842 | 33.5637 | 33.5448 | 33.5188 | 33.4734 |
| $C_y$ (ug/L) | 183.1468 | 204.1779 | 36.5095 | 33.4581 | 33.3962 |
| $C_{sorbed}$ (mg/kg) | 366.3 | 408.4 | 73.0 | 66.9 | 66.7 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 2.00E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_3$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_5$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_t$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_y$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.8 | 11.8 | 11.8 | 81.0 | 82.0 | 145.9 | 200.0 | 249.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 8.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 8.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.85E-06 | 8.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2499E-08 | 2.2097E-08 | 3.0479E-08 | 5.3278E-08 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.4 | 30.4 |
| $C_3$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54000 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 201.2 | 32.8 |
| $C_5$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54000 | 0 | 0 |
| $C_t$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 30.4035 | 30.3799 | 30.3358 |
| $C_y$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 201.1867 | 32.2122 | 30.2692 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 402.4 | 65.8 | 60.5 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 2.00E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRID 8 | | | GRID 7 | | |
|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 |
| GW-Sed flow, $m^3/s$ | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5209E-08 | 1.5209E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_T$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_T$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRID 6 | | | GRID 5 | | |
|---|---|---|---|---|---|---|
| Segment | 13,14 | 15,16 | 17,18 | 19,20 | 21,22 | 23,24 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, $m^3/s$ | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 |
| $q_7$, $m^3/s$ | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 | 5.029E-09 |
| $q_8$, $m^3/s$ | 7.00E-08 | 7.50E-08 | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_3$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_T$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_T$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRID 4 | | | GRID 3 | | GRID 2 | GRID 1 | GRID 0 |
|---|---|---|---|---|---|---|---|---|
| Segment | 25,26 | 27,28 | 29,30 | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 11.6 | 11.6 | 11.6 | 81.0 | 82.0 | 145.0 | 200.0 | 349.5 |
| Segment Volume ($m^3$) | 108 | 108 | 108 | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.86E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 7 | 7 | 7 | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 177 | 177 | 177 | 1234 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 |
| GW-SW flow, $m^3/s$ | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, $m^3/s$ | 1.77E-09 | 1.77E-09 | 1.77E-09 | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_2$, $m^3/s$ | 1.77E-08 | 1.77E-08 | 1.77E-08 | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.93E+00 |
| $q_4$, $m^3/s$ | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.86E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 5.45E-07 | 5.45E-07 | 5.45E-07 | 3.81E-06 | 3.86E-06 | 6.81E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 | 1.2344E-08 | 1.2486E-08 | 2.2097E-08 | 3.0479E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 9.69E-08 | 9.87E-08 | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 39.6 |
