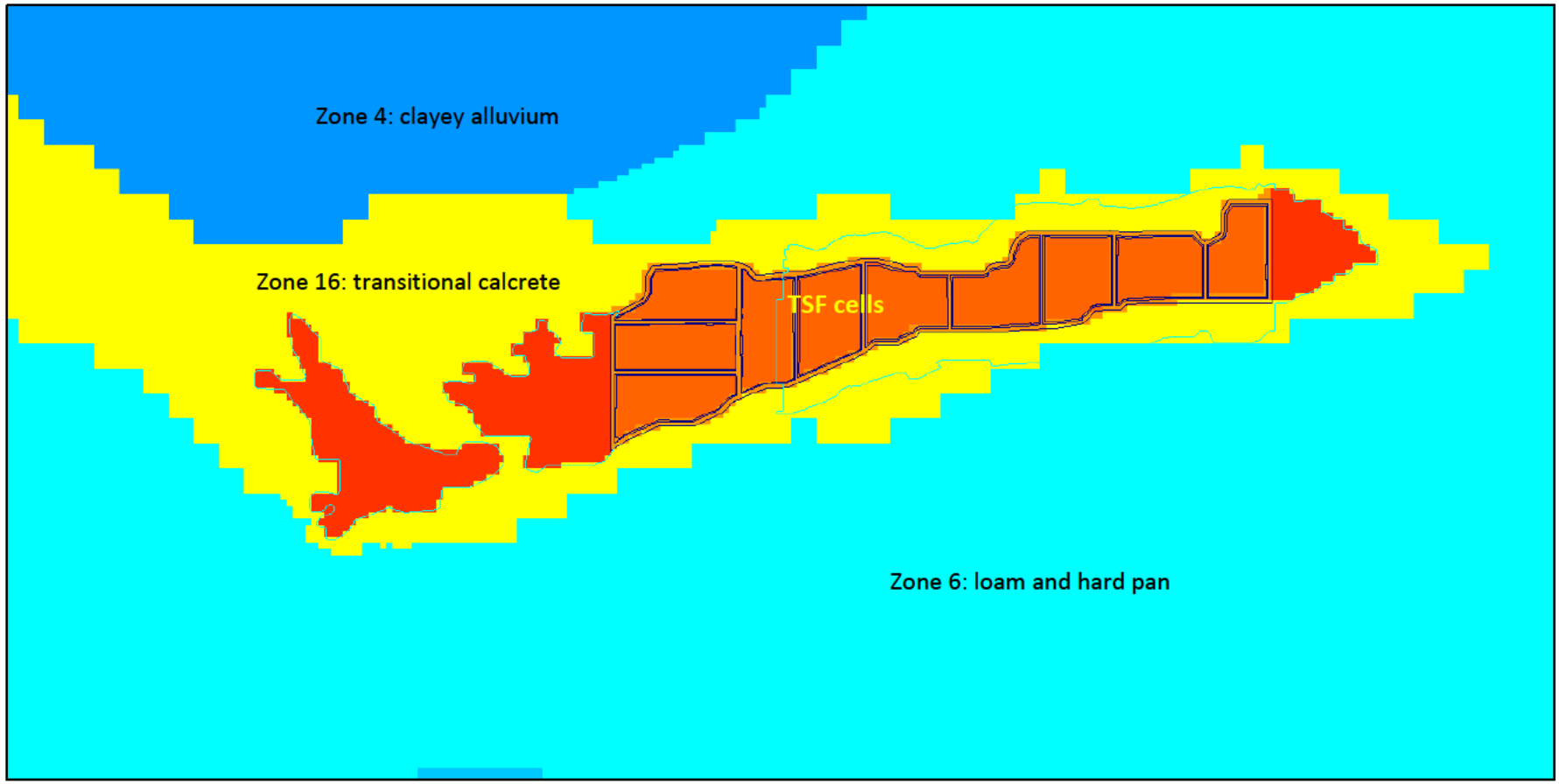

Figure 7.1 Geologic setting around the proposed mine site (model layer 2)

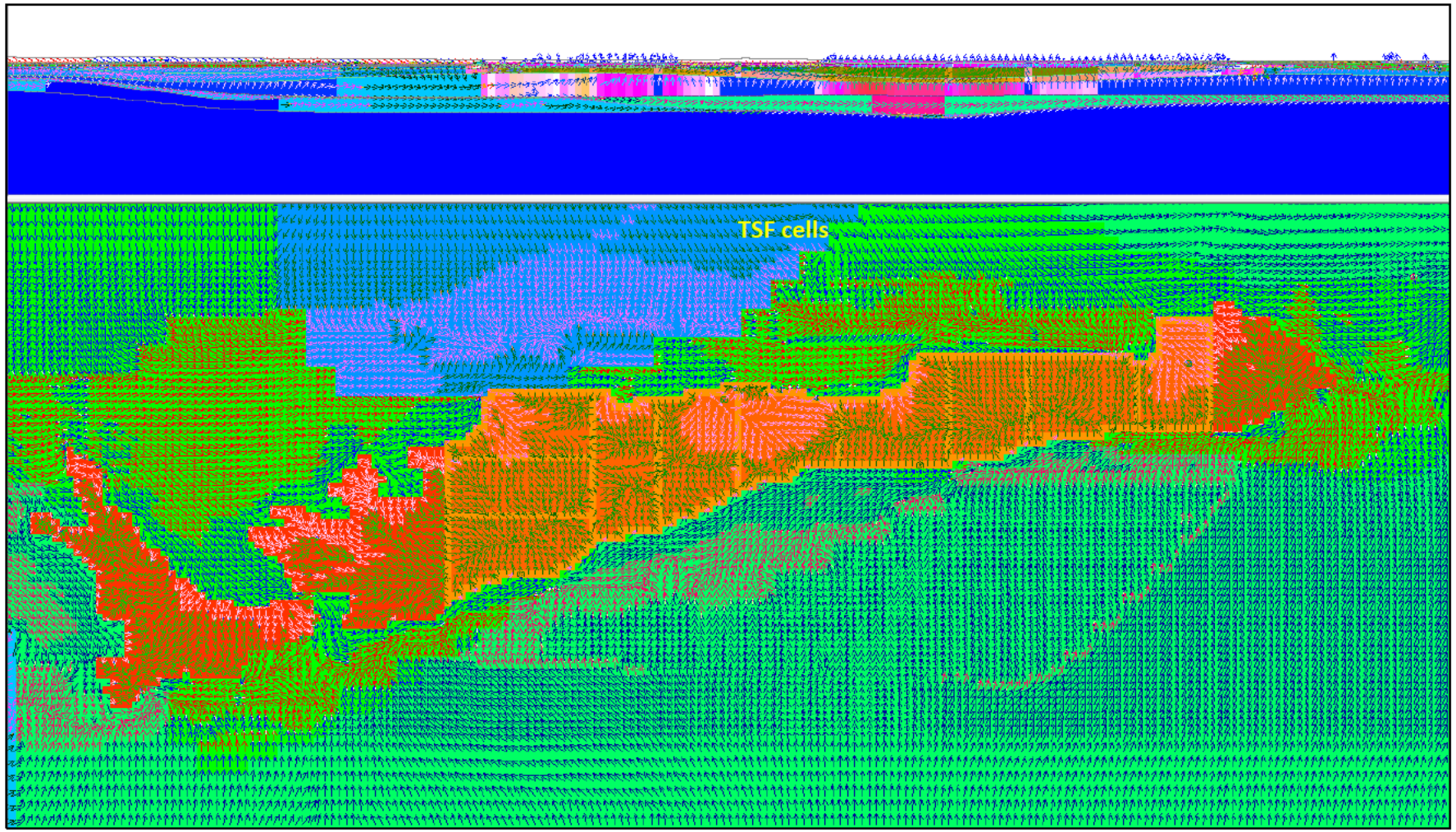

Figure 7.2 Simulated groundwater flow field around the proposed mine site (above: cross section; below: plan view, model layer 3)

