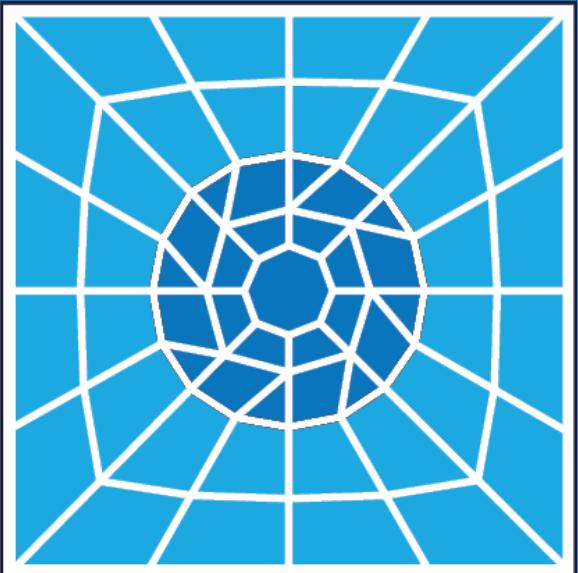




FLAC2D™ VERSION 9.0
**Continuum Modeling for
Geomechanics in 2D**

2D Homogeneous Embankment Dam Analysis

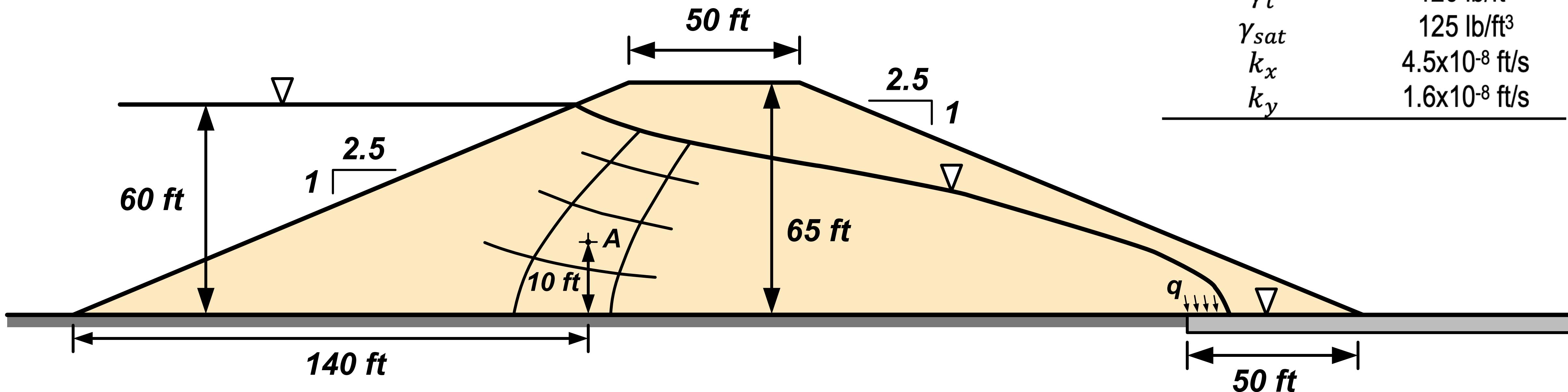
— Part 2 —

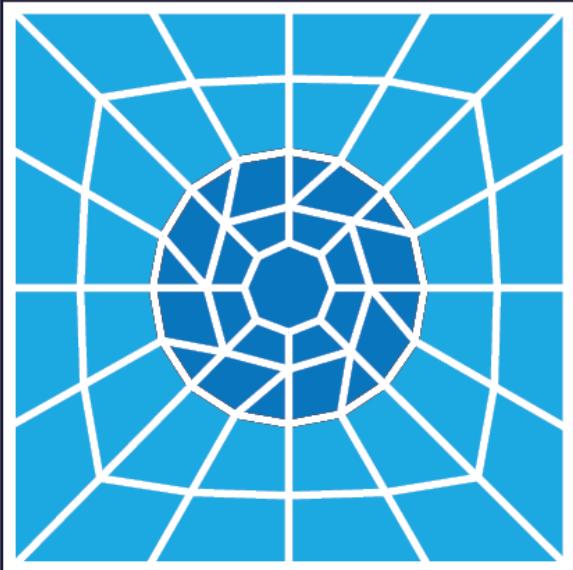


FLAC2D™ VERSION 9.0

Continuum Modeling for Geomechanics in 2D

Homogeneous Embankment Dam



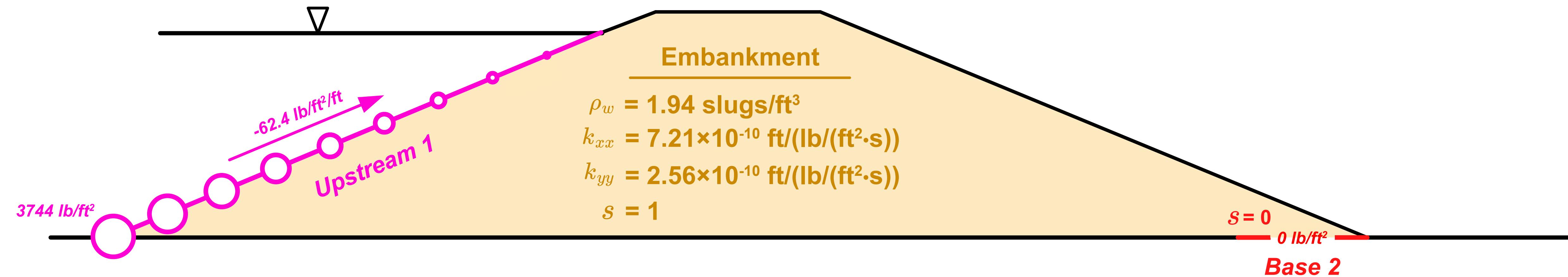


