OTGE00019055B
Slope Stability Analysis
New Sewage Lagoon & Rehabilitation of Existing Lagoon
Clyde River
Nunavut
Inner Slope @ 3.5H to 1V
Sloping ground surface
Completely Submerged Analysis
Crest width = 4.0 m

Soil: 1
Water
Unit Weight: 9.807

Soil: 2
Fill: Silty sand
Unit Weight: 18
Cohesion: 0
Phi: 30

Soil: 3
Silty sand
Unit Weight: 18
Cohesion: 0
Phi: 30

Soil: 4
Ice
Unit Weight: 9
Cohesion: 100

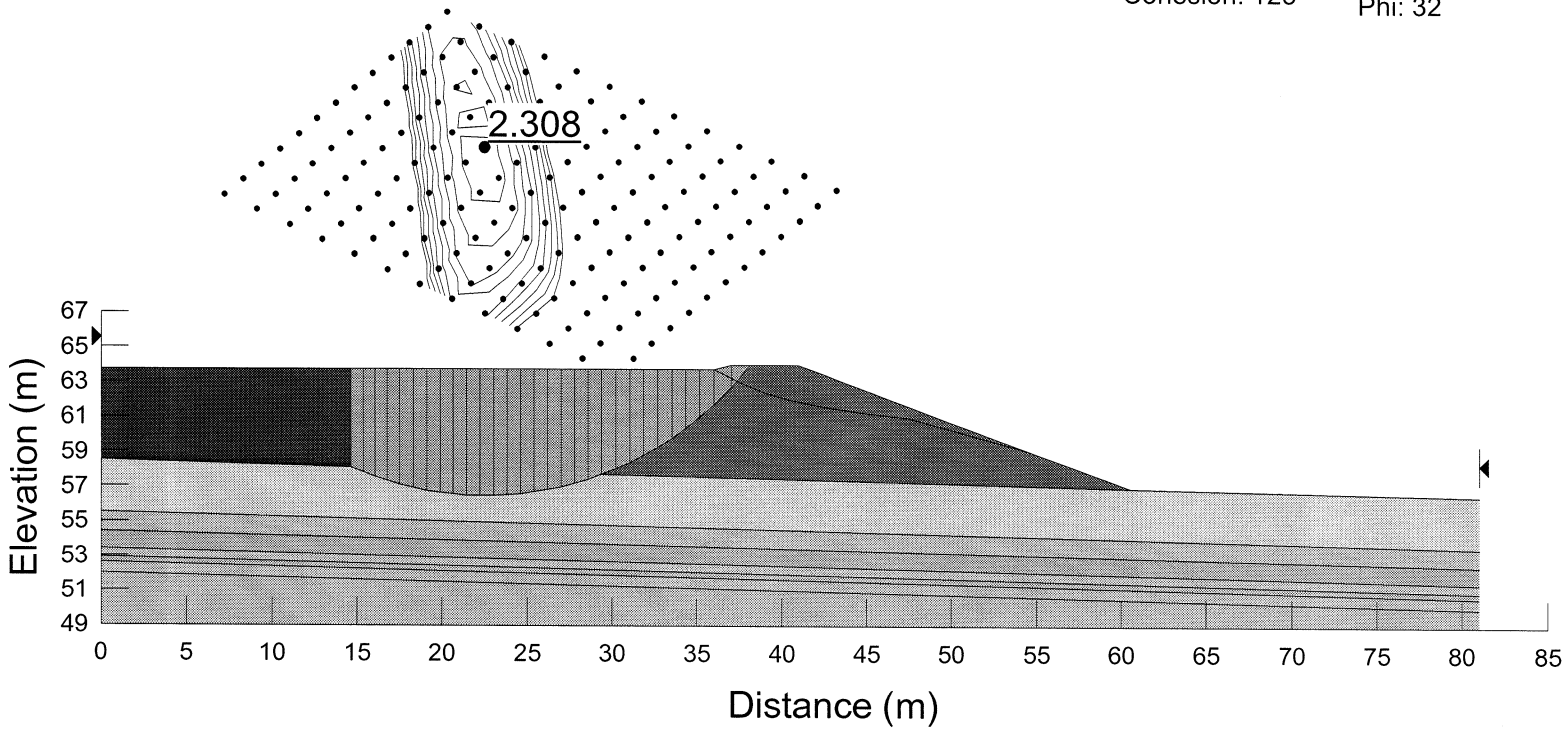
Soil: 5
Sandy silt
Unit Weight: 17
Cohesion: 0
Phi: 27

Soil: 6
Ice
Unit Weight: 9
Cohesion: 125

Soil: 7
Sandy silt
Unit Weight: 16
Cohesion: 0
Phi: 29

Soil: 8
Ice
Unit Weight: 9
Cohesion: 125

Soil: 9
Silty sand till
Unit Weight: 20
Cohesion: 0
Phi: 32



File Name: 4mSlopinggroundinnerslope351.slp

OTGE00019055B
Slope Stability Analysis
New Sewage Lagoon & Rehabilitation of Existing Lagoon
Clyde River
Nunavut
Inner Slope @ 3.5H to 1V
Sloping ground surface
Completely Submerged Analysis
Crest width = 4.0 m
Seismic = 0.15g