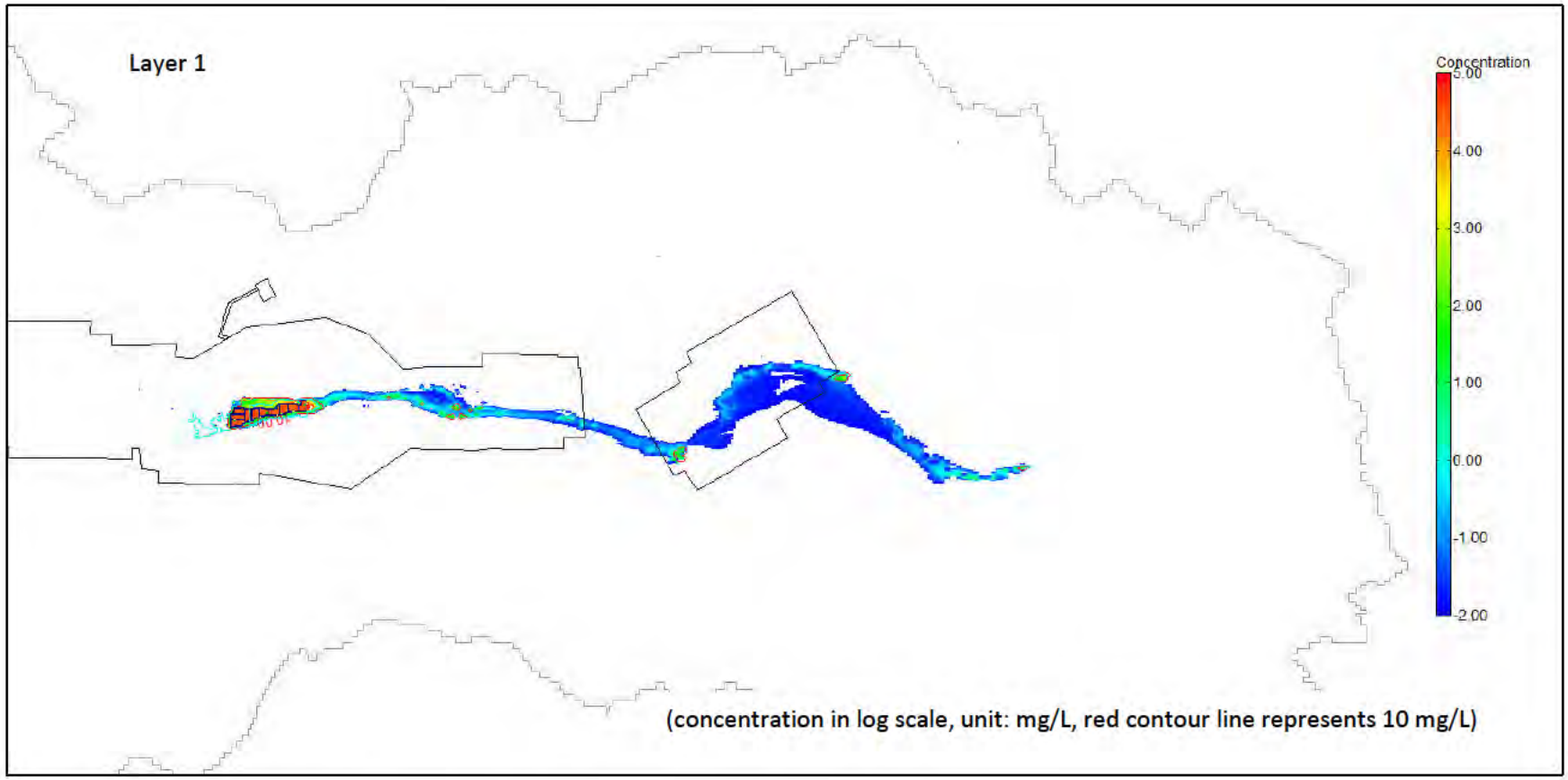

Figure 7.3a Simulated chloride transport plume in model layer 1 at year 15,000

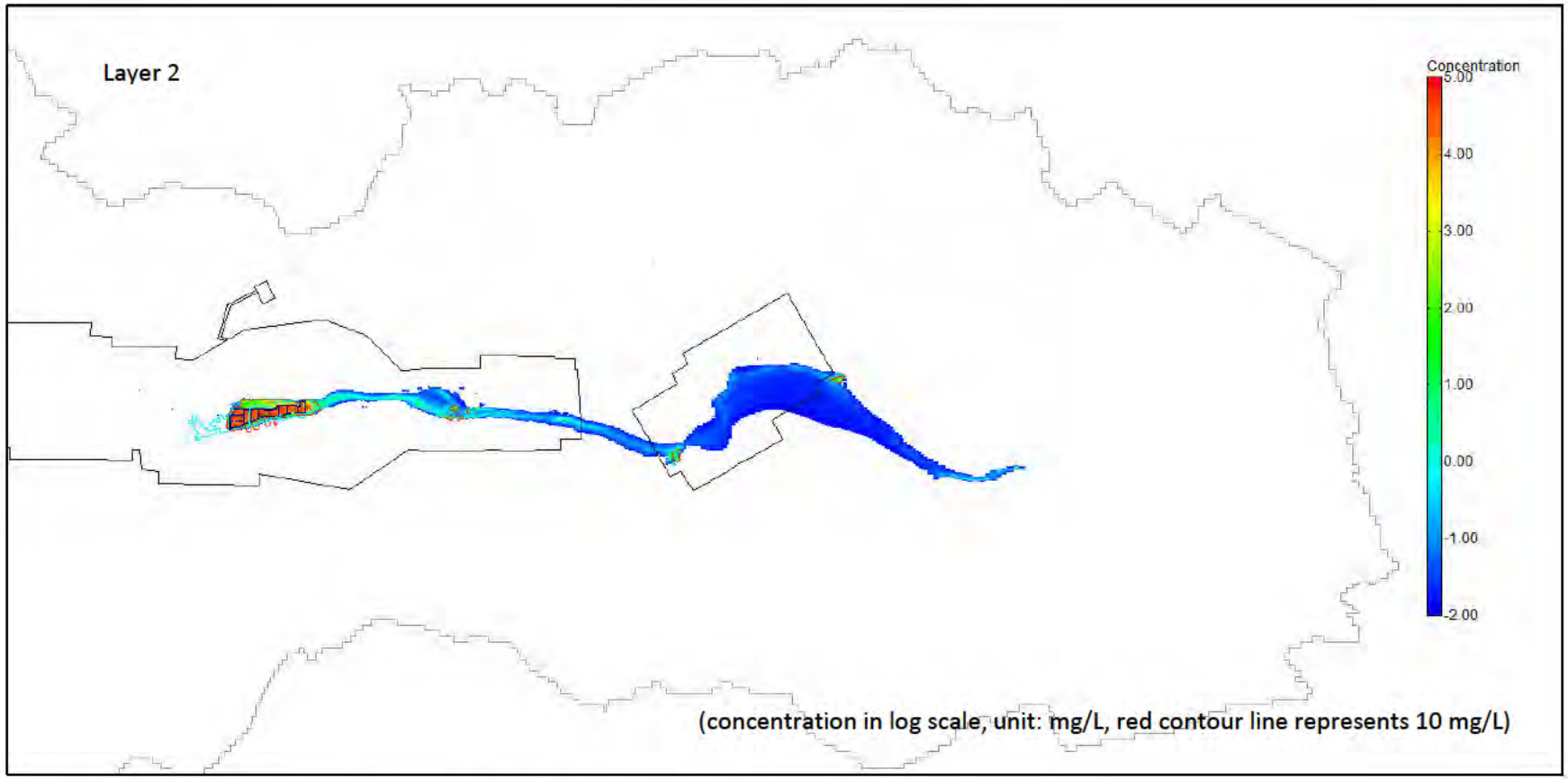

Figure 7.3b Simulated chloride transport plume in model layer 2 at year 15,000

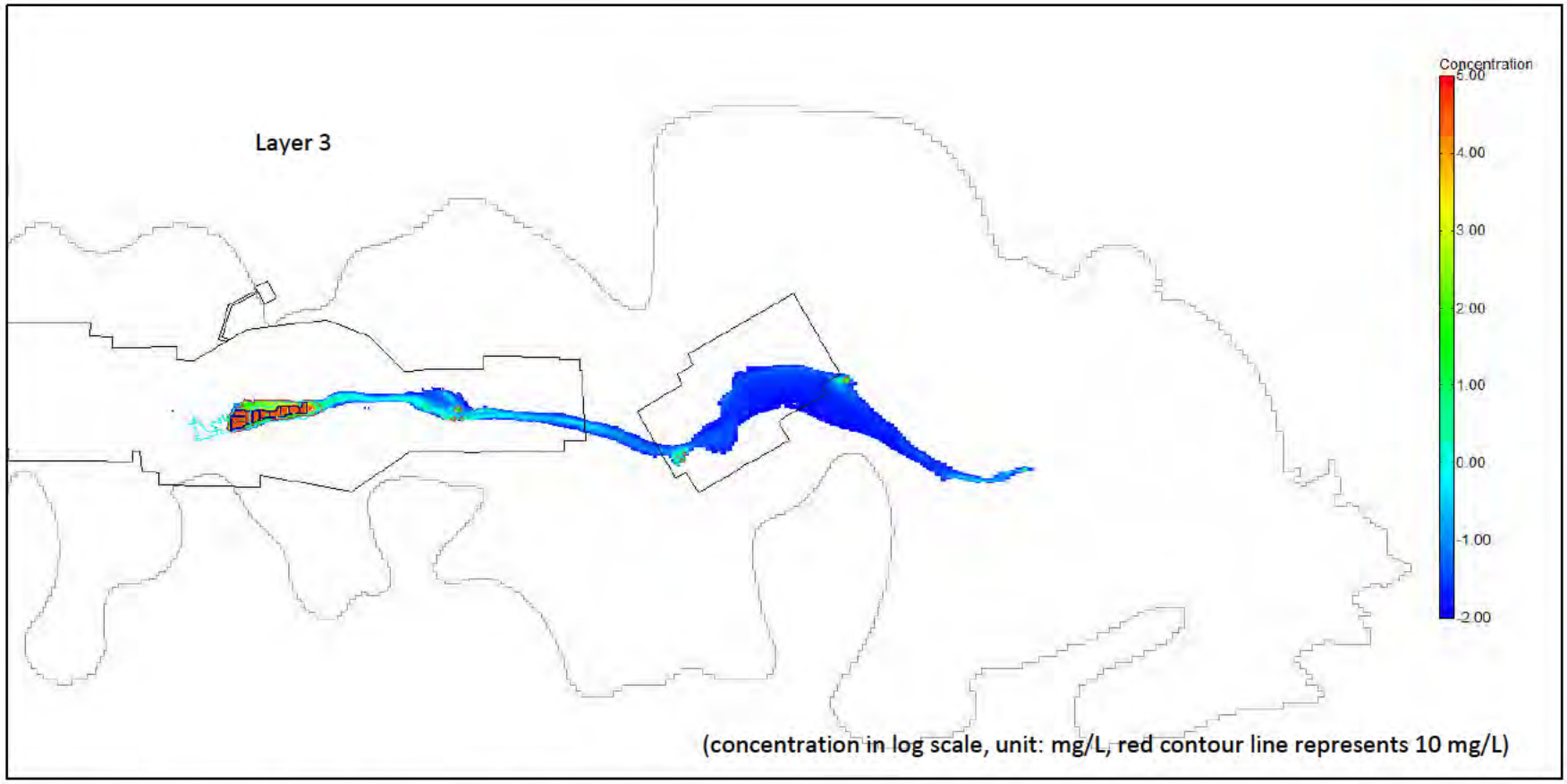

Figure 7.3c Simulated chloride transport plume in model layer 3 at year 15,000

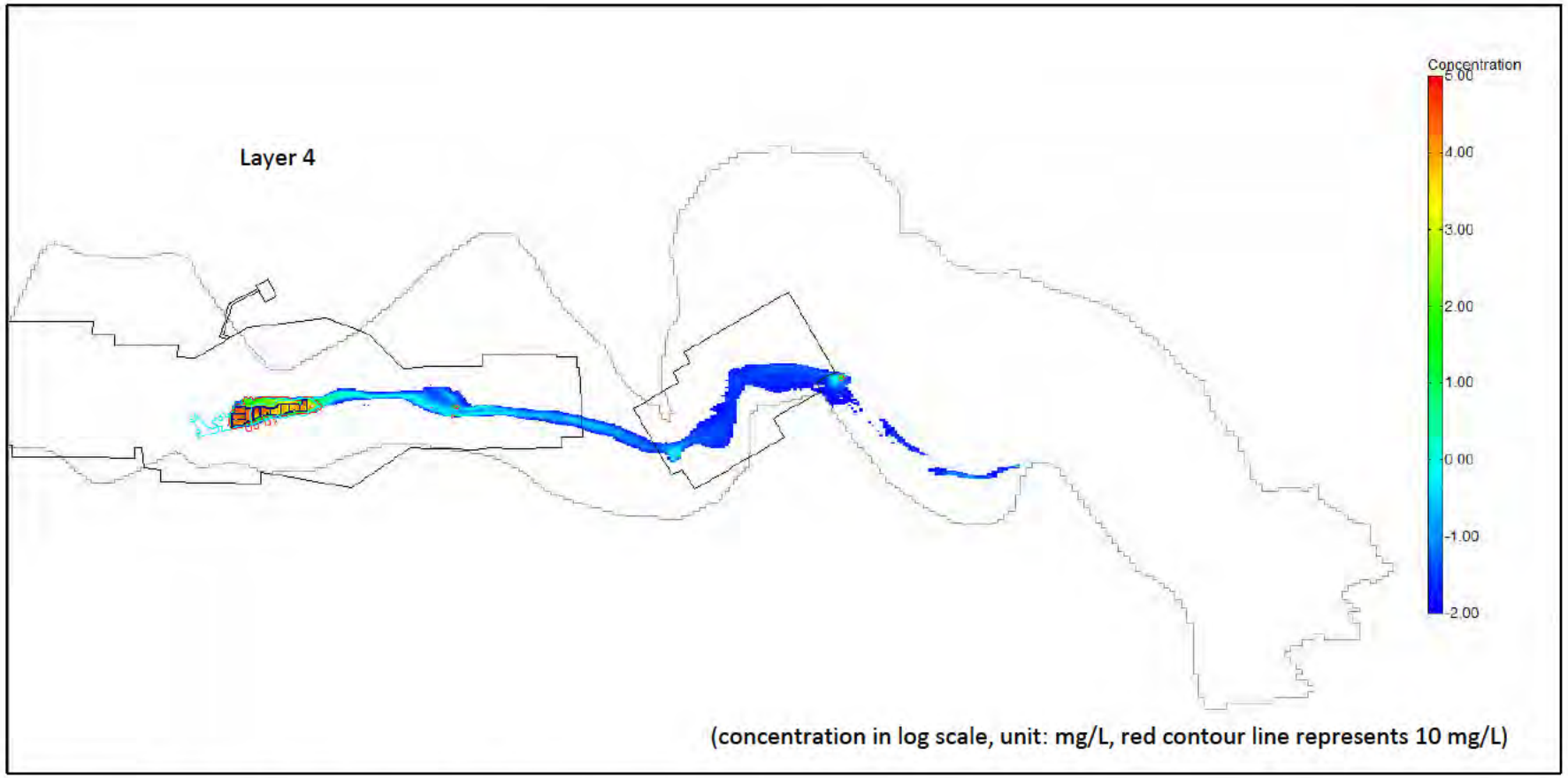

Figure 7.3d Simulated chloride transport plume in model layer 4 at year 15,000

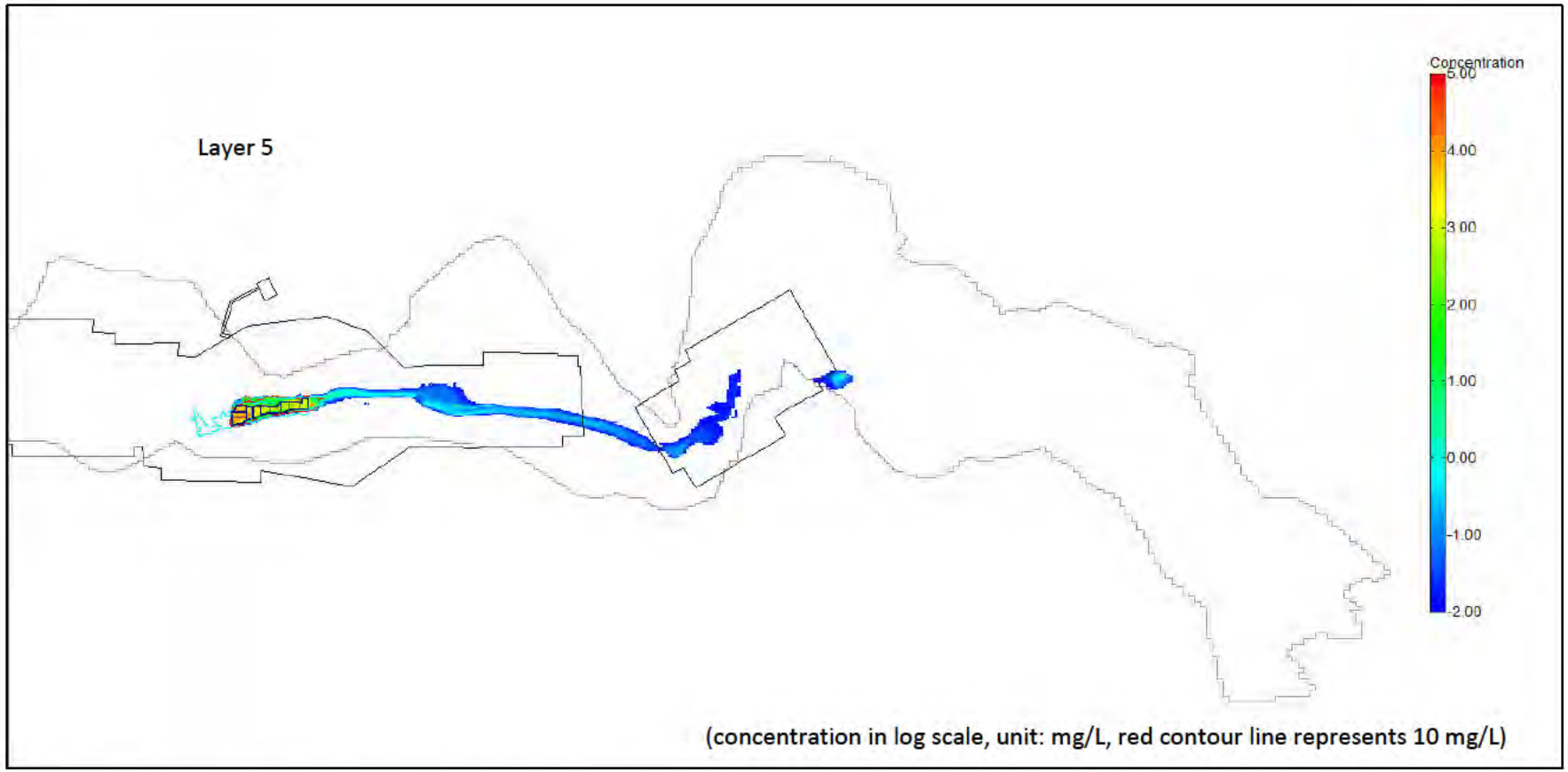

Figure 7.3e Simulated chloride transport plume in model layer 5 at year 15,000

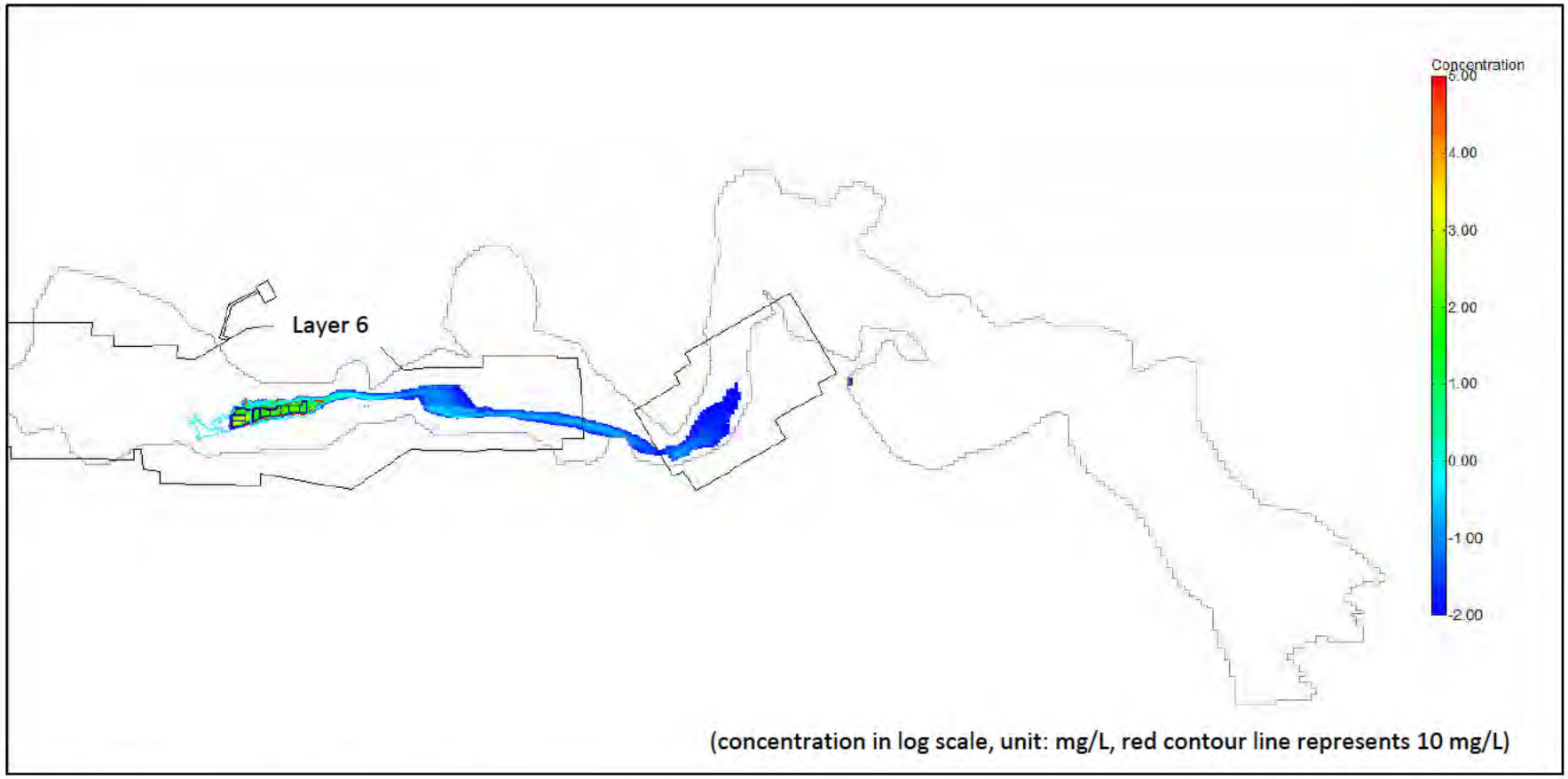

Figure 7.3f Simulated chloride transport plume in model layer 6 at year 15,000

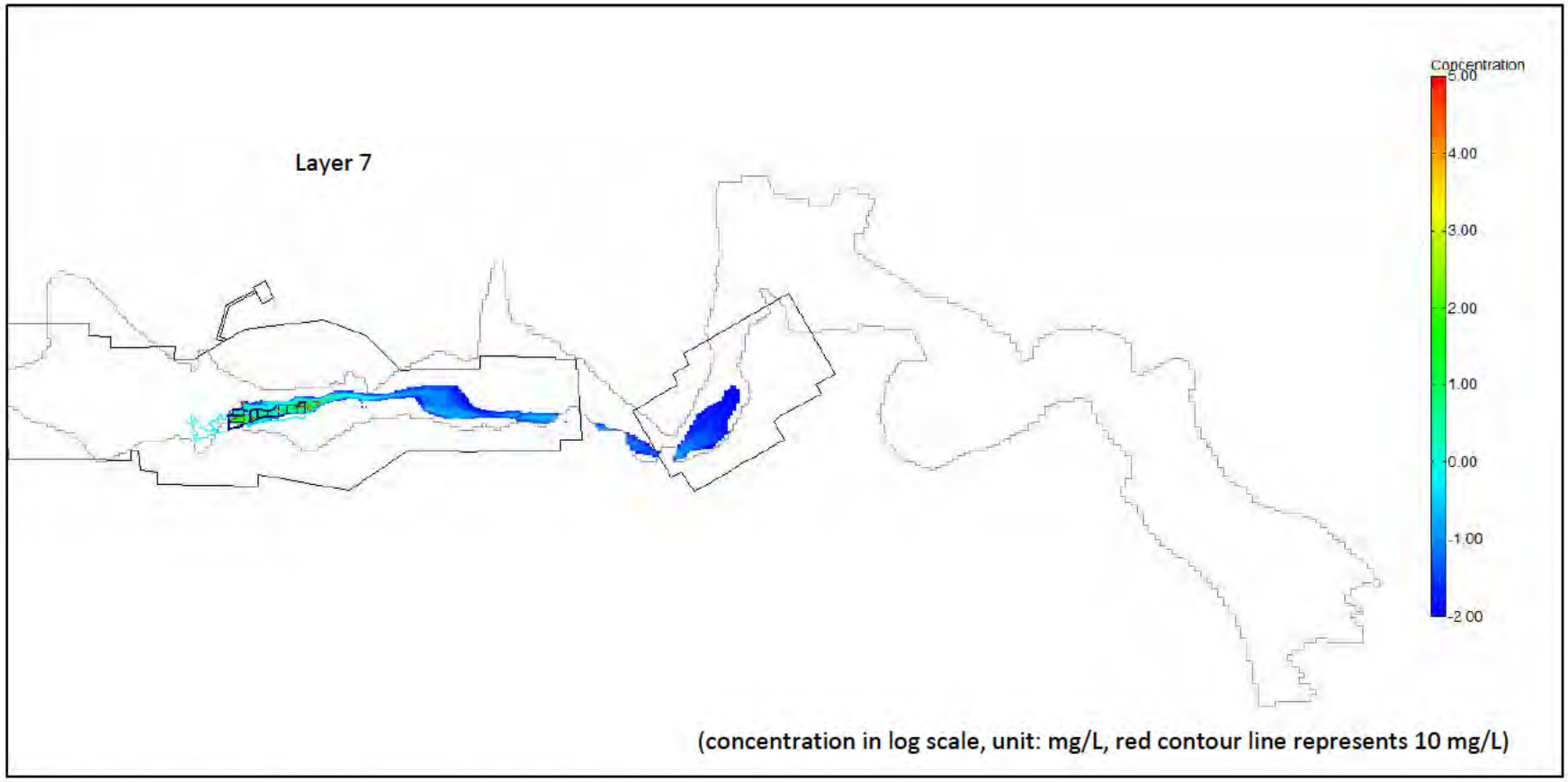

Figure 7.3g Simulated chloride transport plume in model layer 7 at year 15,000

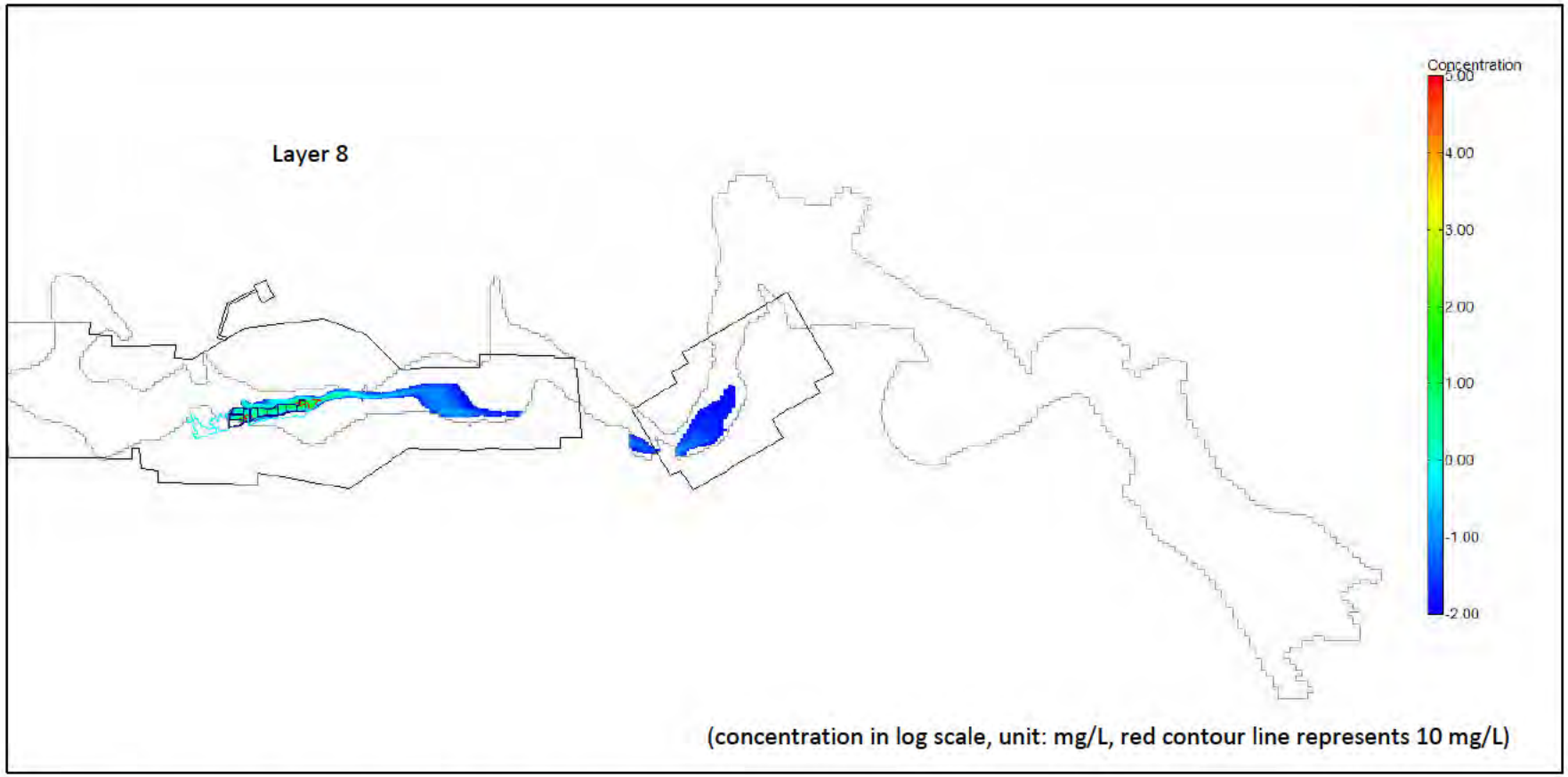

Figure 7.3h Simulated chloride transport plume in model layer 8 at year 15,000

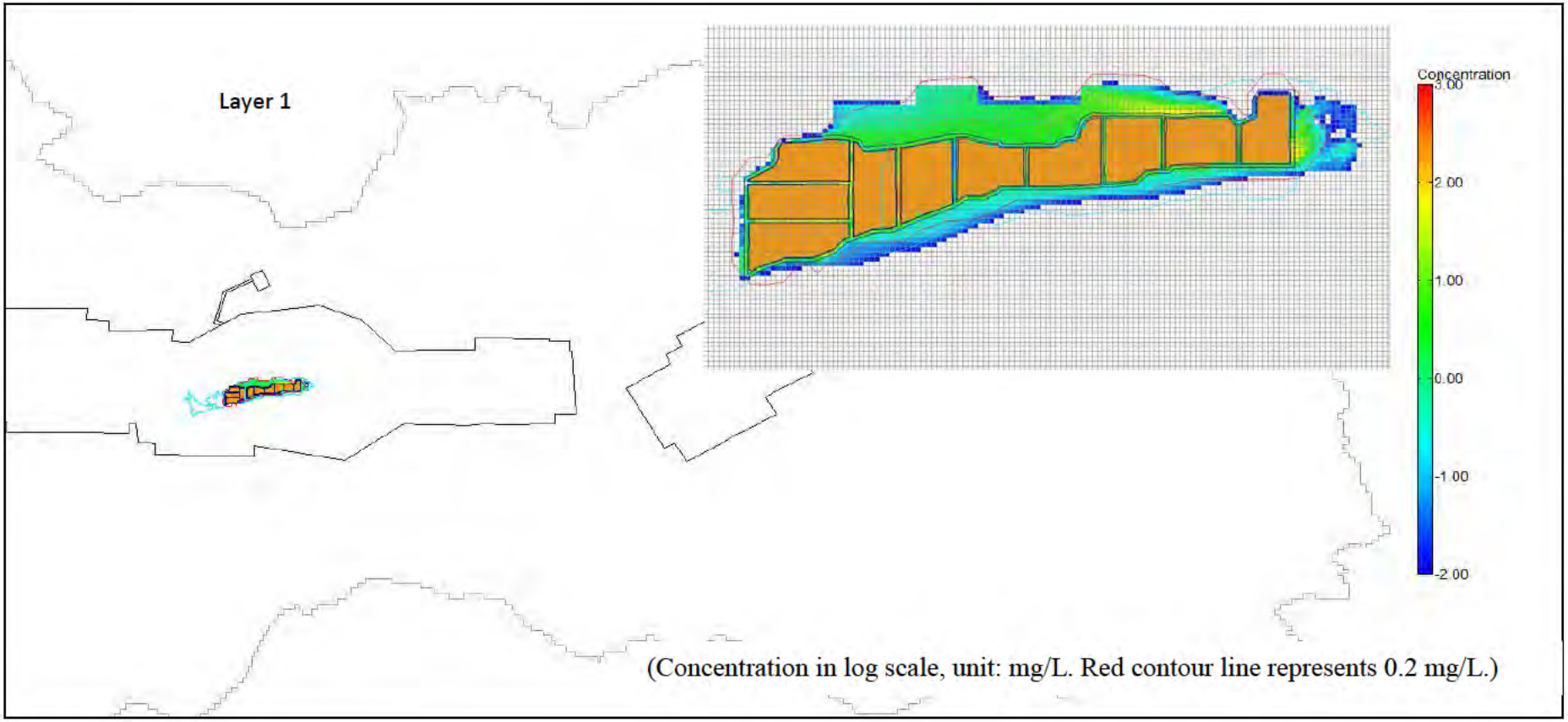

Figure 7.4a Simulated uranium transport plume in model layer 1 at year 15,000

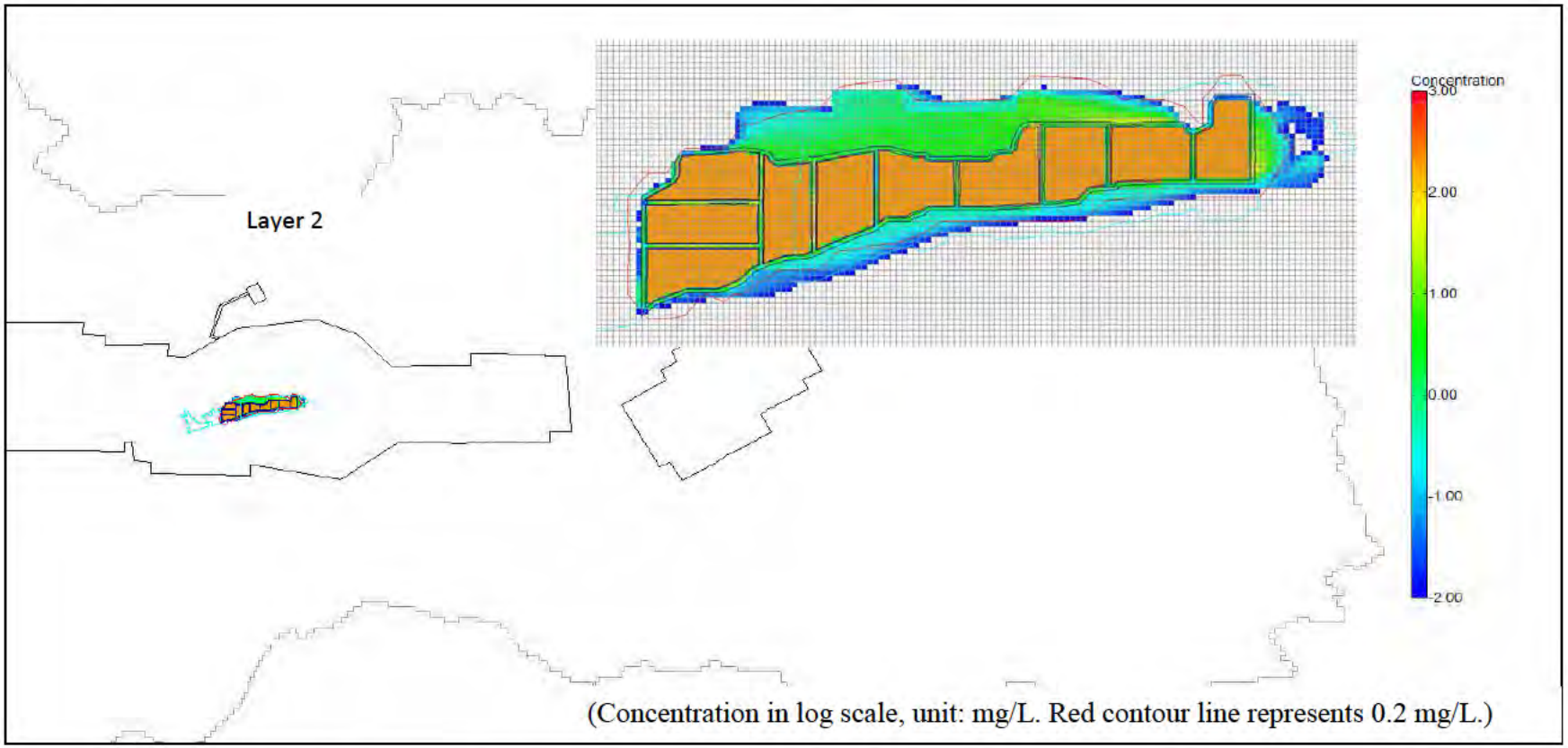

Figure 7.4b Simulated uranium transport plume in model layer 2 at year 15,000

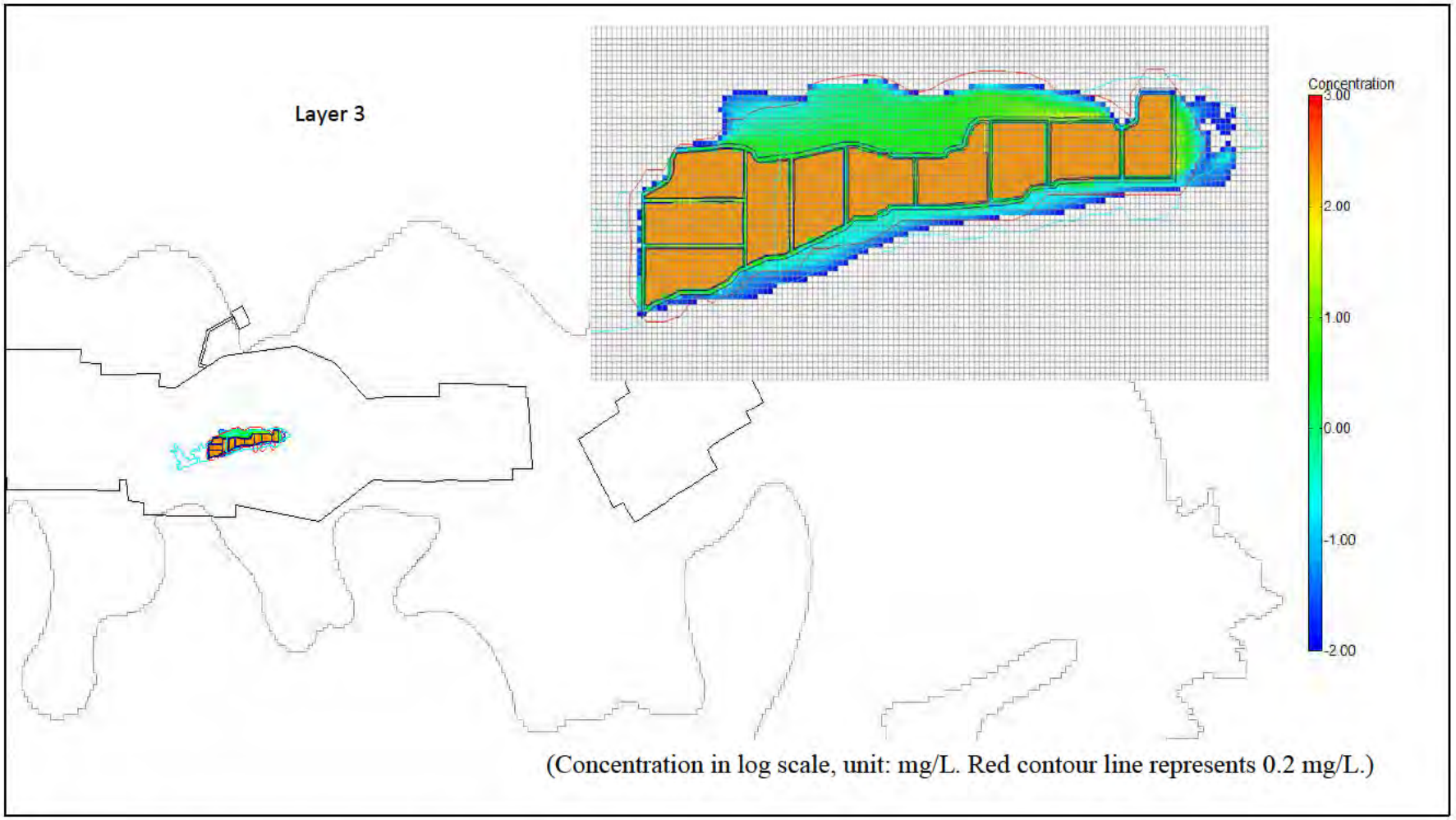

Figure 7.4c Simulated uranium transport plume in model layer 3 at year 15,000

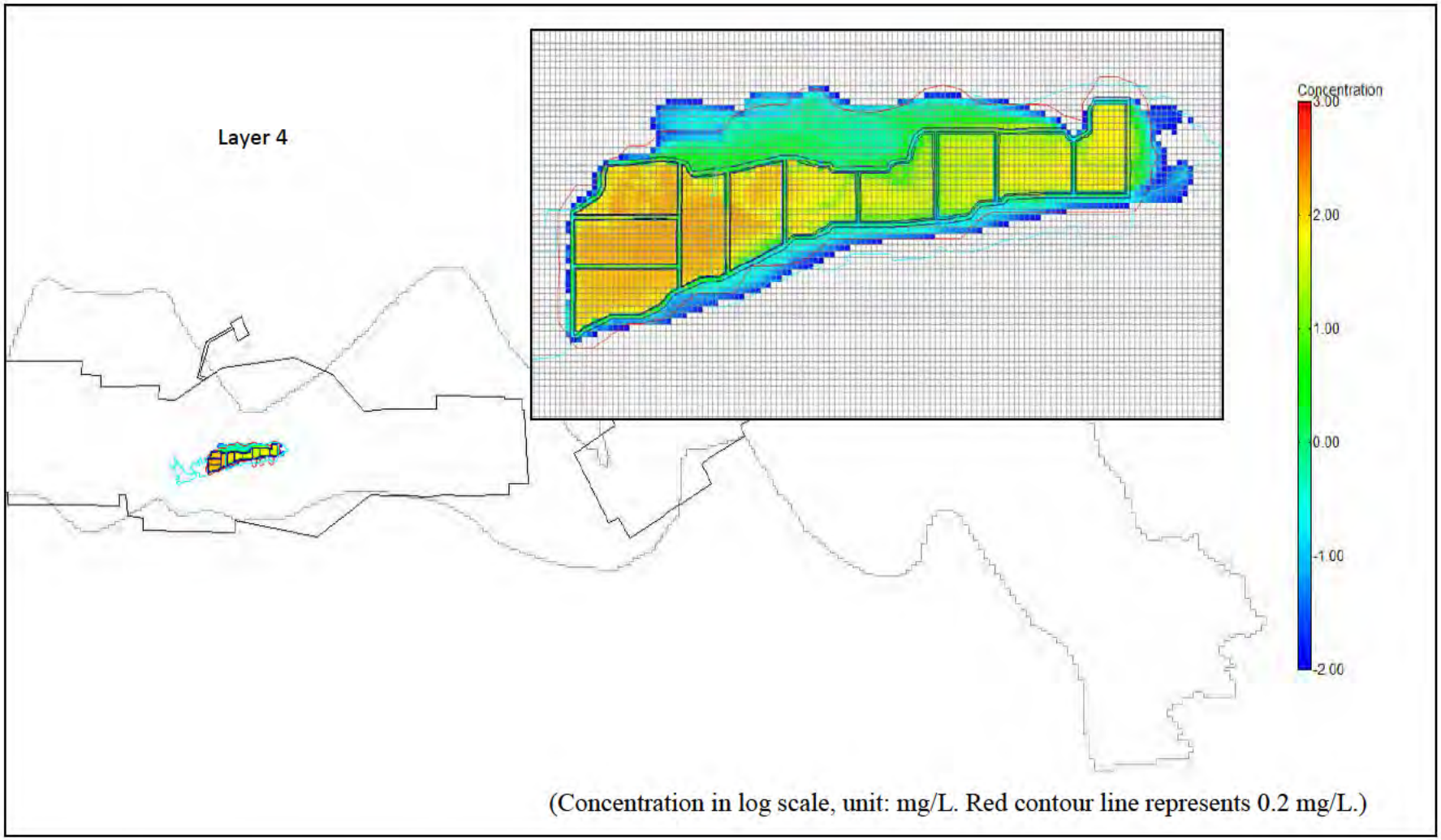

Figure 7.4d Simulated uranium transport plume in model layer 4 at year 15,000

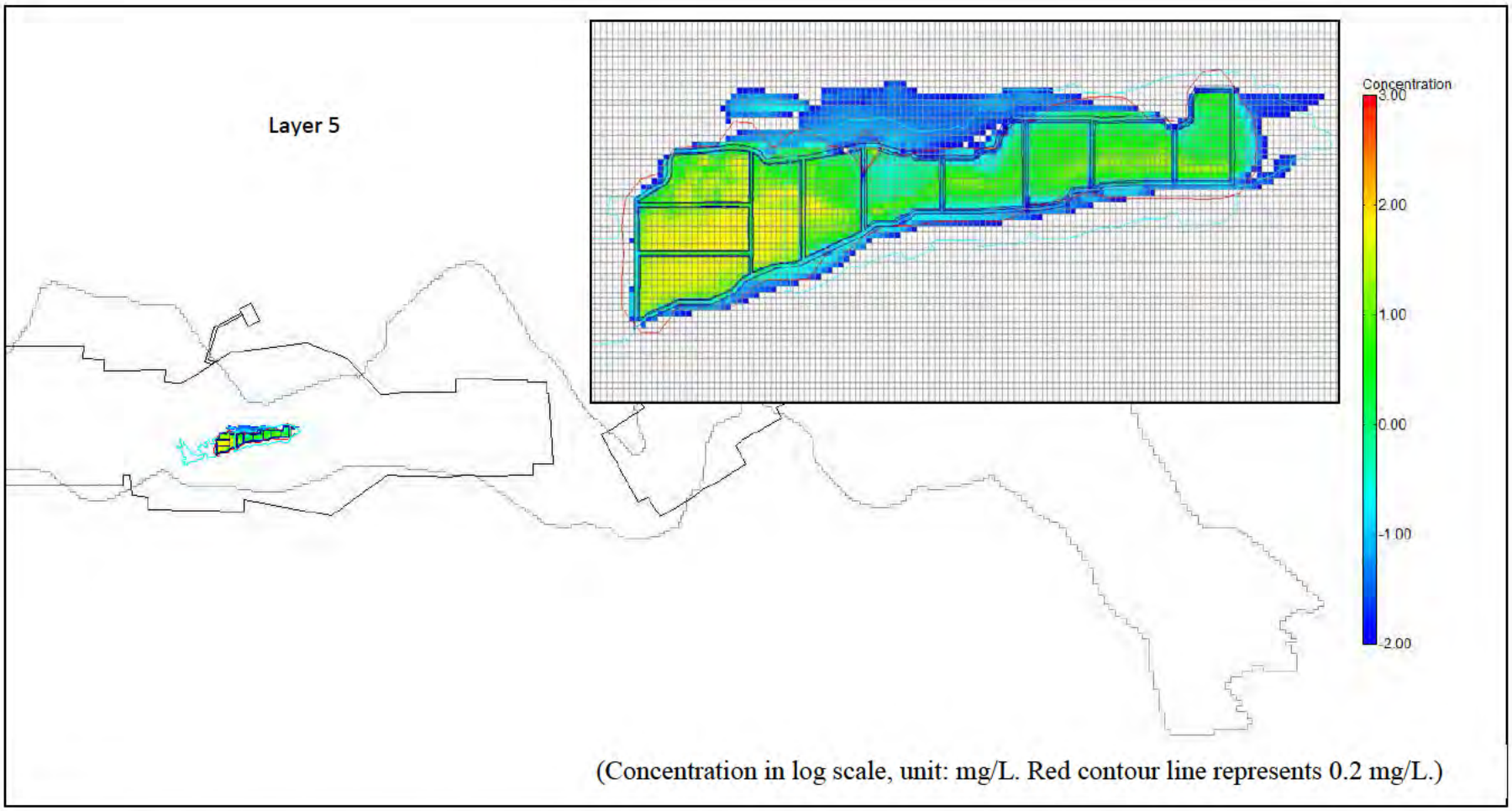

Figure 7.4e Simulated uranium transport plume in model layer 5 at year 15,000

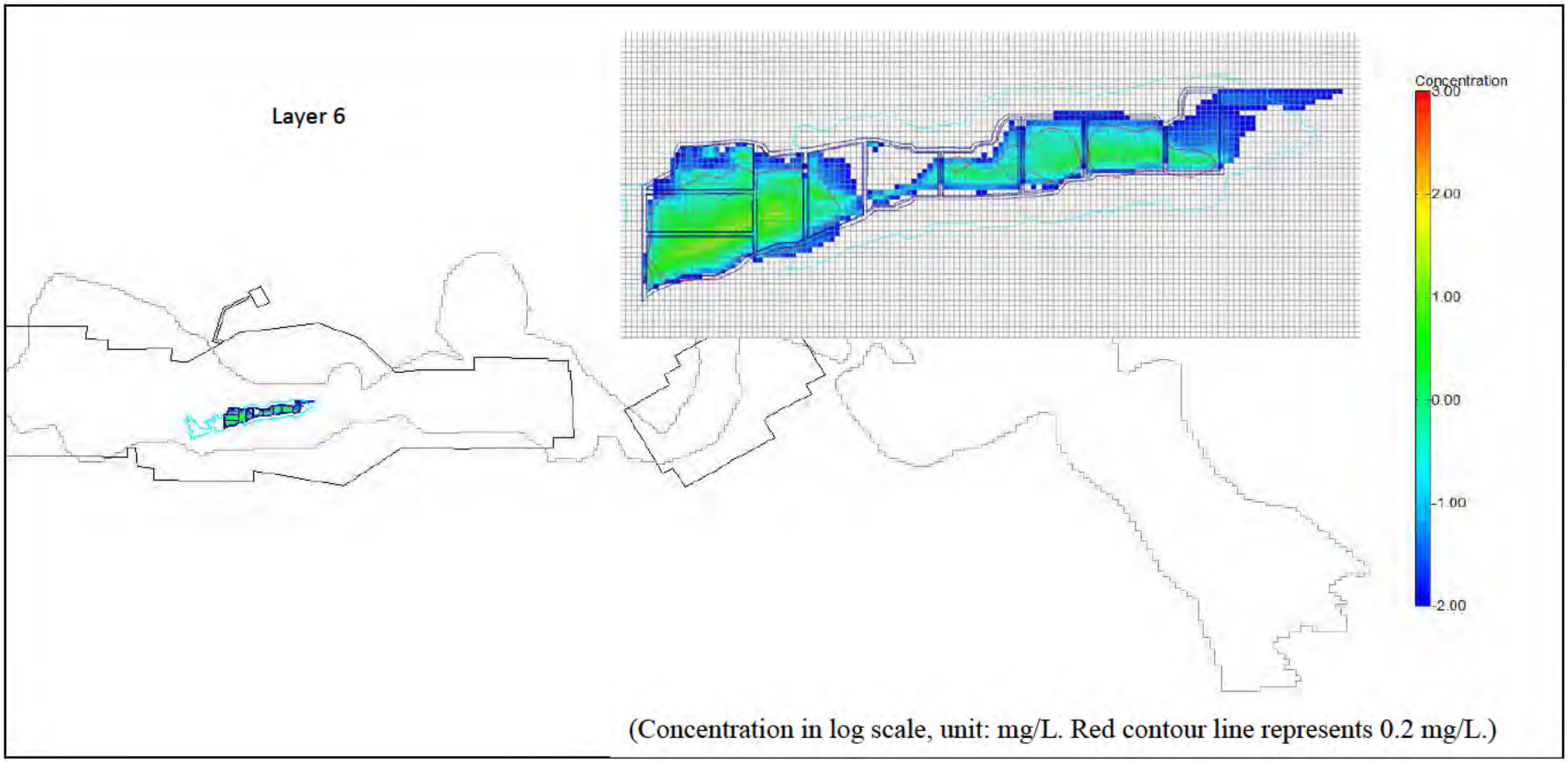

Figure 7.4f Simulated uranium transport plume in model layer 6 at year 15,000

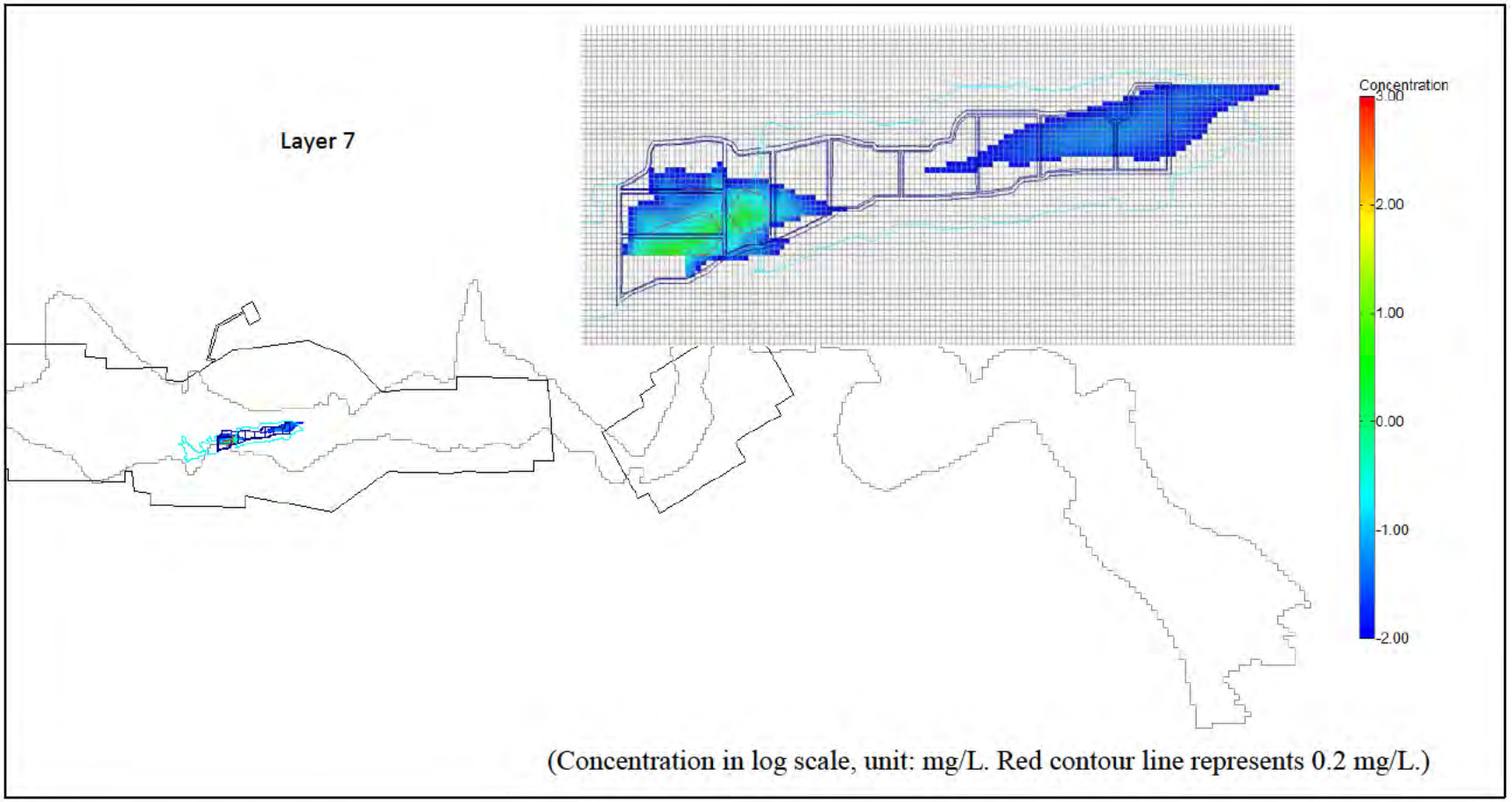

Figure 7.4g Simulated uranium transport plume in model layer 7 at year 15,000

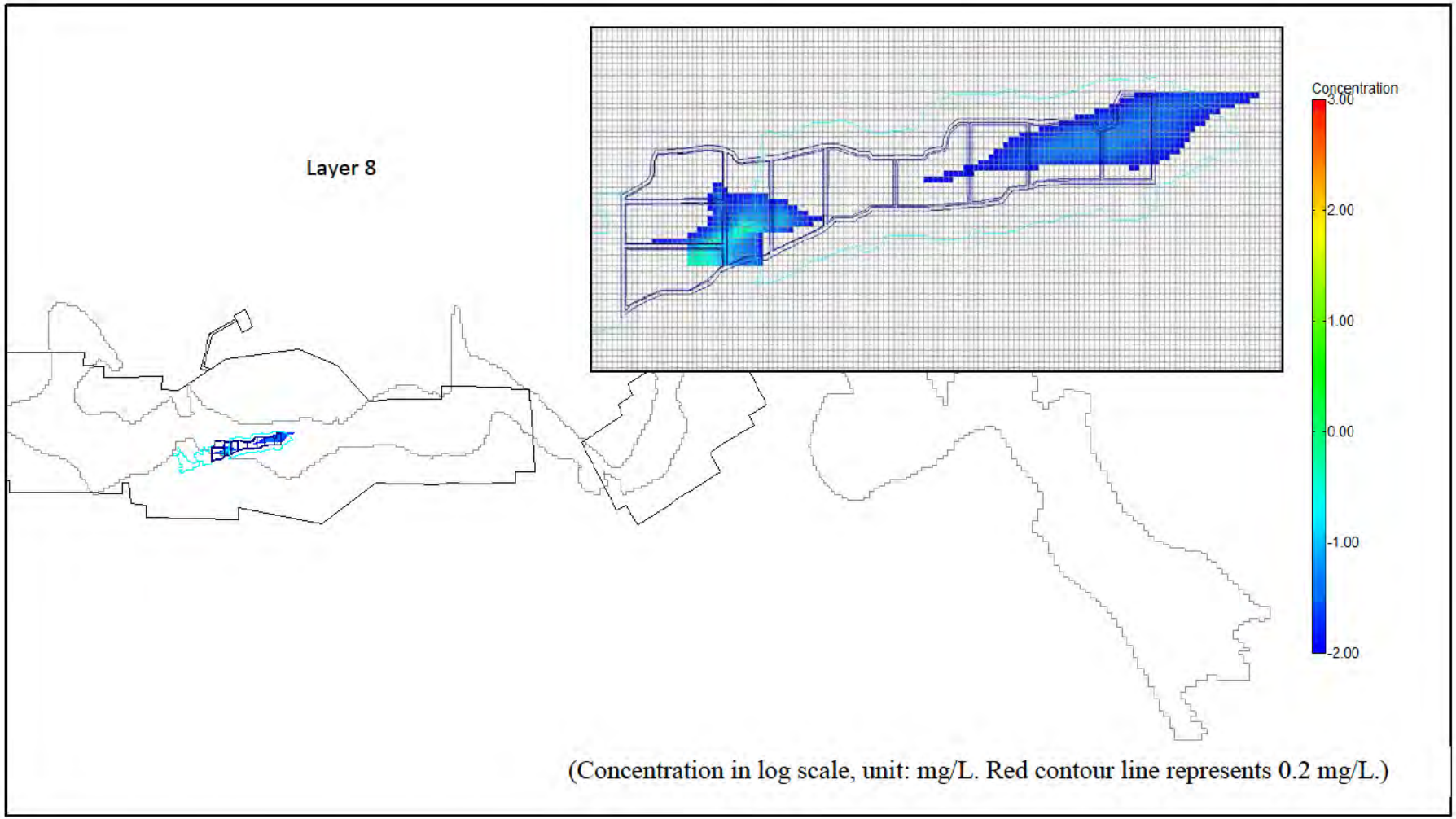

Figure 7.4h Simulated uranium transport plume in model layer 8 at year 15,000

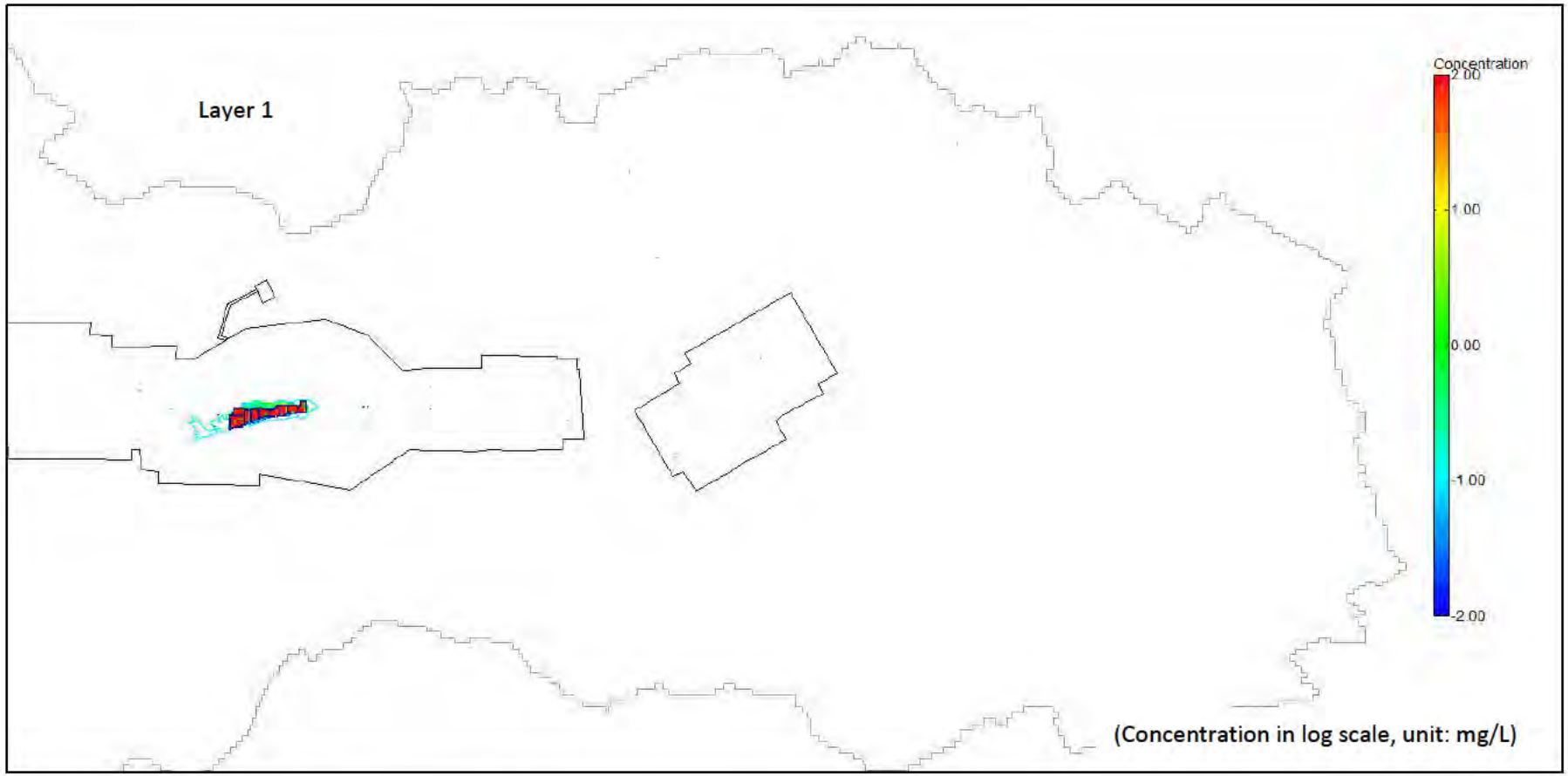

Figure 7.5a Simulated vanadium transport plume in layer 1 at year 15,000

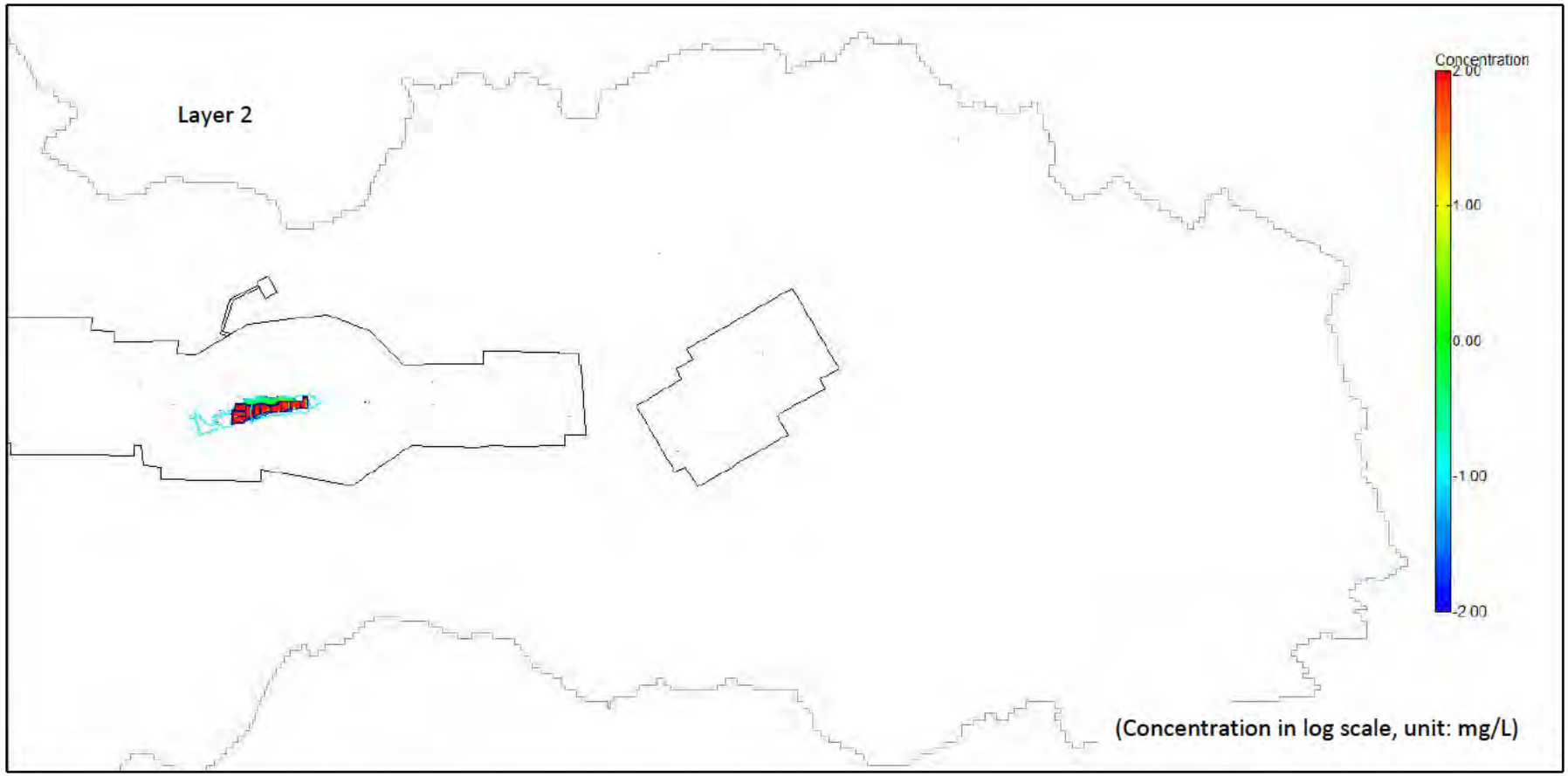

