Boundary	Condition	
$z = 0$	Known concentration	(1) $PO_4(0)$=PO_{40}
$z = z_{bio}$	Continuity	(2) $PO_4(z_{bio}^-) = PO_4(z_{bio}^+)$
	Flux	(3) $\left(D_{PO_4,0} + D_{bio}\right) \cdot \frac{\partial PO_4}{\partial z}\|_{z_{bio}^-} = D_{PO_4,0} \cdot \frac{\partial PO_4}{\partial z}\|_{z_{bio}^+}$
$z = z_{ox}$	Continuity	(4) $PO_4(z_{ox}^-) = PO_4(z_{ox}^+)$
	Flux	(5) $-\frac{D_{PO_4}}{1+K_{PO_4}^{ox}} \cdot \frac{\partial PO_4}{\partial z}\|_{z_{ox}^-} = -\frac{D_{PO_4}}{1+K_{PO_4}^{anox}} \cdot \frac{\partial PO_4}{\partial z}\|_{z_{ox}^+}$
$z = z_{max}$	Flux	(10) $\frac{\partial PO_4}{\partial z}\|_{z_{max}} = 0$
$z = 0$	Known concentration	(1) $FeP(0) = FeP_0$
$z = z_{bio}$	Continuity	(2) $FeP(z_{bio}^-) = FeP(z_{bio}^+)$
	Flux	(3) $\frac{\partial FeP}{\partial z}\|_{z_{bio}^-} = \frac{\partial FeP}{\partial z}\|_{z_{bio}^+}$
$z = z_{ox}$	Continuity	(4) $FeP(z_{ox}^-) = FeP(z_{ox}^+)$
	Flux	(5) $\frac{\partial FeP}{\partial z}\|_{z_{ox}^-} = \frac{\partial FeP}{\partial z}\|_{z_{ox}^+}$
$z = z_{max}$	Asymptotic concentration	(10) $FeP(z_{max}) = FeP^{\infty}$