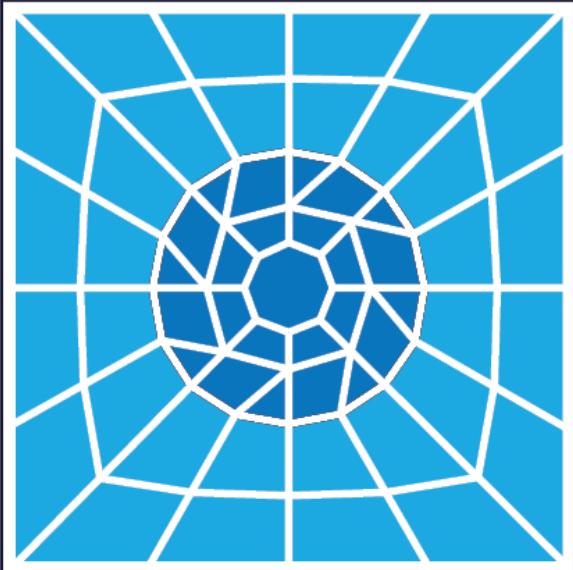
FLAC2D™ VERSION 9.0

Continuum Modeling for Geomechanics in 2D

Model and Zone Commands | 2_SeepageAnalysis.dat

```
model restore '1_StaticAnalysis.sav'  
zone fluid cmodel anisotropic range group 'Embankment'  
zone fluid property permeability-xx 7.21E-10 permeability-yy 2.56E-10 range group 'Embankment'  
zone water density 1.94 range group 'Embankment'  
...
```