Figure 7.5b Simulated vanadium transport plume in layer 2 at year 15,000

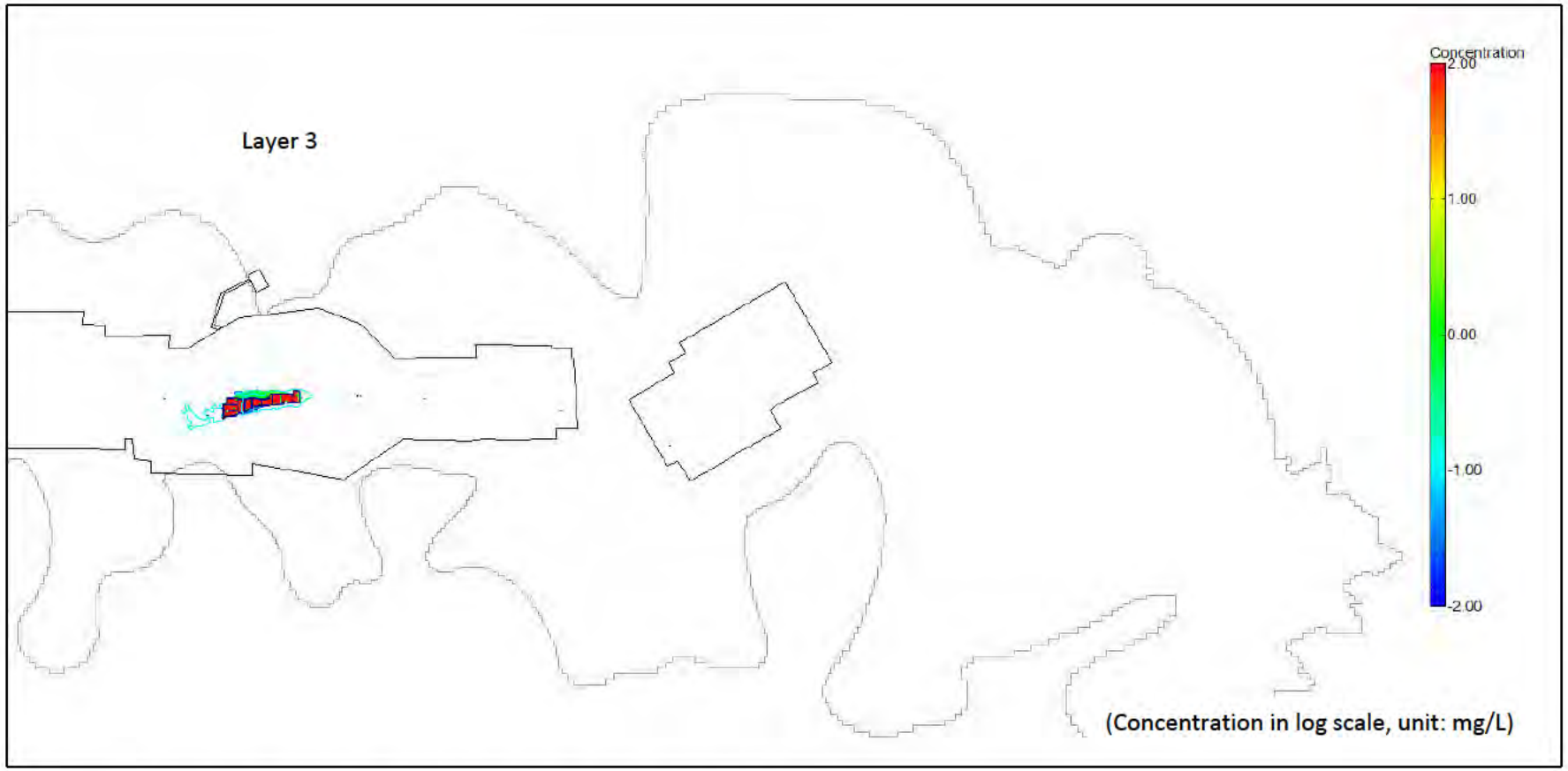

Figure 7.5c Simulated vanadium transport plume in layer 3 at year 15,000

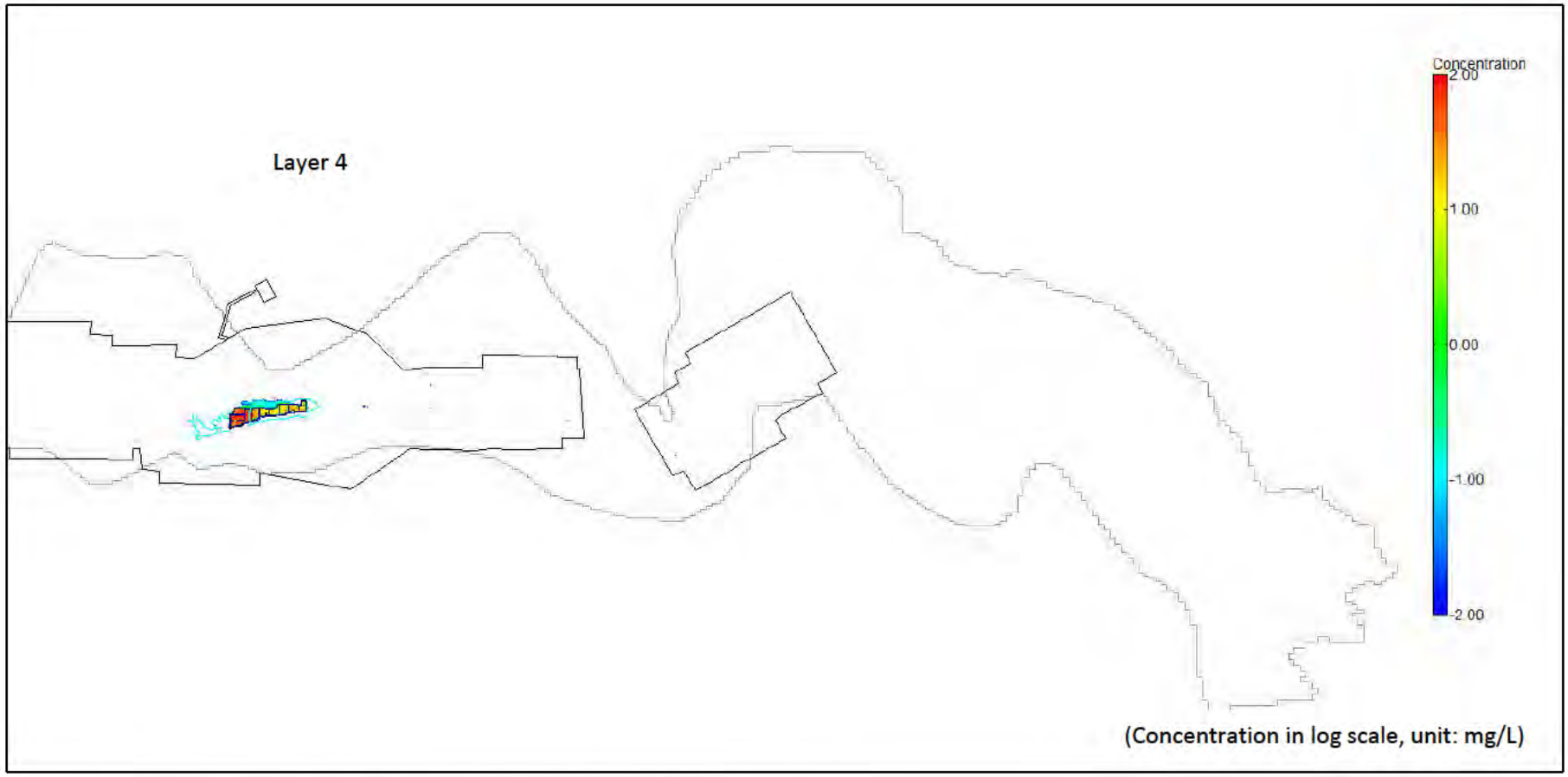

Figure 7.5d Simulated vanadium transport plume in layer 4 at year 15,000

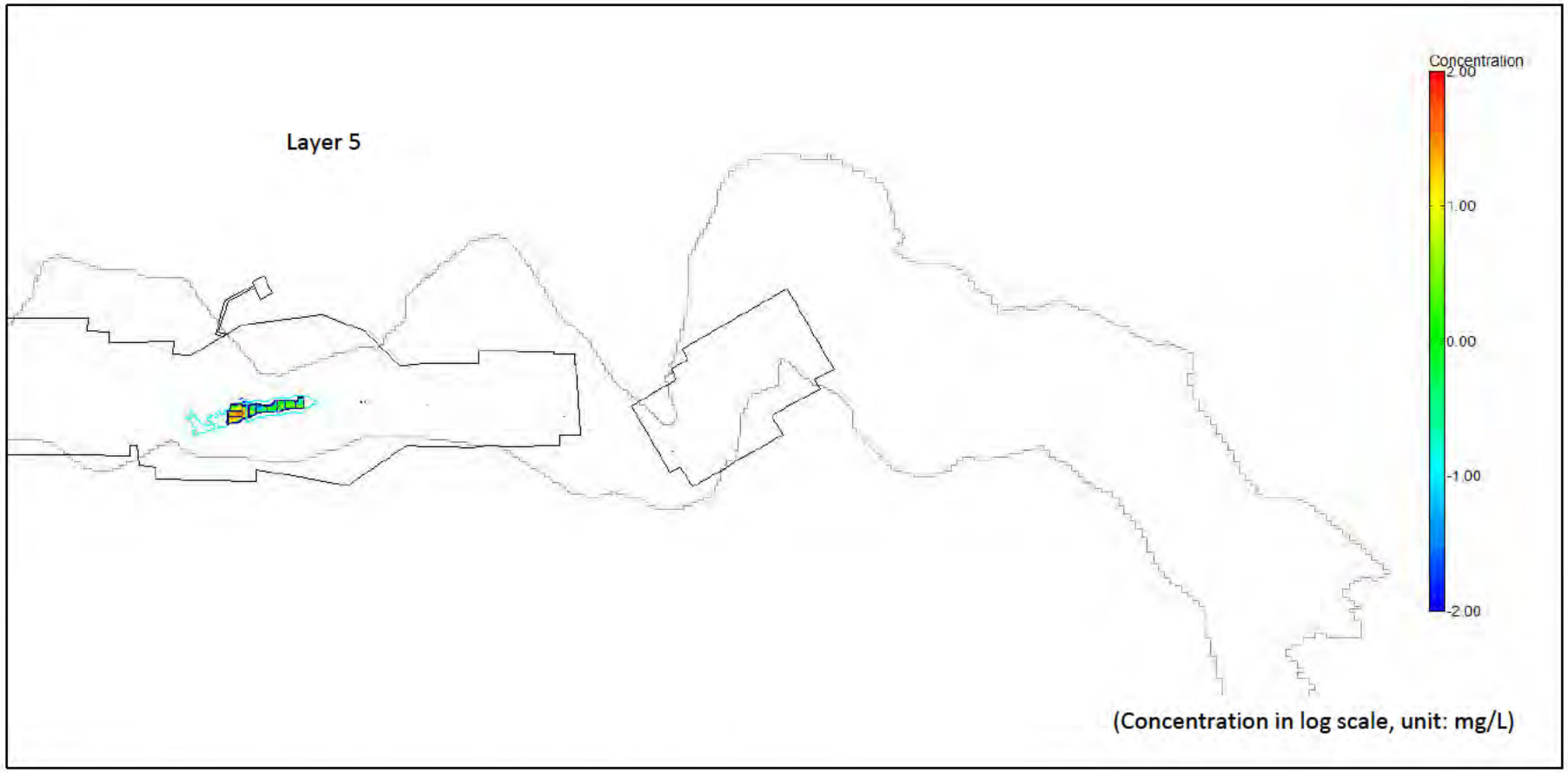

Figure 7.5e Simulated vanadium transport plume in layer 5 at year 15,000

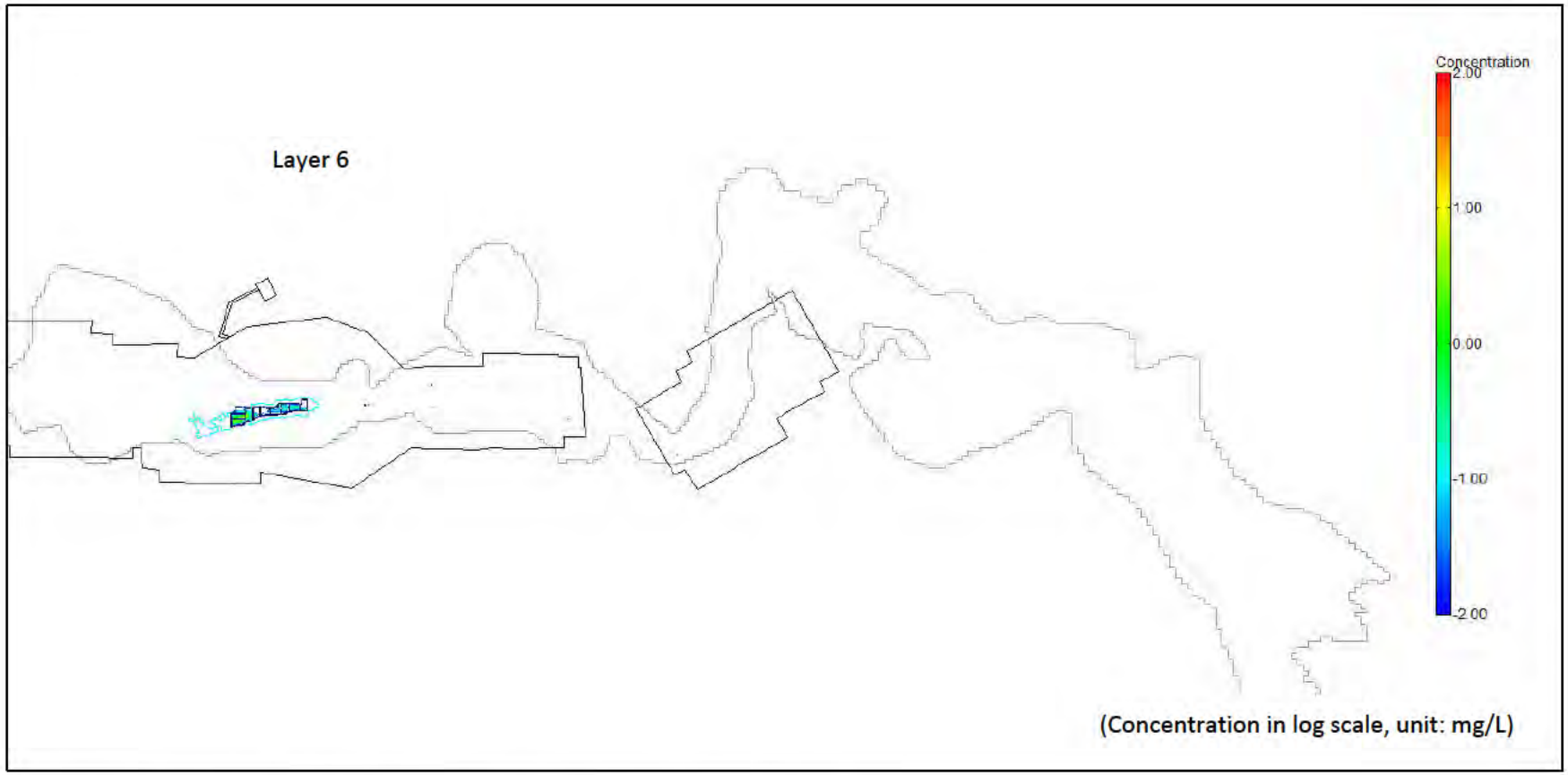

Figure 7.5f Simulated vanadium transport plume in layer 6 at year 15,000

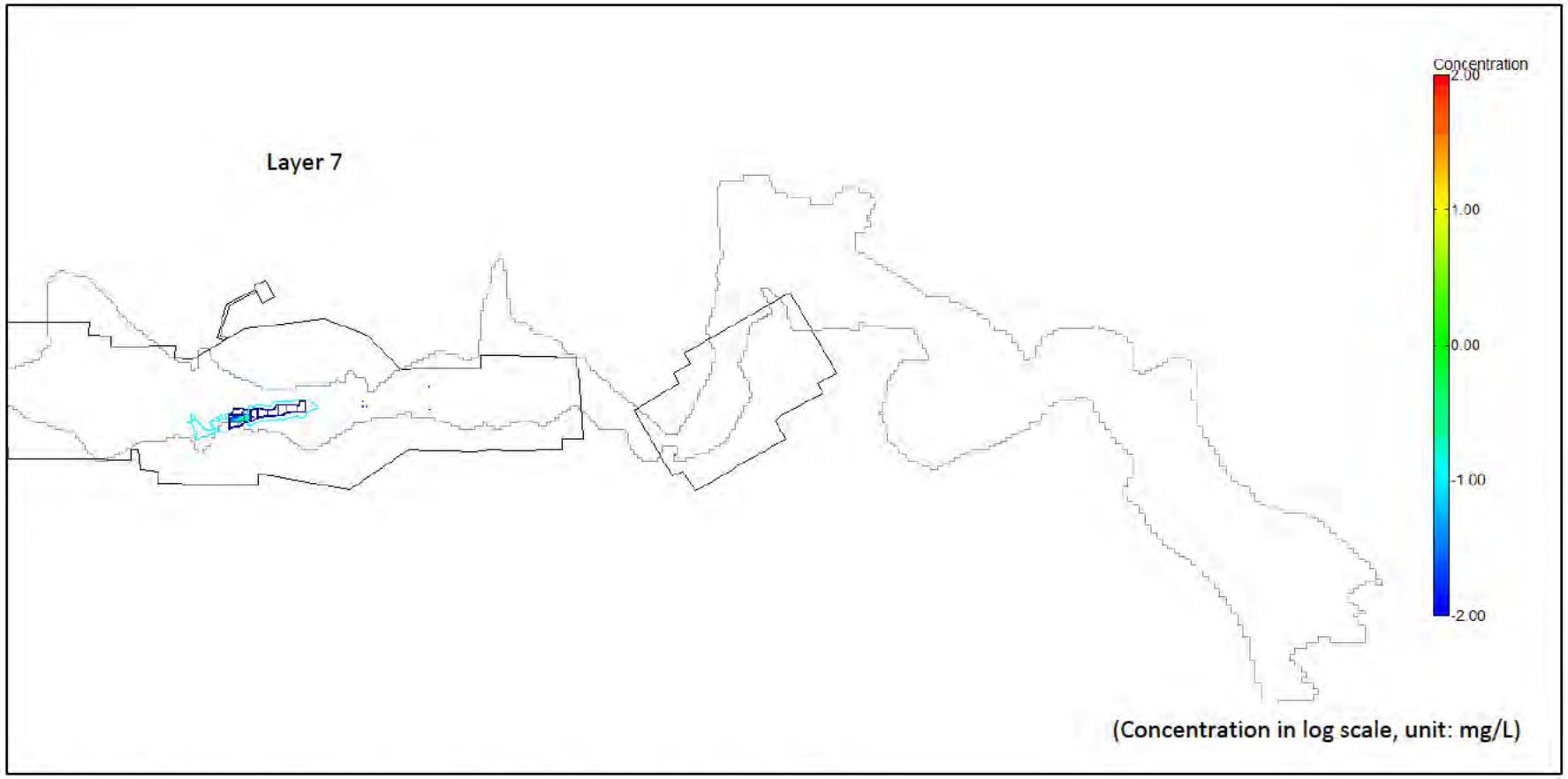

Figure 7.5g Simulated vanadium transport plume in layer 7 at year 15.000

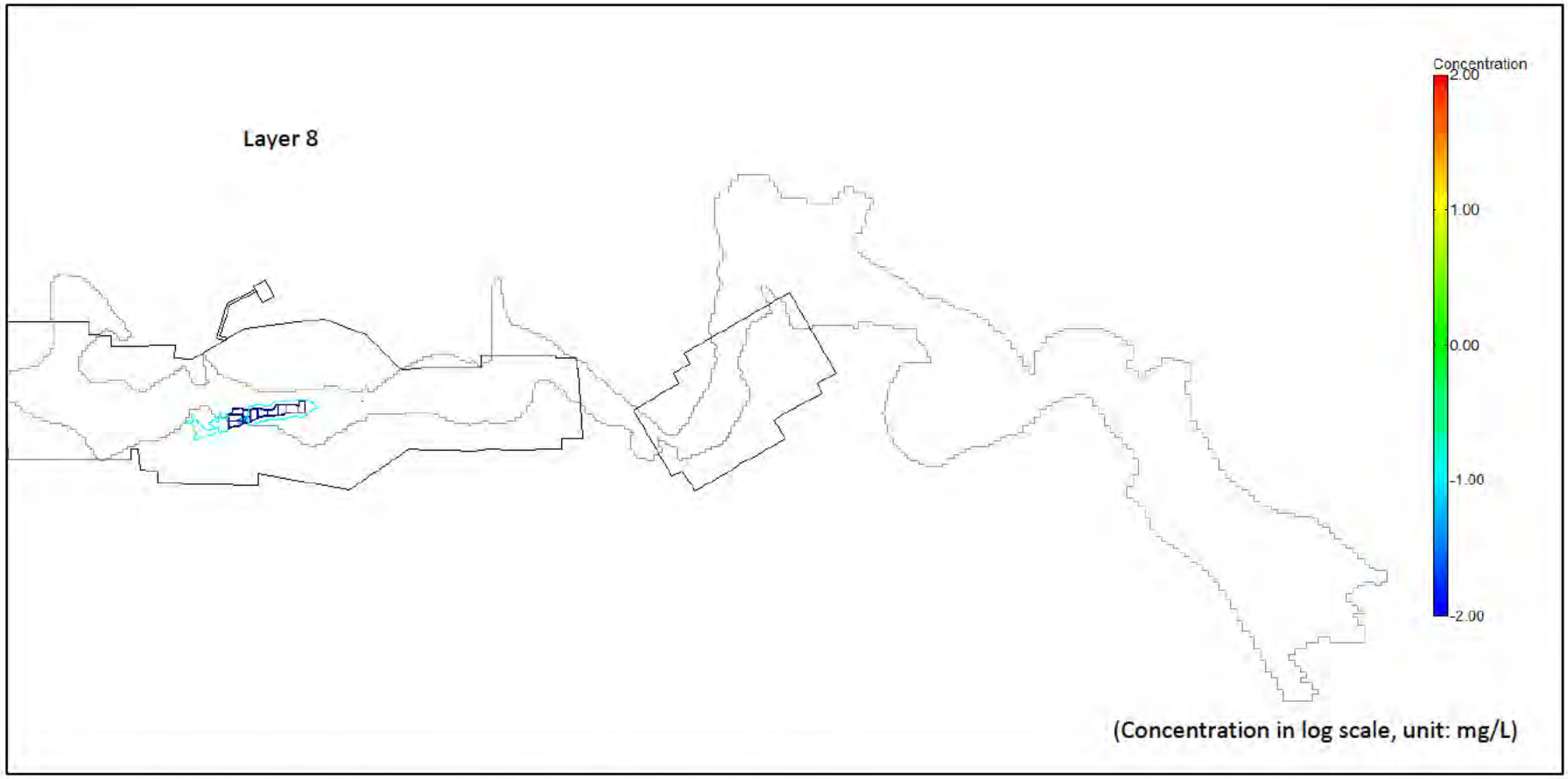

Figure 7.5h Simulated vanadium transport plume in layer 8 at year 15,000

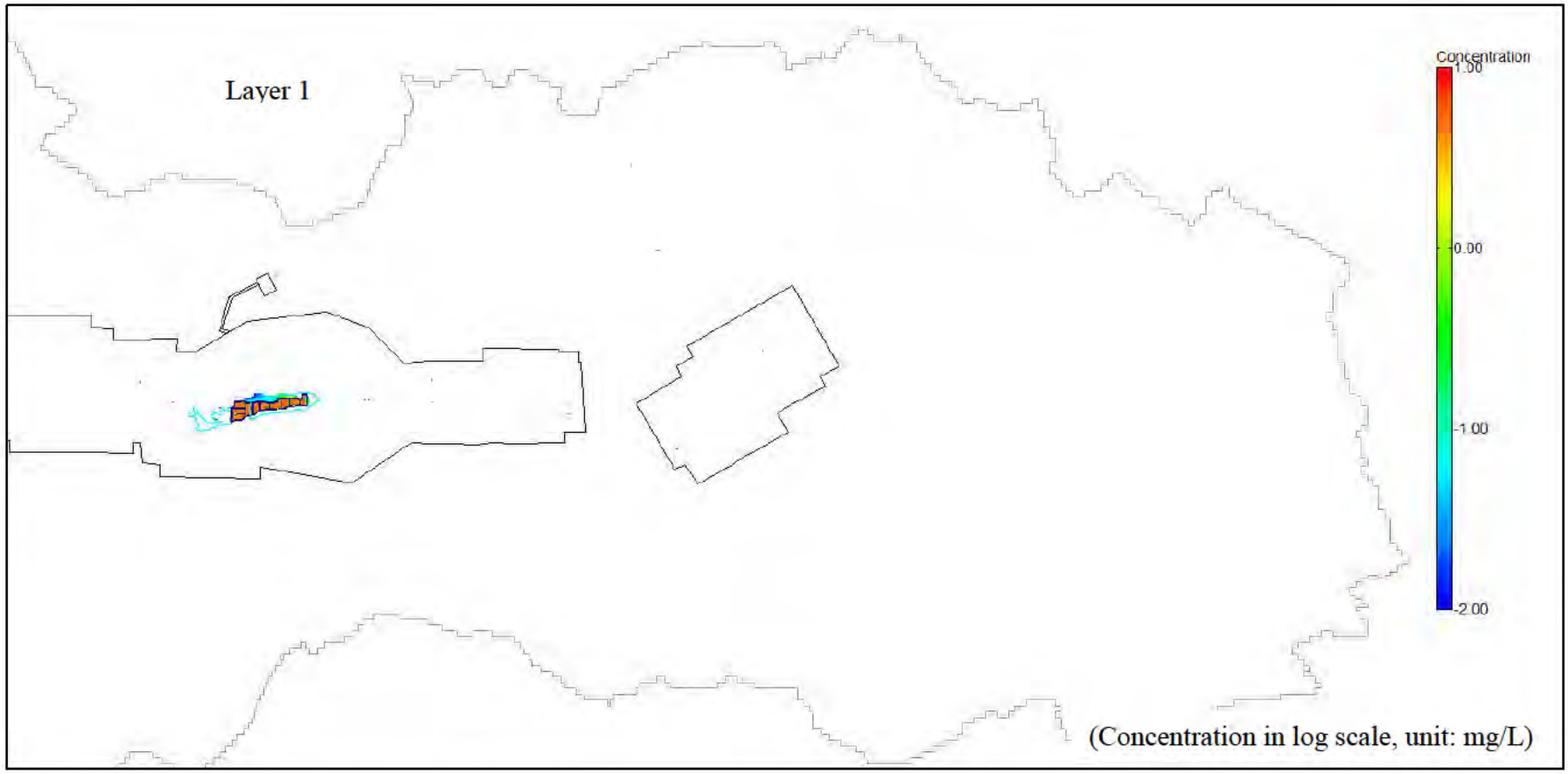

Figure 7.6a Simulated arsenic transport plume in layer 1 at year 15,000

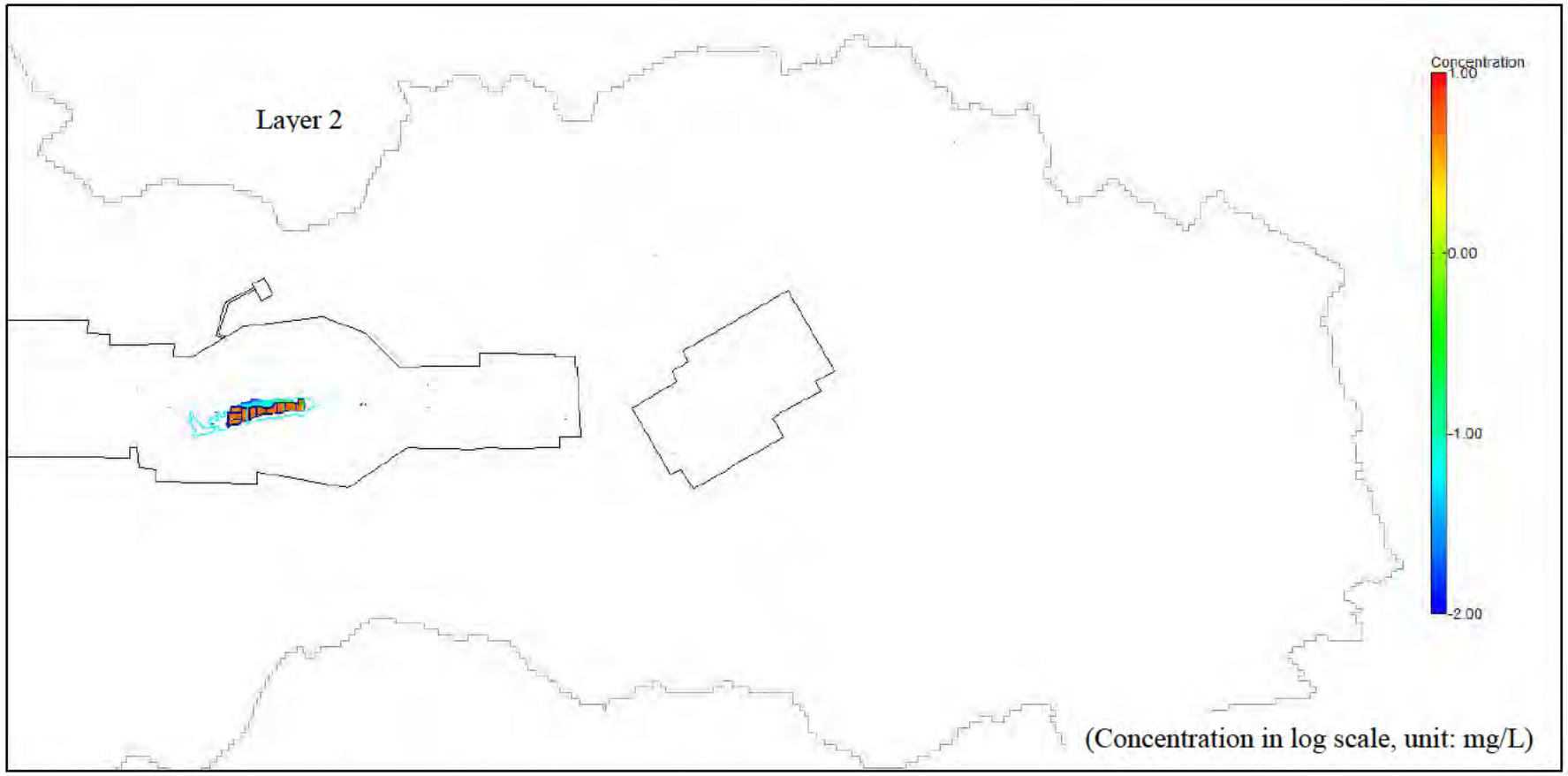

Figure 7.6b Simulated arsenic transport plume in layer 2 at year 15,000

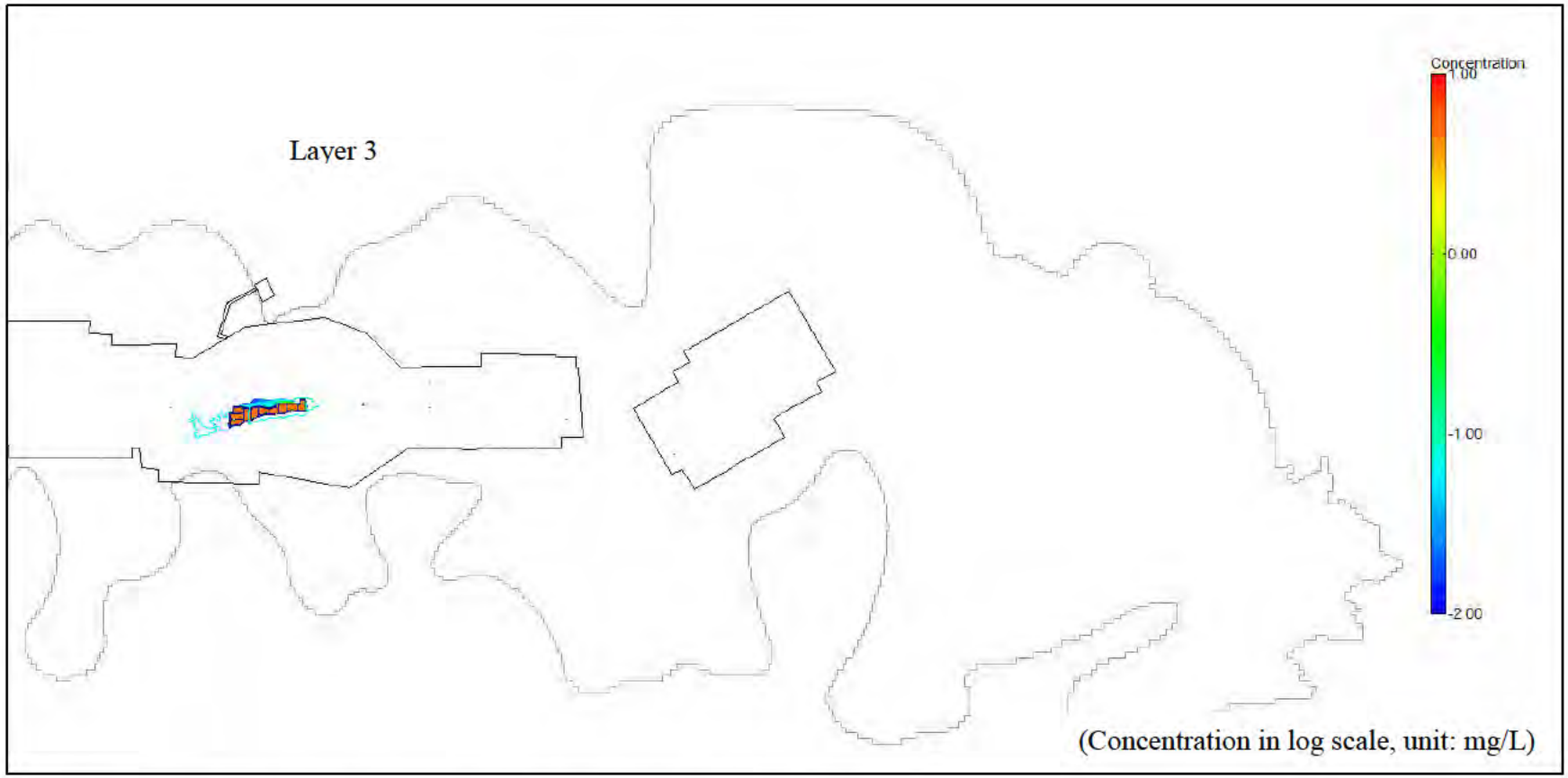

Figure 7.6c Simulated arsenic transport plume in layer 3 at year 15,000

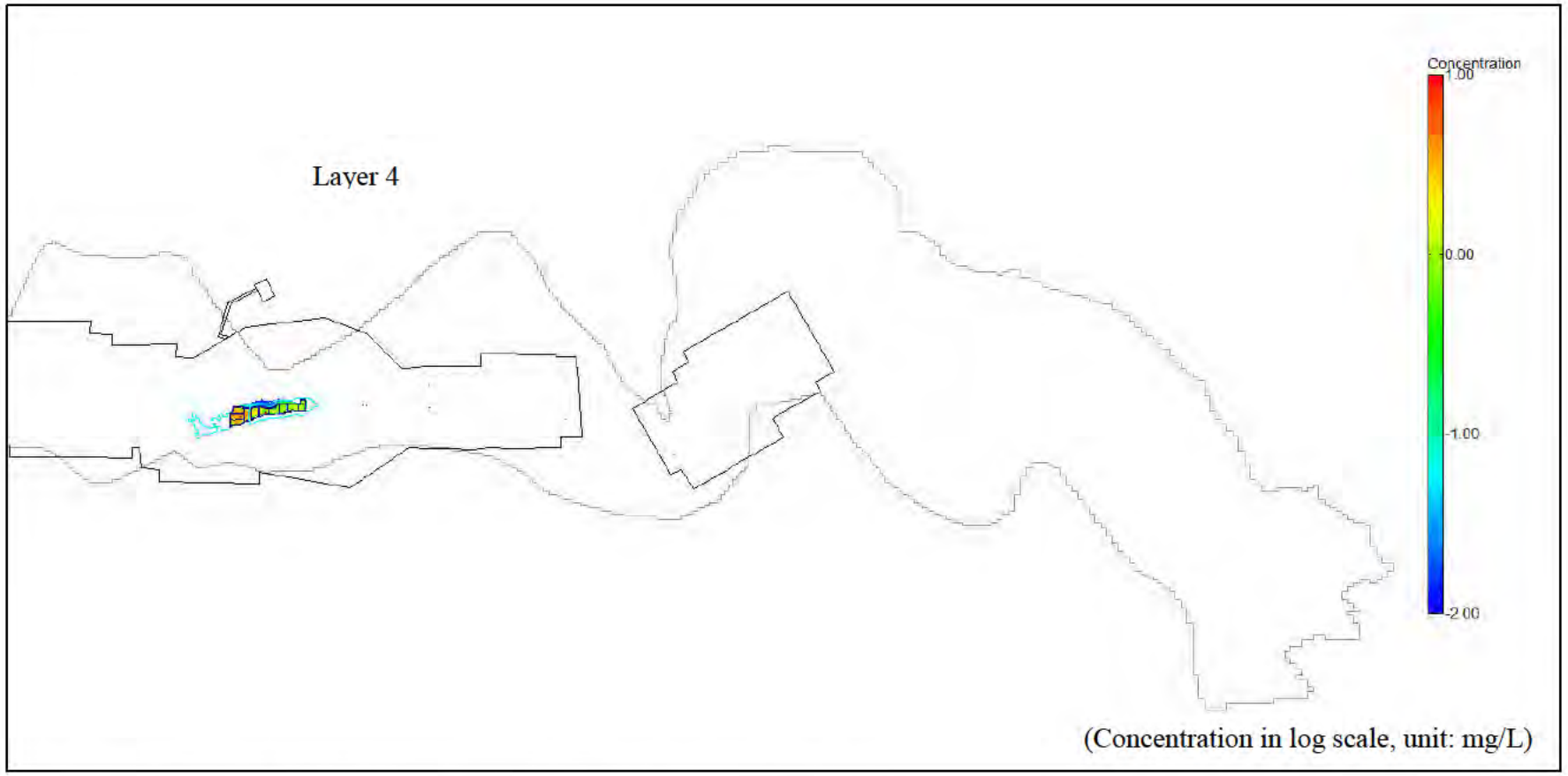

Figure 7.6d Simulated arsenic transport plume in layer 4 at year 15,000

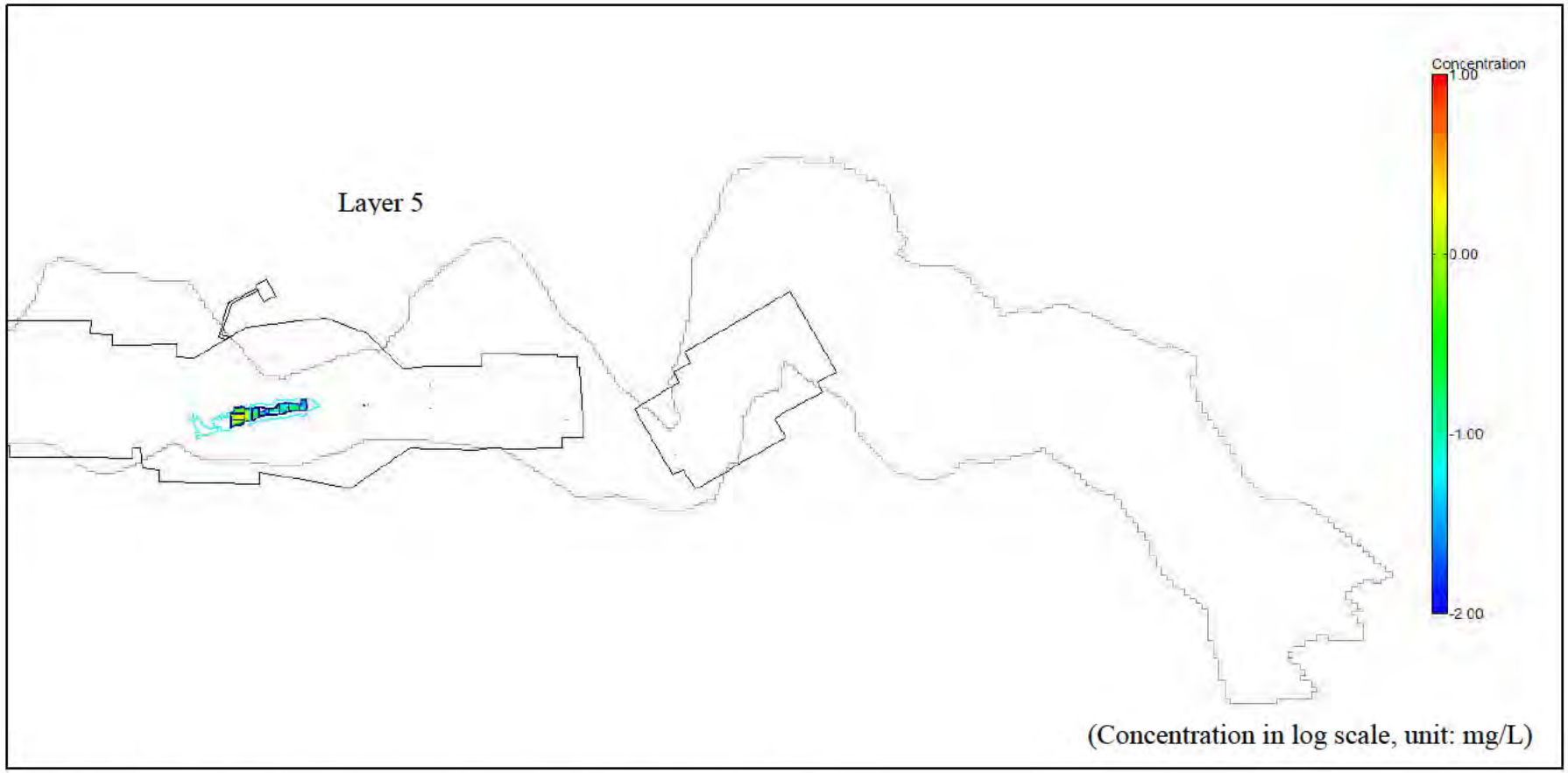

Figure 7.6e Simulated arsenic transport plume in layer 5 at year 15,000

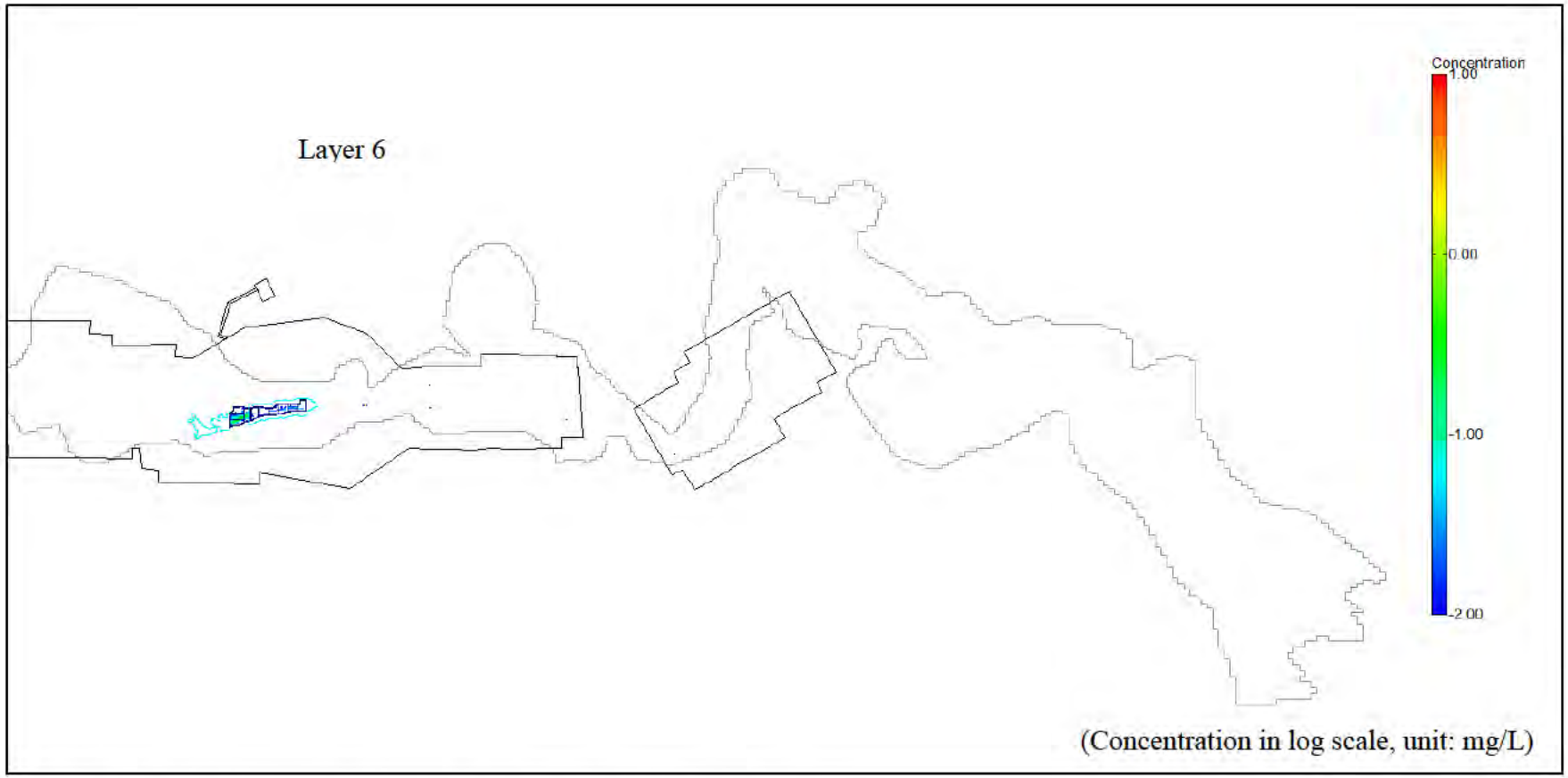

Figure 7.6f Simulated arsenic transport plume in layer 6 at year 15,000

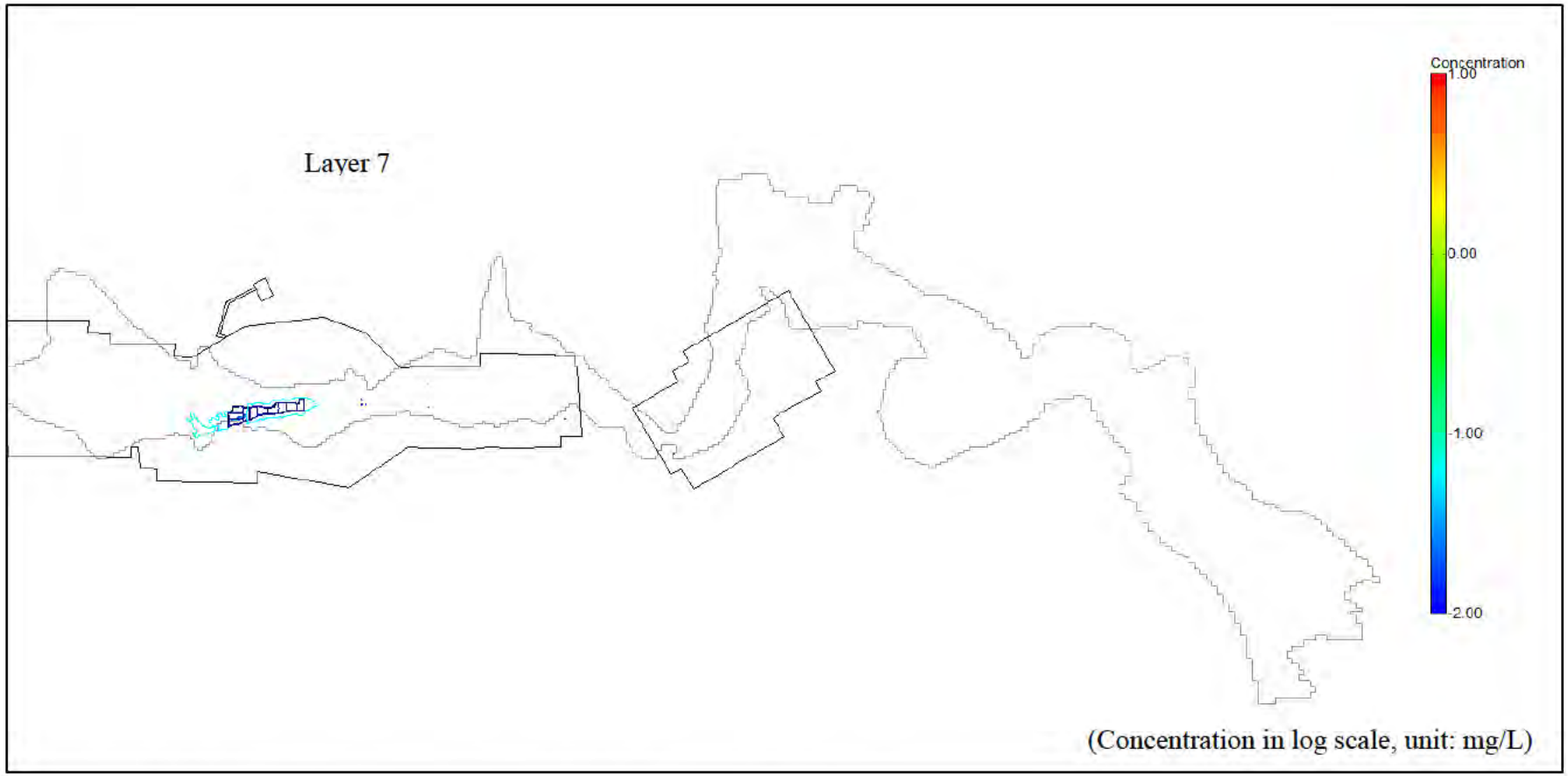

Figure 7.6g Simulated arsenic transport plume in layer 7 at year 15,000

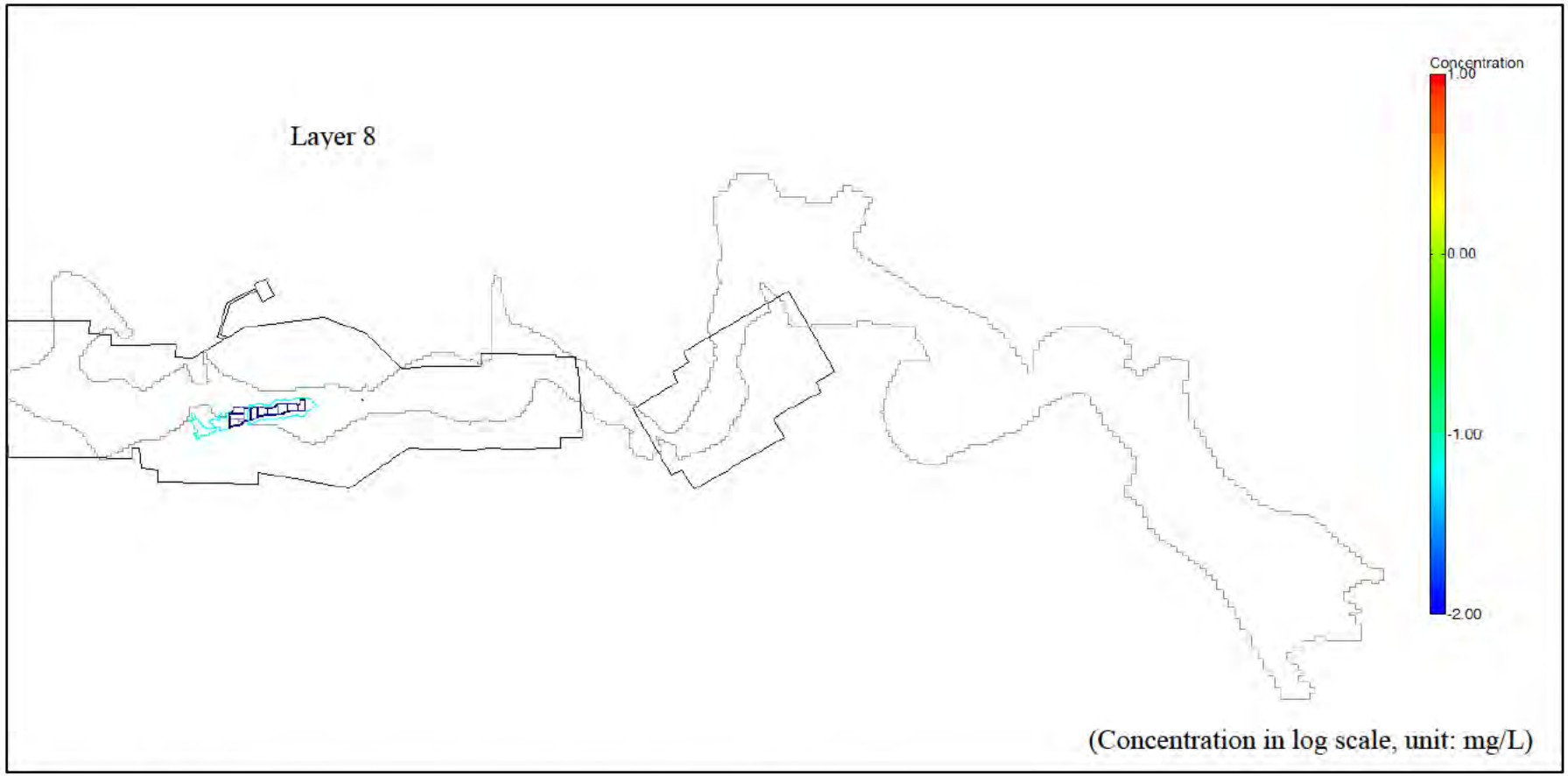

Figure 7.6h Simulated arsenic transport plume in layer 8 at year 15,000

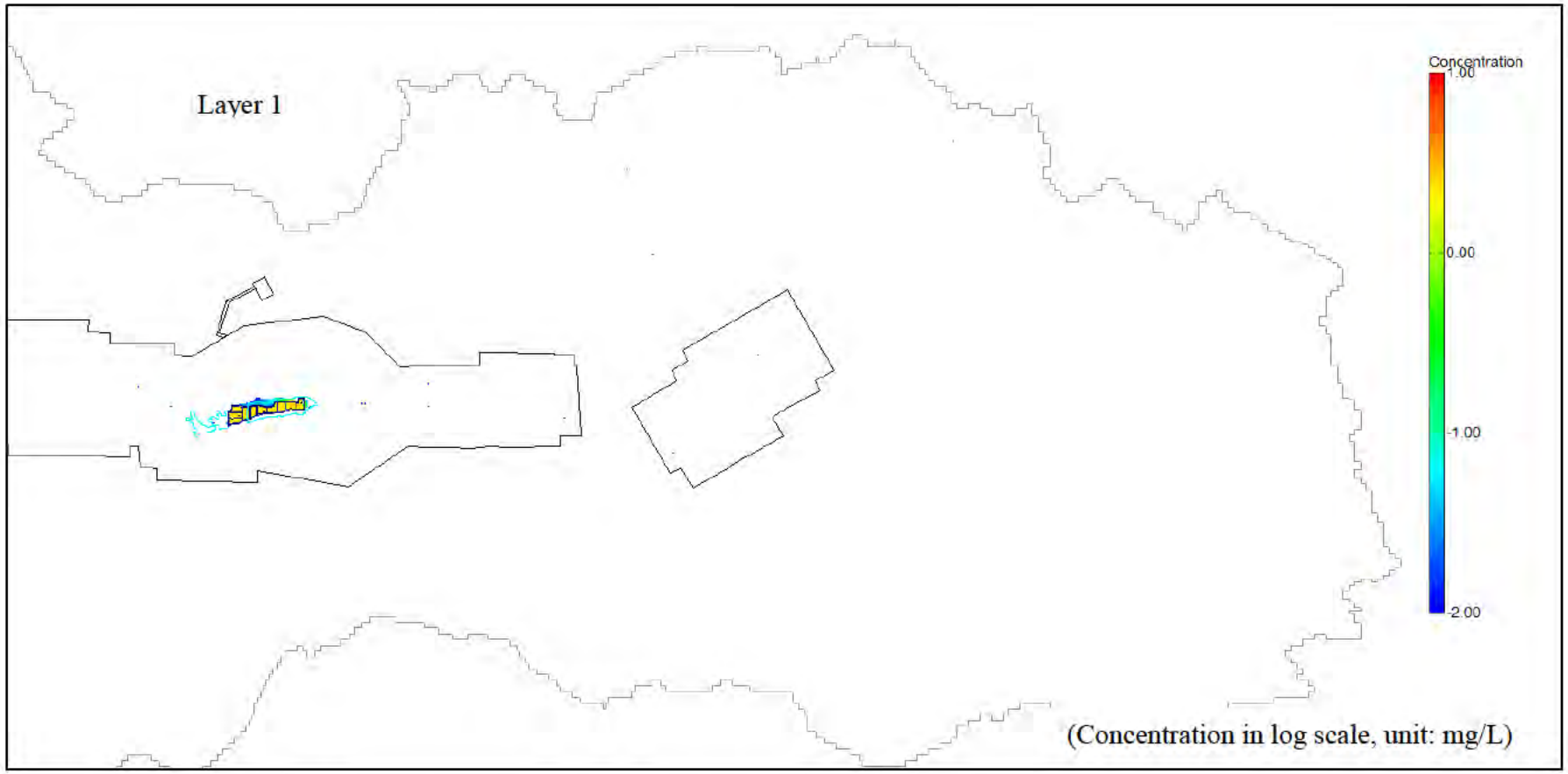

Figure 7.7a Simulated molybdenum transport plume in layer 1 at year 15,000

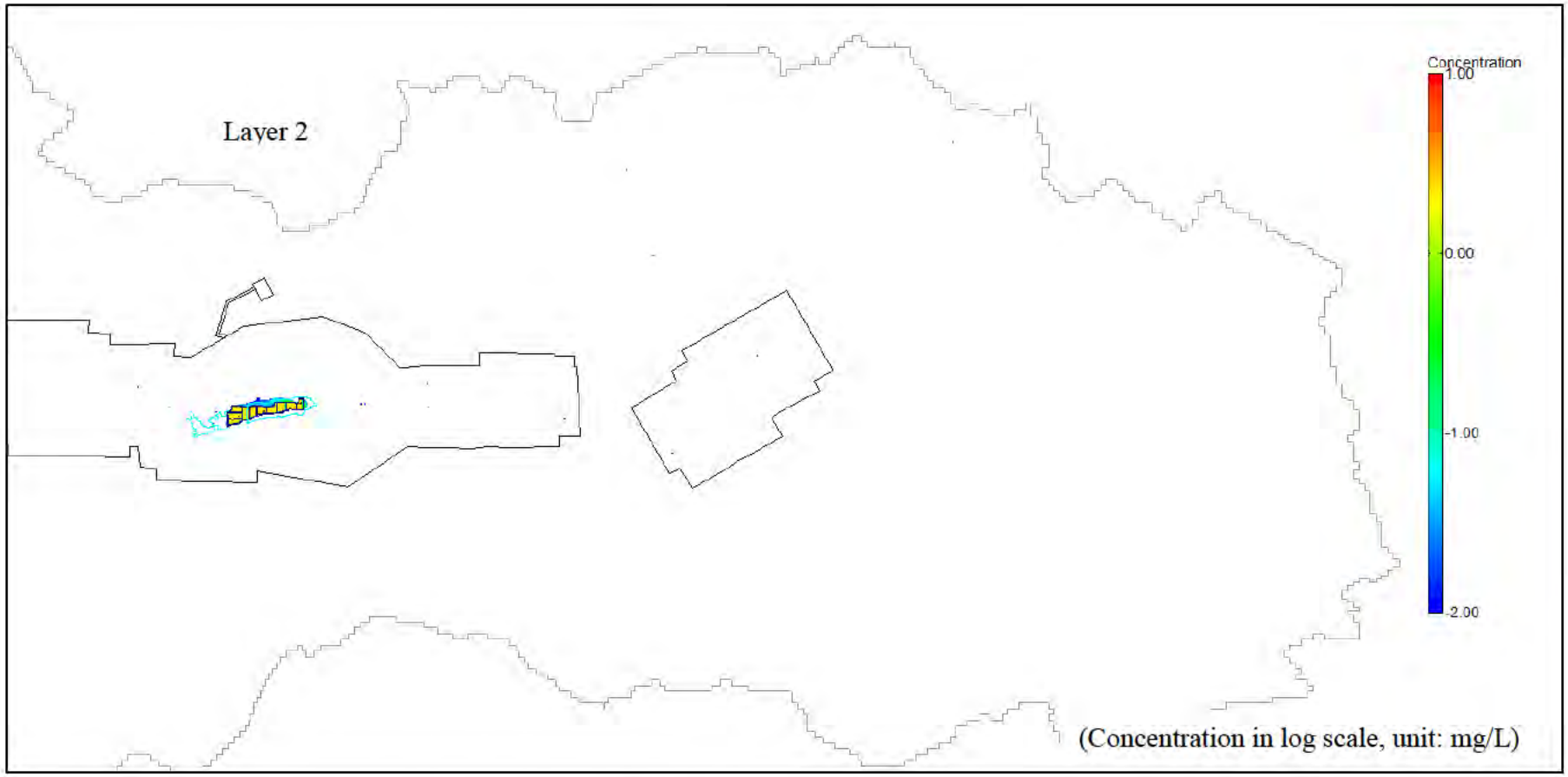

Figure 7.7b Simulated molybdenum transport plume in layer 2 at year 15,000

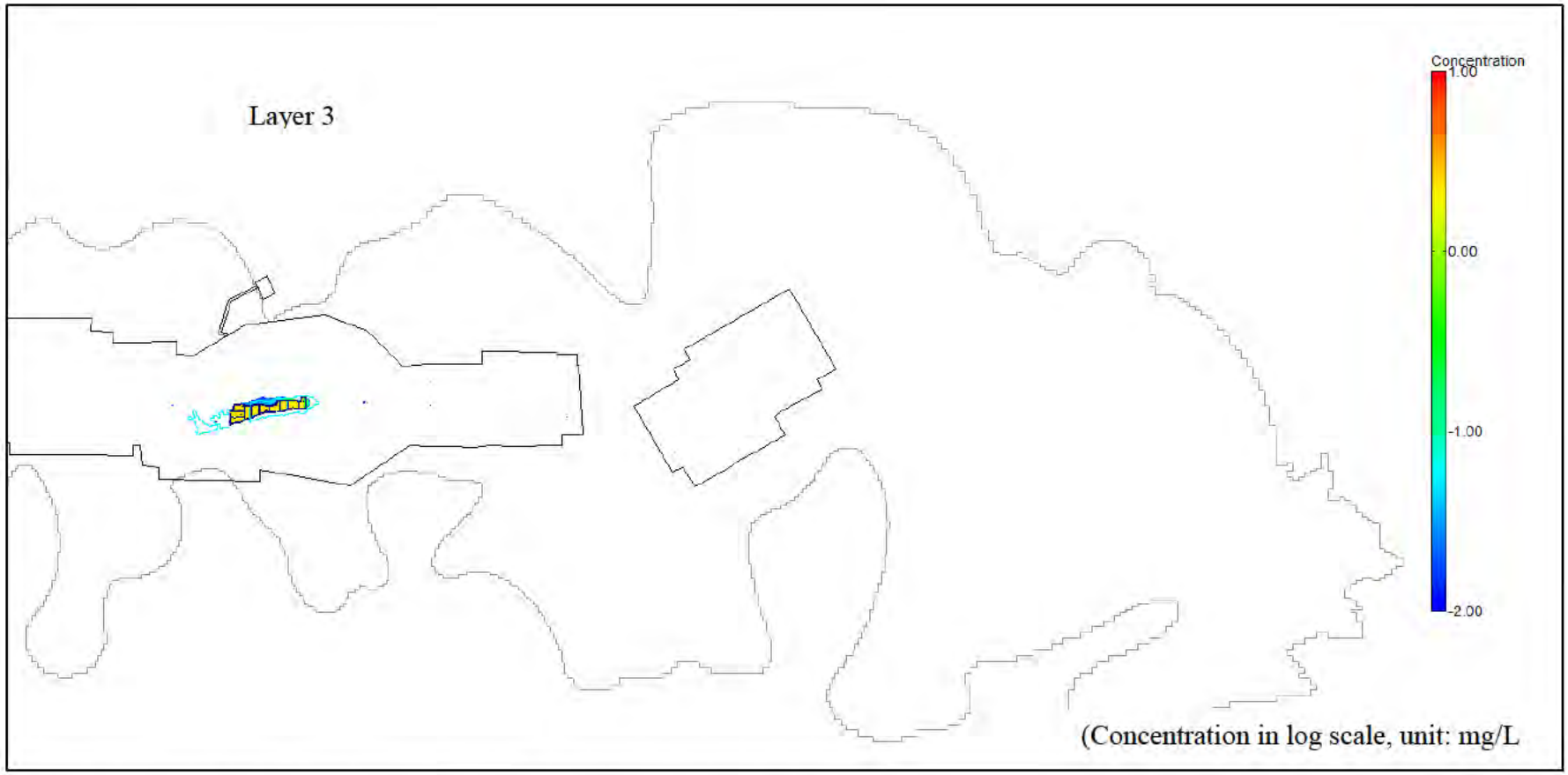

Figure 7.7c Simulated molybdenum transport plume in layer 3 at year 15,000

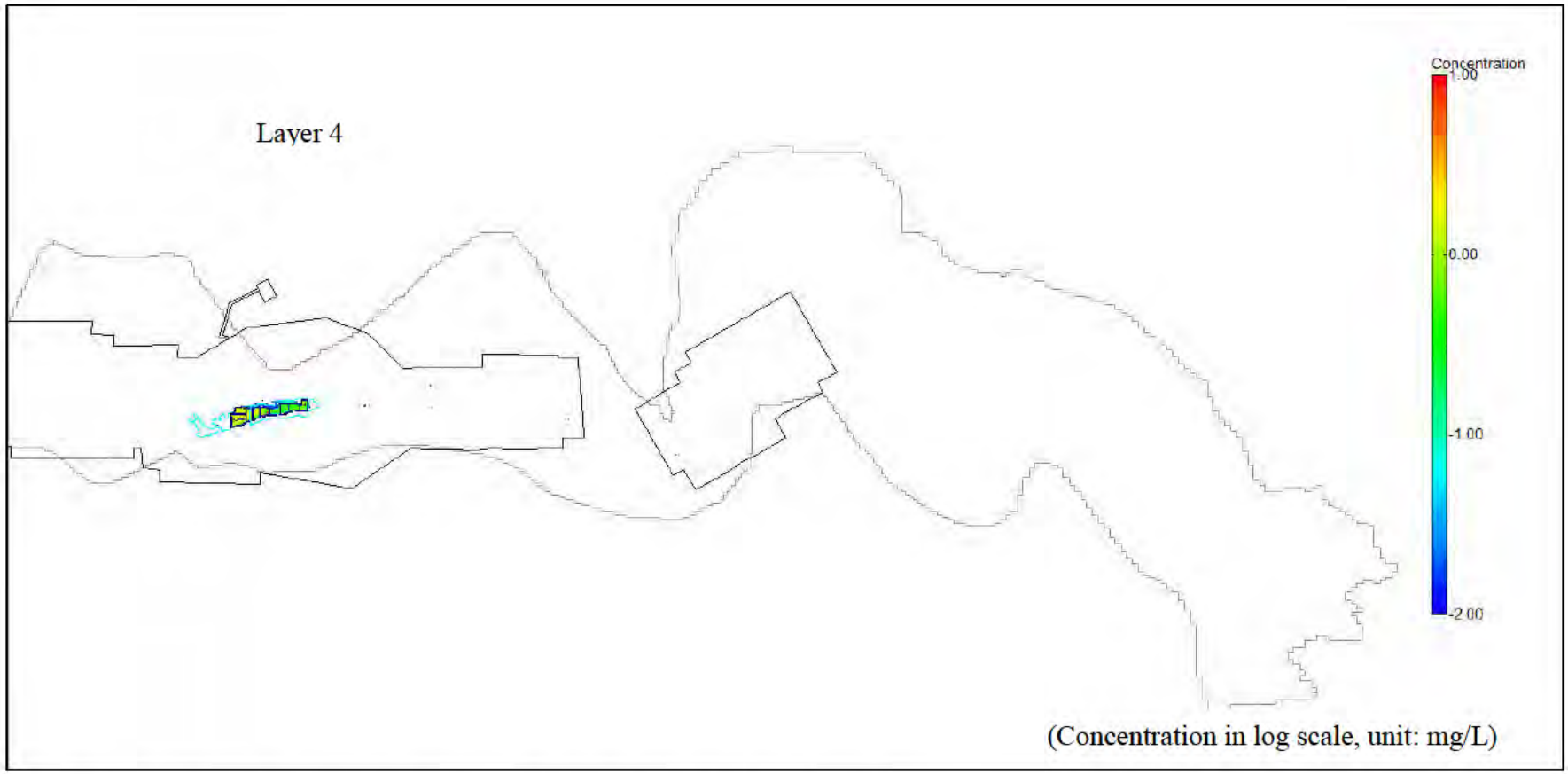

Figure 7.7d Simulated molybdenum transport plume in layer 4 at year 15,000