| $C_2$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 51000 | 0 |
| $C_3$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 201.2 |
| $C_T$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 51000 | 0 |
| $C_s$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 39.5794 | 35.5218 |
| $C_T$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 201.1734 | 41.1213 |
| $C_{sediment}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 492.3 | 82.2 |

| | |
|---|---|
| Surface Water, $m^3/s$ | 3.92E+00 |
| Kd (L/kg) | 2.00E+03 |
| K2 (m/s) | 1.00E-08 |

| | GRD 8 | | | GRD 7 | | | GRD 6 | | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | 1,2 | 3,4 | 5,6 | 7,8 | 9,10 | 11,12 | 13,14 | 15,16 | 17,18 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 99.8 | 99.8 | 99.8 | 42.3 | 42.3 | 42.3 | 33.0 | 33.0 | 33.0 |
| Segment Volume ($m^3$) | 927 | 927 | 927 | 393 | 393 | 393 | 307 | 307 | 307 |
| SW-Sed pore flow, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 61 | 61 | 61 | 26 | 26 | 26 | 20 | 20 | 20 |
| GW-Sed Seepage Area ($m^2$) | 1521 | 1521 | 1521 | 645 | 645 | 645 | 503 | 503 | 503 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| GW-Sed flow, m3/s | 1.52E-08 | 1.52E-08 | 1.52E-08 | 6.45E-09 | 6.45E-09 | 6.45E-09 | 5.03E-09 | 5.03E-09 | 5.03E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.52E-07 | 1.52E-07 | 1.52E-07 | 6.45E-08 | 6.45E-08 | 6.45E-08 | 5.03E-08 | 5.03E-08 | 5.03E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$ $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_5$, $m^3/s$ | 4.69E-06 | 4.69E-06 | 4.69E-06 | 1.99E-06 | 1.99E-06 | 1.99E-06 | 1.55E-06 | 1.55E-06 | 1.55E-06 |
| $q_6$, $m^3/s$ | 0.00E+00 | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 |
| $q_7$, $m^3/s$ | 1.52E-08 | 1.5200E-08 | 1.5200E-08 | 6.4462E-09 | 6.4462E-09 | 6.4462E-09 | 5.0296E-09 | 5.0296E-09 | 5.0296E-09 |
| $q_8$, $m^3/s$ | 1.52E-08 | 3.04E-08 | 4.56E-08 | 5.21E-08 | 5.85E-08 | 6.50E-08 | 7.00E-08 | 7.50E-08 | 8.01E-08 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_3$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_5$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_7$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 5 | | | GRD 4 | | |
|---|---|---|---|---|---|---|
| Segment | 19,20 | 21,22 | 23,24 | 25,26 | 27,28 | 29,30 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 33.0 | 33.0 | 33.0 | 11.6 | 11.6 | 11.6 |
| Segment Volume ($m^3$) | 307 | 307 | 307 | 108 | 108 | 108 |
| SW-Sed pore flow, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| K1 (m/s) | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 | 1.00E-08 |
| GW-SW Seepage Area ($m^2$) | 20 | 20 | 20 | 7 | 7 | 7 |
| GW-Sed Seepage Area ($m^2$) | 503 | 503 | 503 | 177 | 177 | 177 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 0 | 0 |
| GW-SW flow, m3/s | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 |
| GW-Sed flow, m3/s | 5.03E-09 | 5.03E-09 | 5.03E-09 | 1.77E-09 | 1.77E-09 | 1.77E-09 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 5.03E-08 | 5.03E-08 | 5.03E-08 | 1.77E-08 | 1.77E-08 | 1.77E-08 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_4$ $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| $q_5$, $m^3/s$ | 1.55E-06 | 1.55E-06 | 1.55E-06 | 5.45E-07 | 5.45E-07 | 5.45E-07 |
| $q_6$, $m^3/s$ | 8.01E-08 | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 |