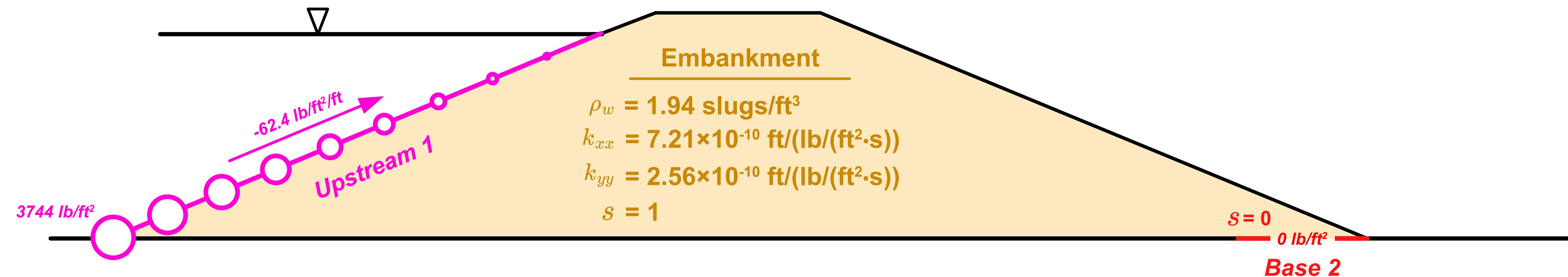


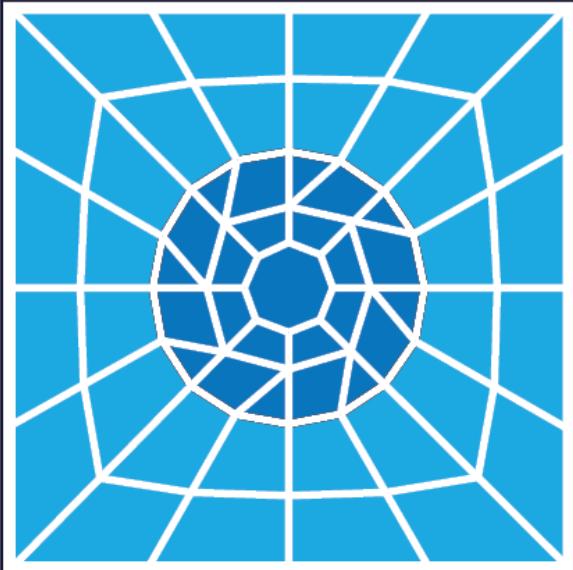
FLAC2D™ VERSION 9.0

Continuum Modeling for Geomechanics in 2D

Model and Zone Commands | 2_SeepageAnalysis.dat

```
...
zone face apply pore-pressure 0.0 range group 'Base 2'
zone face apply pore-pressure 3744 gradient (0,-62.4) range group 'Upstream 1'
zone gridpoint initialize saturation 1.0 range group 'Embankment'
zone gridpoint initialize saturation 0.0 range group 'Base 2'
...
```



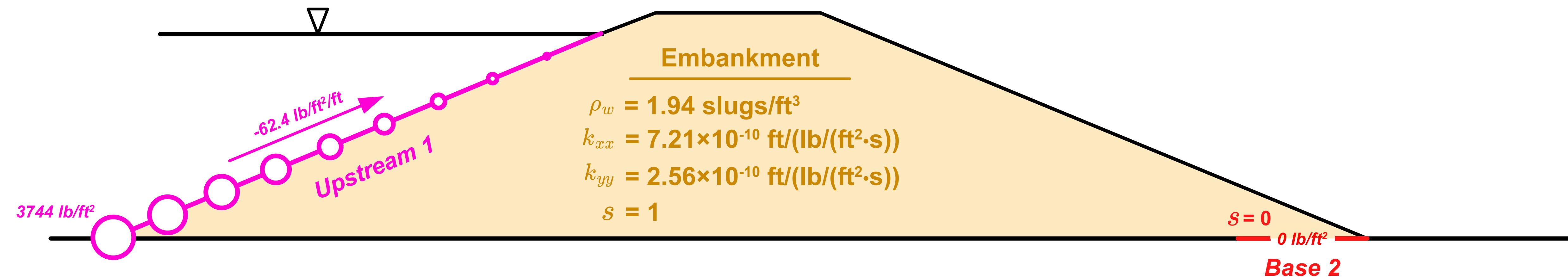


FLAC2D™ VERSION 9.0

Continuum Modeling for Geomechanics in 2D

Model and Zone Commands | 2_SeepageAnalysis.dat

```
...
zone gridpoint initialize fluid-modulus 100 range group 'Embankment'
zone gridpoint initialize fluid-tension 0.0 range group 'Embankment'
...
```



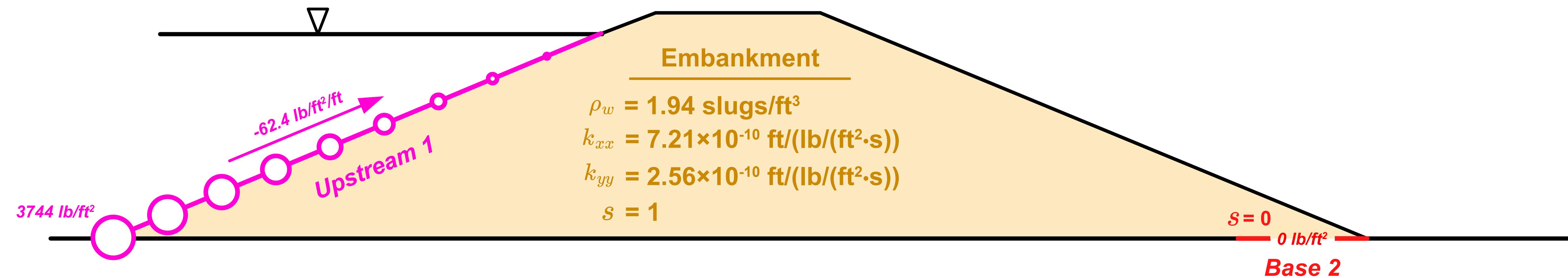


FLAC2D™ VERSION 9.0

Continuum Modeling for Geomechanics in 2D

Model and Zone Commands | 2_SeepageAnalysis.dat

```
...
model mech active off
model fluid active on
model solve ratio-flow 1.0e-3
model save '2_SeepageAnalysis.sav'
```





FLAC2D™ VERSION 9.0

Continuum Modeling for Geomechanics in 2D

Model and Zone Commands | 3_FlowCalculations.dat

```
model restore '2_SeepageAnalysis.sav'

fish define findflow
    local gps = gp.list(gp.isgroup(:,:,gp.list, 'Base 2'))
    global flow_value = list.sum(gp.flow(:,:,gps))
end
[findflow]
model save '3_FlowCalculation.sav'
```