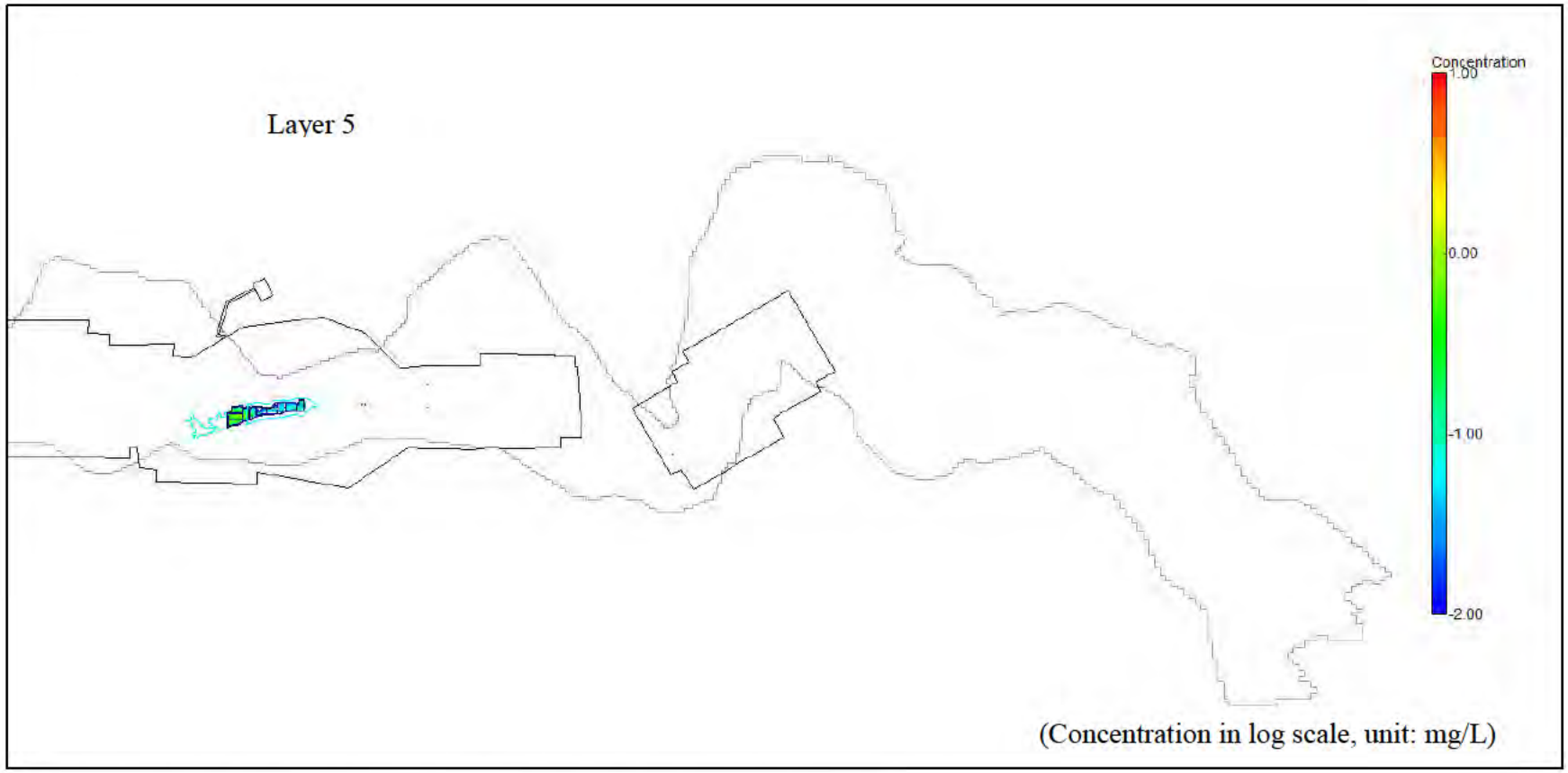

Figure 7.7e Simulated molybdenum transport plume in layer 5 at year 15,000

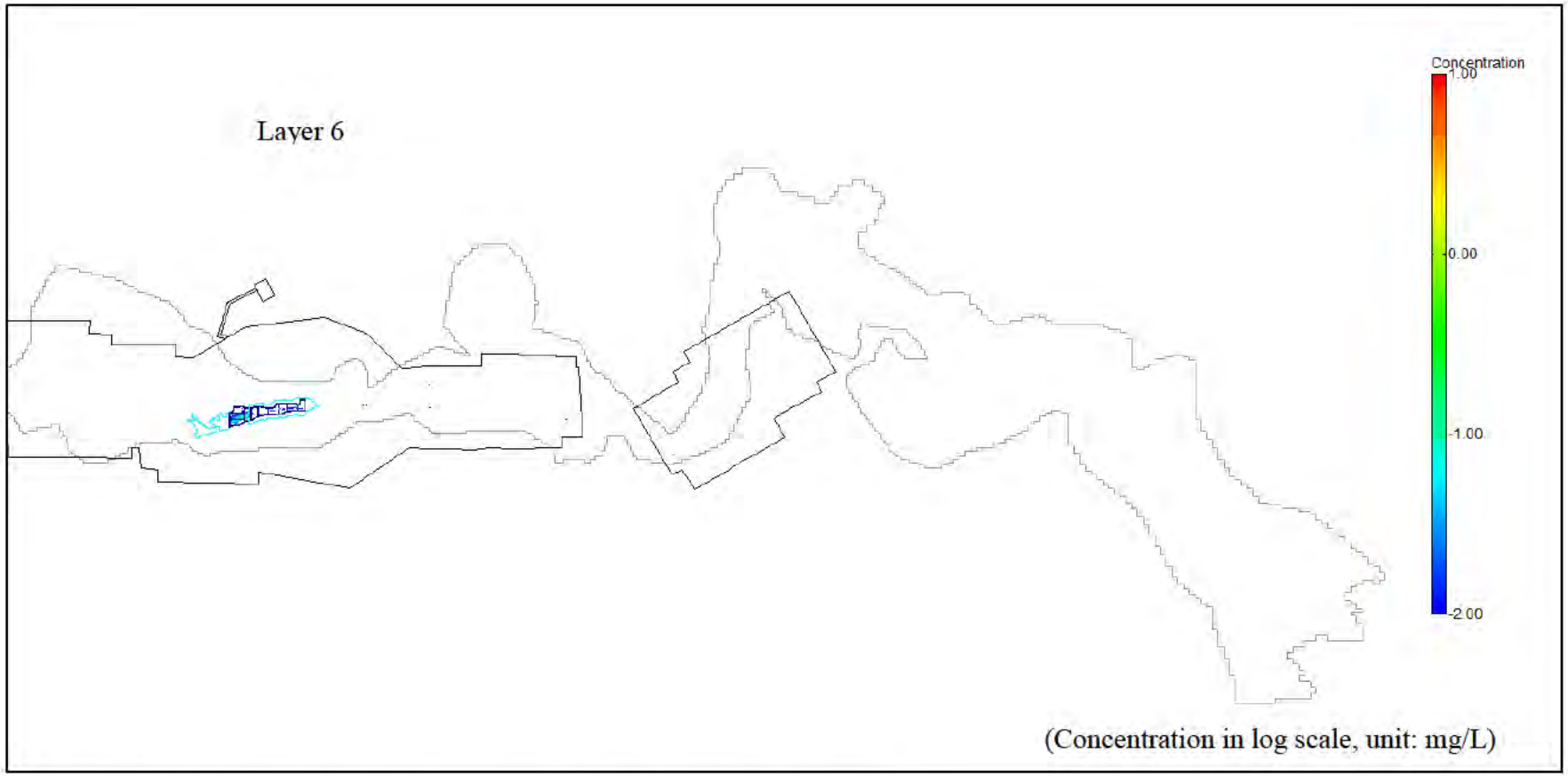

Figure 7.7f Simulated molybdenum transport plume in layer 6 at year 15,000

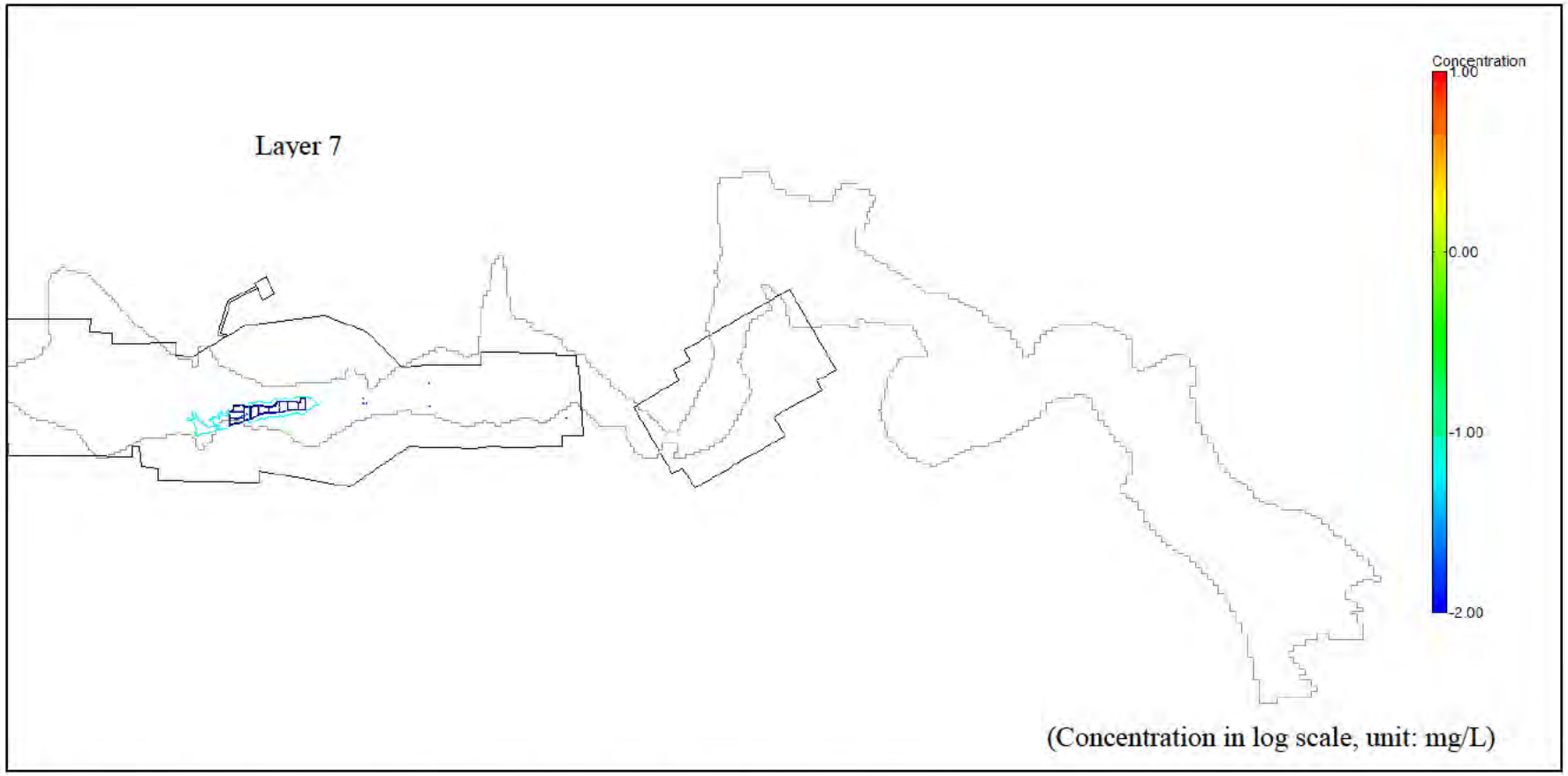

Figure 7.7g Simulated molybdenum transport plume in layer 7 at year 15,000

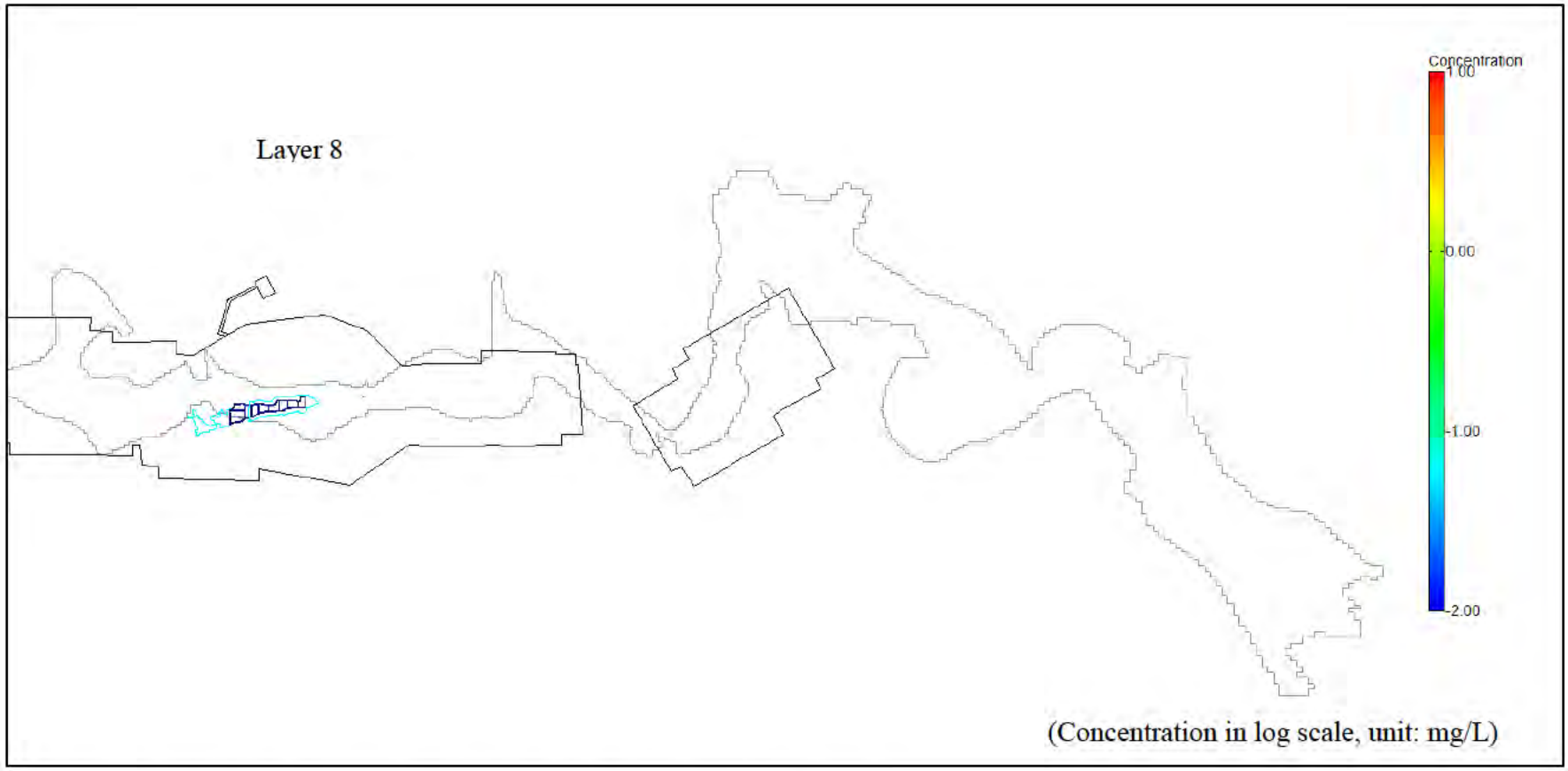

Figure 7.7h Simulated molybdenum transport plume in layer 8 at year 15,000

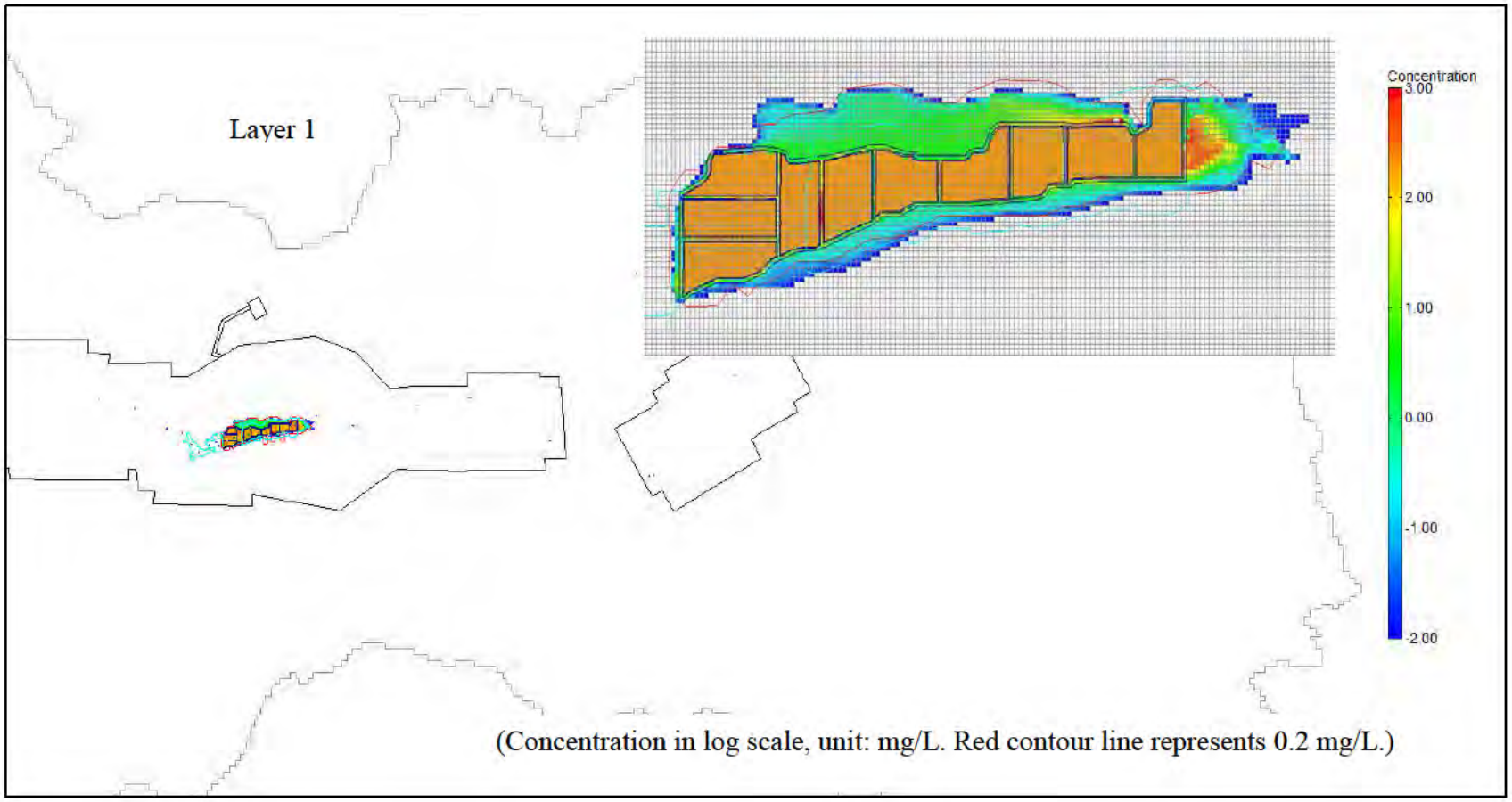

Figure 7.8a Simulated uranium transport plume in layer 1 at year 15,000, for Kd = 0.1 Kd (base case)

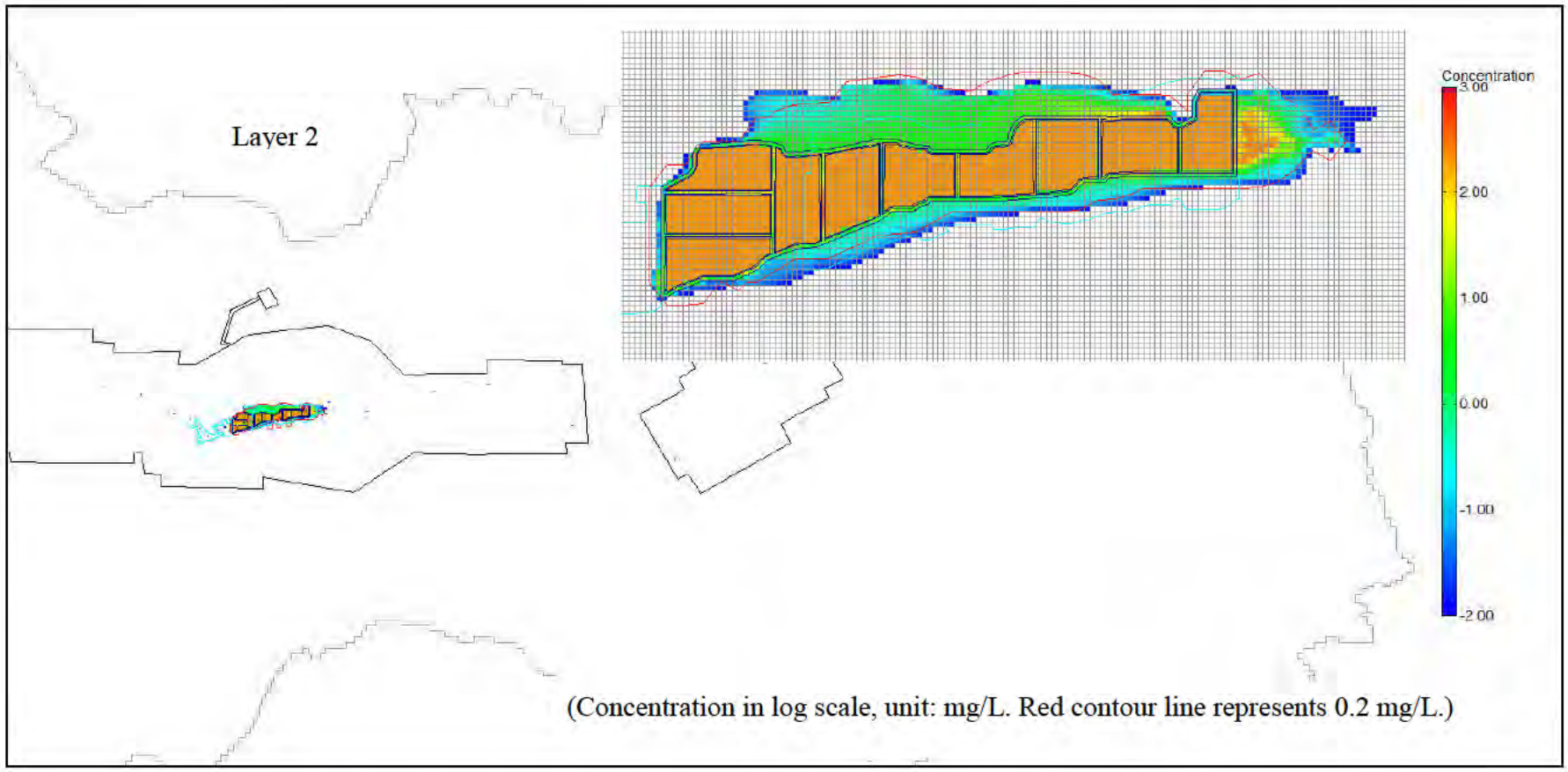

Figure 7.8b Simulated uranium transport plume in layer 2 at year 15,000, for Kd = 0.1 Kd (base case)

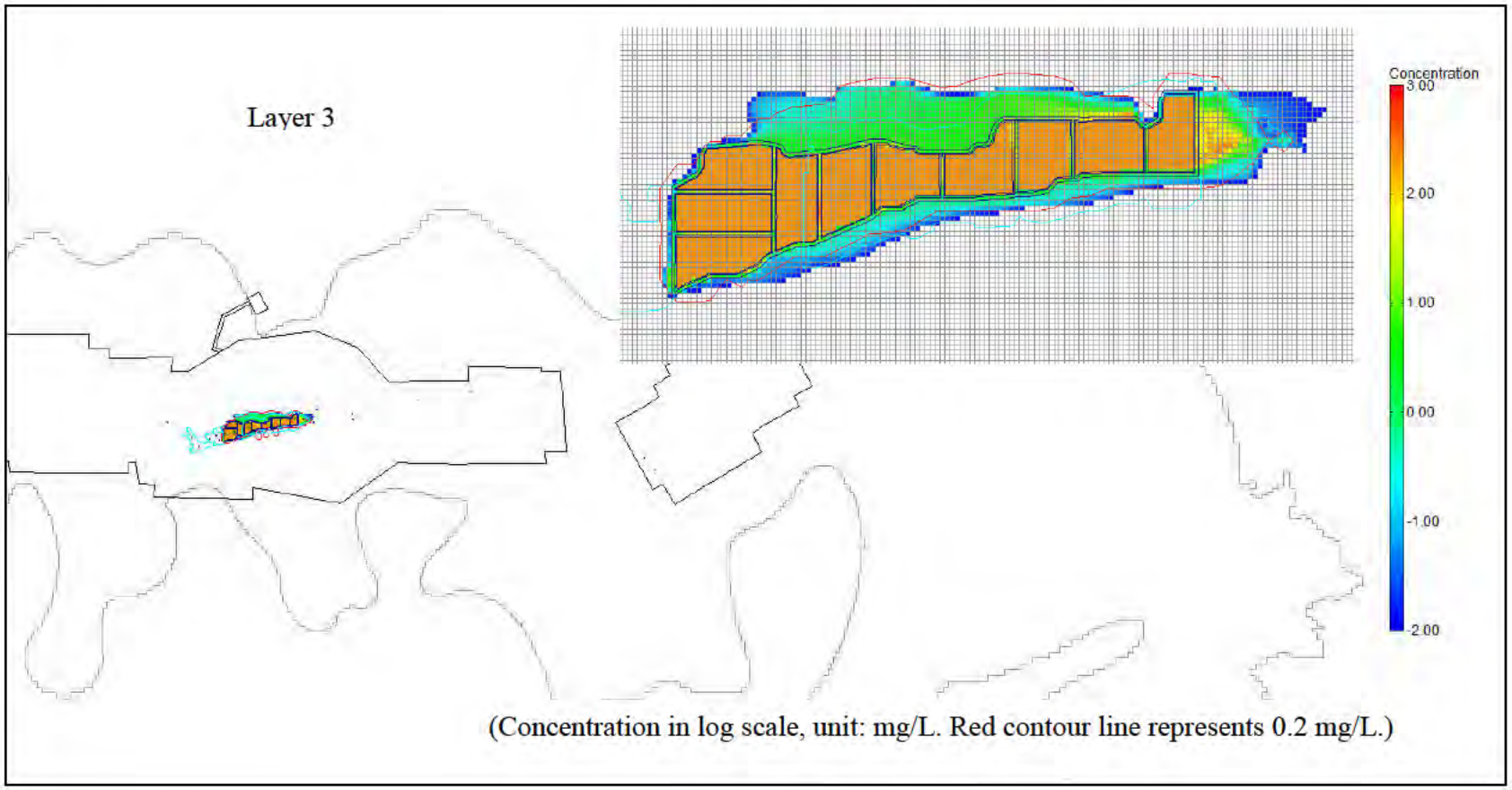

Figure 7.8c Simulated uranium transport plume in layer 3 at year 15,000, for Kd = 0.1 Kd (base case)

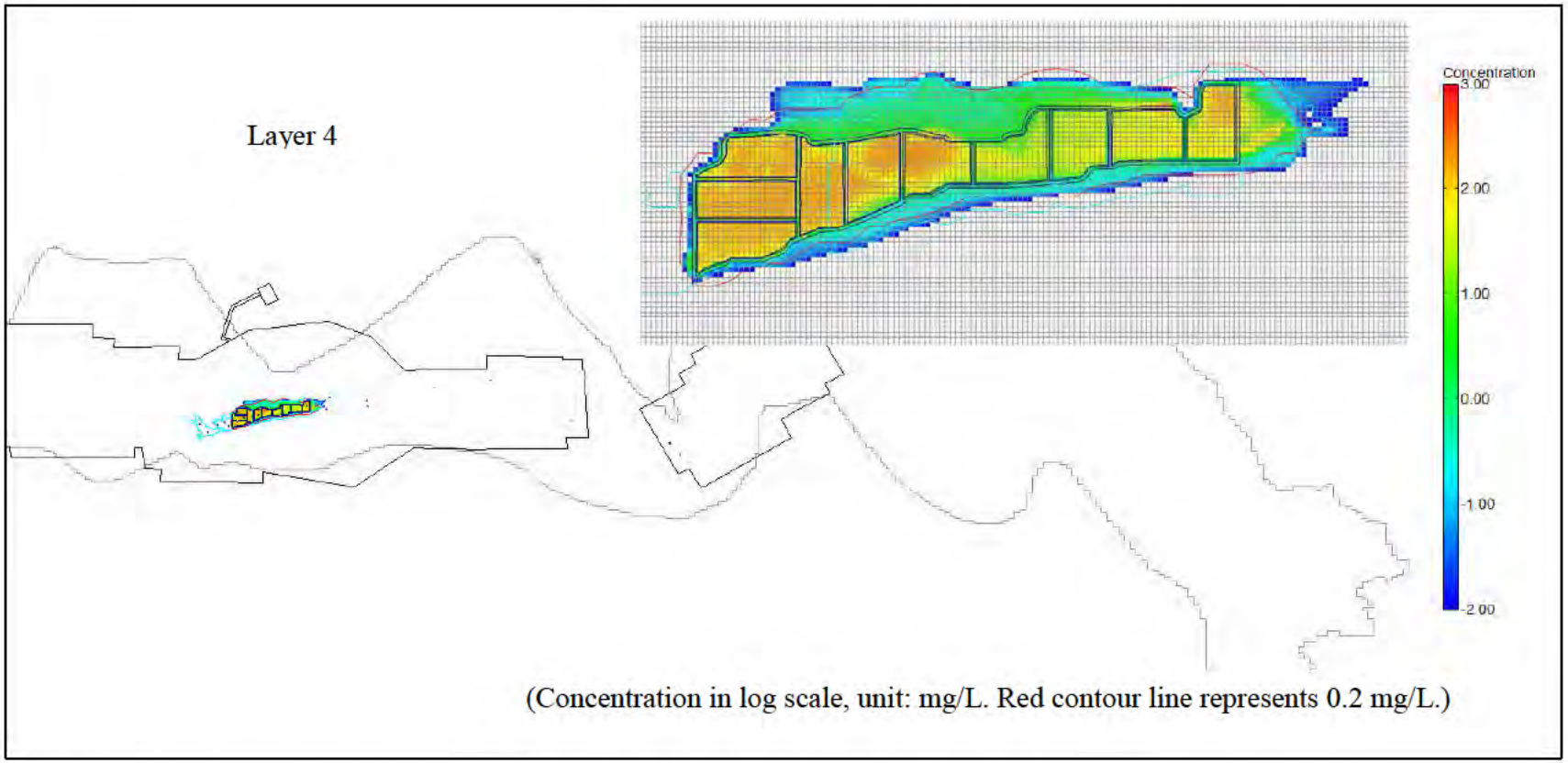

Figure 7.8d Simulated uranium transport plume in layer 4 at year 15,000, for Kd = 0.1 Kd (base case)

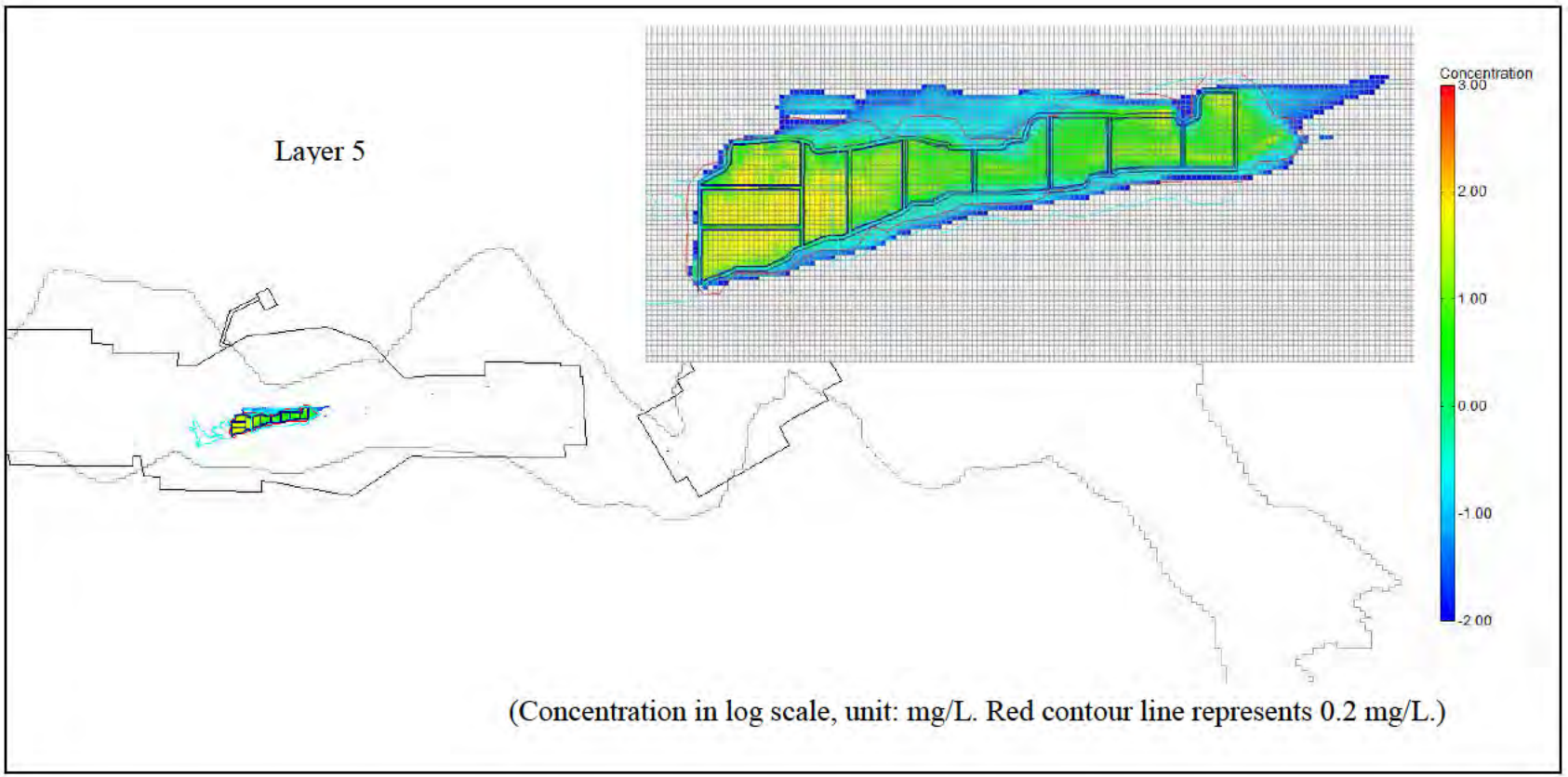

Figure 7.8e Simulated uranium transport plume in layer 5 at year 15,000, for Kd = 0.1 Kd (base case)

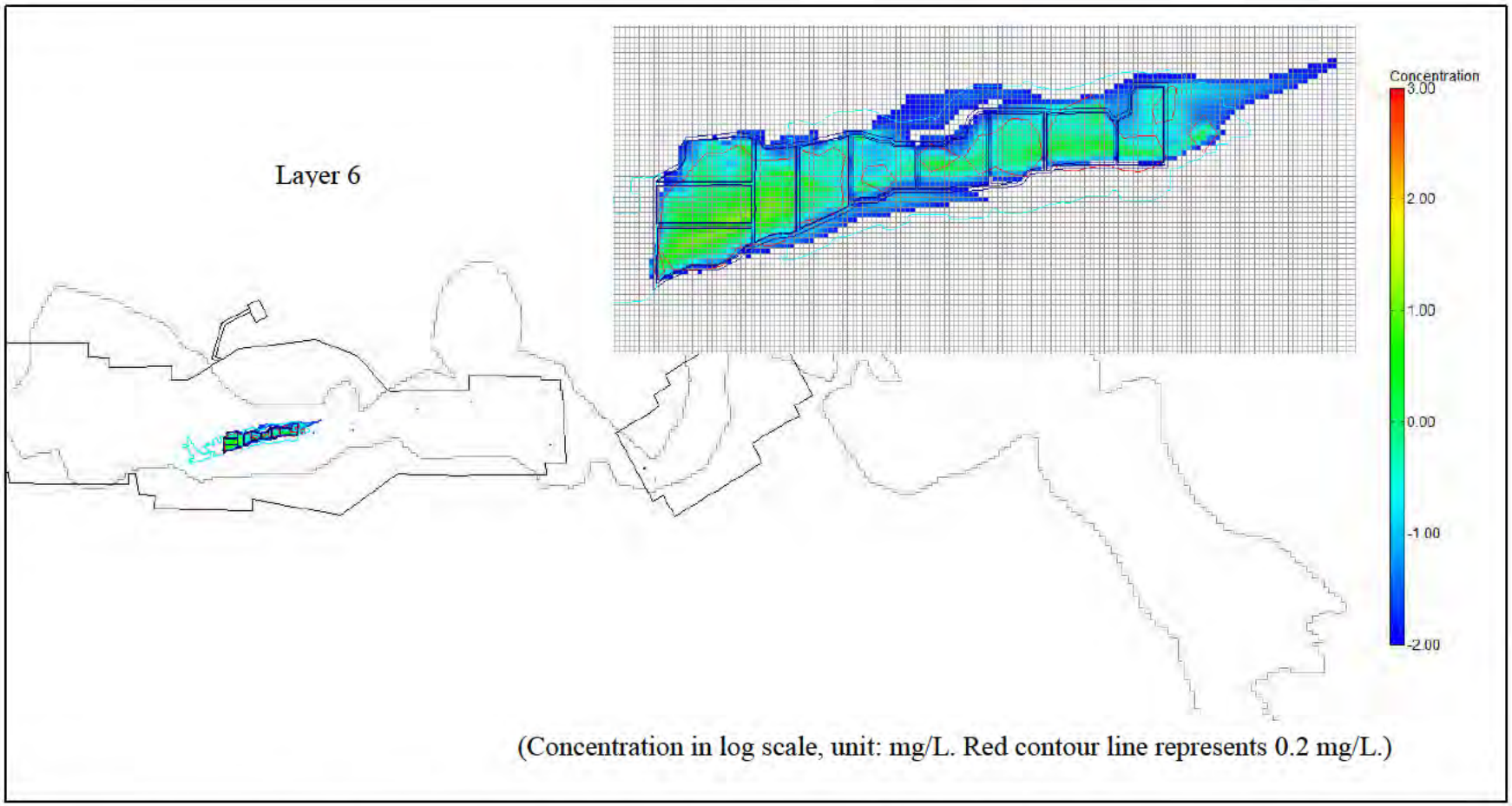

Figure 7.8f Simulated uranium transport plume in layer 6 at year 15,000, for Kd = 0.1 Kd (base case)

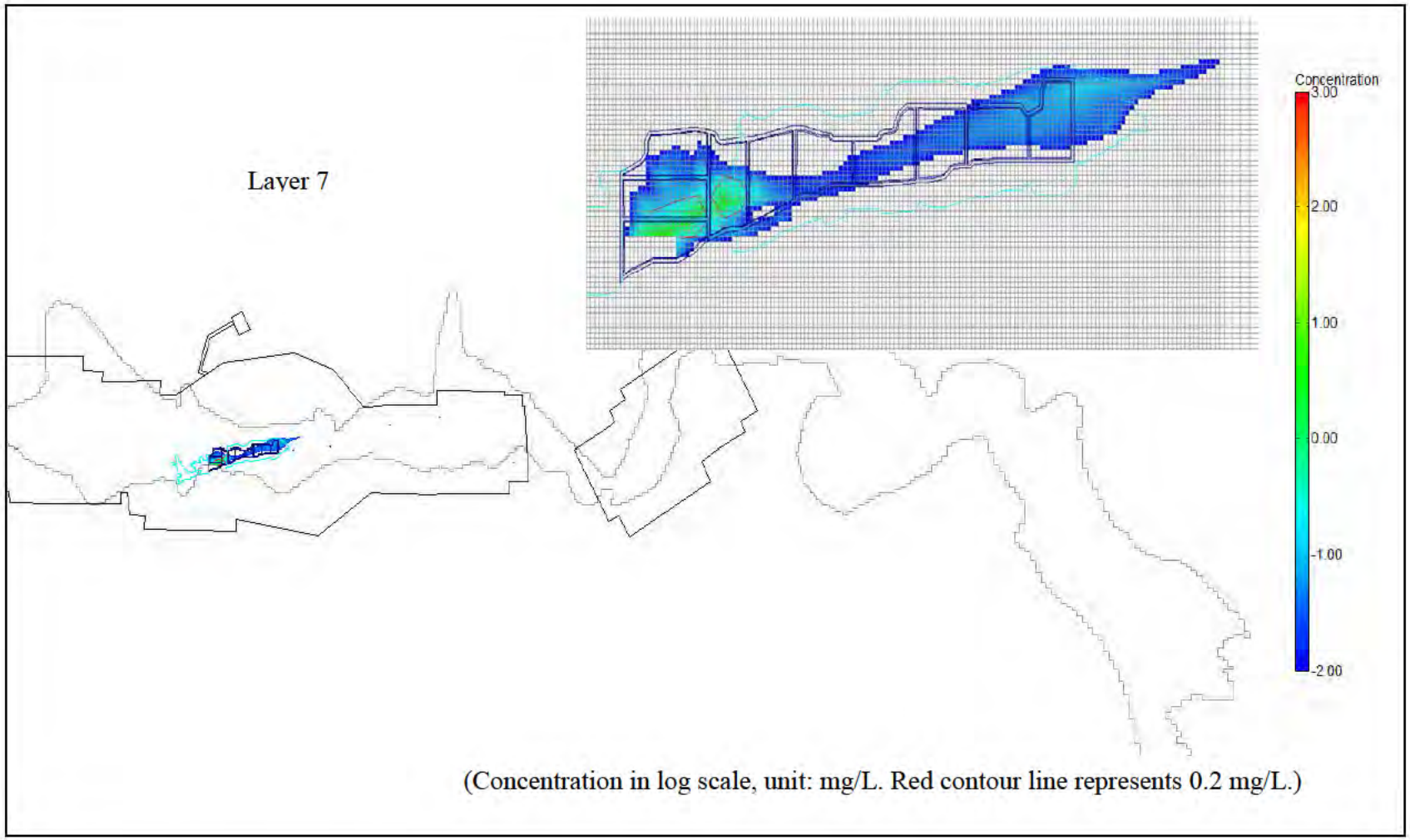

Figure 7.8g Simulated uranium transport plume in layer 7 at year 15,000, for Kd = 0.1 Kd (base case)

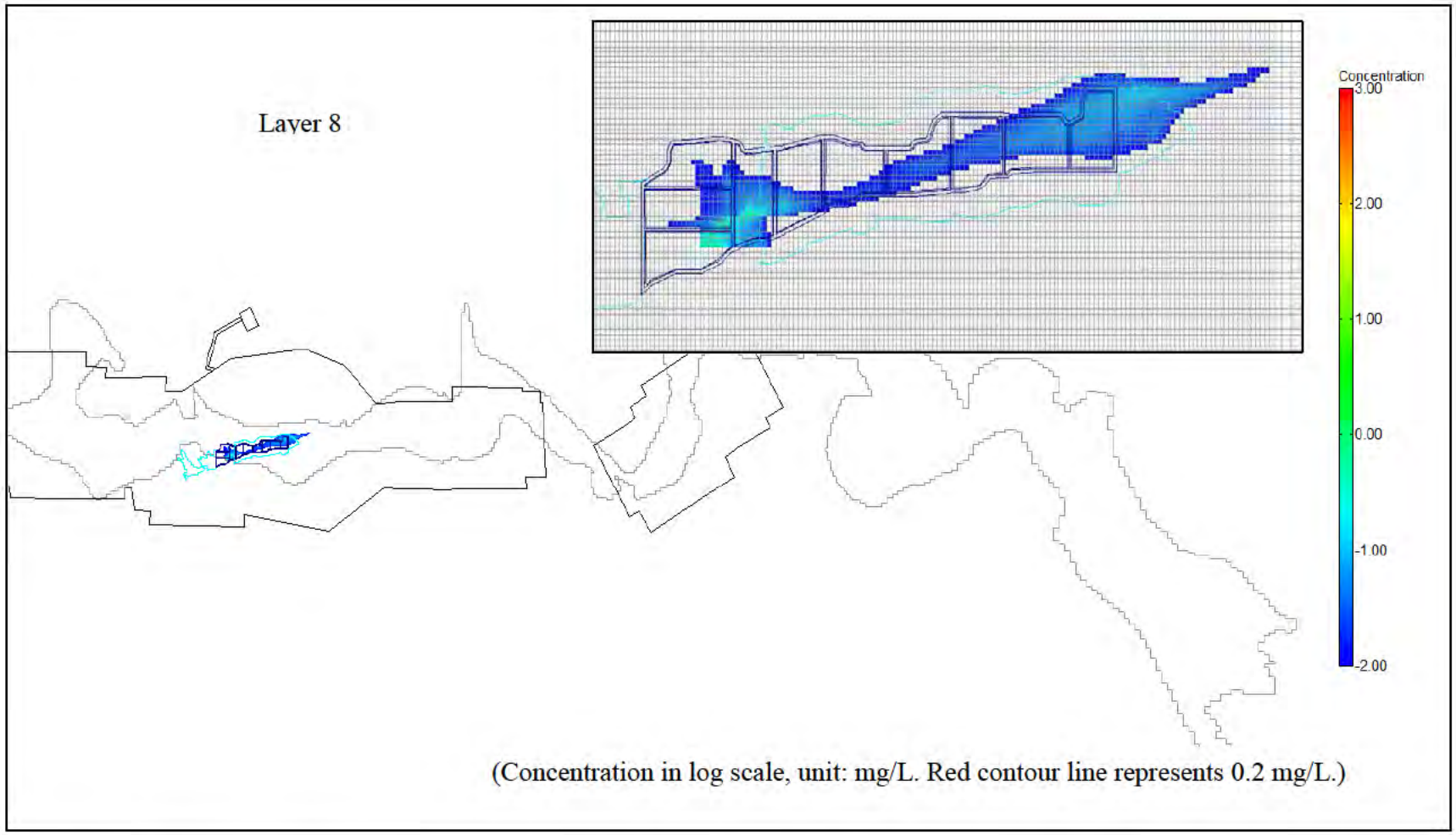

Figure 7.8h Simulated uranium transport plume in layer 8 at year 15,000, for Kd = 0.1 Kd (base case)

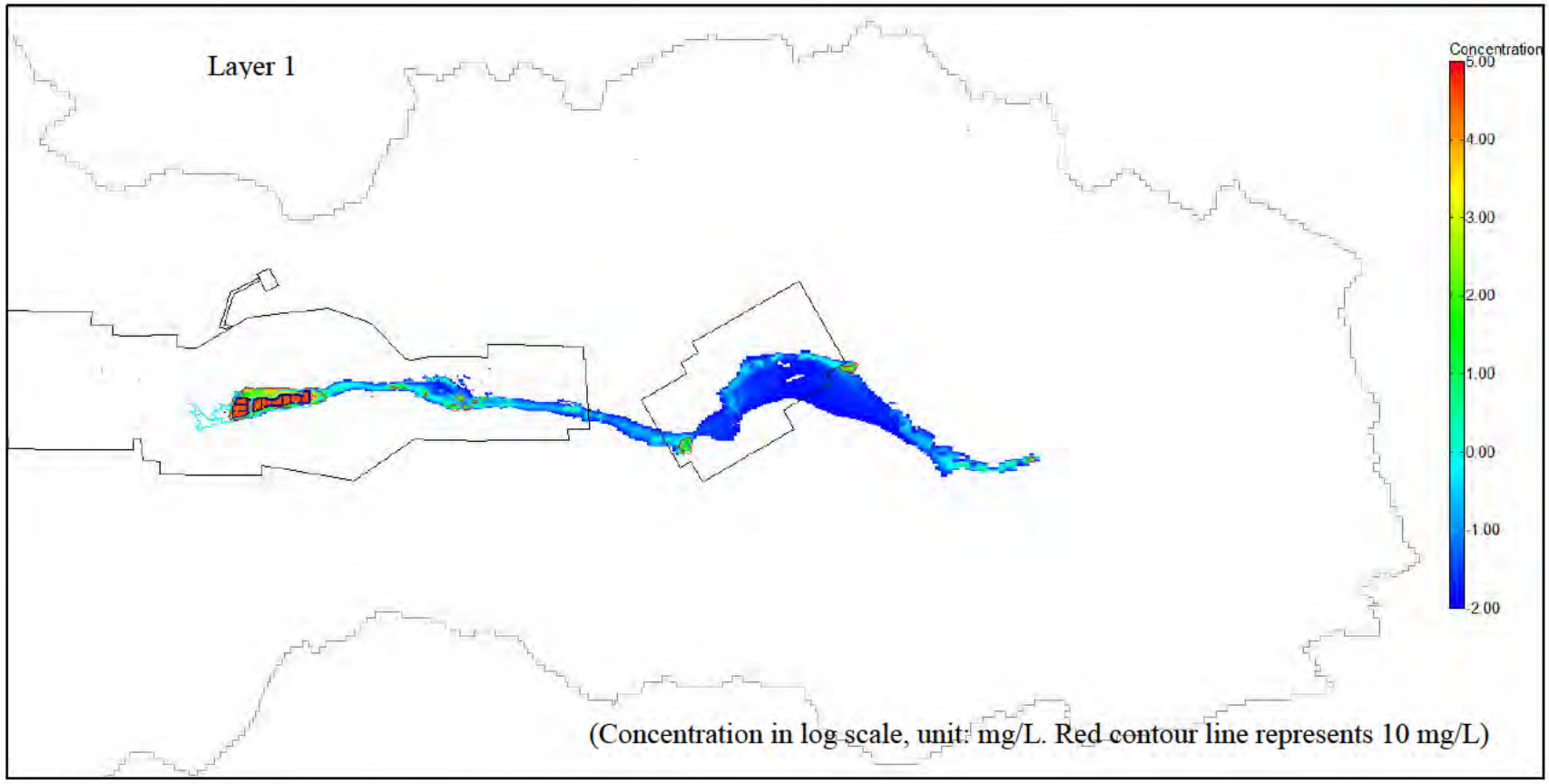

Figure 7.9a Simulated chloride transport plume in layer 1 at year 15,000, for 20% increase in source term concentration

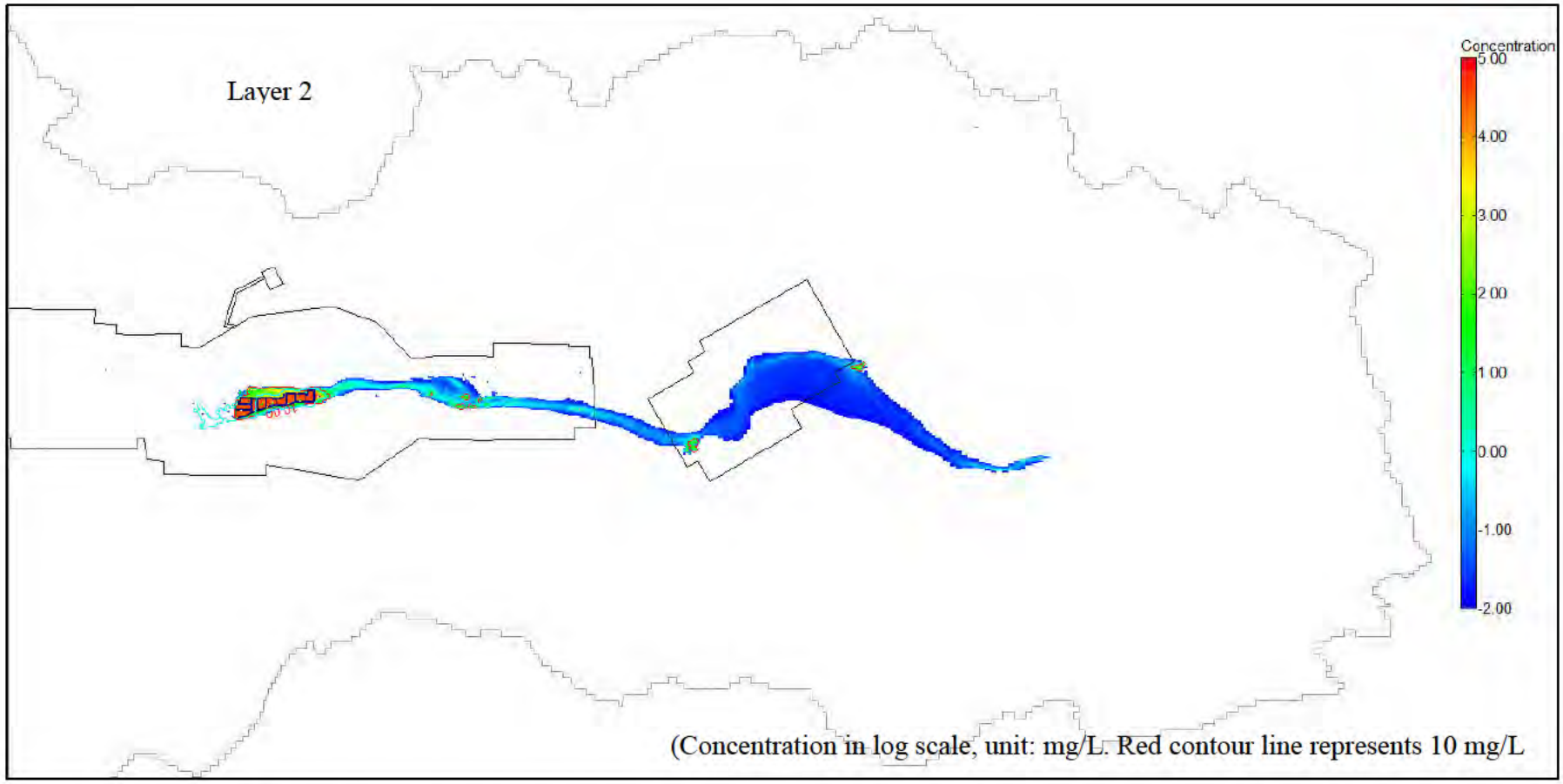

Figure 7.9b Simulated chloride transport plume in layer 2 at year 15,000, for 20% increase in source term concentration

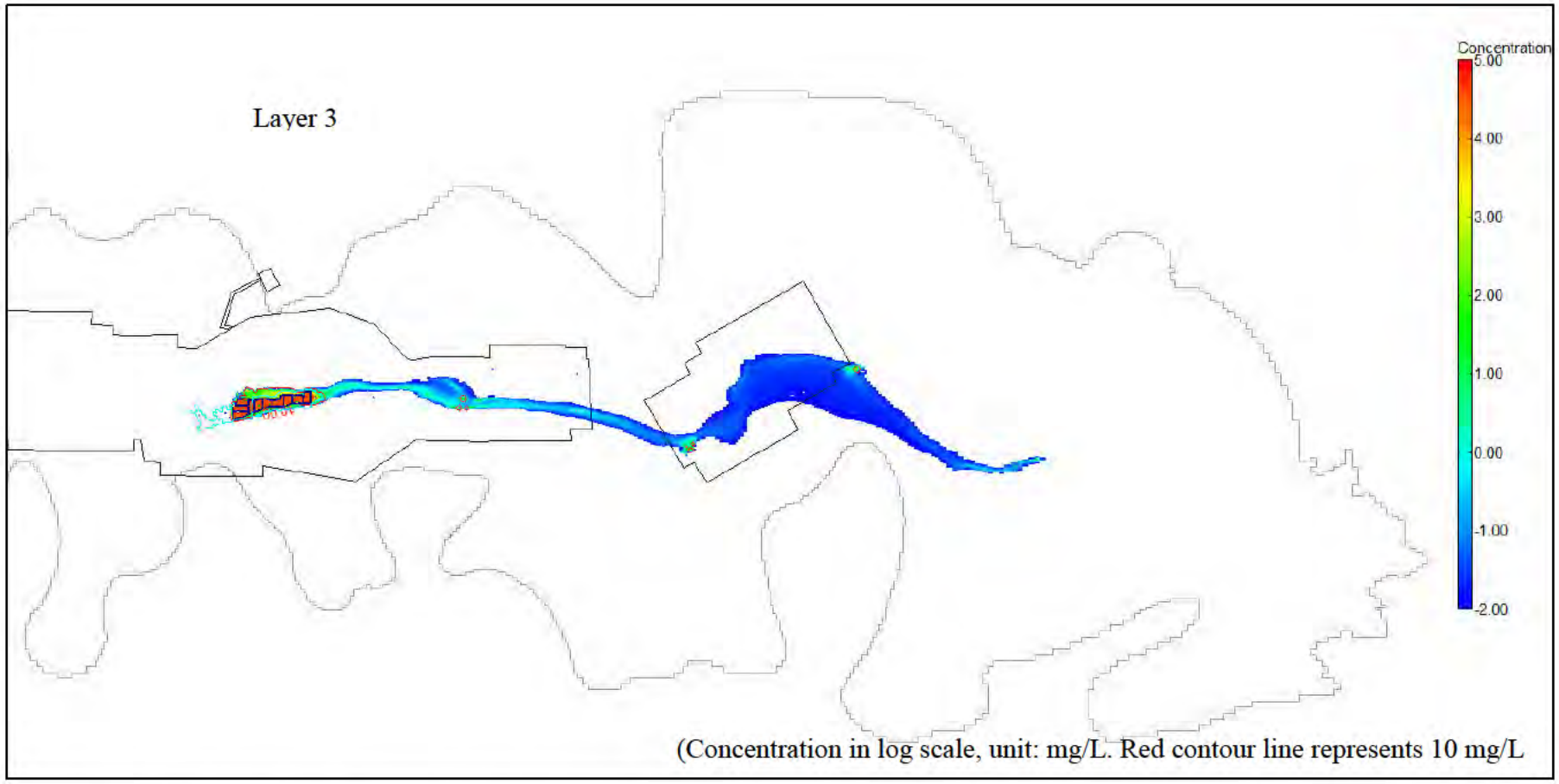

Figure 7.9c Simulated chloride transport plume in layer 3 at year 15,000, for 20% increase in source term concentration

