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Quick Start

Manual

AMIGO

Units

☐ Metric (m) ☒ English (inches)

Climate

Arid Hot (NM/W.Texas, Hobbs) ▾

Input for a Distant Well

Distance to Well 4224 [ft]

Source Width 3.28 [ft]

Longitudinal Dispersivity 10 [-]

Transverse Dispersivity 1 [-]

Groundwater Characteristics

Background Cl Concentration in Aquifer cGW = 200 [mg/L]

Aquifer porosity n = 0.3 [-]

Groundwater Table Depth D = 20 [ft]

Aquifer Thickness H = 9.84 [ft]

Slope of Water Table i = 0.05 [-]

Hydraulic Conductivity Ks = 3.28 [ft/d]

Groundwater Flux Q = 1.61 [ft²/d]

Source Characteristics

Chloride Load: Max. length of the spill in direction of GW flow.

M = 1 [kg/m²] L = 308 [ft]

Plant Uptake Trigger

☒ 1% Input Concentration

☐ 10% Input Concentration

Soil Profiles

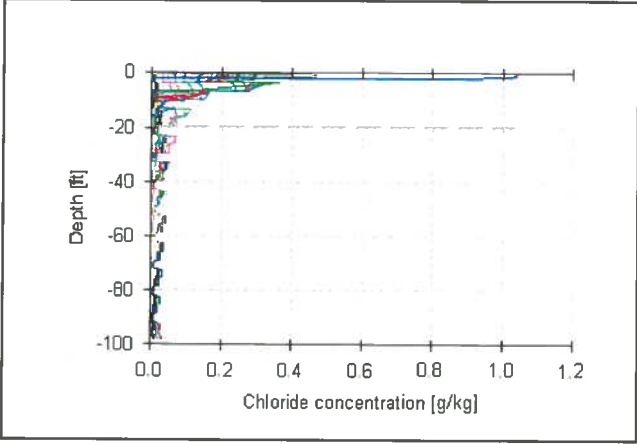
Surface Layer Caliche ▾

Soil Profile P7 - Sandy Clay (1) + Caliche (1) + Medium Sand (1) ▾

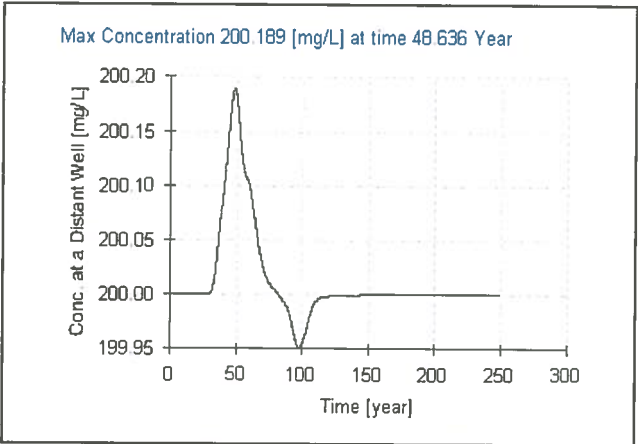
Output Charts

Quantity 1: Chloride concentration [g/kg] ▾

Quantity 2: Conc. at a Distant Well [mg/L] ▾



Depth [ft] vs Chloride concentration [g/kg]. The plot shows multiple colored lines representing different scenarios, all starting at 0 g/kg at the surface and increasing with depth. The x-axis ranges from 0.0 to 1.2 g/kg, and the y-axis ranges from 0 to -100 ft.



Conc. at a Distant Well [mg/L] vs Time [year]. The plot shows a sharp peak in concentration reaching approximately 200.189 mg/L at 48,636 years, followed by a sharp drop and then a steady increase. The x-axis ranges from 0 to 300 years, and the y-axis ranges from 199.95 to 200.20 mg/L.

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