| $q_7$, $m^3/s$ | 5.0296E-09 | 5.0296E-09 | 5.0296E-09 | 1.7678E-09 | 1.7678E-09 | 1.7678E-09 |
| $q_8$, $m^3/s$ | 8.51E-08 | 9.01E-08 | 9.51E-08 | 9.69E-08 | 9.87E-08 | 1.00E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_3$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 0 | 0 |
| $C_5$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_7$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | GRD 3 | | GRD 2 | GRD 1 | GRD 0 |
|---|---|---|---|---|---|
| Segment | 31,32 | 33,34 | 35,36 | 37,38 | 39,40 |
| Segment Height (m) | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Segment Width (m) | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| Segment Length (m) | 81.0 | 82.0 | 145.0 | 200.0 | 348.8 |
| Segment Volume ($m^3$) | 752 | 762 | 1347 | 1858 | 3248 |
| SW-Sed pore flow, $m^3/s$ | 3.81E-06 | 3.86E-06 | 6.61E-06 | 9.40E-06 | 1.64E-05 |
| K1 (m/s) | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 | 1.00E-04 |
| GW-SW Seepage Area ($m^2$) | 49 | 50 | 88 | 122 | 213 |
| GW-Sed Seepage Area ($m^2$) | 1204 | 1250 | 2210 | 3048 | 5328 |
| GW-SW dh/dL | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| GW-Sed dh/dL | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Groundwater Conc, mg/L | 0 | 0 | 0 | 0 | 45 |
| GW-SW flow, m3/s | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| GW-Sed flow, m3/s | 1.23E-08 | 1.25E-08 | 2.21E-08 | 3.05E-08 | 5.33E-08 |
| $q_1$, $m^3/s$ | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 | 3.92E+00 |
| $q_2$, $m^3/s$ | 1.23E-03 | 1.25E-03 | 2.21E-03 | 3.05E-03 | 5.33E-03 |
| $q_3$, $m^3/s$ | 3.92E+00 | 3.93E+00 | 3.92E+00 | 3.93E+00 | 3.93E+00 |
| $q_4$ $m^3/s$ | 3.81E-06 | 3.86E-06 | 6.61E-06 | 9.40E-06 | 1.64E-05 |
| $q_5$, $m^3/s$ | 3.81E-06 | 3.86E-06 | 6.61E-06 | 9.40E-06 | 1.64E-05 |
| $q_6$, $m^3/s$ | 1.00E-07 | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 |
| $q_7$, $m^3/s$ | 1.2344E-08 | 1.2498E-08 | 2.2097E-08 | 3.0478E-08 | 5.3276E-08 |
| $q_8$, $m^3/s$ | 1.13E-07 | 1.25E-07 | 1.47E-07 | 1.78E-07 | 2.31E-07 |
| $C_1$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_3$, ug/L | 0 | 0 | 0 | 0 | 45000 |
| $C_6$, ug/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| $C_7$, ug/L | 0 | 0 | 0 | 0 | 45000 |
| $C_5$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 40.9585 |
| $C_7$ (ug/L) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 204.0317 |
| $C_{sorbed}$ (mg/kg) | 0.0 | 0.0 | 0.0 | 0.0 | 408.1 |

## CALCULATION OF ESTIMATED SOIL-GROUNDWATER DISTRIBUTION COEFFICIENTS

| Soil Sample ID | Copper in Soil (mg/kg) | Zinc in Soil (mg/kg) | Groundwater Sample ID | Copper in Groundwater (mg/L) | Zinc in Groundwater (mg/L) | Copper Kd (L/kg) | Zinc Kd (L/kg) |
|---|---|---|---|---|---|---|---|
| SSB1-4 | 43 | 100 | SSB1-GW : 0-0.5 | <0.005 | 0.17 | | 588 |
| SSB2-4 | 4.7 | 24 | SSB2-GW : 0-0.5 | <0.005 | <0.01 | | |
| SSB3-4 | 130 | 210 | SSB3-GW : 1-1.5 | 0.012 | 0.13 | 10,833 | 1,615 |
| SSB4-4 | 5.2 | 320 | SSB4-GW : 1-1.5 | 0.017 | 0.042 | 306 | 7,619 |
| SSB5-3 | 290 | 94 | SSB5-GW : 4.4.5 | 2.4 | 5.9 | 121 | 16 |
| SSB6-4 | 10 | 130 | SSB6-GW : 1-1.5 | 0.015 | 0.038 | 667 | 3,421 |
| SSB7-3 | 190 | 130 | SSB7-GW : 4-4.5 | 0.027 | 0.35 | 7,037 | 371 |
| SSB8-4 | 4.8 | 3.5 | SSB8-GW : 0-0.5 | 0.017 | 0.022 | 282 | 159 |
| SSB10-4 | 32 | 87 | SSB10-GW: 4-4.5 | <0.005 | <0.01 | | |
| SSB11-4 | 160 | 120 | SSB11-GW : 3-3.5 | 0.012 | 1.9 | 13,333 | 63 |
| SSB12-4 | 210 | 110 | SSB12-GW : 0-0.5 | <0.005 | 0.026 | | 4,231 |
| | | | | | *Average* | *4,654* | *2,009* |