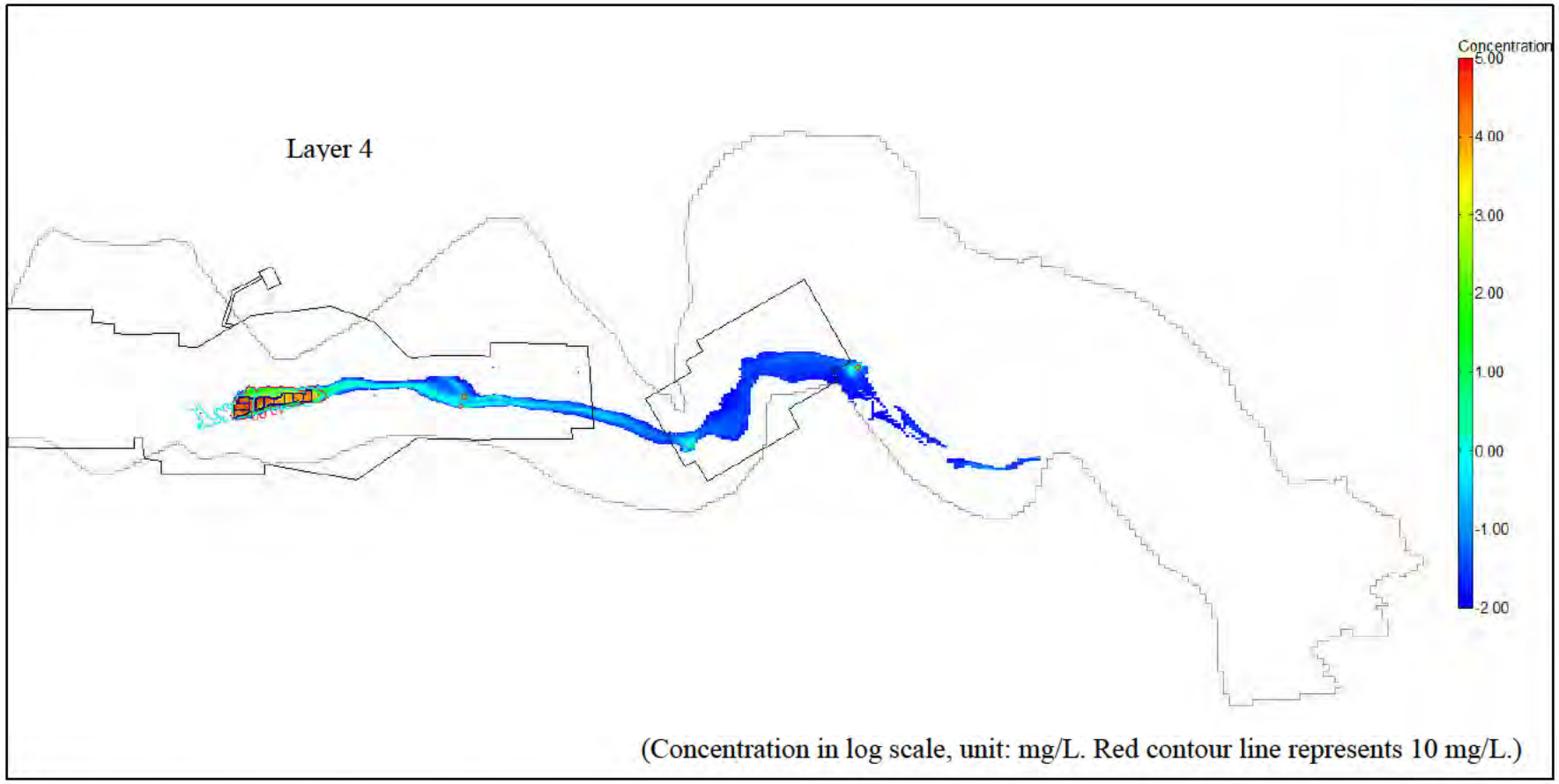

Figure 7.9d Simulated chloride transport plume in layer 4 at year 15,000, for 20% increase in source term concentration

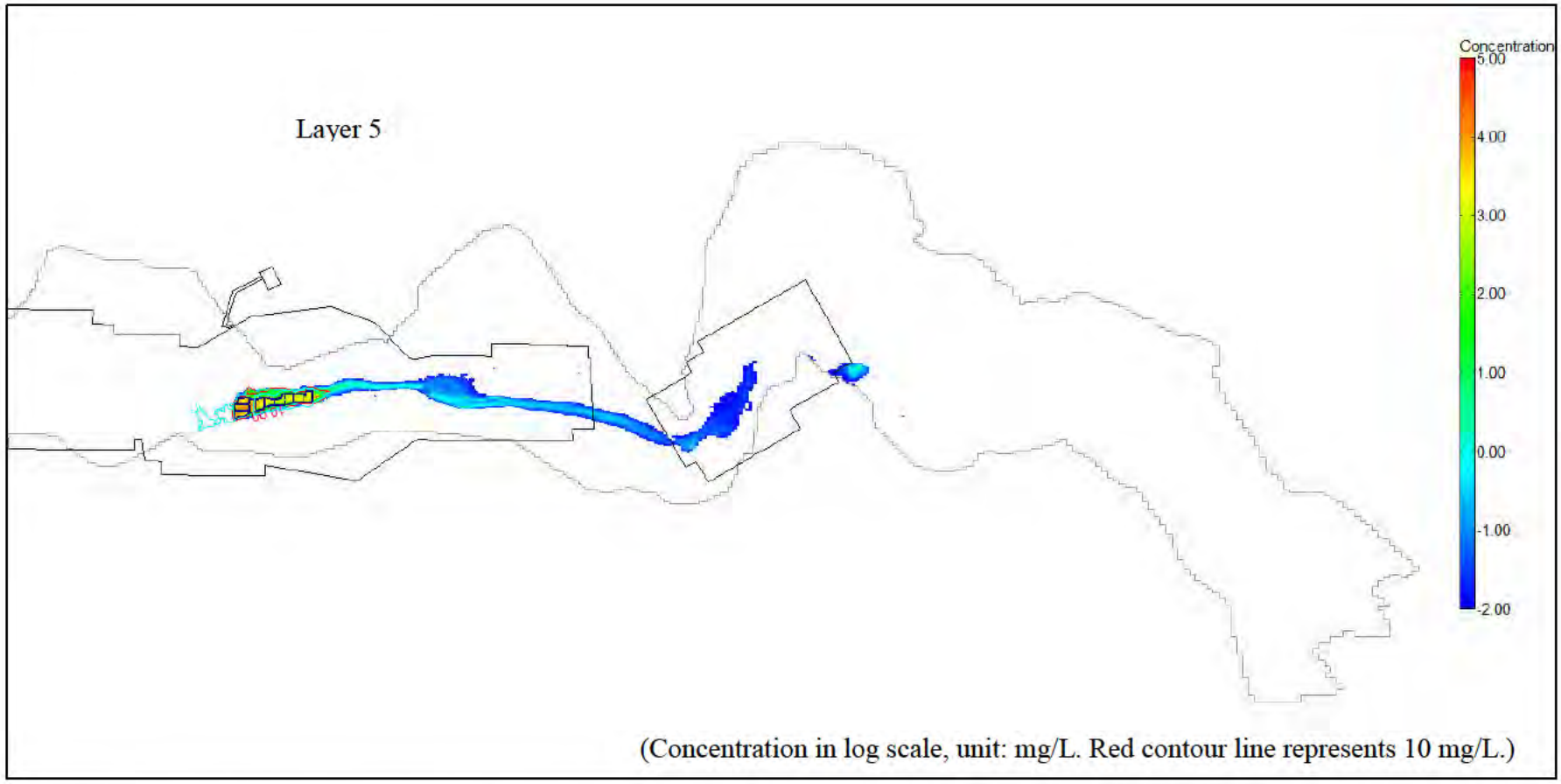

Figure 7.9e Simulated chloride transport plume in layer 5 at year 15,000, for 20% increase in source term concentration

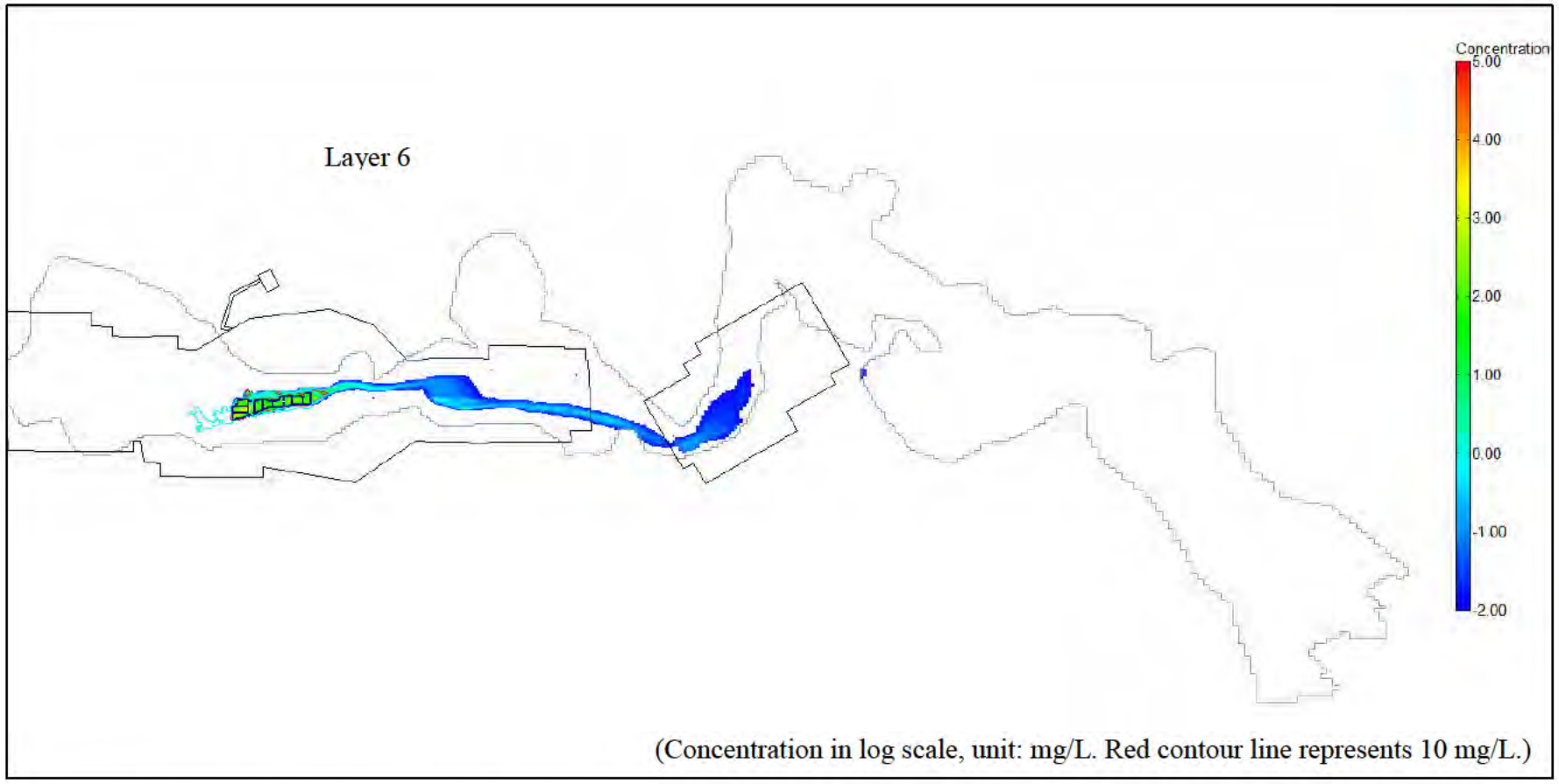

Figure 7.9f Simulated chloride transport plume in layer 6 at year 15,000, for 20% increase in source term concentration

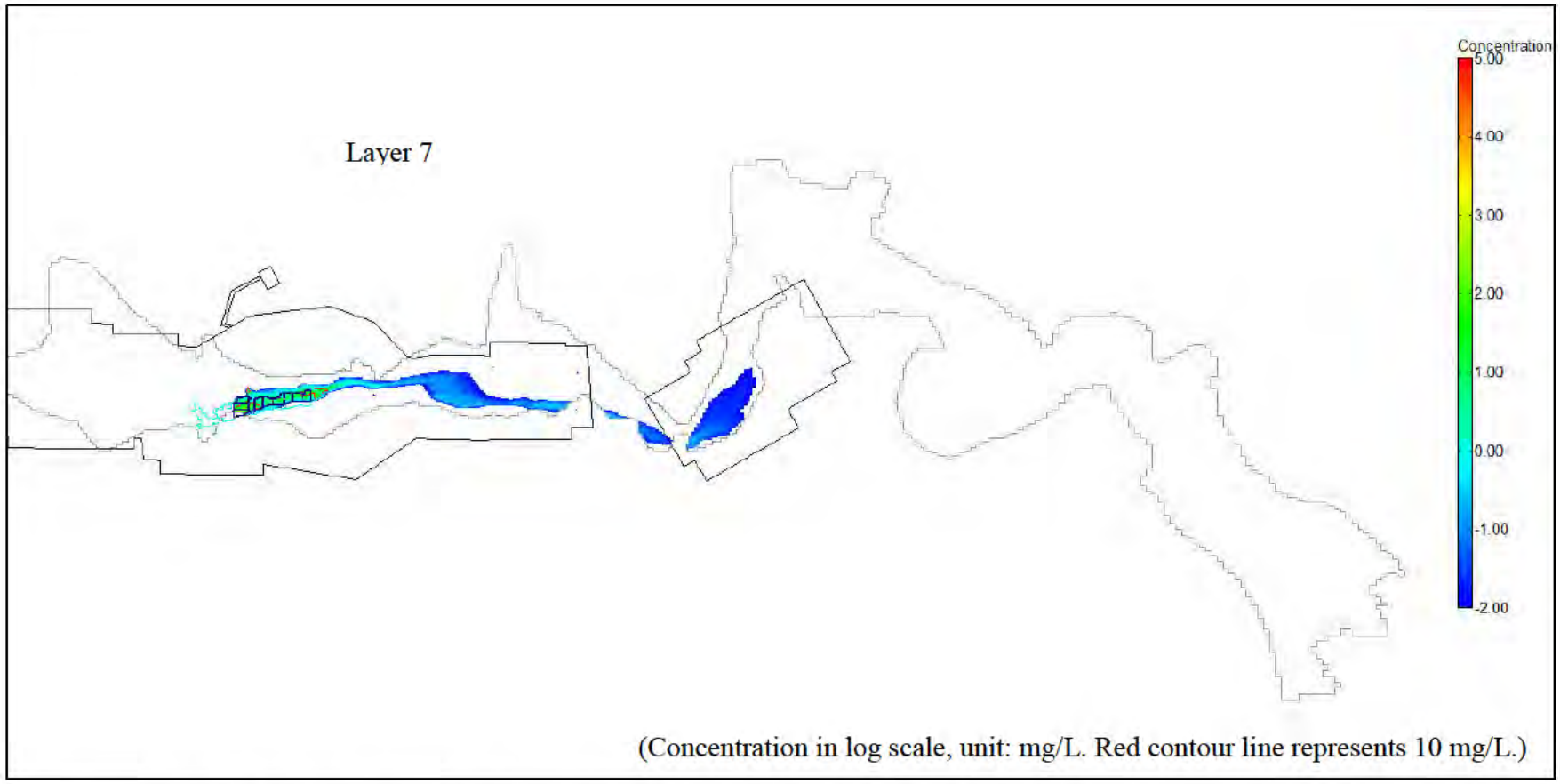

Figure 7.9g Simulated chloride transport plume in layer 7 at year 15,000, for 20% increase in source term concentration

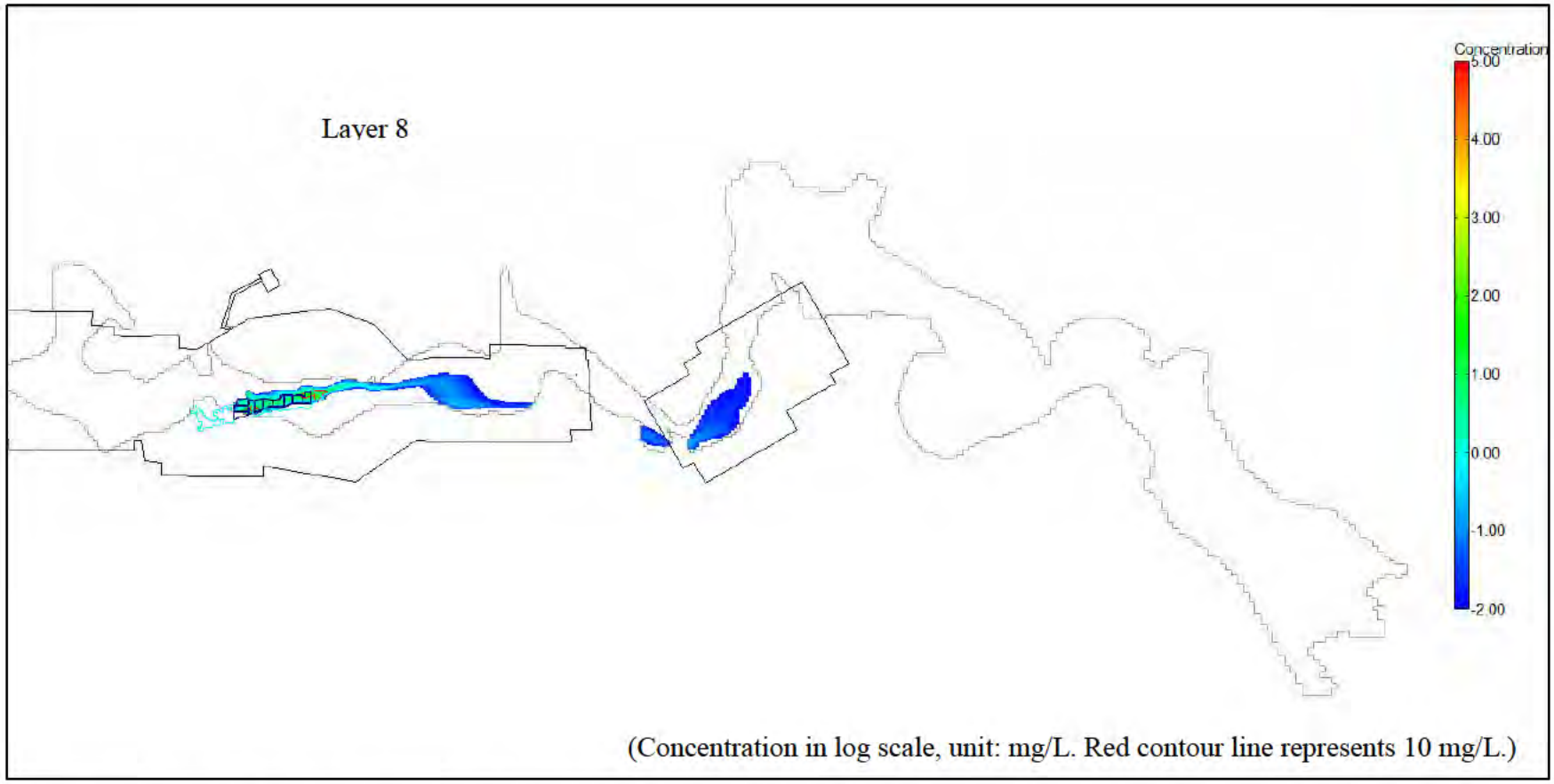

Figure 7.9h Simulated chloride transport plume in layer 8 at year 15,000, for 20% increase in source term concentration

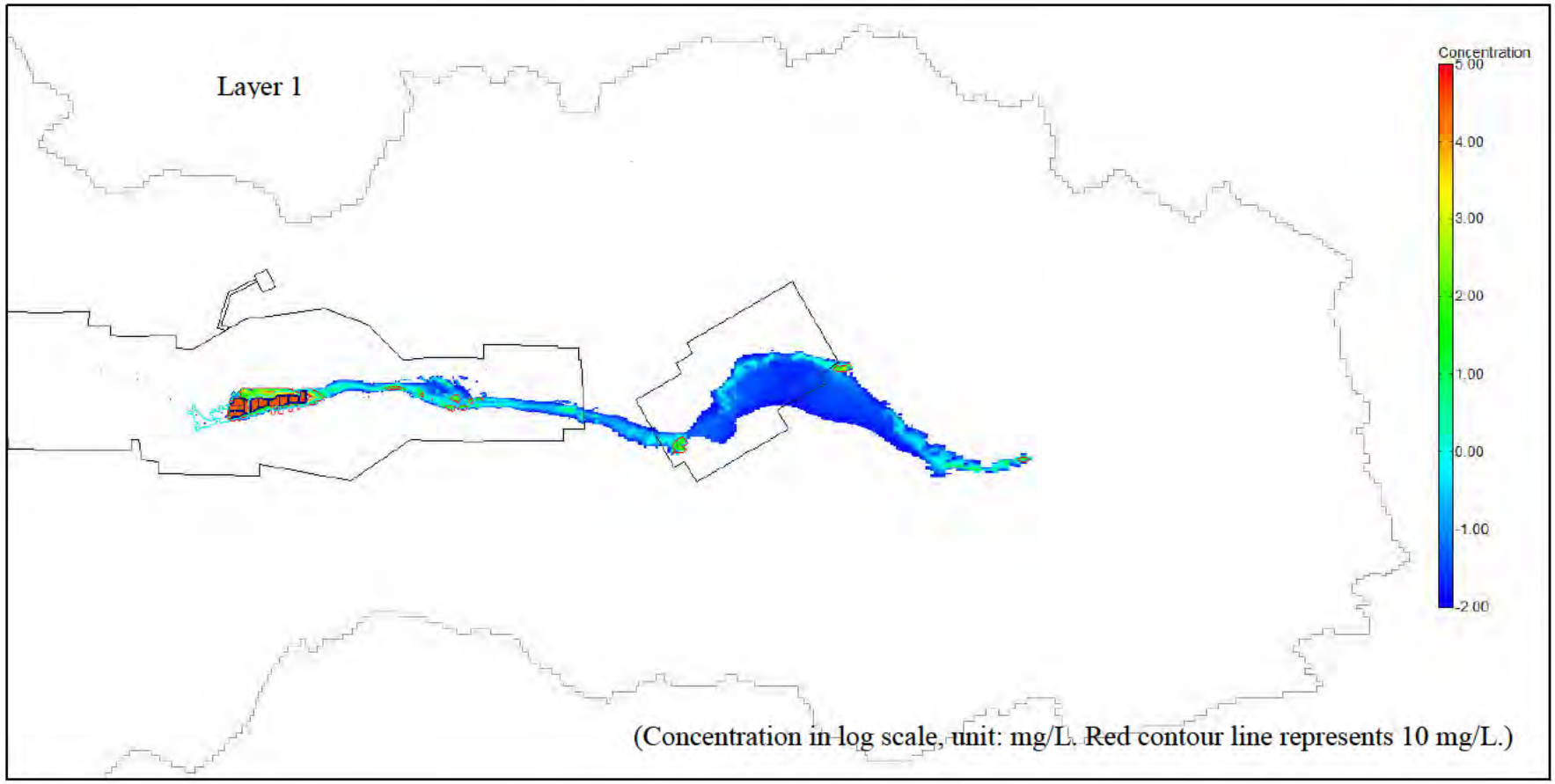

Figure 7.10a Simulated chloride transport plume in layer 1 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

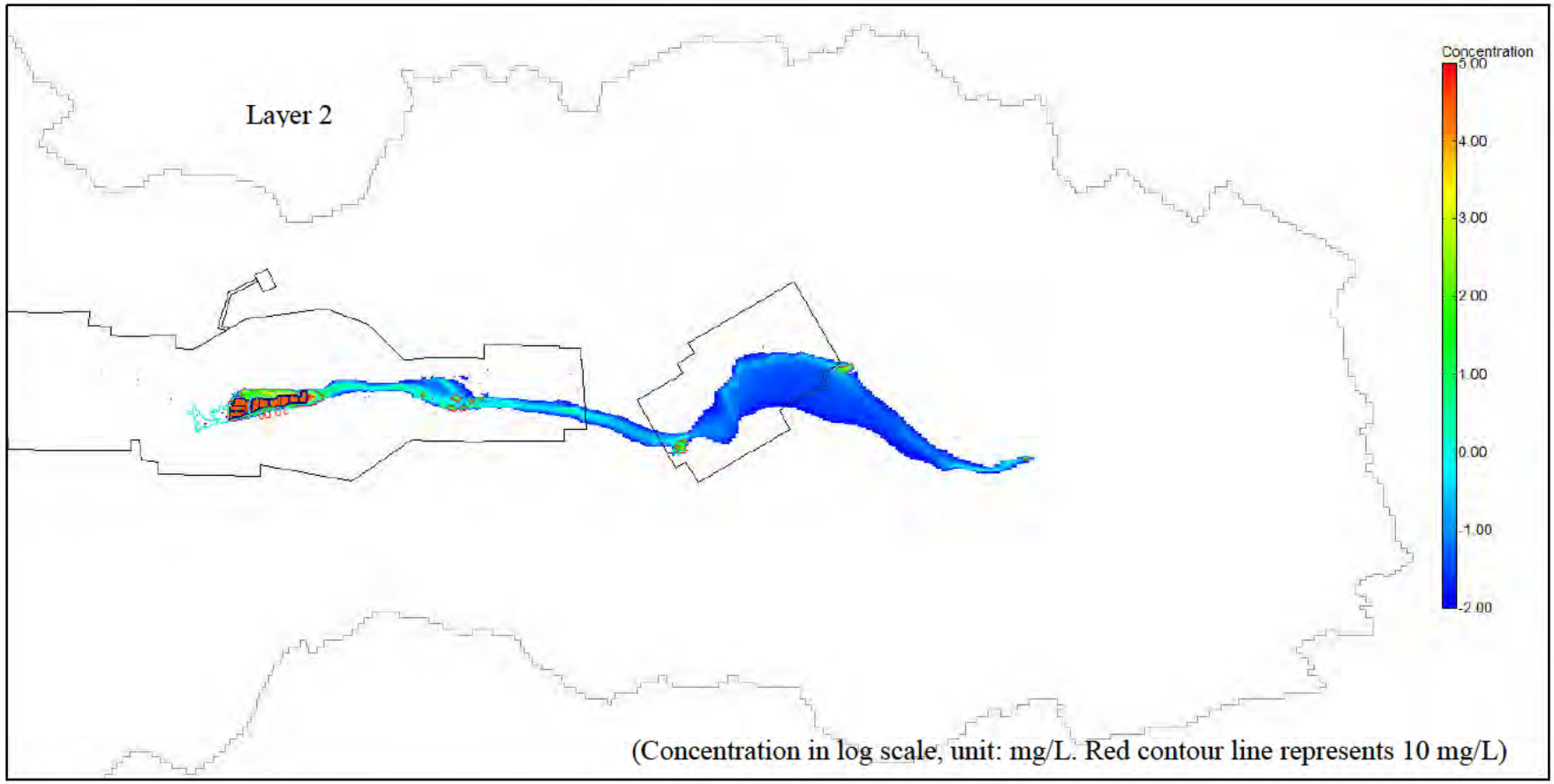

Figure 7.10b Simulated chloride transport plume in layer 2 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

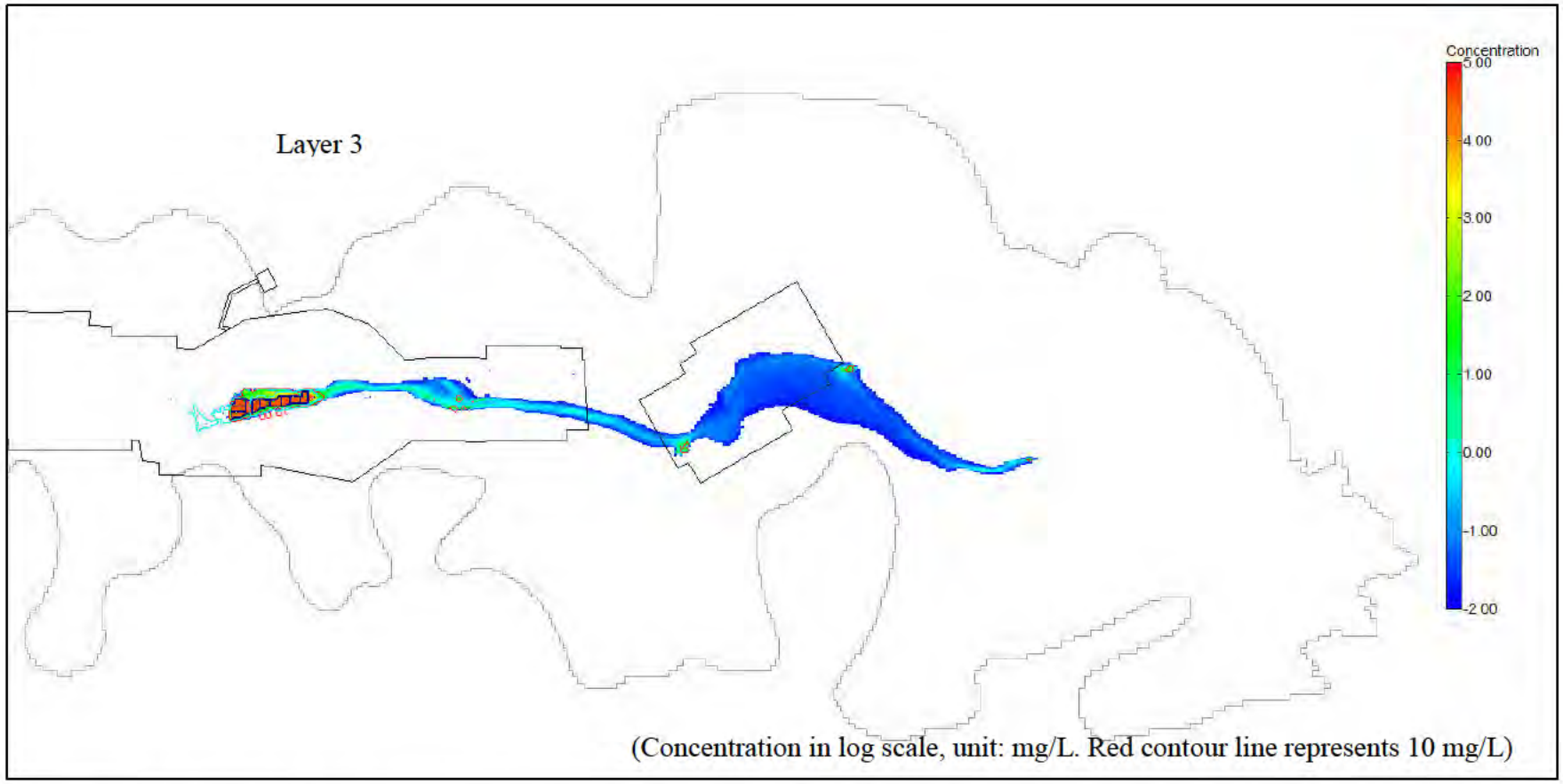

Figure 7.10c Simulated chloride transport plume in layer 3 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

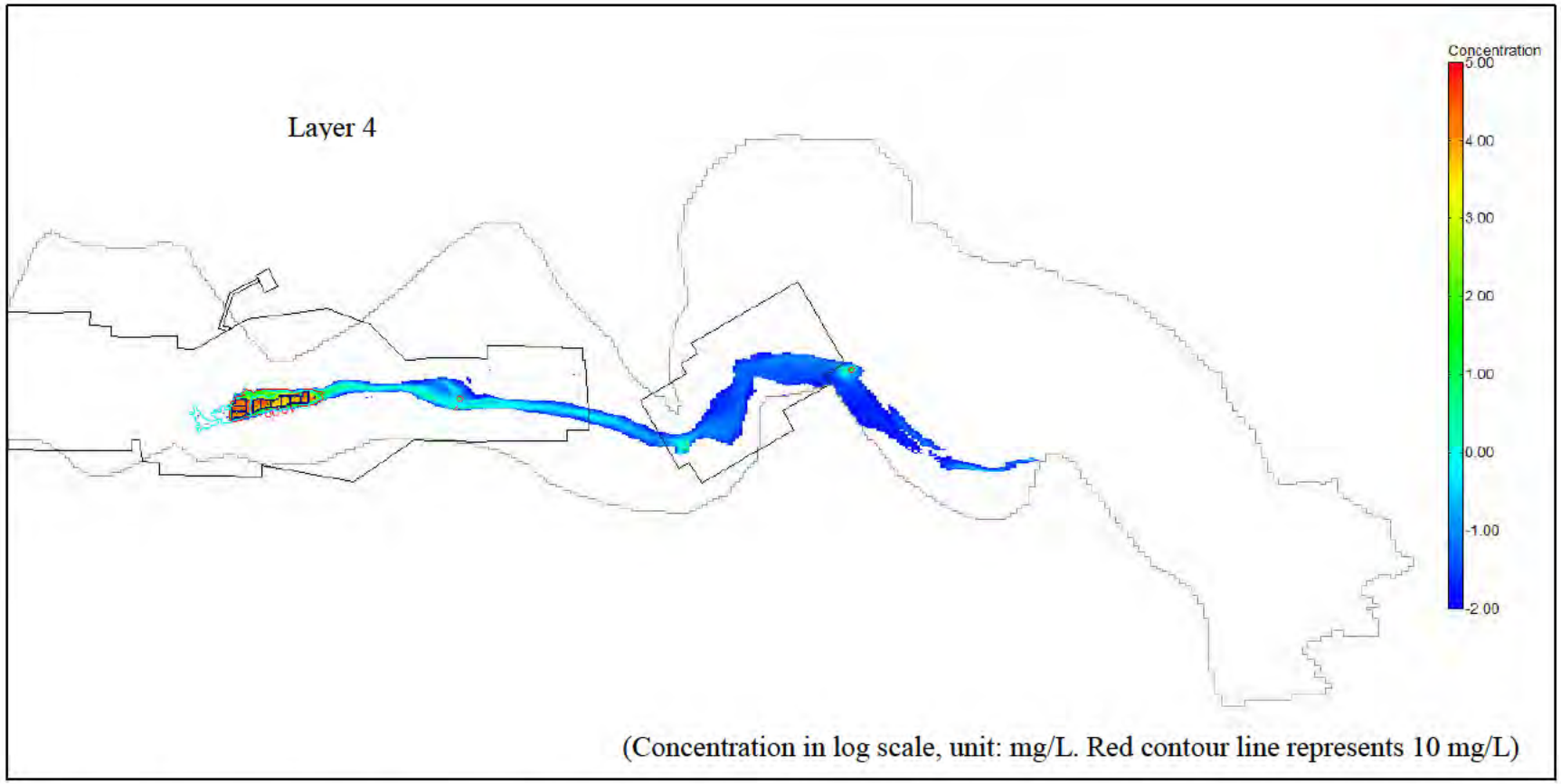

Figure 7.10d Simulated chloride transport plume in layer 4 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

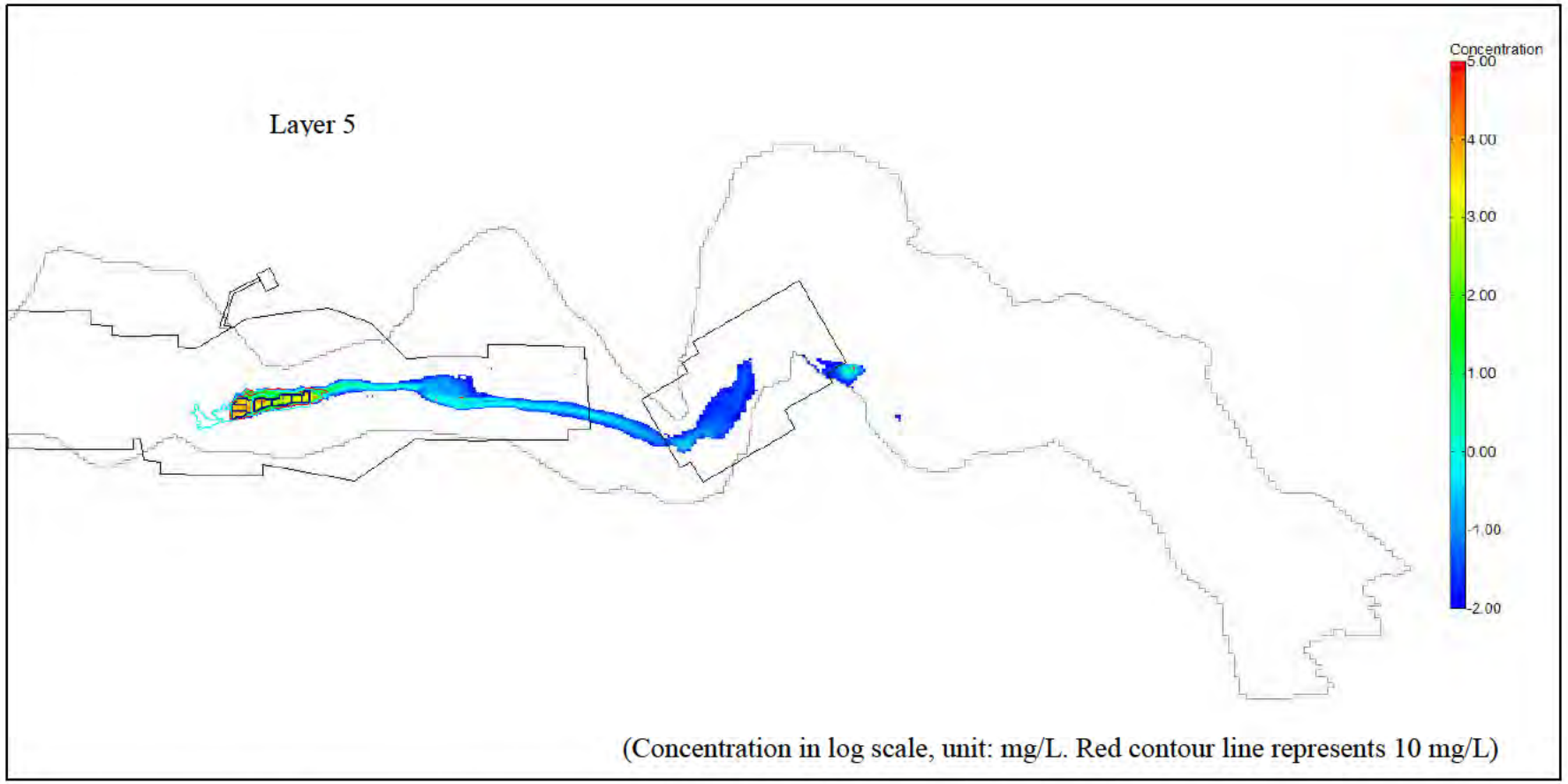

Figure 7.10e Simulated chloride transport plume in layer 5 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

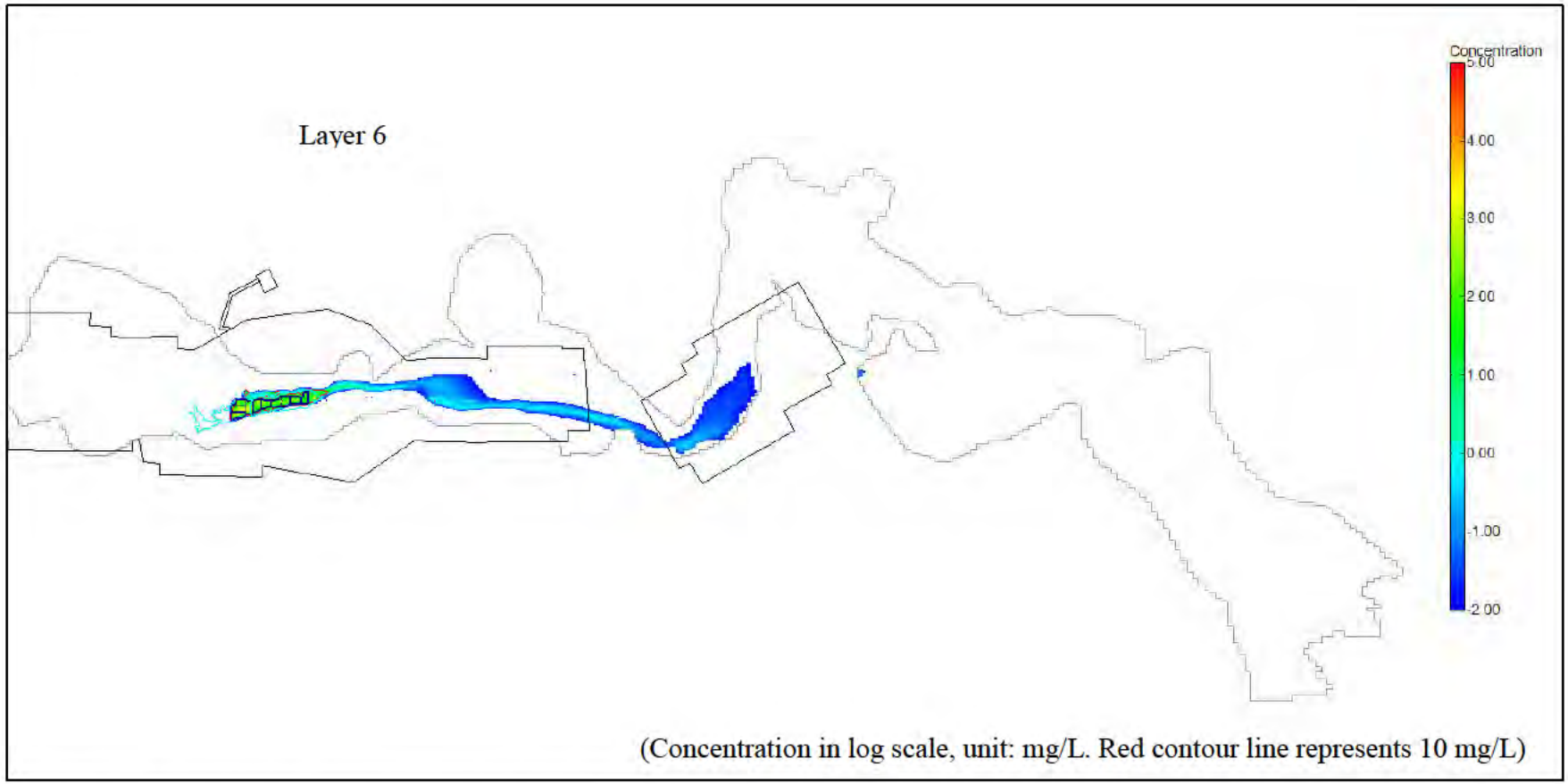

Figure 7.10f Simulated chloride transport plume in layer 6 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

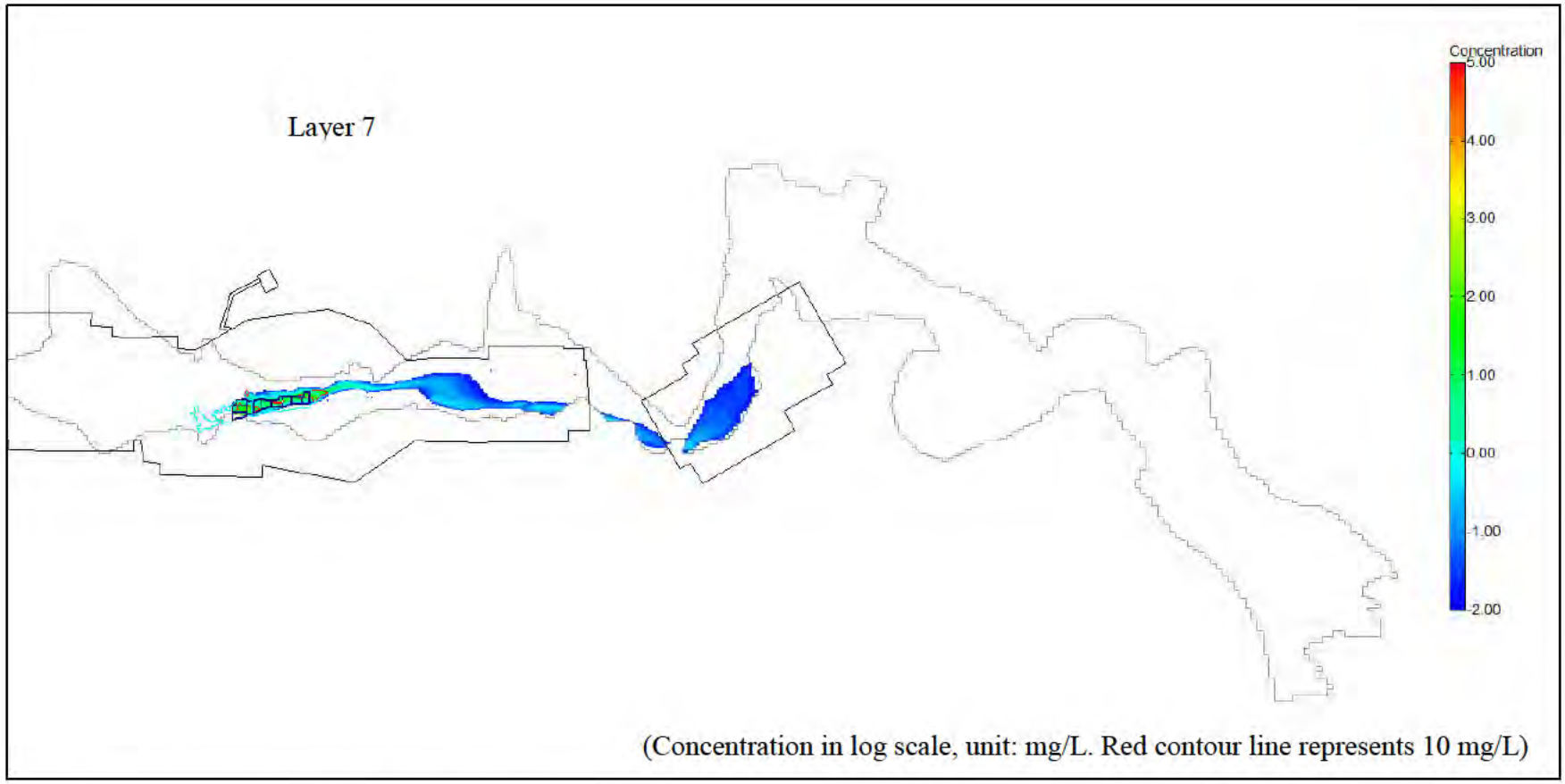

Figure 7.10g Simulated chloride transport plume in layer 7 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

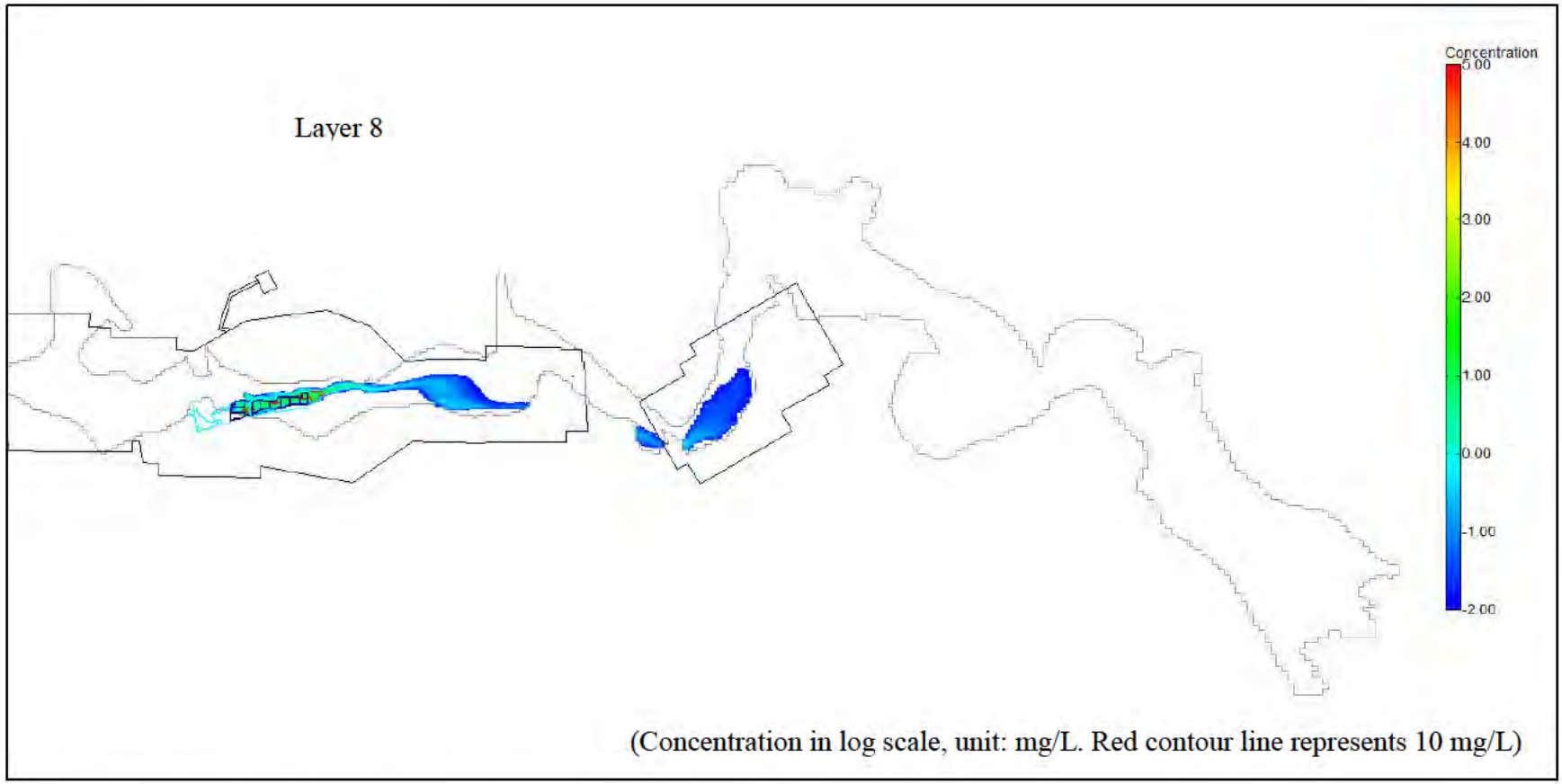

Figure 7.10h Simulated chloride transport plume in layer 8 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

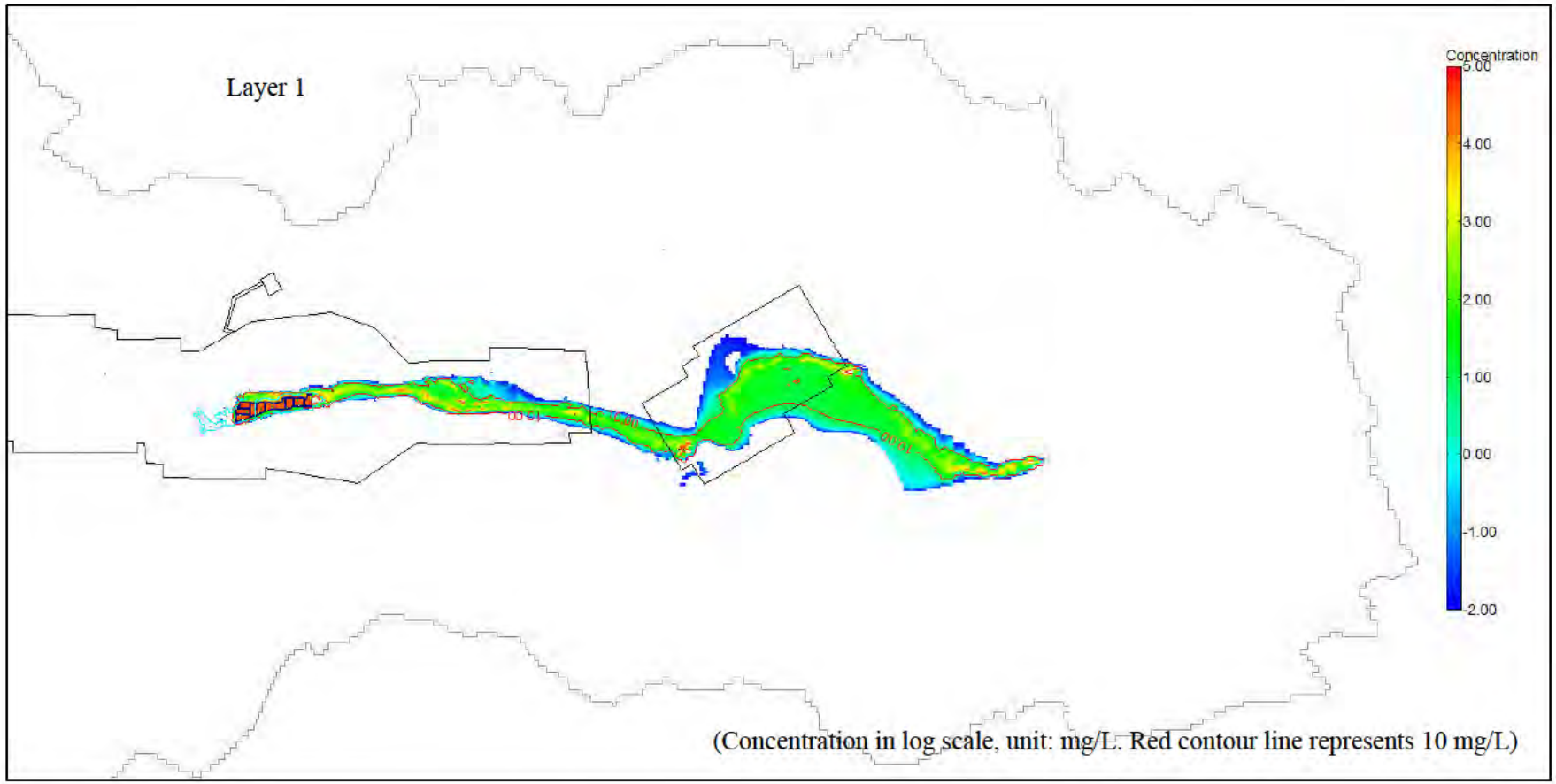

Figure 7.11a Simulated chloride transport plume in layer 1 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

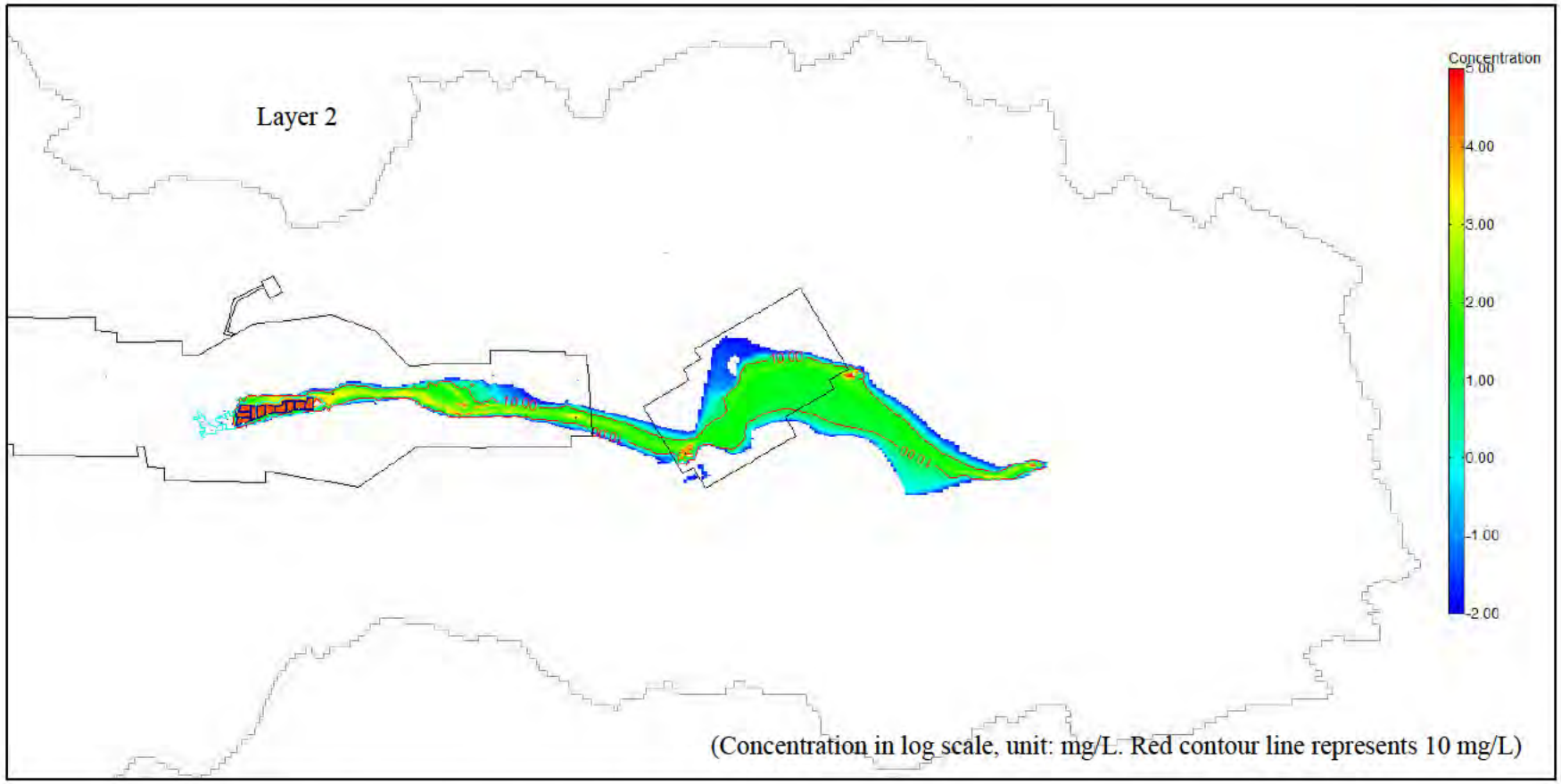

Figure 7.11b Simulated chloride transport plume in layer 2 at year 15,000, for infiltration rate through tailings cover of 2.5 % of annual precipitation

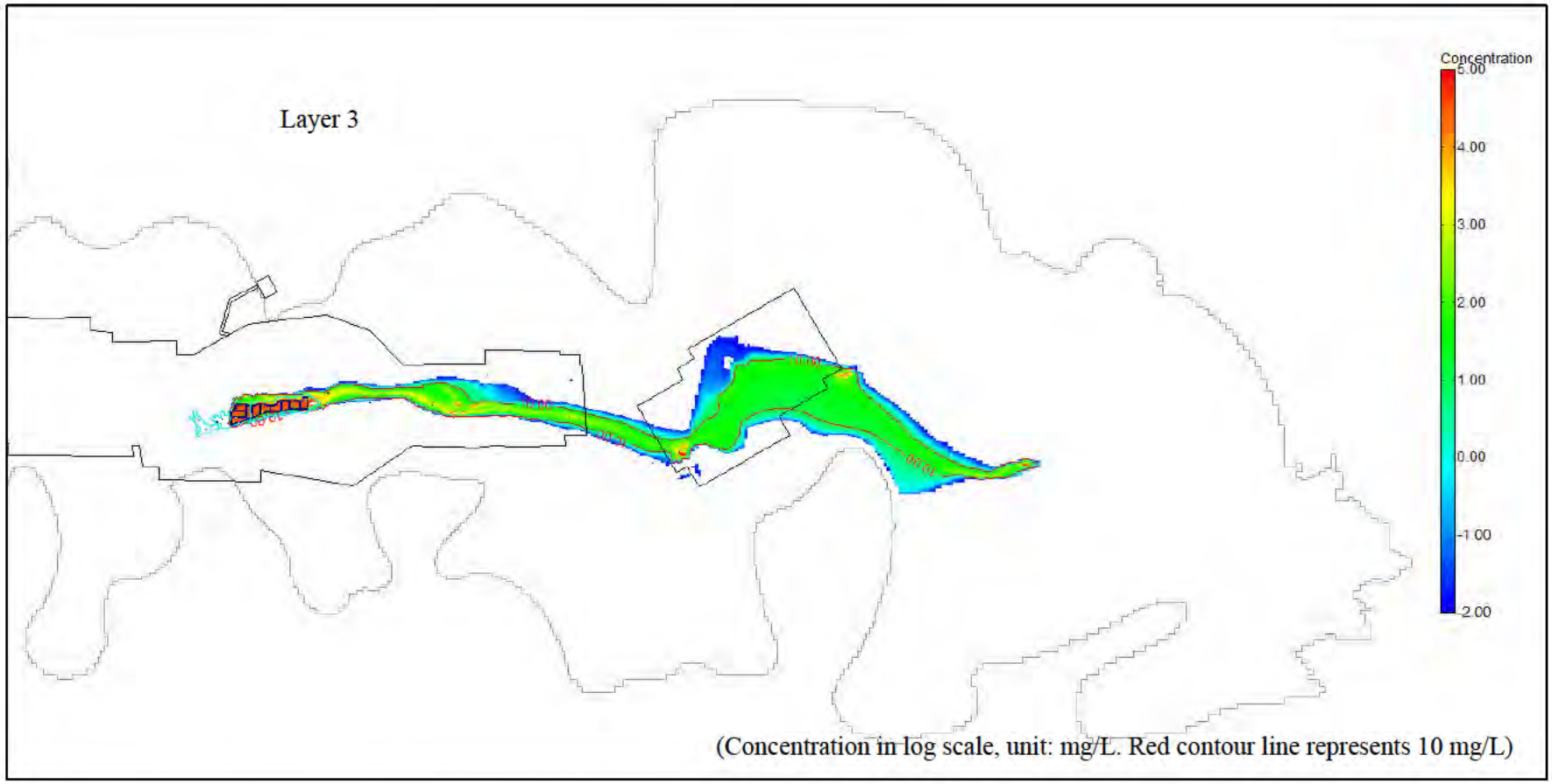

Figure 7.11c Simulated chloride transport plume in layer 3 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

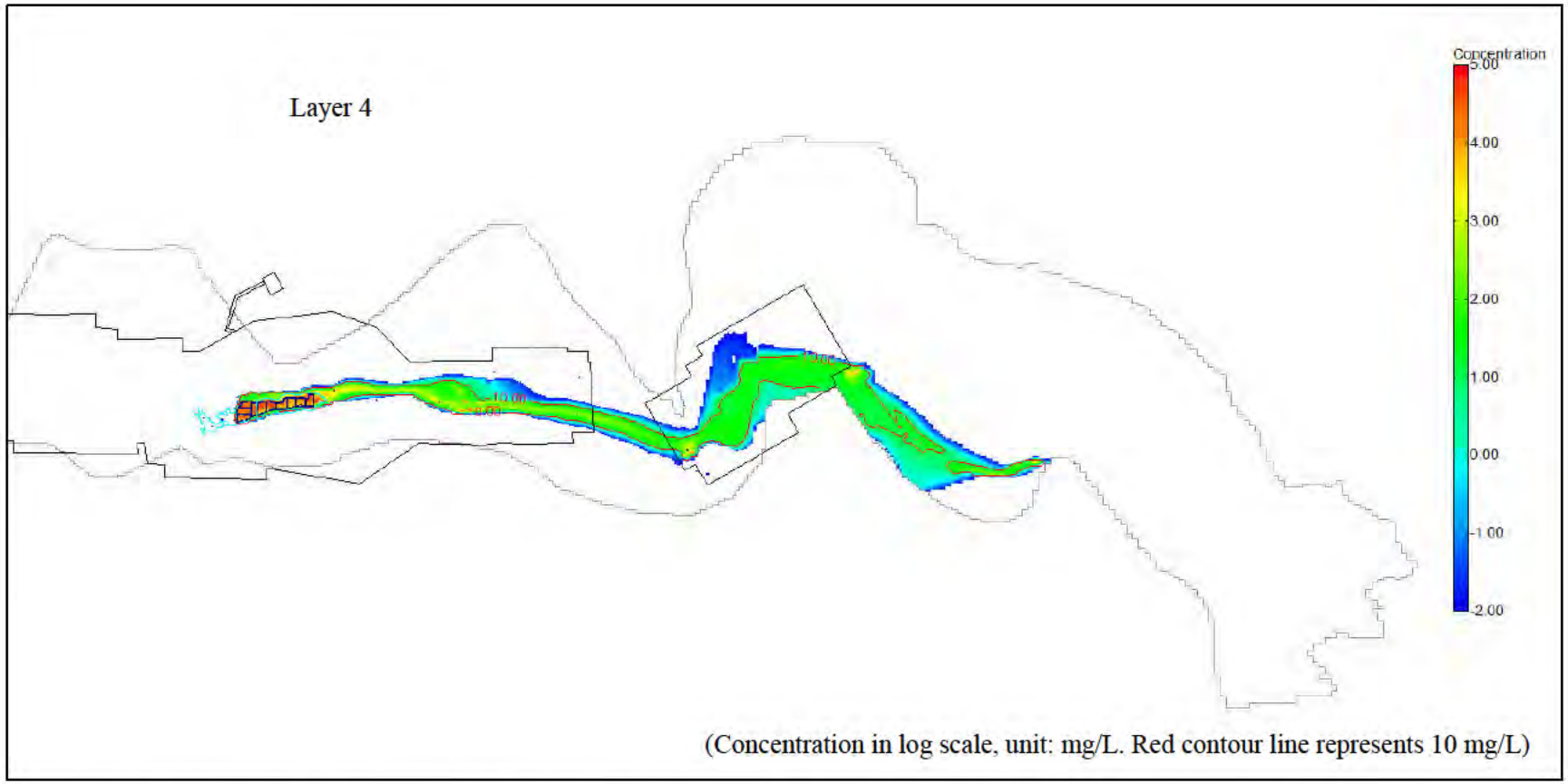

Figure 7.11d Simulated chloride transport plume in layer 4 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

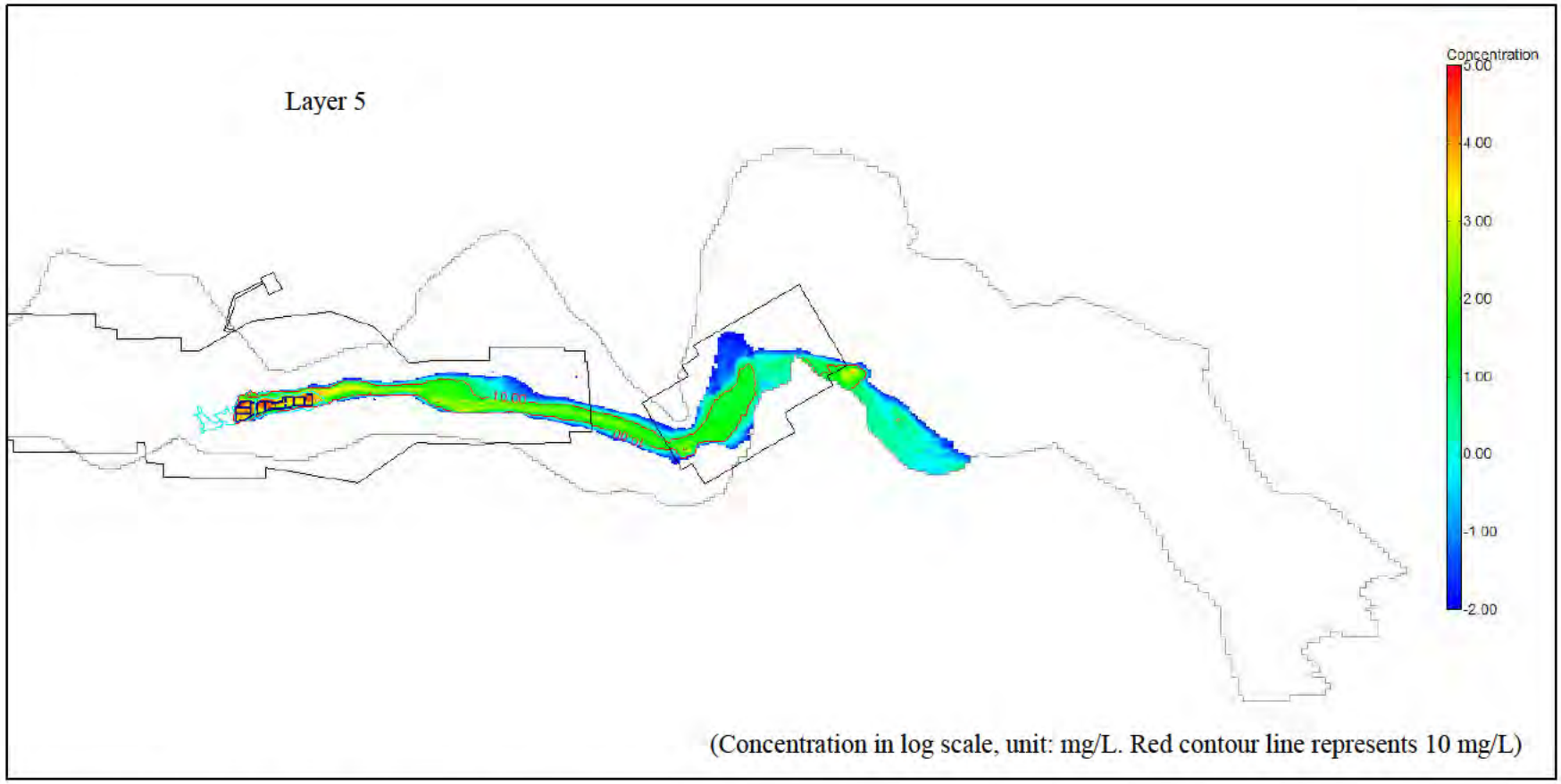

Figure 7.11e Simulated chloride transport plume in layer 5 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

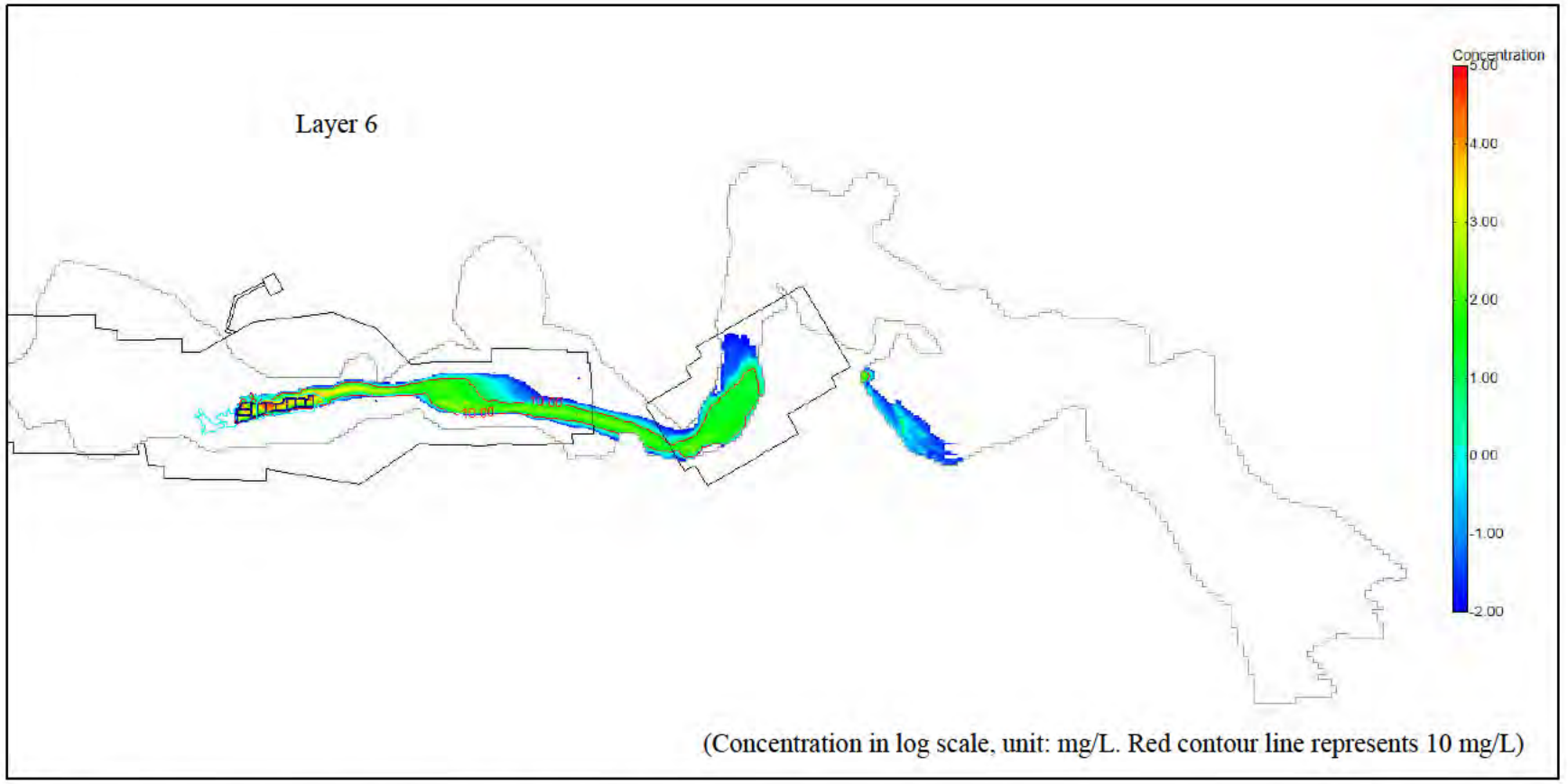

Figure 7.11f Simulated chloride transport plume in layer 6 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

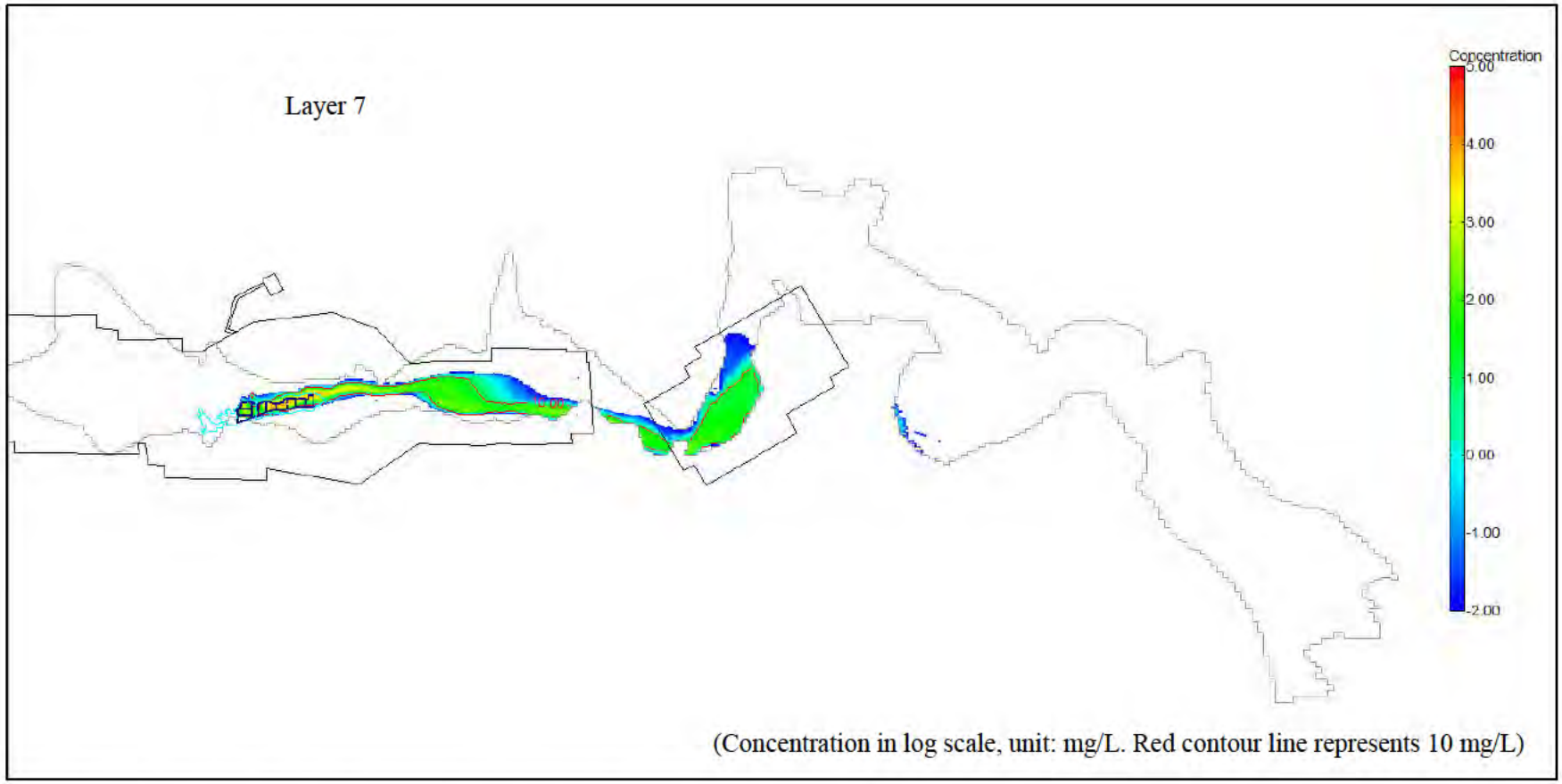

Figure 7.11g Simulated chloride transport plume in layer 7 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

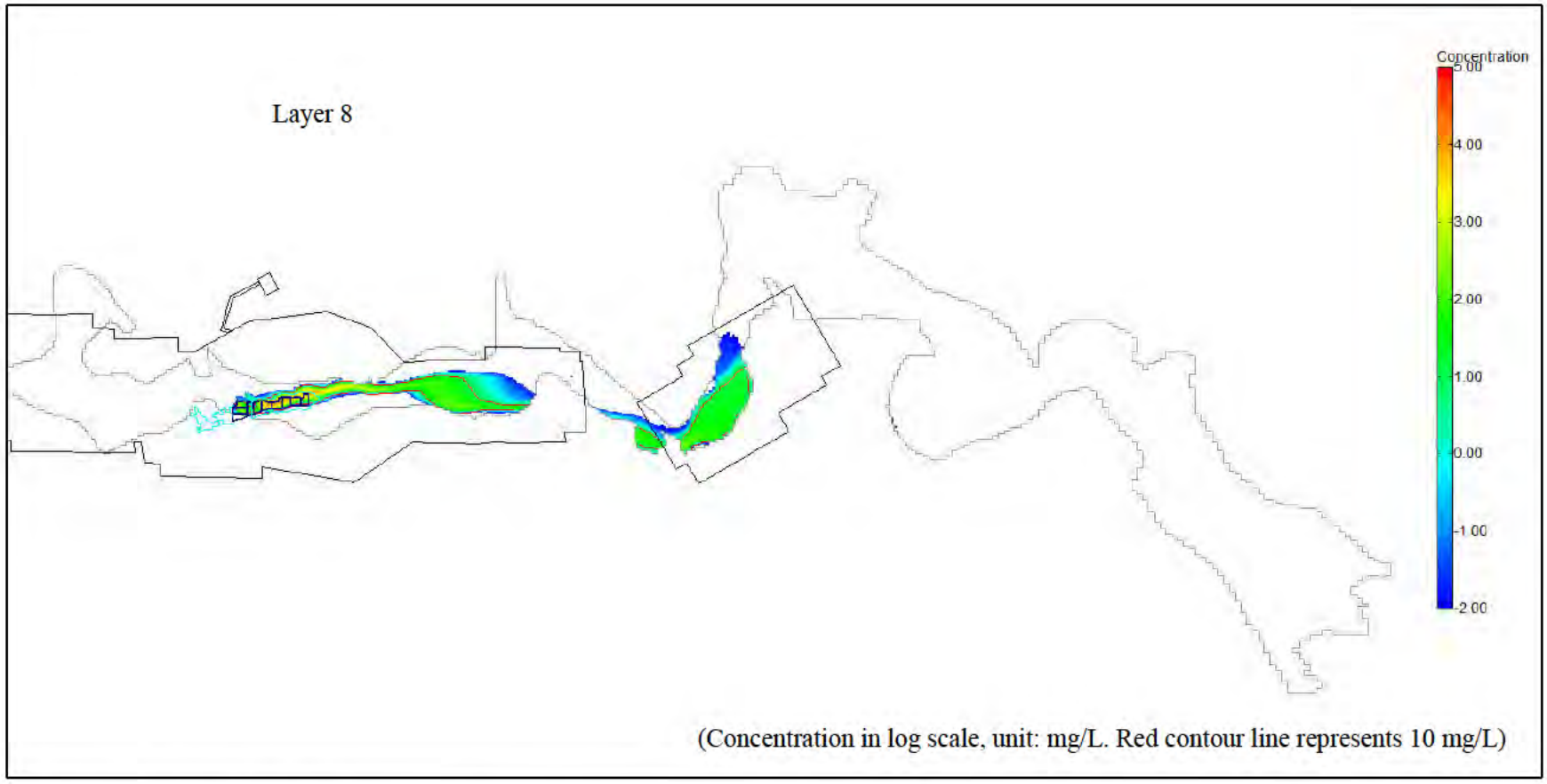

Figure 7.11h Simulated chloride transport plume in layer 8 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

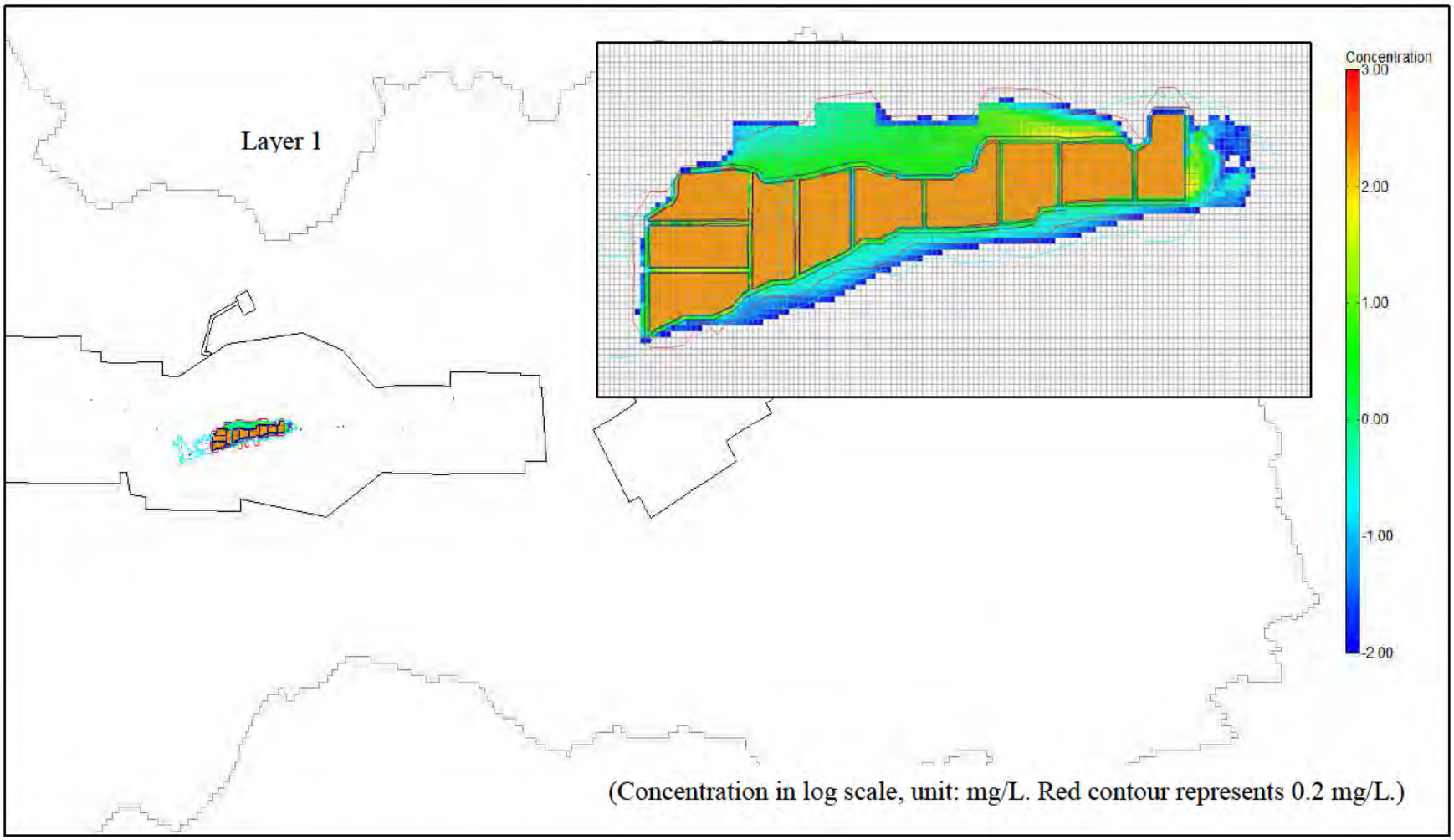

Figure 7.12a Simulated uranium transport plume in layer 1 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

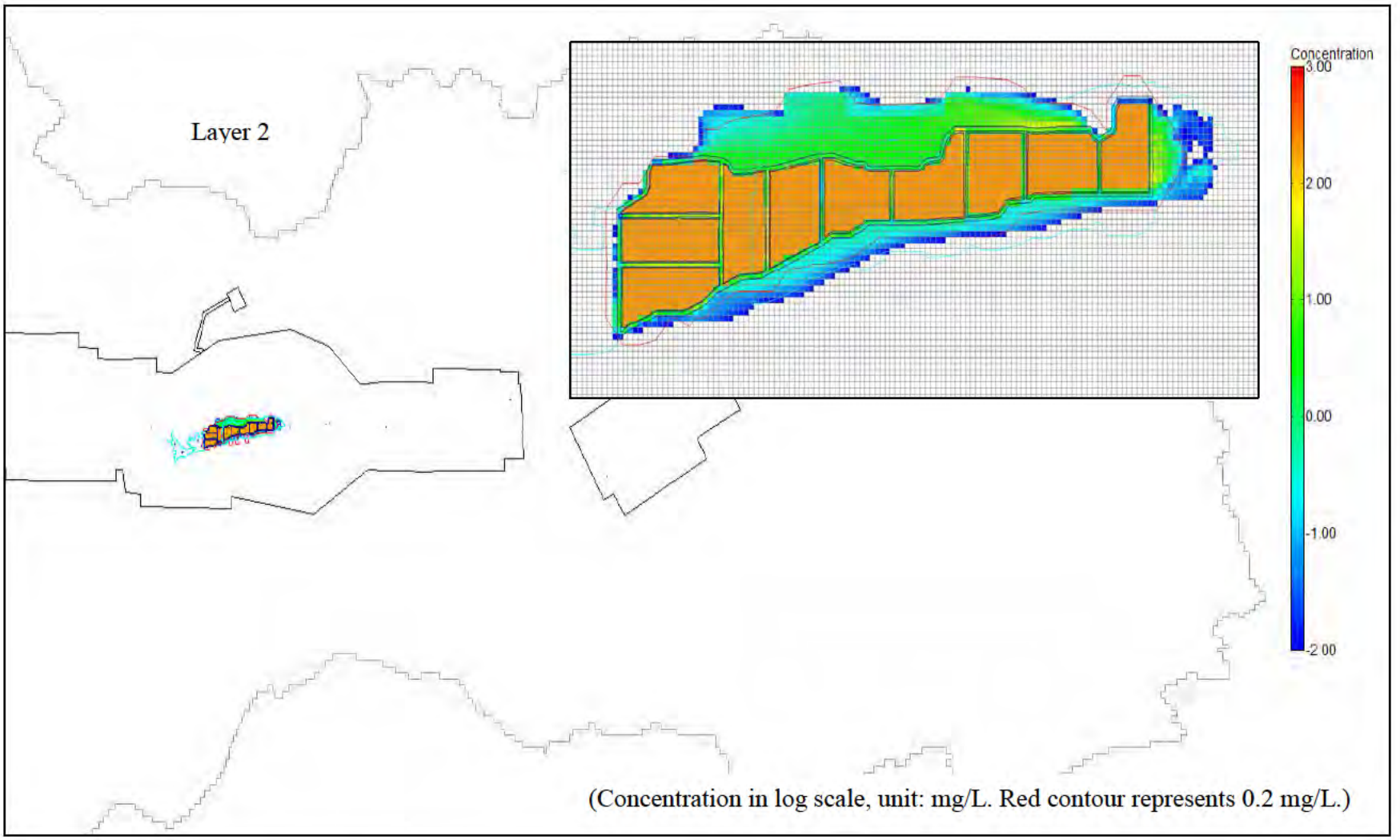

Figure 7.12b Simulated uranium transport plume in layer 2 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

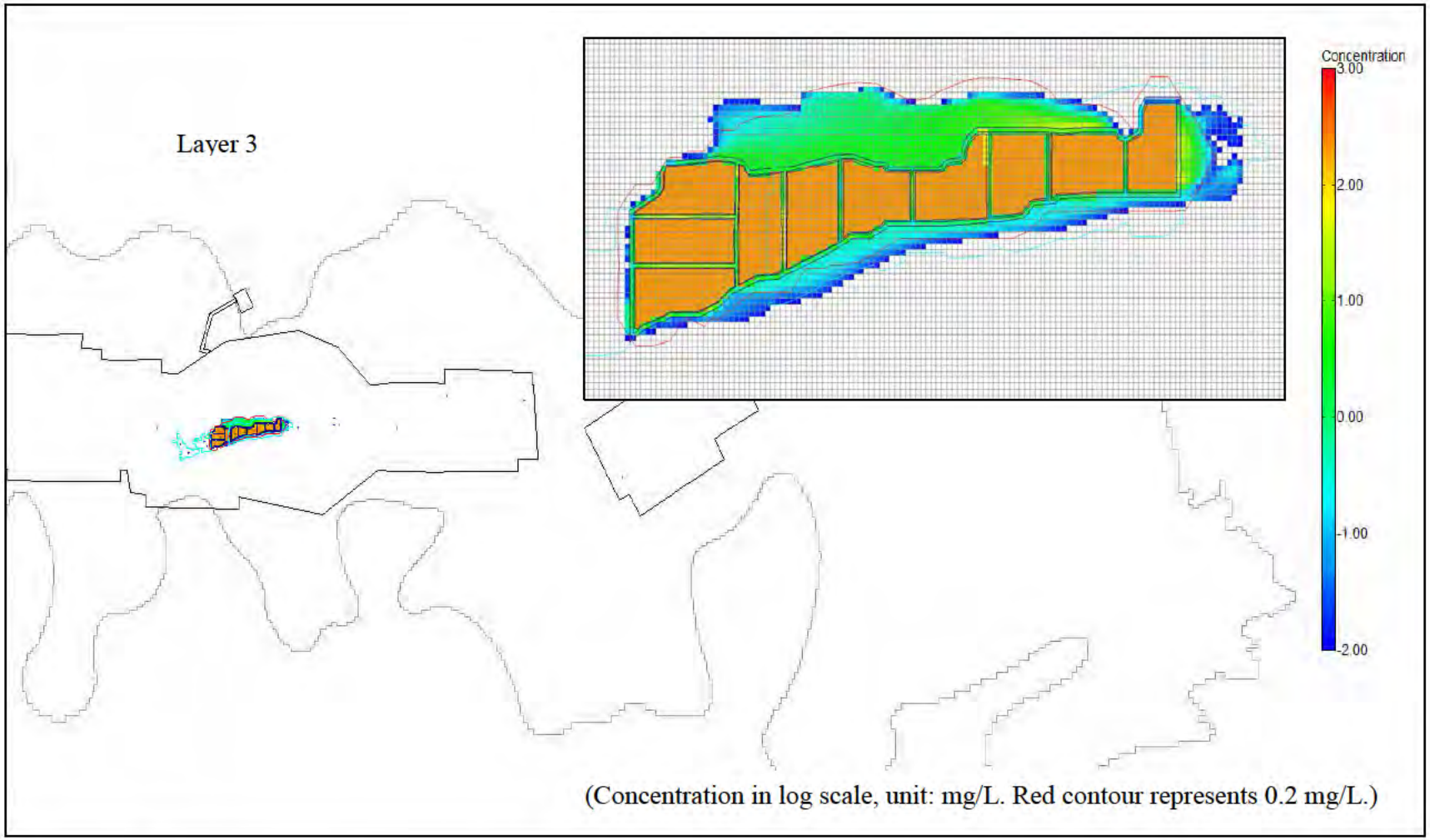

Figure 7.12c Simulated uranium transport plume in layer 3 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

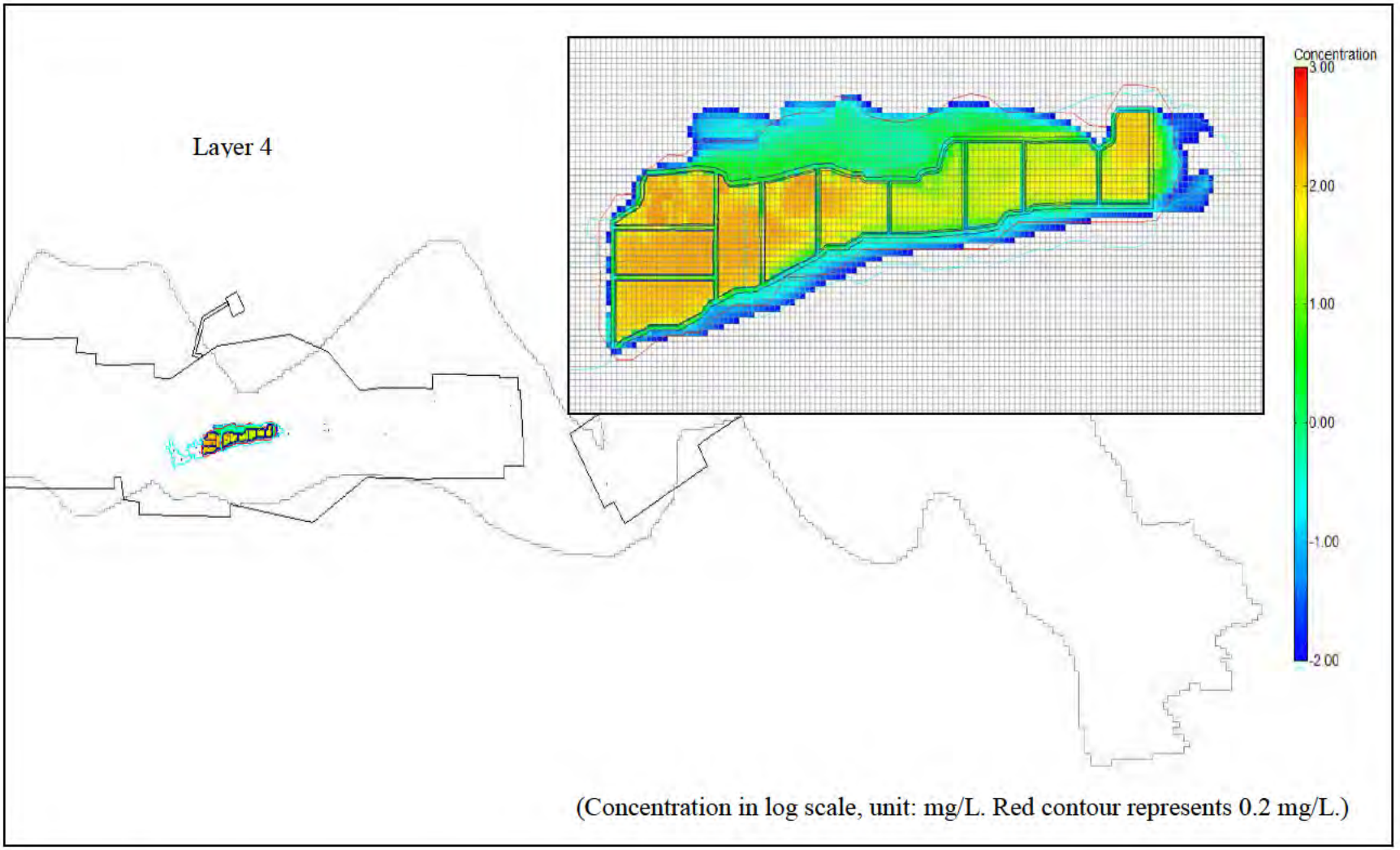

Figure 7.12d Simulated uranium transport plume in layer 4 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

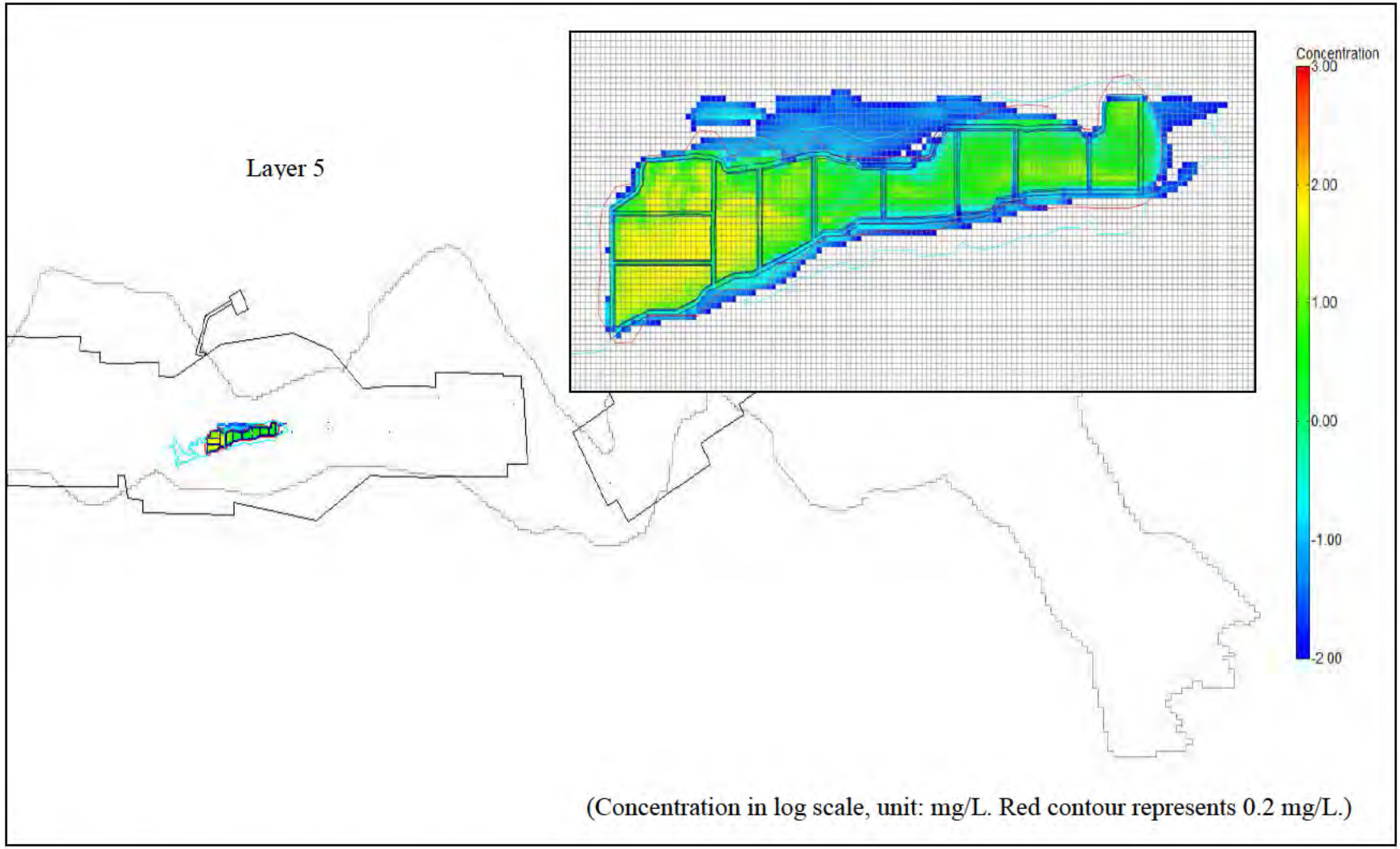

Figure 7.12e Simulated uranium transport plume in layer 5 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

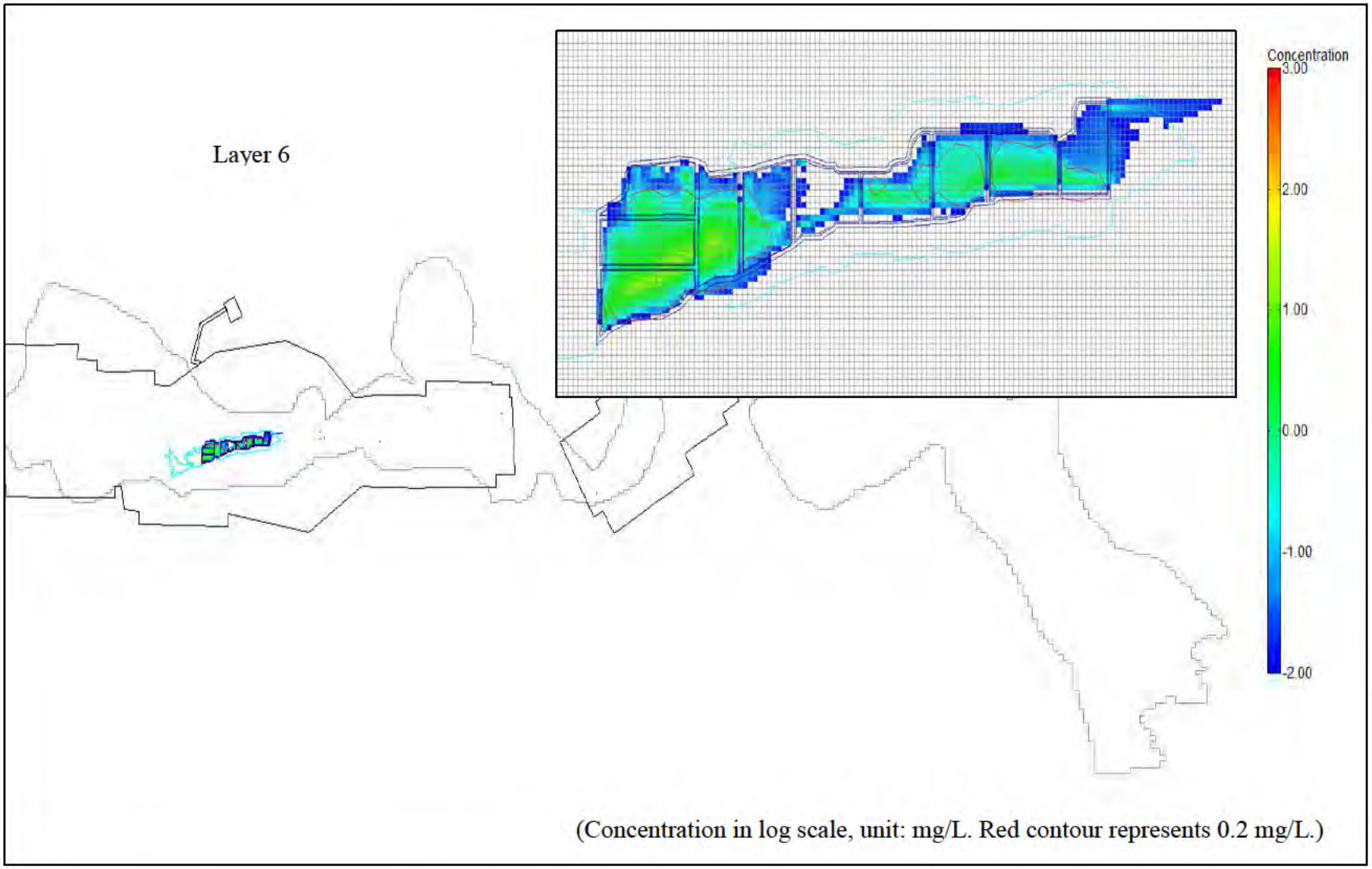

Figure 7.12f Simulated uranium transport plume in layer 6 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

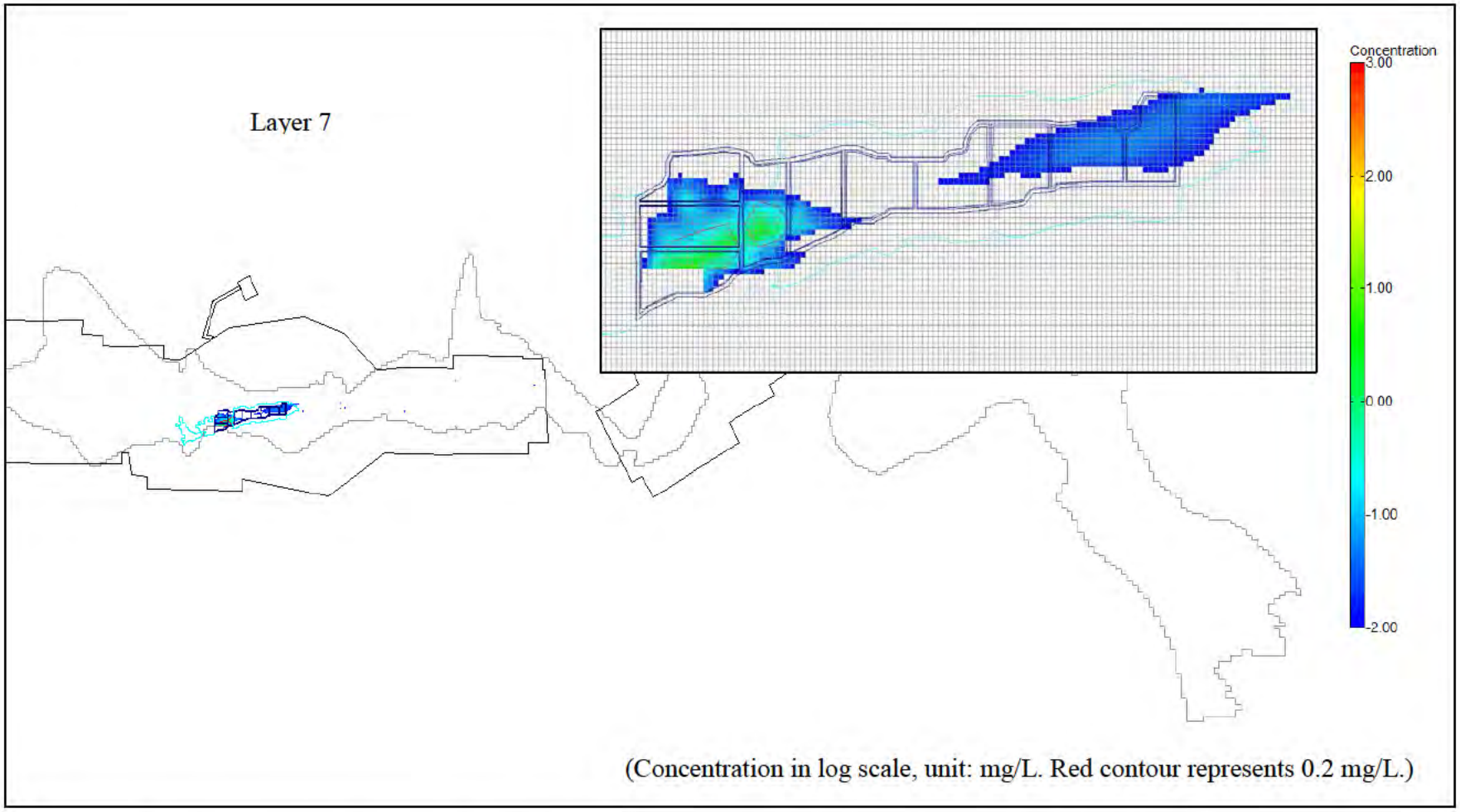

Figure 7.12g Simulated uranium transport plume in layer 7 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

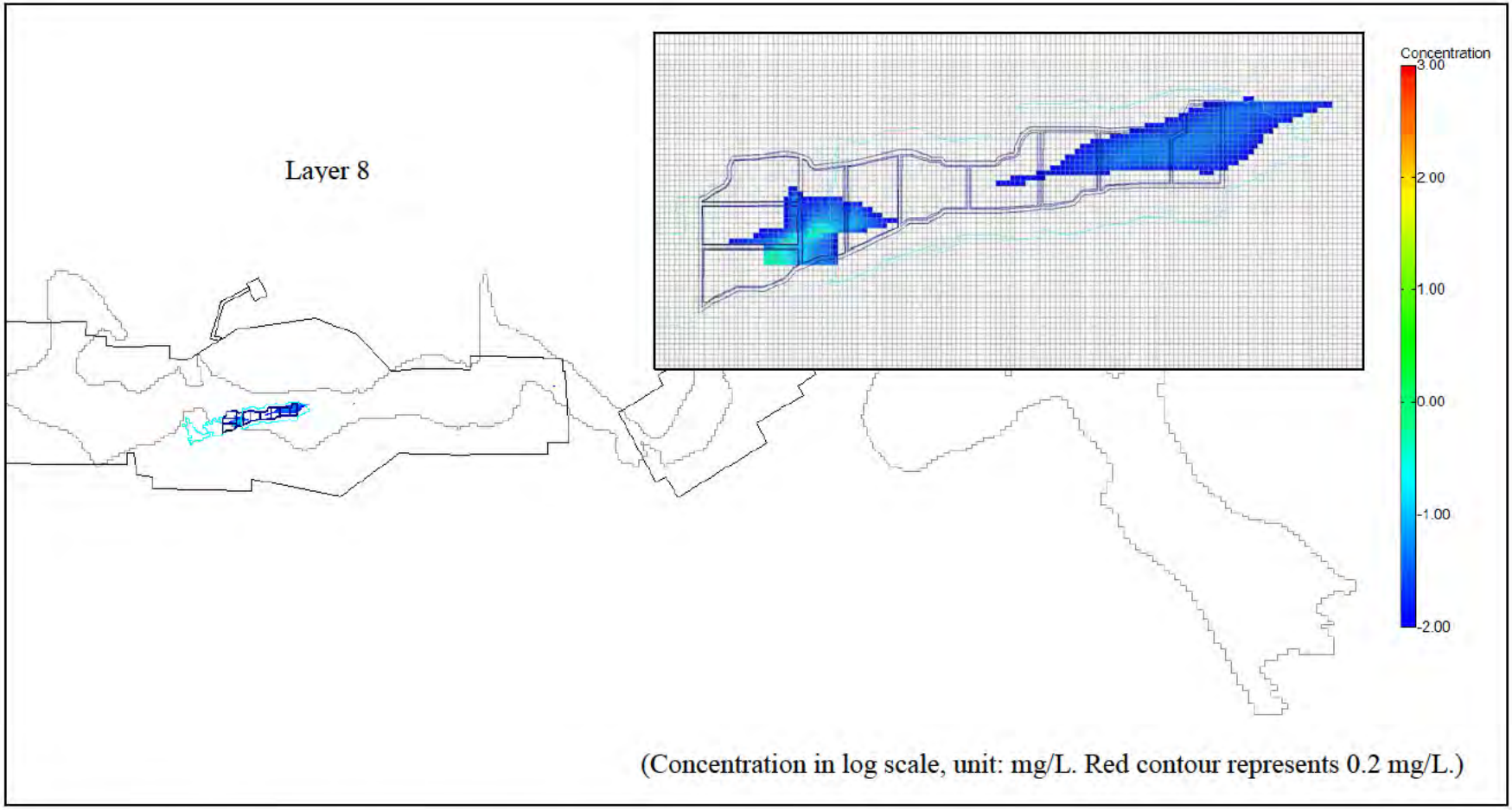

Figure 7.12h Simulated uranium transport plume in layer 8 at year 15,000, for infiltration rate through tailings cover of 0.2% of annual precipitation

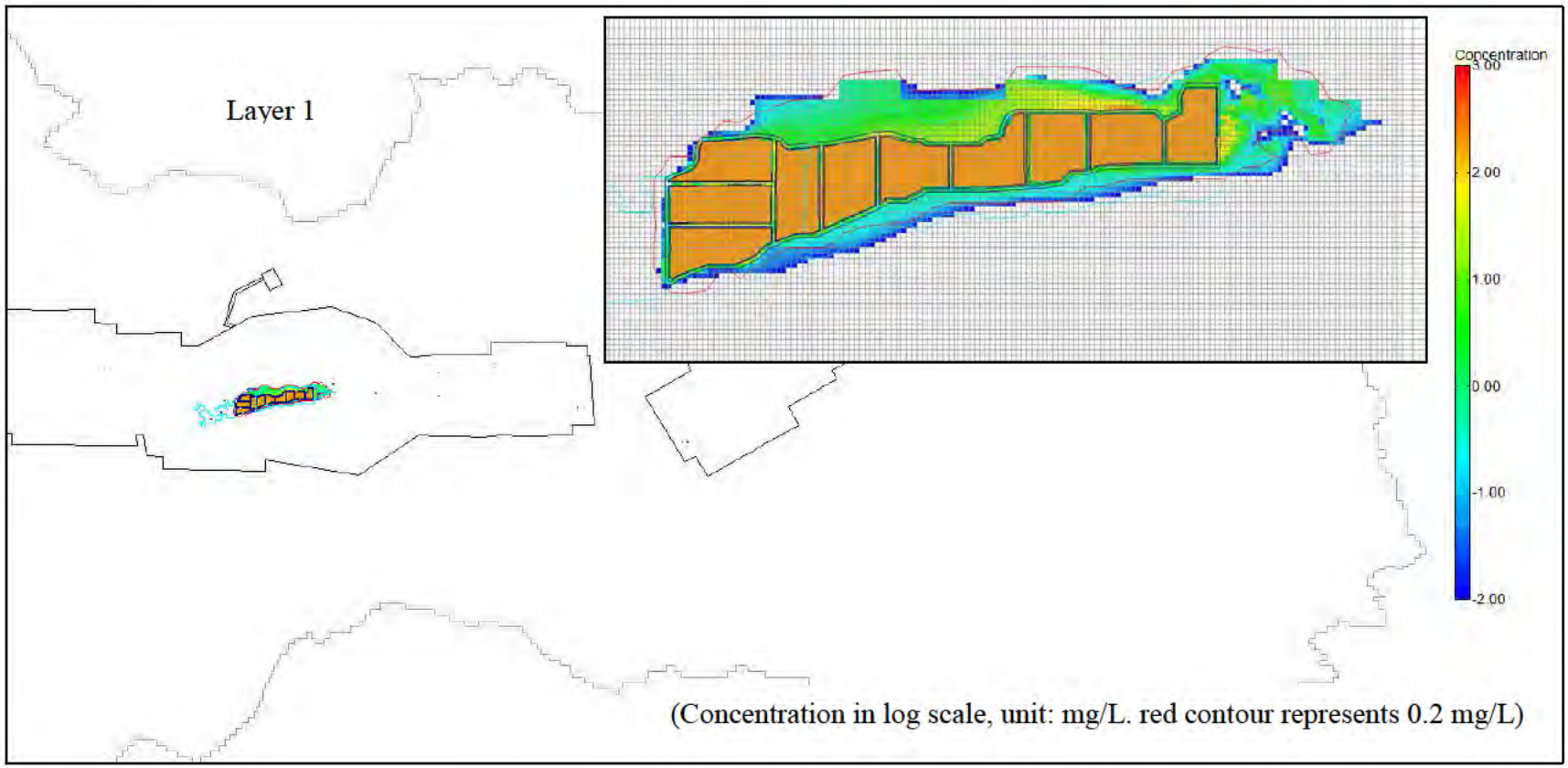

Figure 7.13a Simulated uranium transport plume in layer 1 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

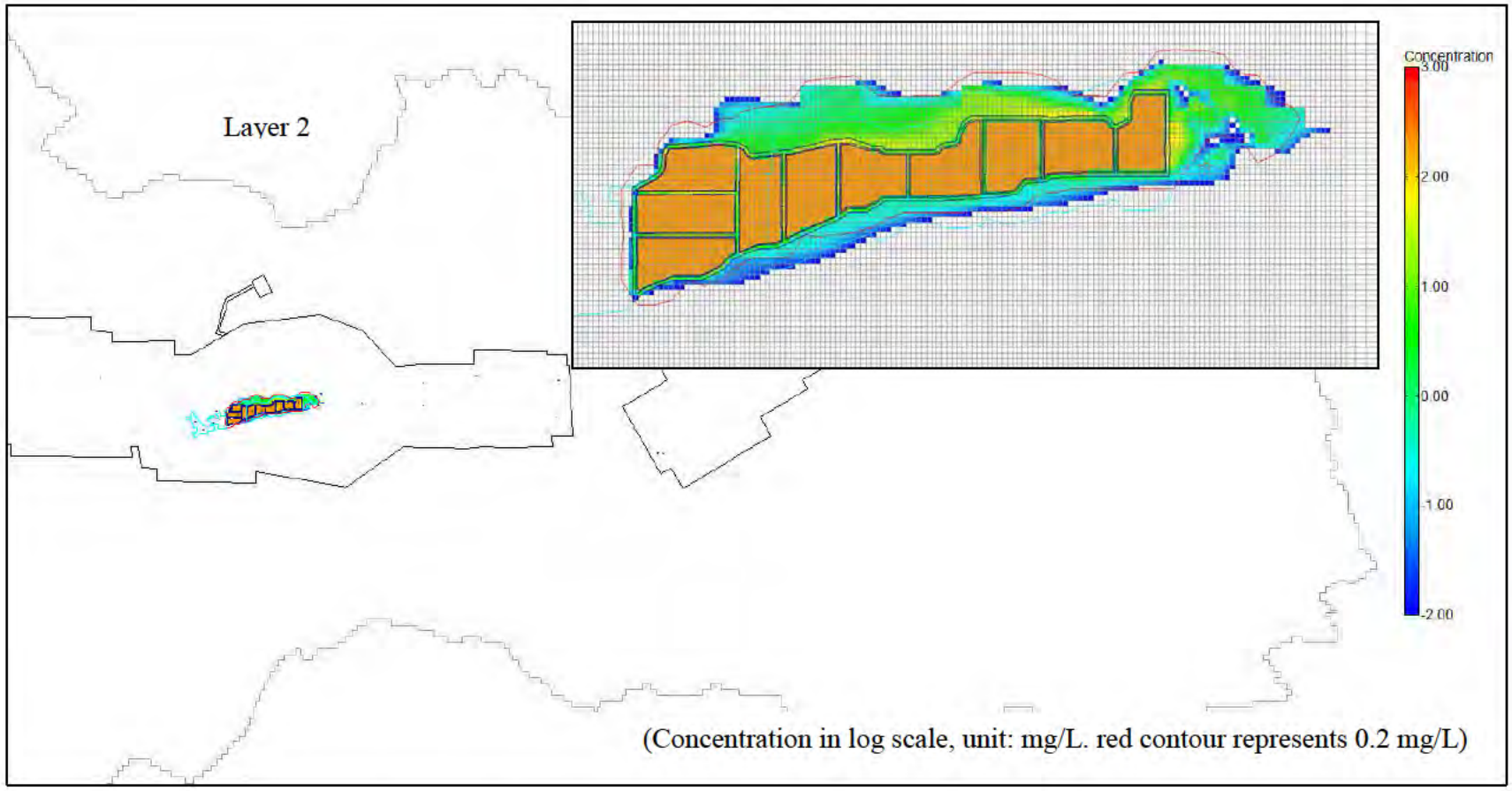

Figure 7.13b Simulated uranium transport plume in layer 2 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

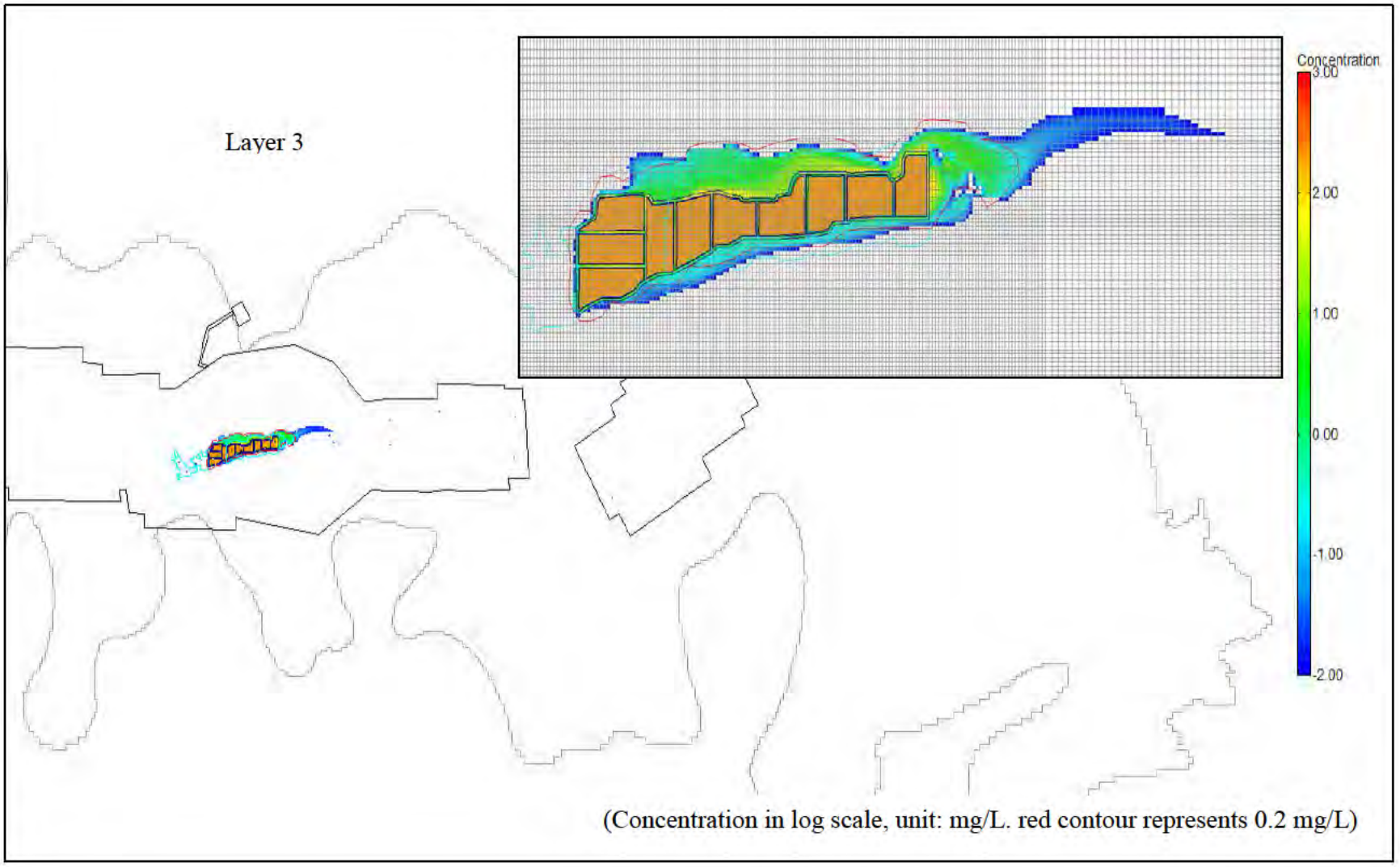

Figure 7.13c Simulated uranium transport plume in layer 3 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

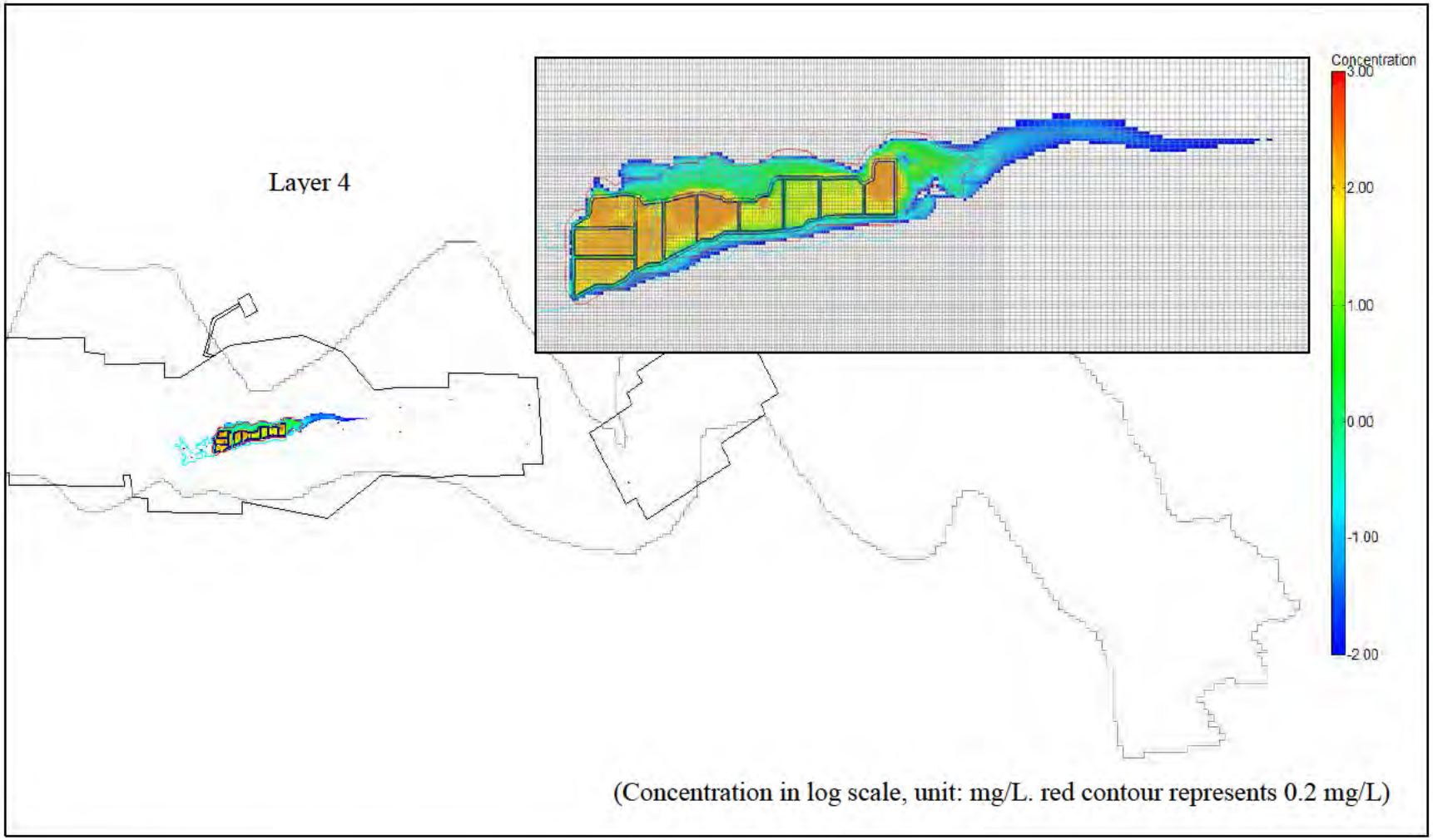

Figure 7.13d Simulated uranium transport plume in layer 4 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

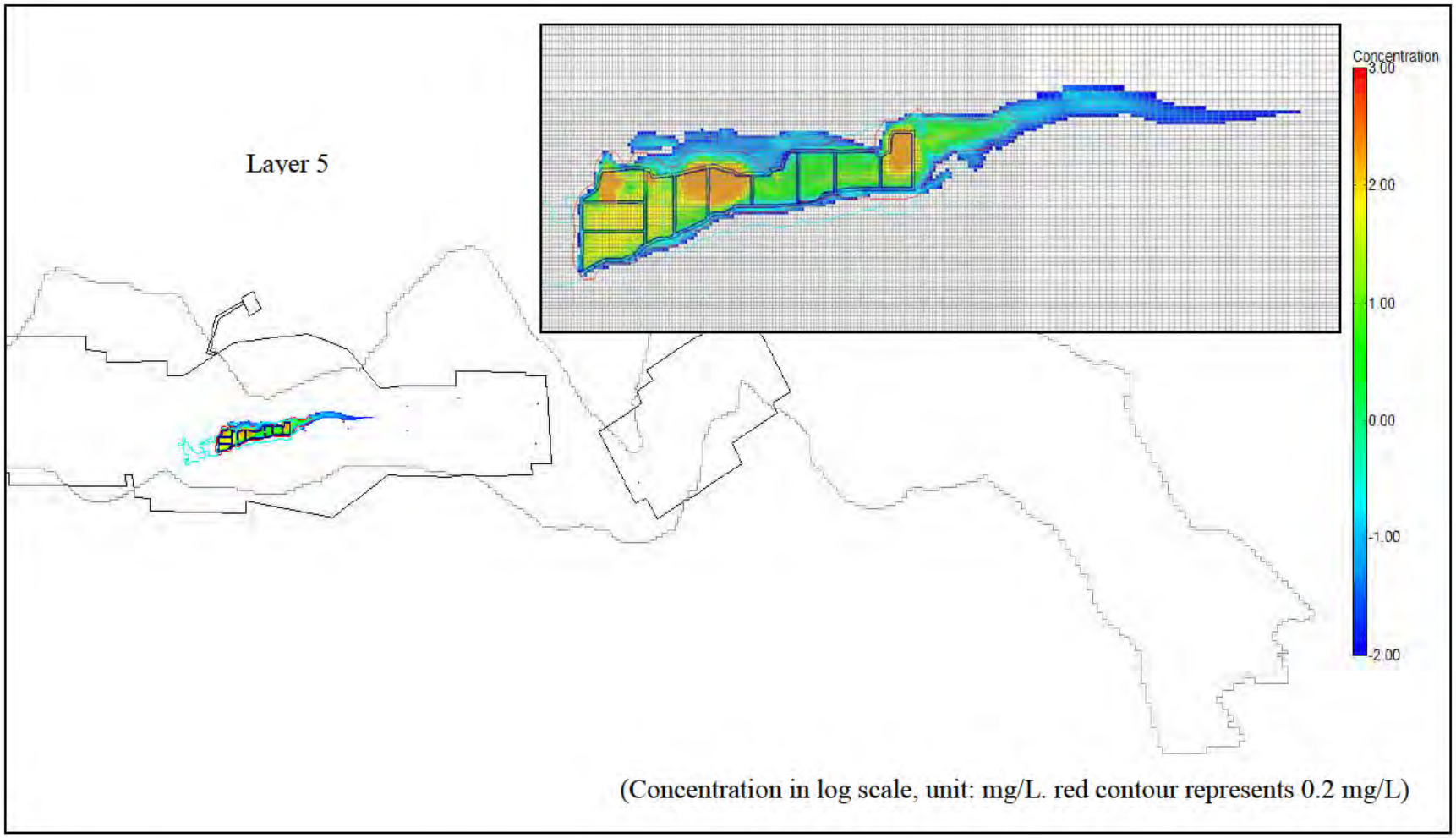

Figure 7.13e Simulated uranium transport plume in layer 5 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

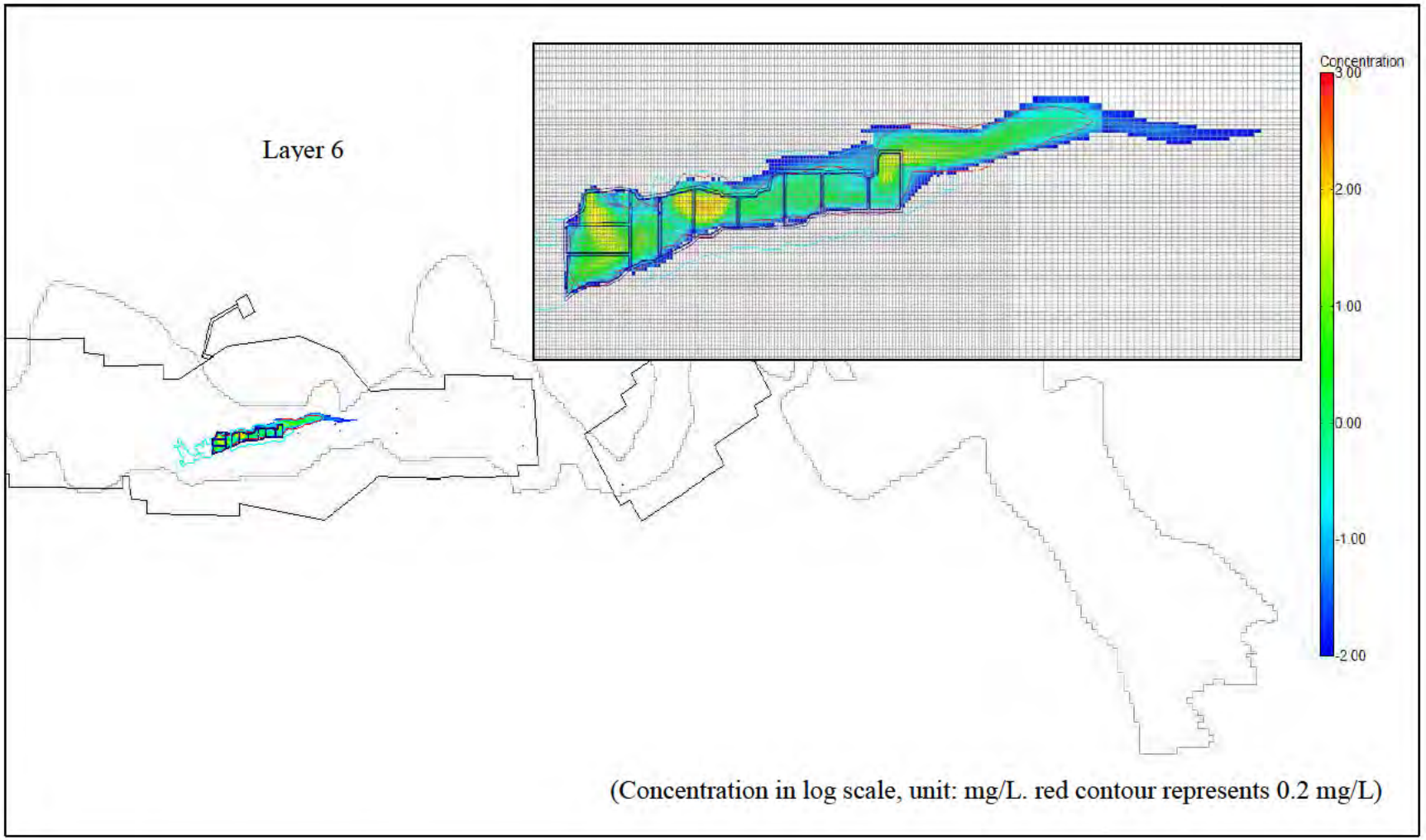

Figure 7.13f Simulated uranium transport plume in layer 6 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

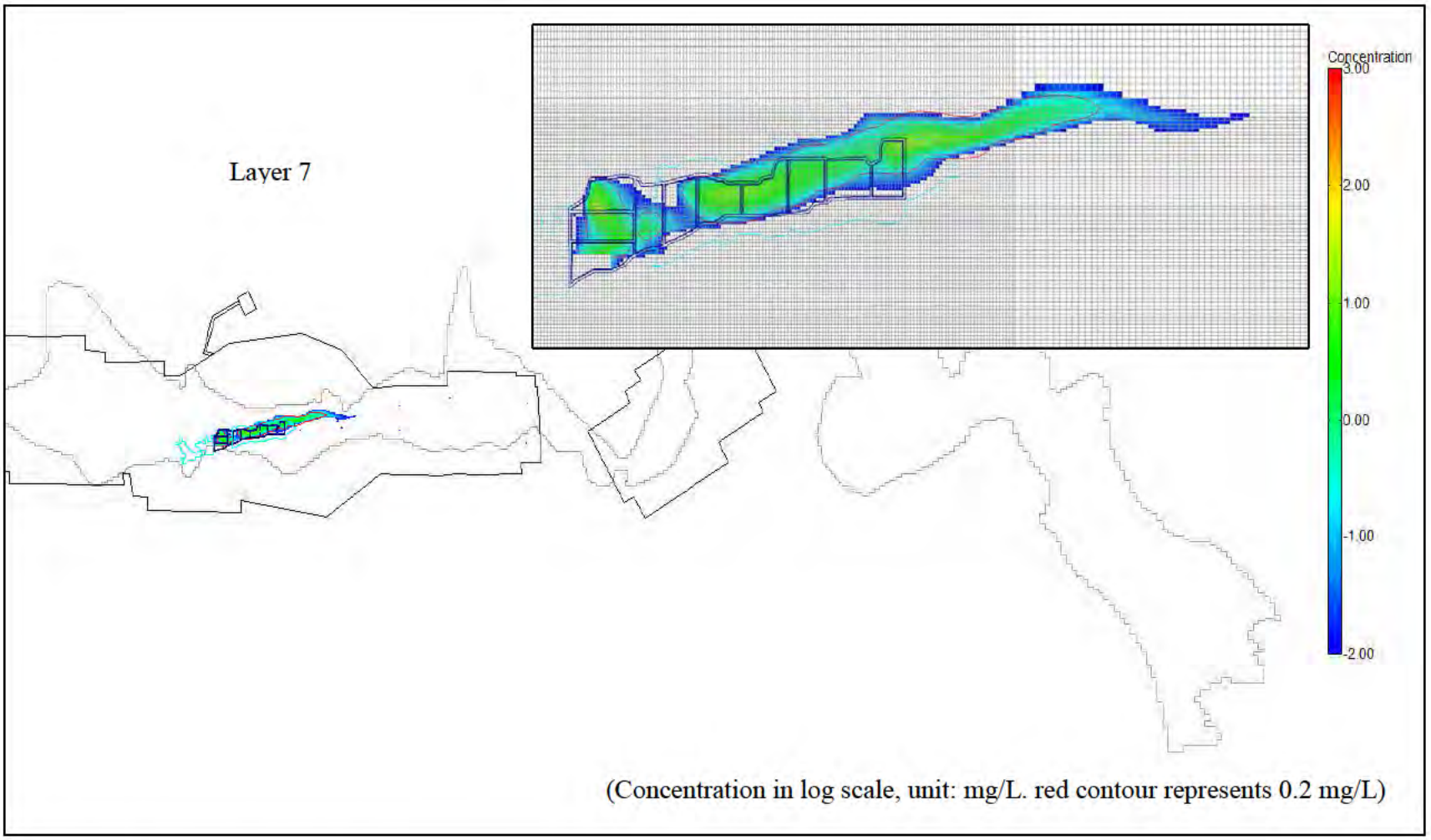

Figure 7.13g Simulated uranium transport plume in layer 7 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

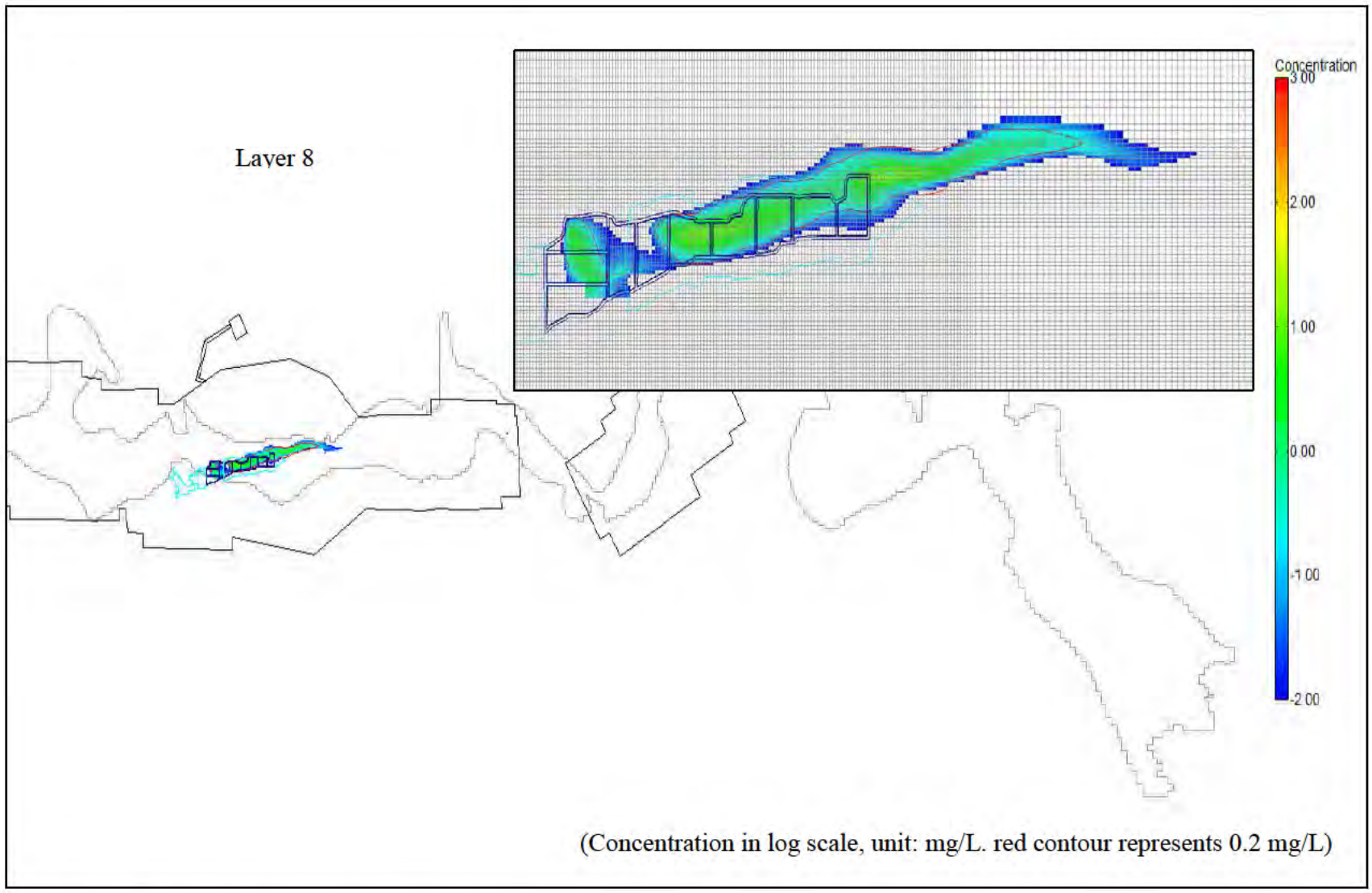

Figure 7.13h Simulated uranium transport plume in layer 8 at year 15,000, for infiltration rate through tailings cover of 2.5% of annual precipitation

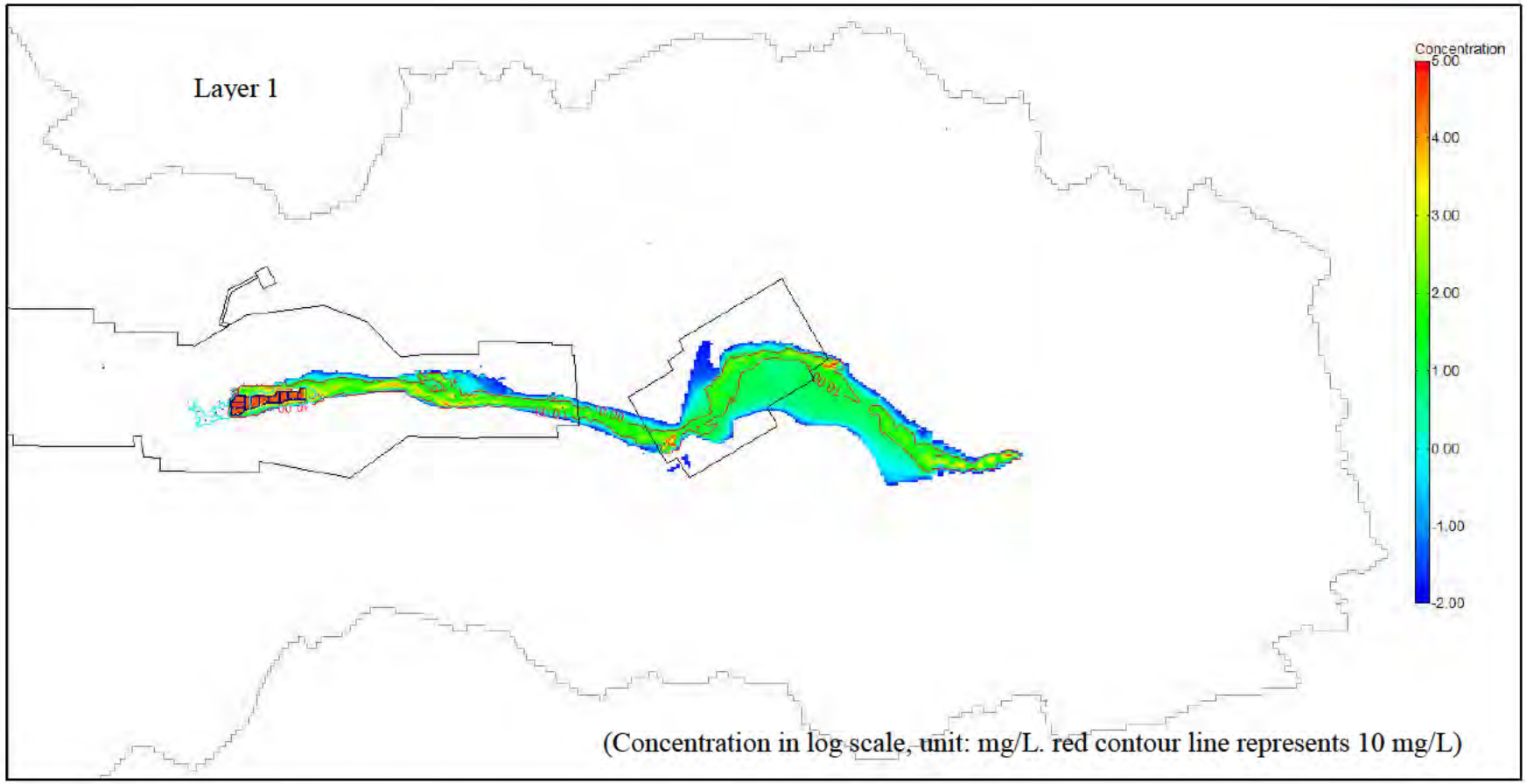

Figure 7.14a Simulated chloride transport plume in layer 1 at year 15,000, for 3.5 m ET extinction depth in covered pit area

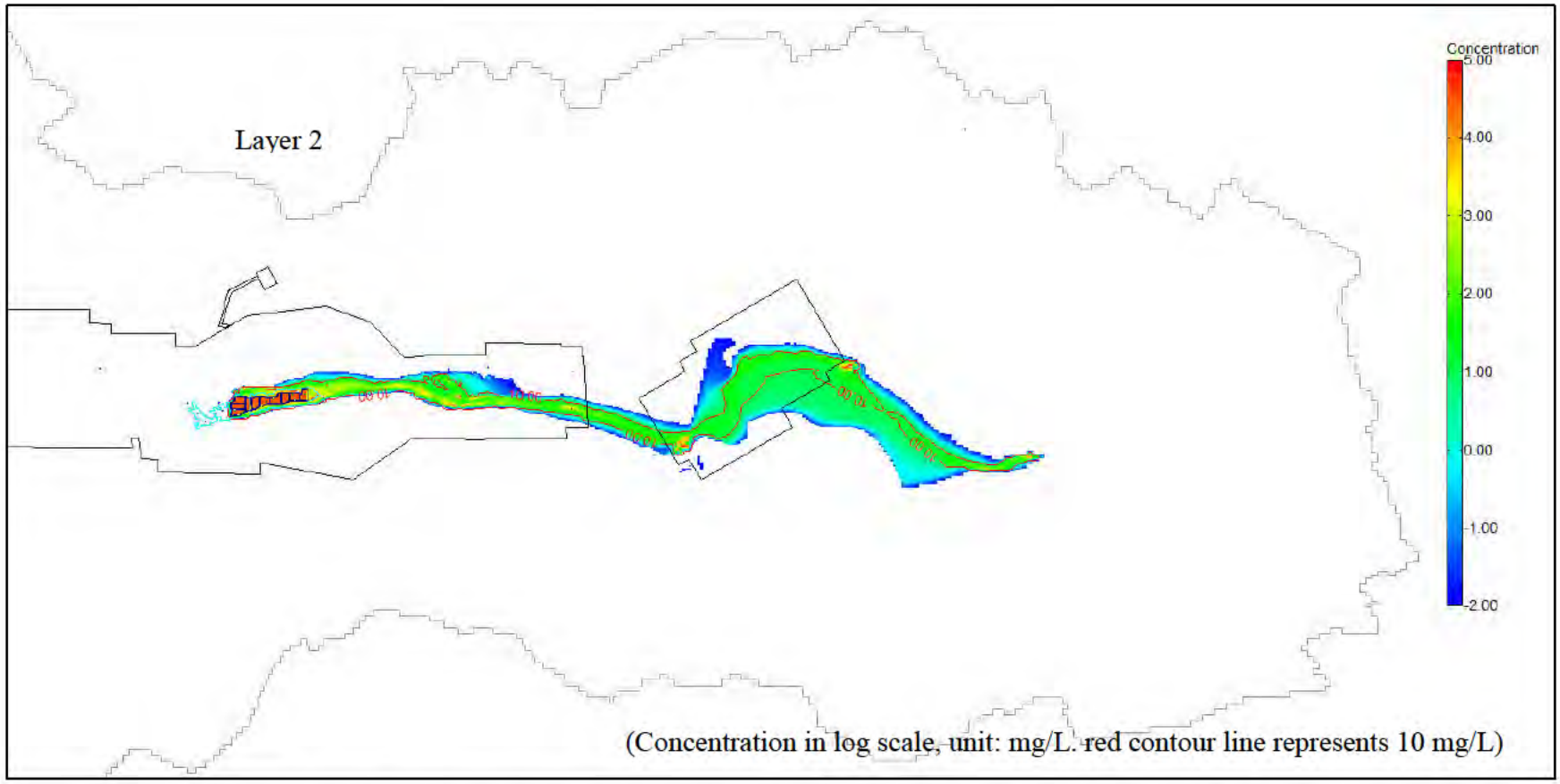

Figure 7.14b Simulated chloride transport plume in layer 2 at year 15,000, for 3.5 m ET extinction depth in covered pit area

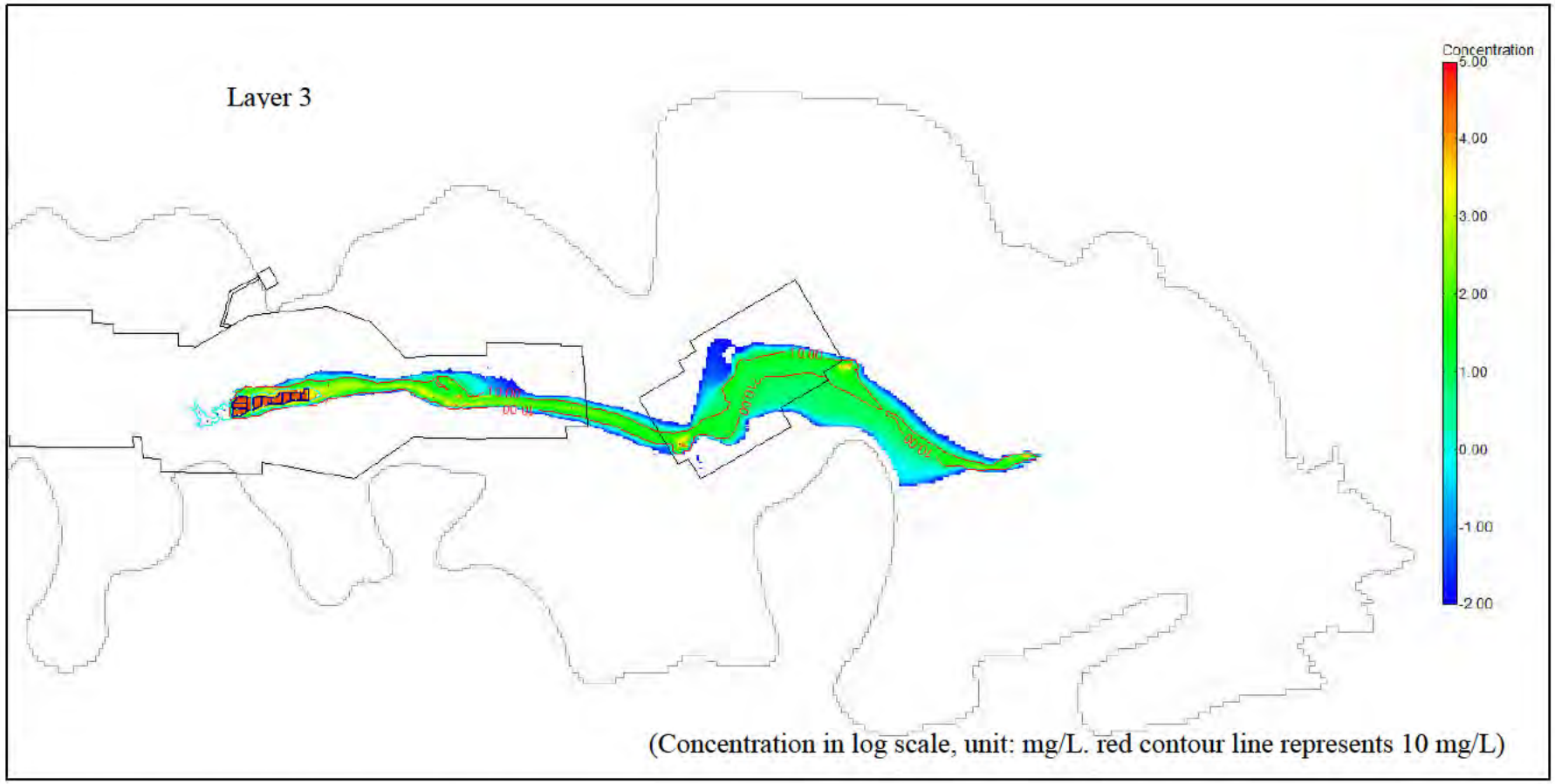

Figure 7.14c Simulated chloride transport plume in layer 3 at year 15,000, for 3.5 m ET extinction depth in covered pit area

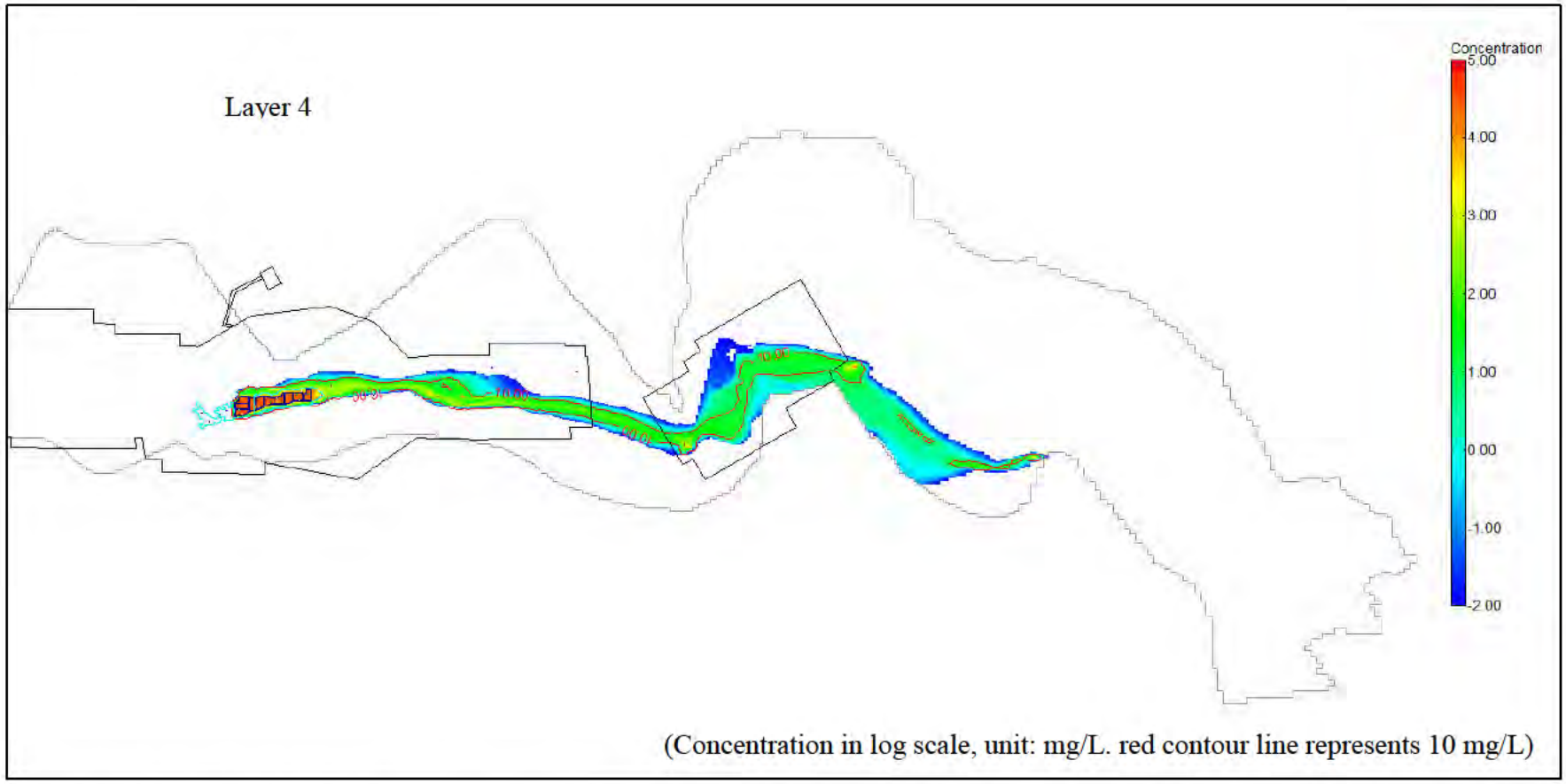

Figure 7.14d Simulated chloride transport plume in layer 4 at year 15,000, for 3.5 m ET extinction depth in covered pit area

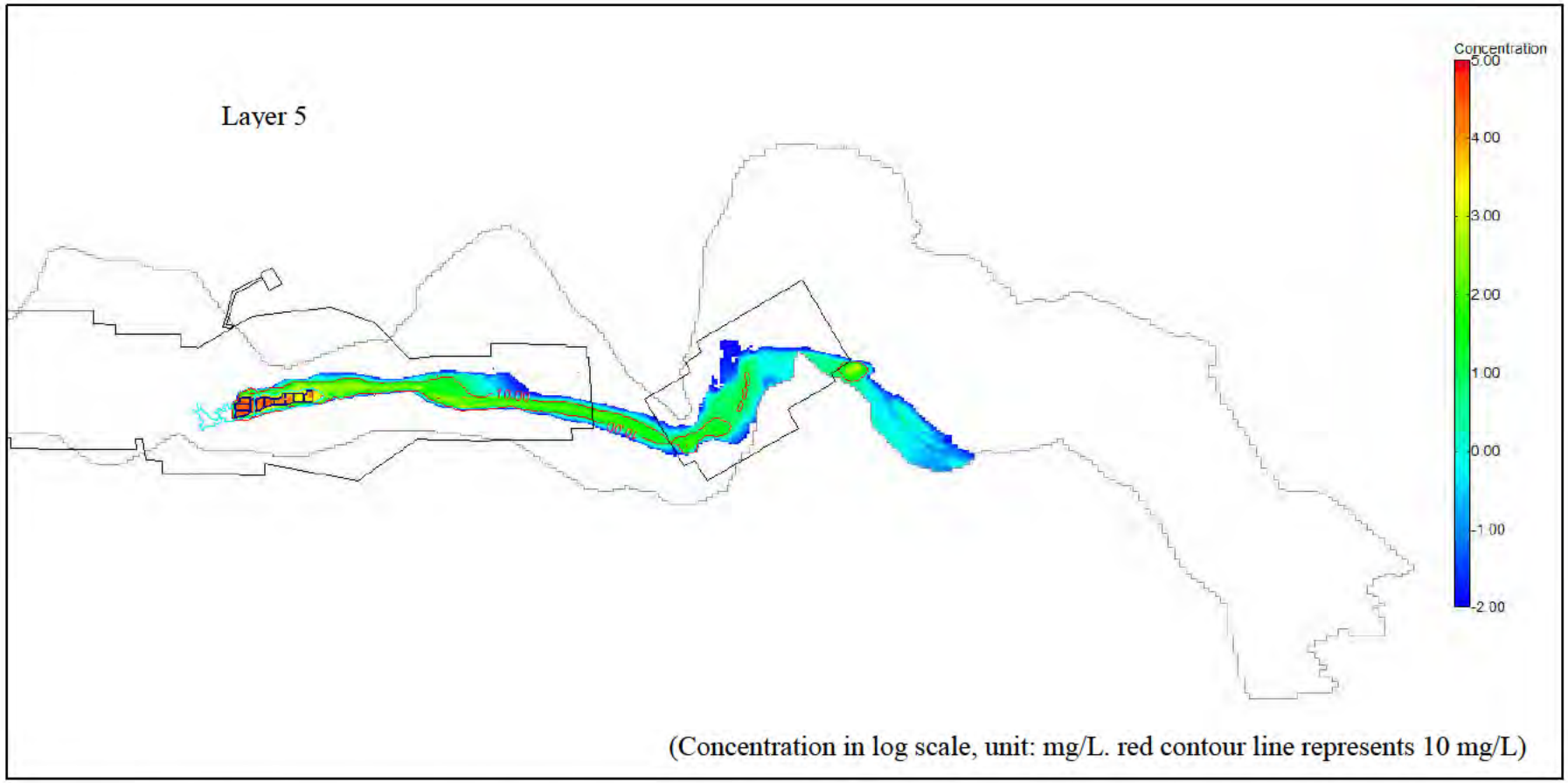

Figure 7.14e Simulated chloride transport plume in layer 5 at year 15,000, for 3.5 m ET extinction depth in covered pit area

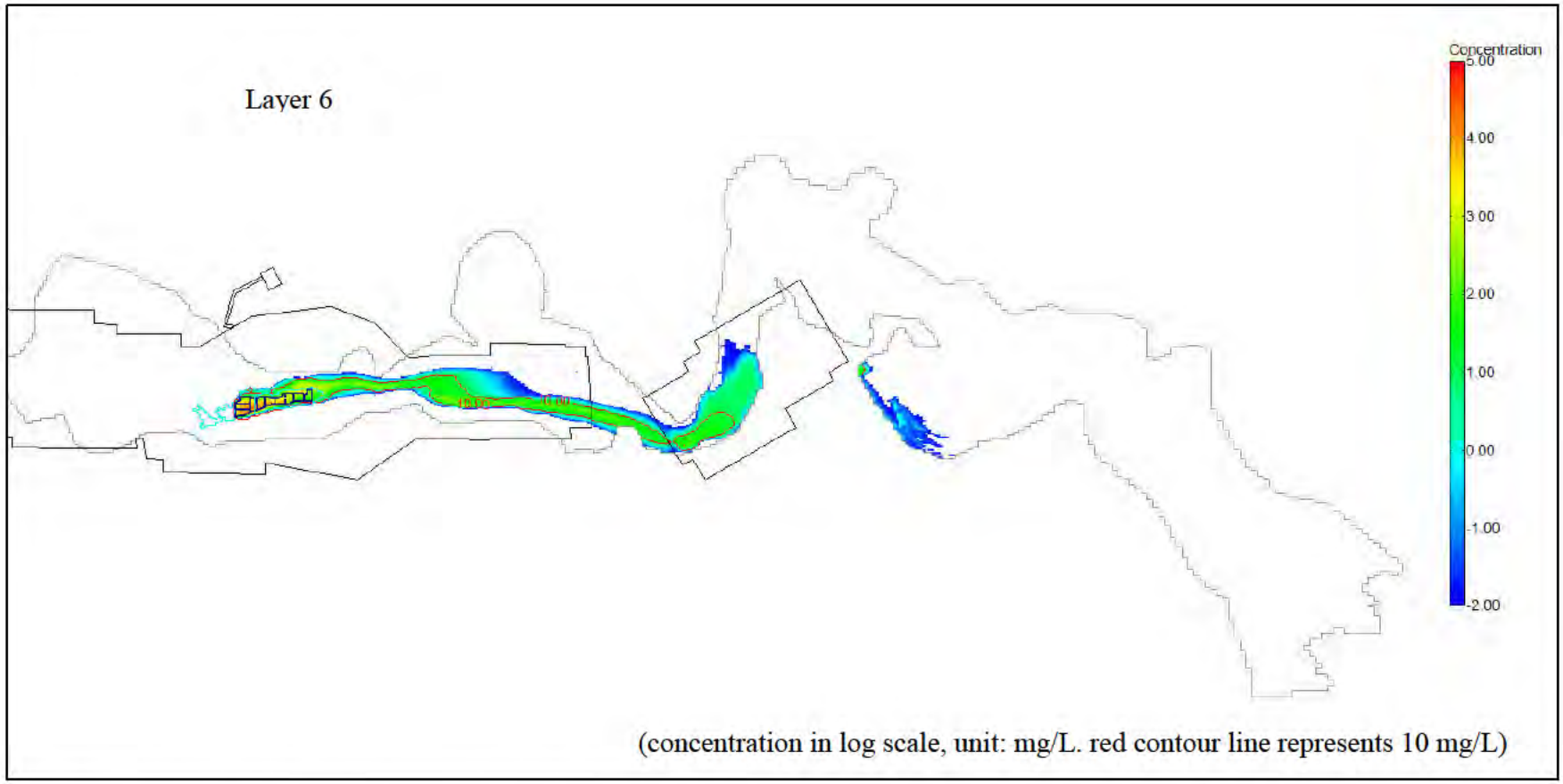

Figure 7.14f Simulated chloride transport plume in layer 6 at year 15,000, for 3.5 m ET extinction depth in covered pit area

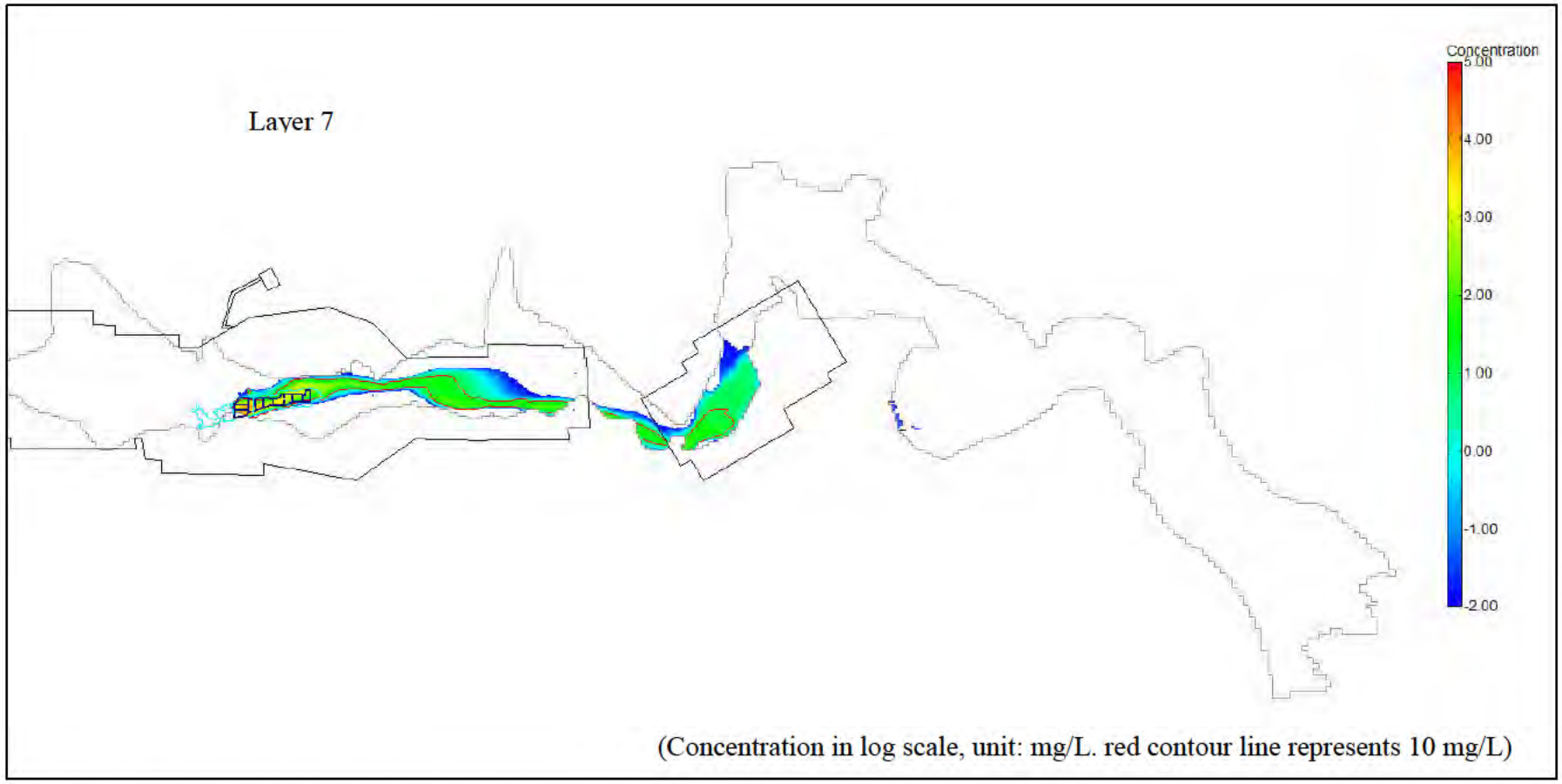

Figure 7.14g Simulated chloride transport plume in layer 7 at year 15,000, for 3.5 m ET extinction depth in covered pit area

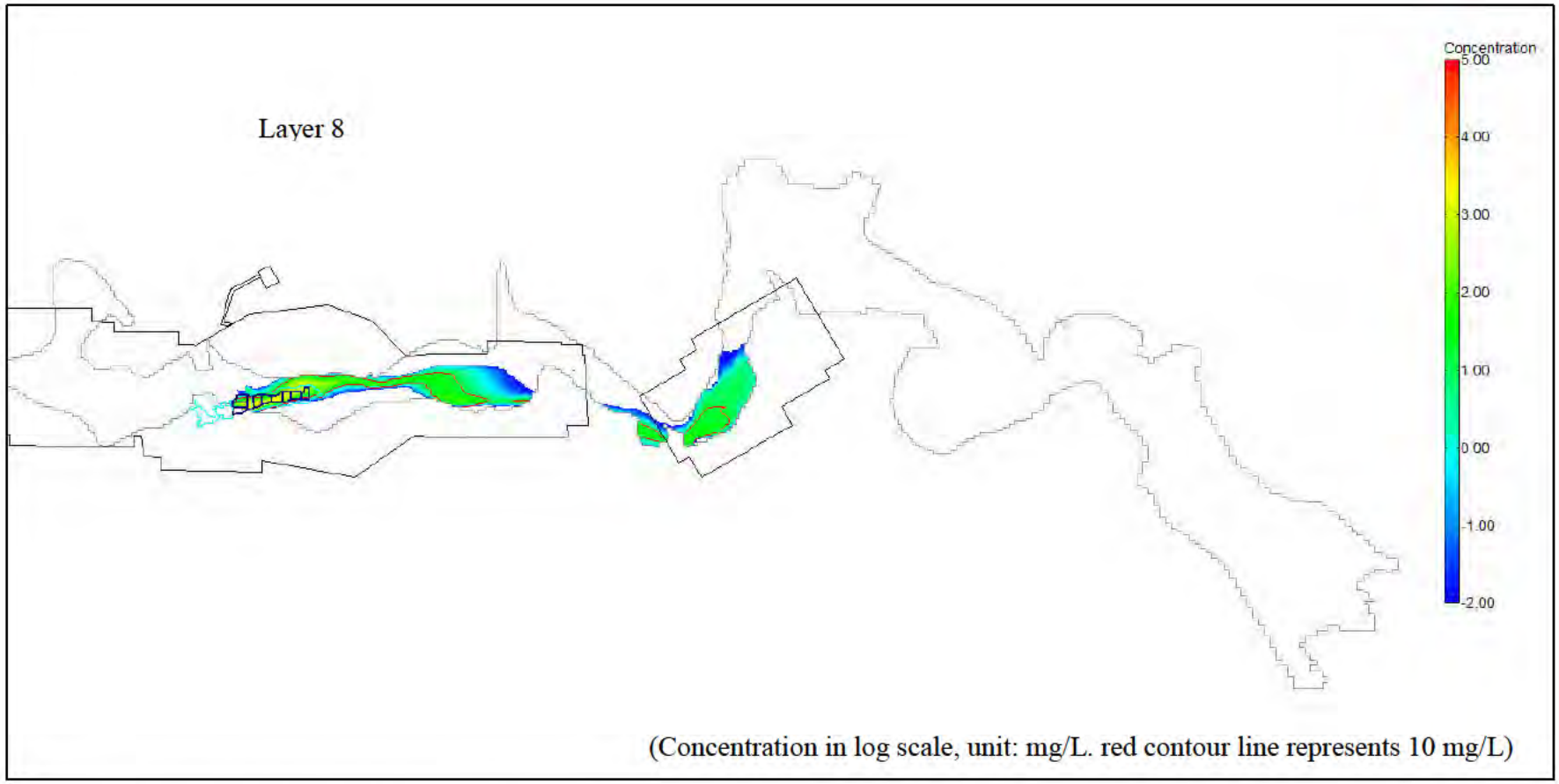

Figure 7.14h Simulated chloride transport plume in layer 8 at year 15,000, for 3.5 m ET extinction depth in covered pit area

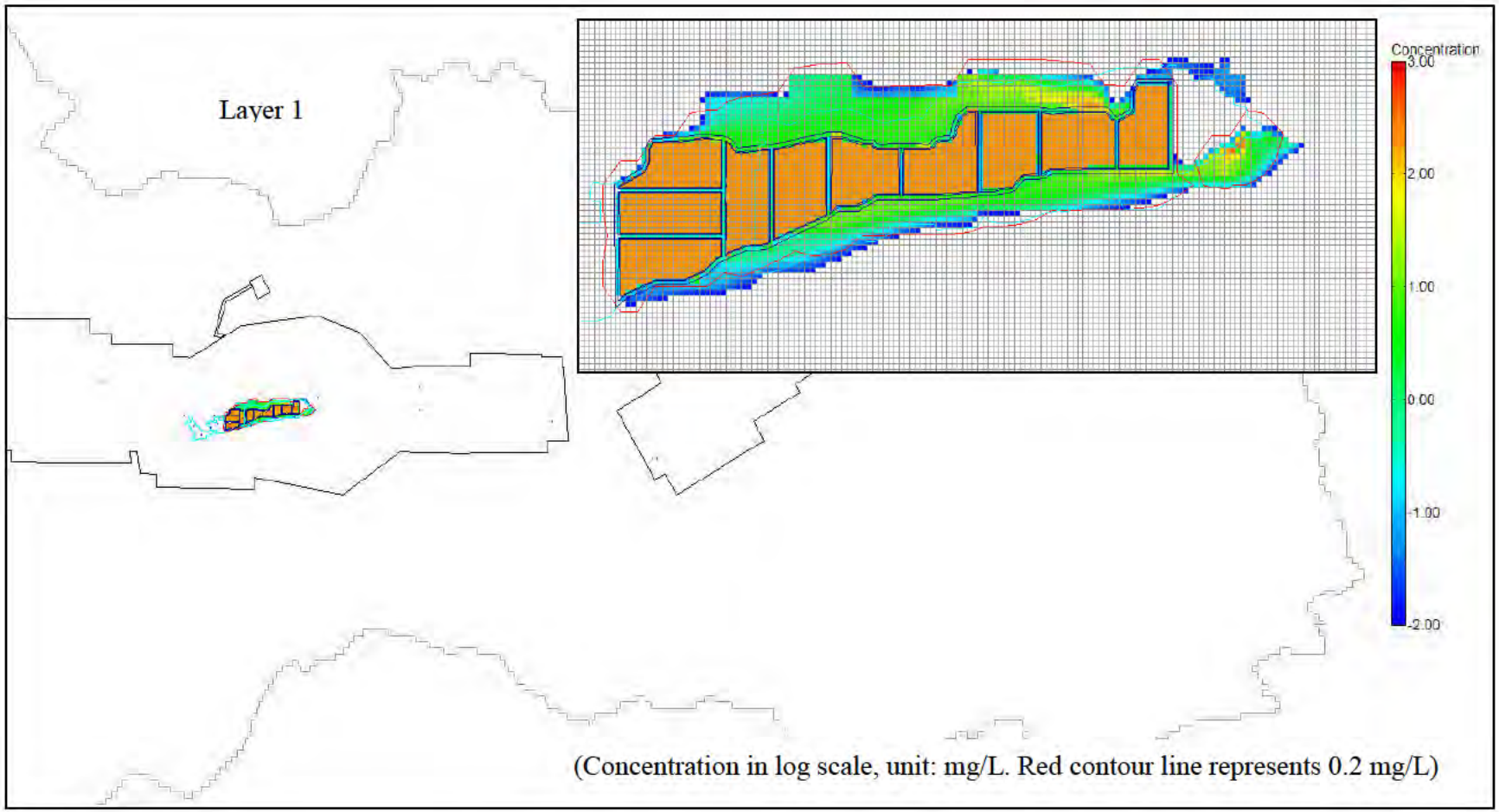

Figure 7.15a Simulated uranium transport plume in layer 1 at year 15,000, for 3.5 m ET extinction depth in covered pit area

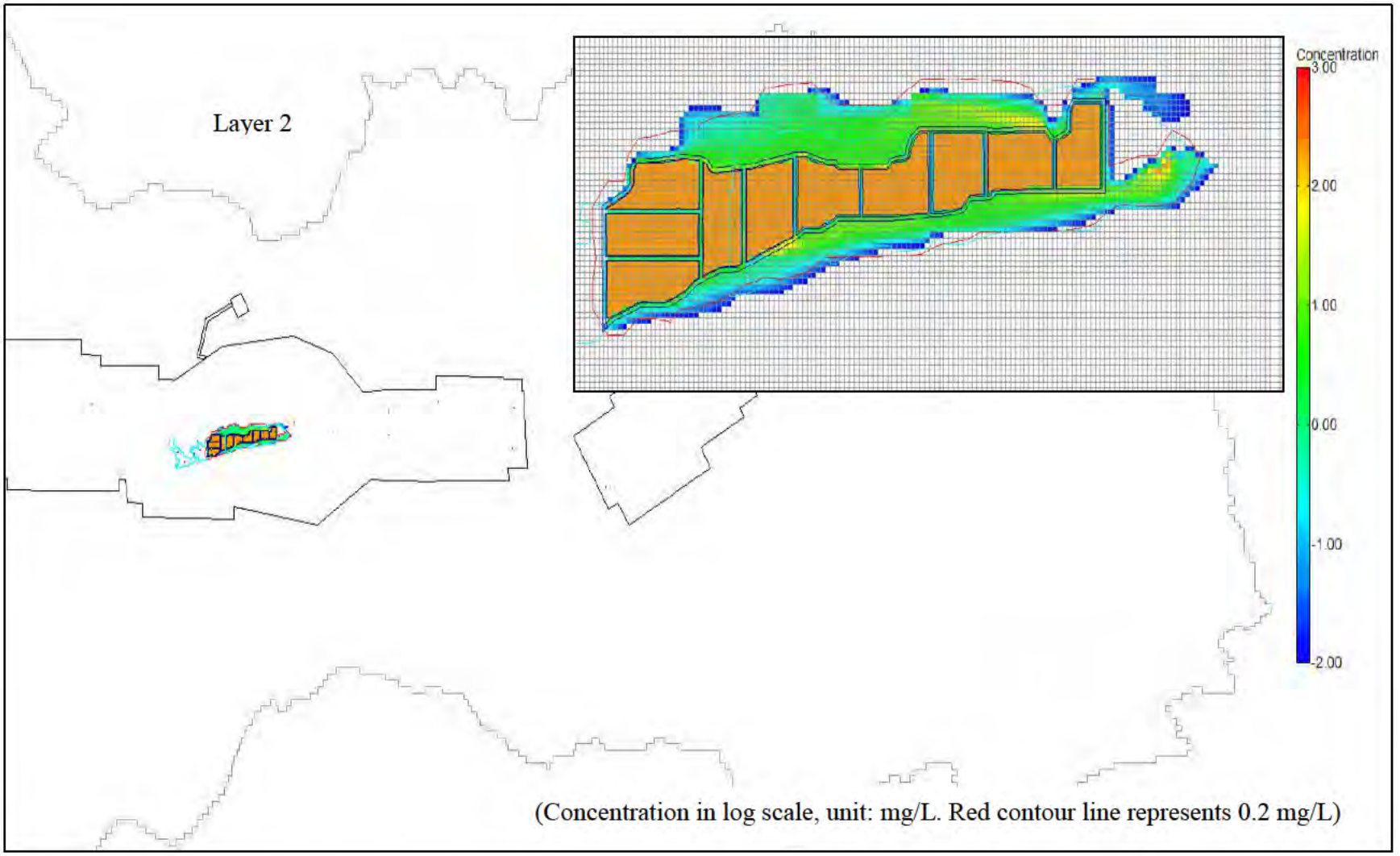

Figure 7.15b Simulated uranium transport plume in layer 2 at year 15,000, for 3.5 m ET extinction depth in covered pit area

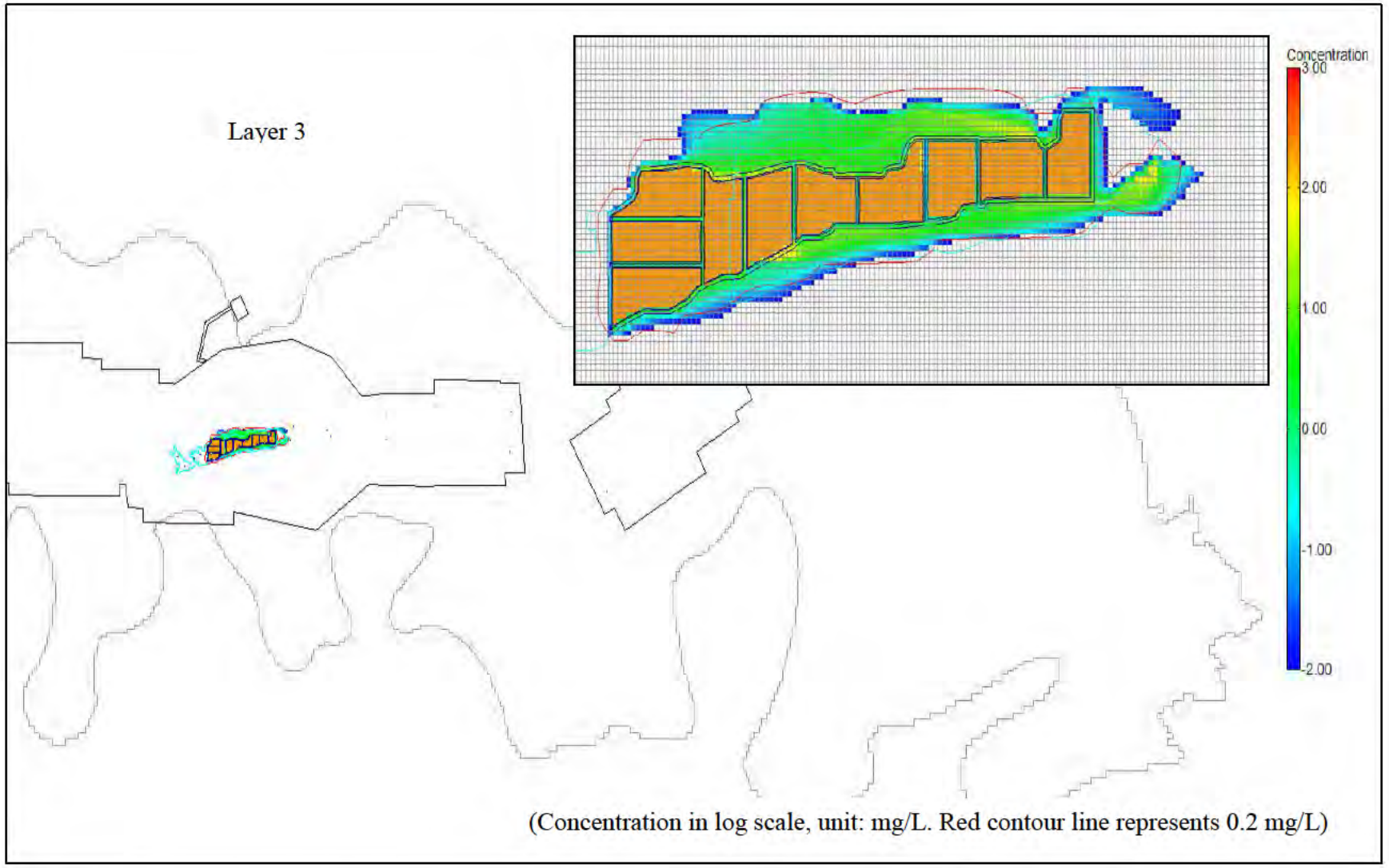

Figure 7.15c Simulated uranium transport plume in layer 3 at year 15,000, for 3.5 m ET extinction depth in covered pit area

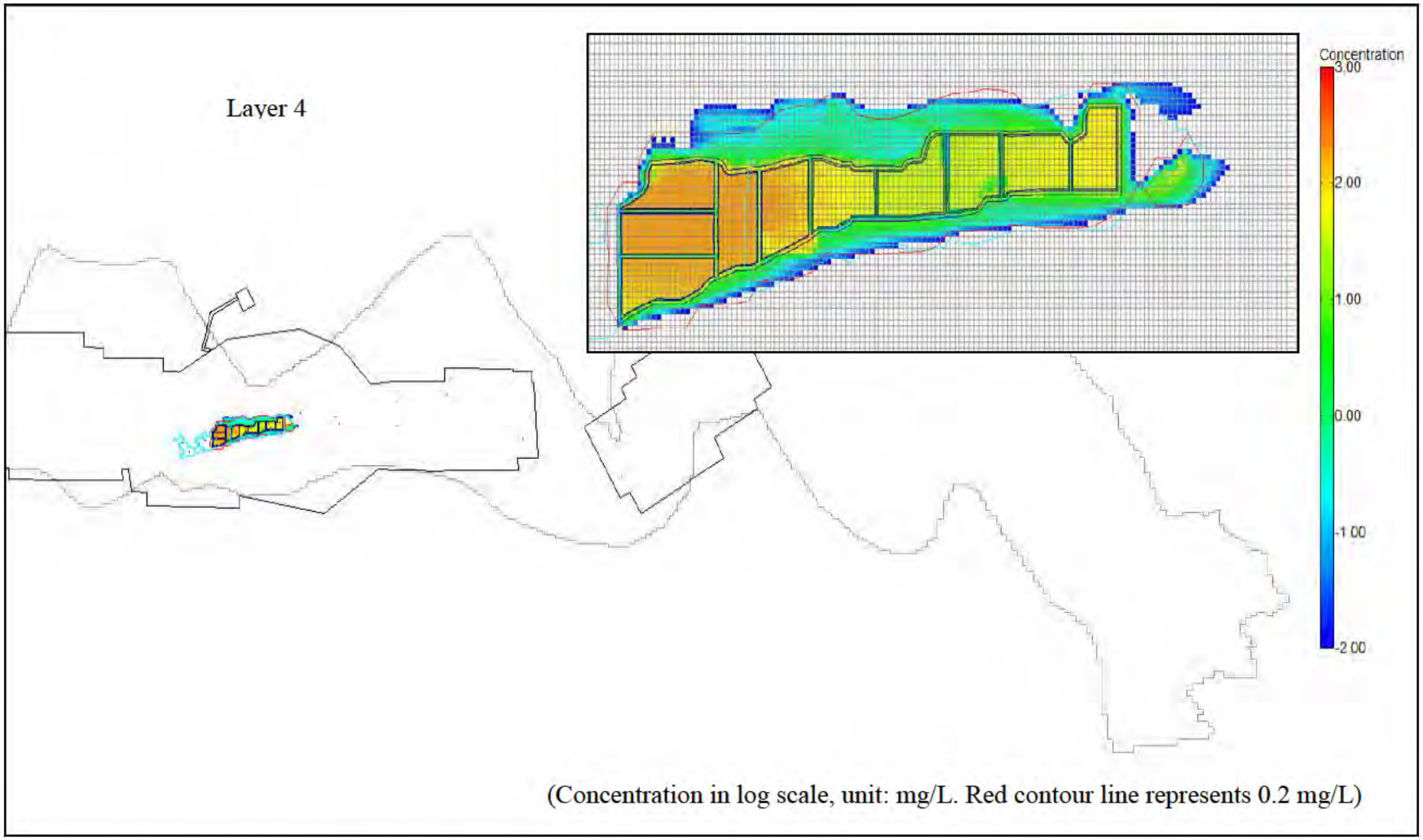

Figure 7.15d Simulated uranium transport plume in layer 4 at year 15,000, for 3.5 m ET extinction depth in covered pit area

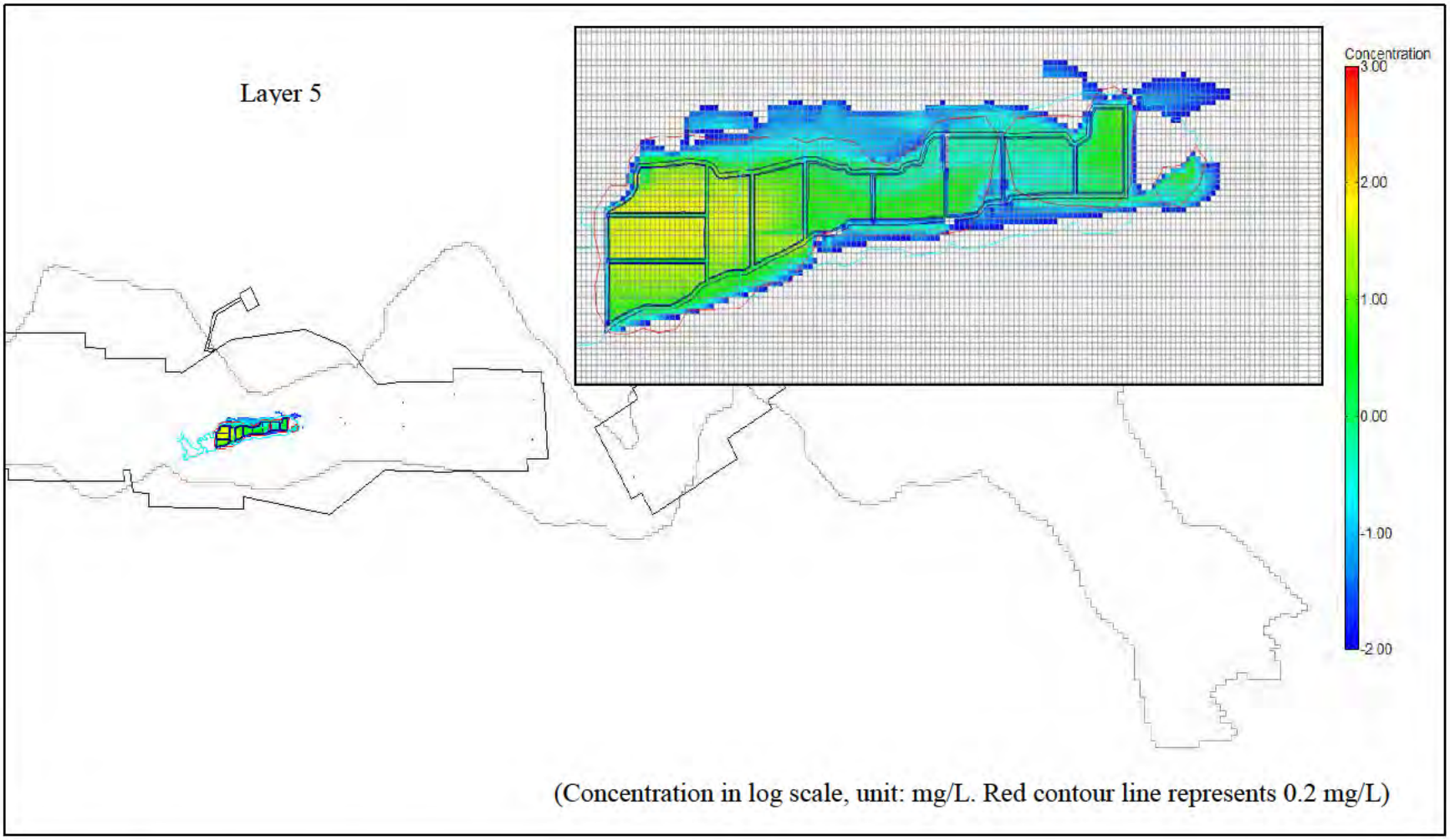

Figure 7.15e Simulated uranium transport plume in layer 5 at year 15,000, for 3.5 m ET extinction depth in covered pit area

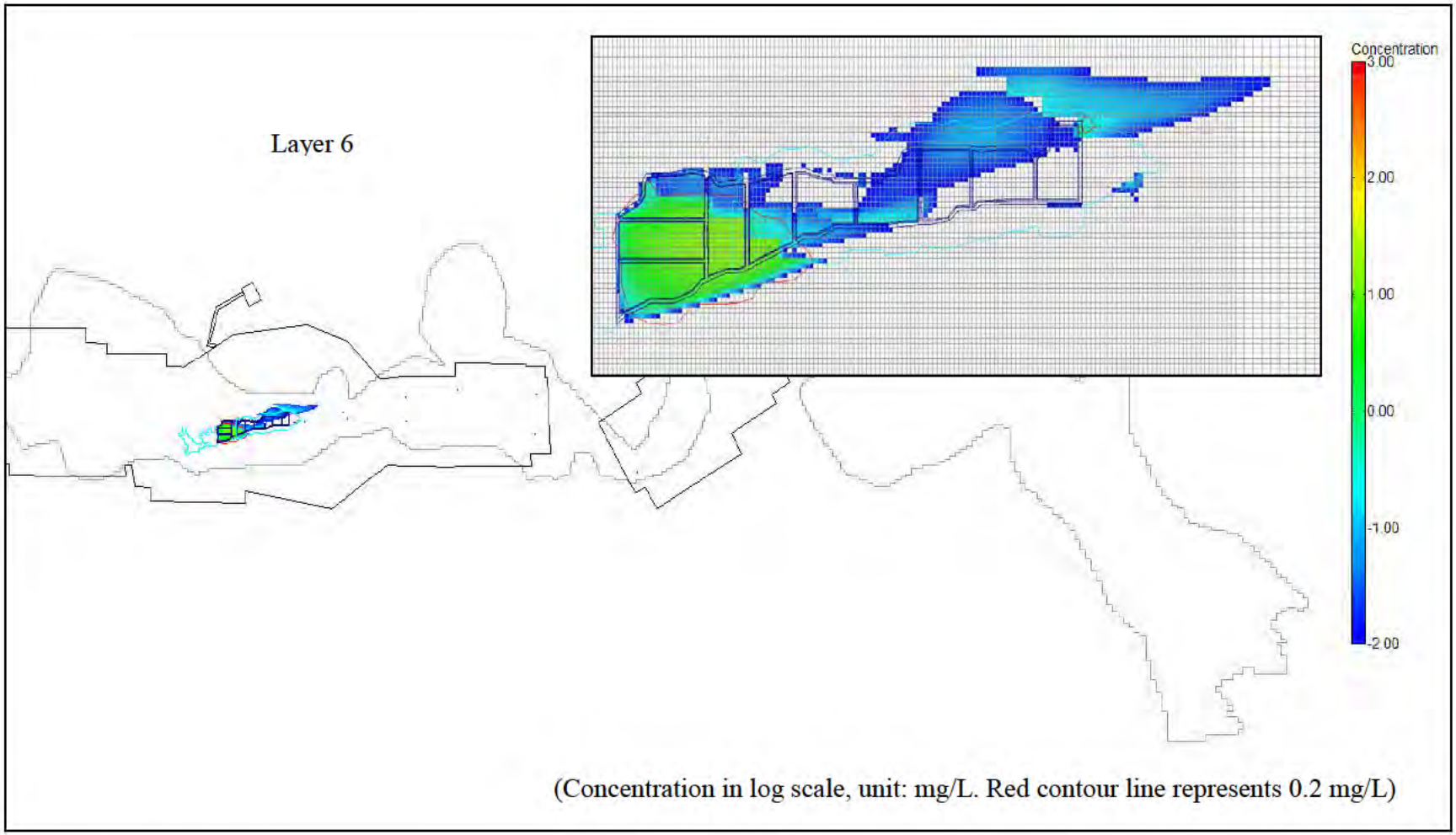

Figure 7.15f Simulated uranium transport plume in layer 6 at year 15,000, for 3.5 m ET extinction depth in covered pit area

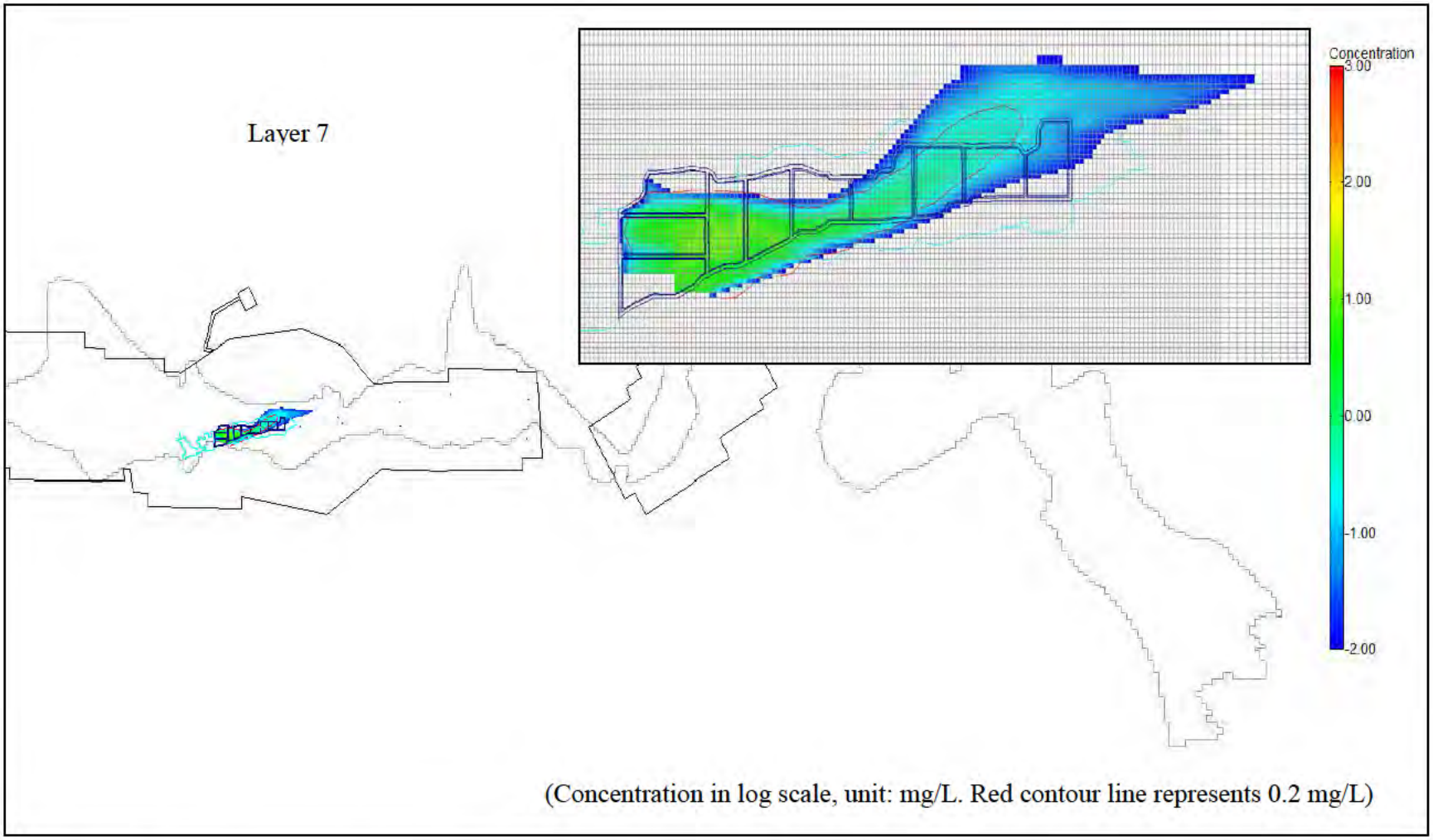

Figure 7.15g Simulated uranium transport plume in layer 7 at year 15,000, for 3.5 m ET extinction depth in covered pit area

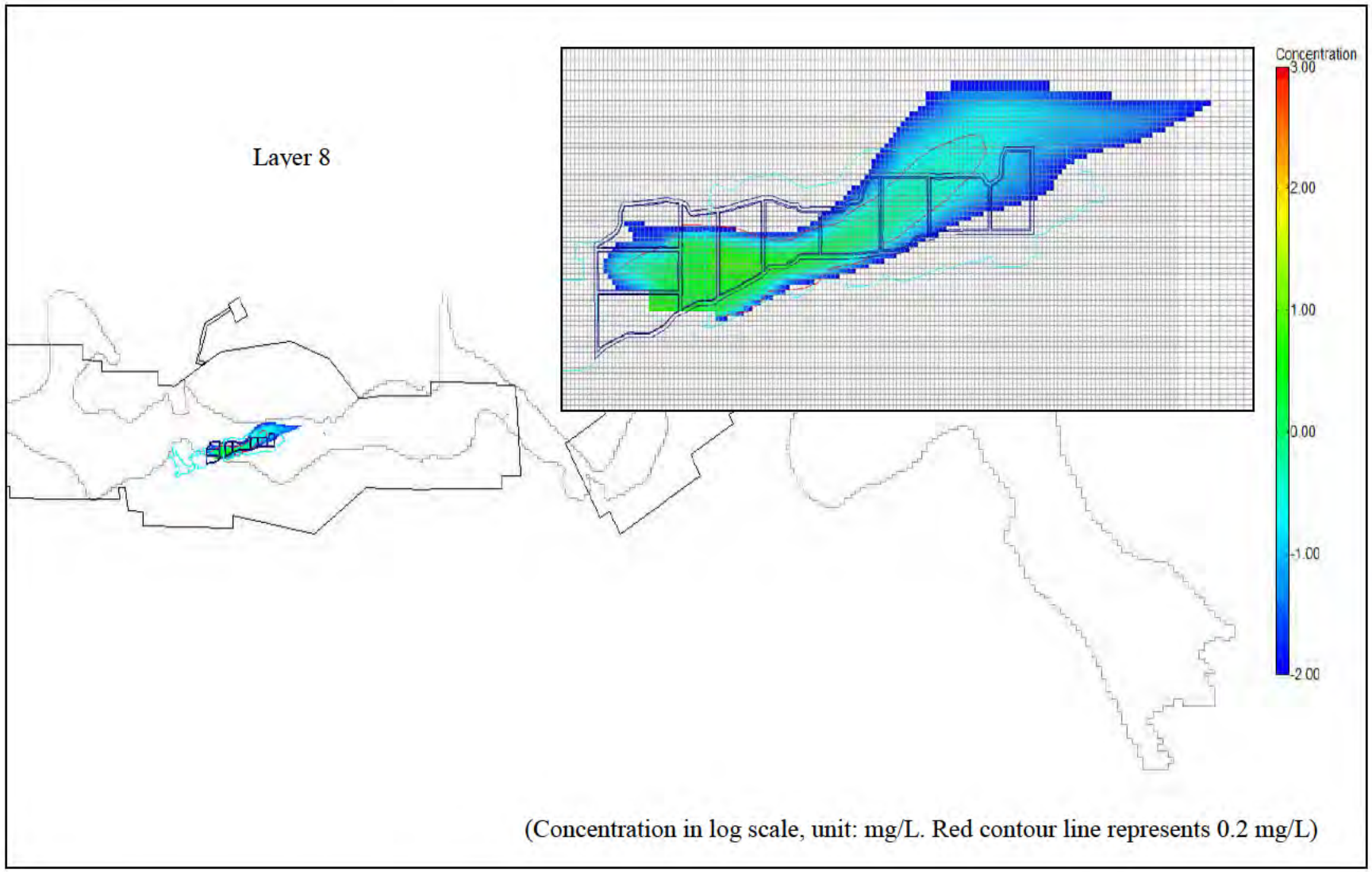

Figure 7.15h Simulated uranium transport plume in layer 8 at year 15,000, for 3.5 m ET extinction depth in covered pit area