Soil: 1
Water
Unit Weight: 9.807

Soil: 2
Fill: Silty sand
Unit Weight: 18
Cohesion: 0
Phi: 30

Soil: 3
Silty sand
Unit Weight: 18
Cohesion: 0
Phi: 30

Soil: 4
Ice
Unit Weight: 9
Cohesion: 100

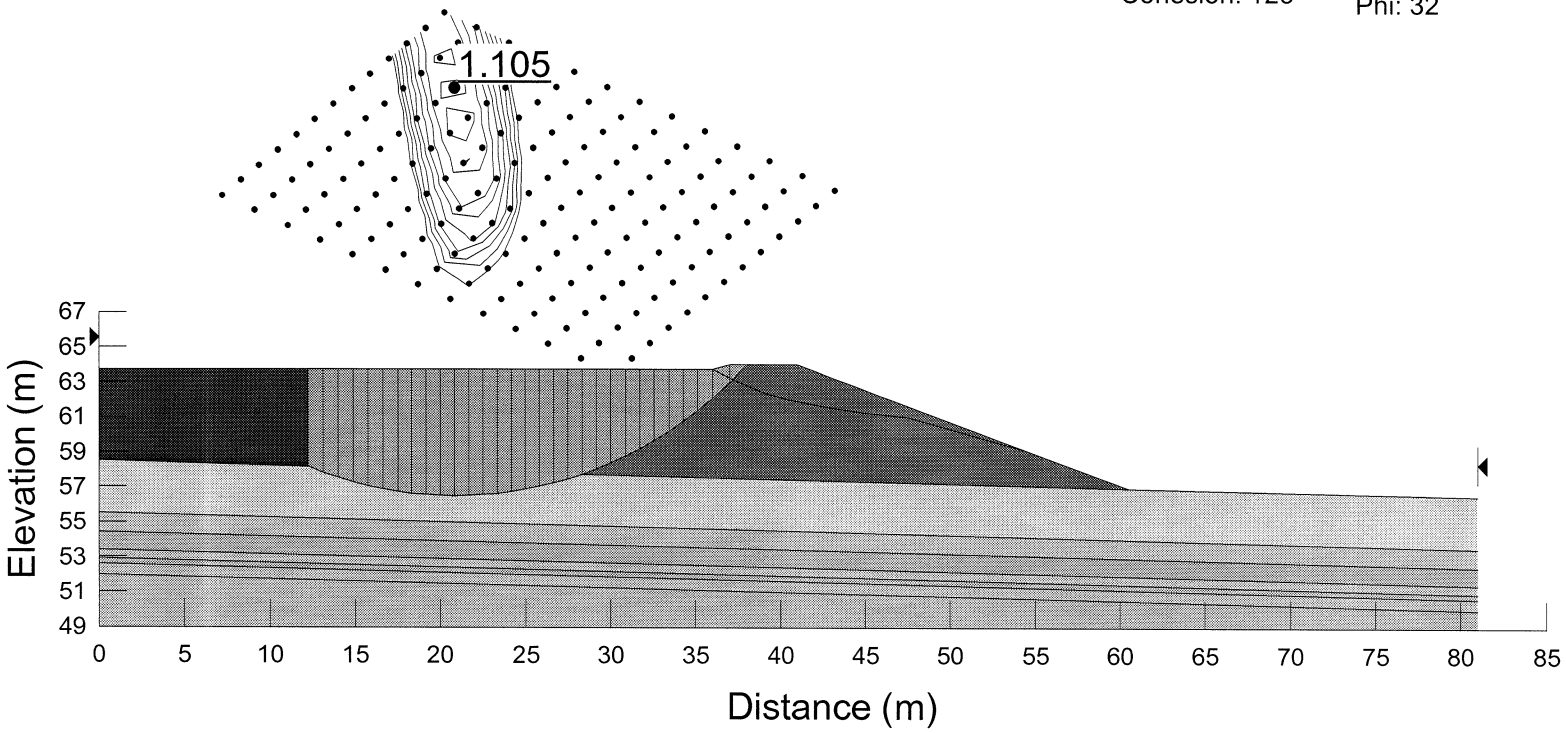
Soil: 5
Sandy silt
Unit Weight: 17
Cohesion: 0
Phi: 27

Soil: 6
Ice
Unit Weight: 9
Cohesion: 125

Soil: 7
Sandy silt
Unit Weight: 16
Cohesion: 0
Phi: 29

Soil: 8
Ice
Unit Weight: 9
Cohesion: 125

Soil: 9
Silty sand till
Unit Weight: 20
Cohesion: 0
Phi: 32



File Name: 4mSlopinggroundinnerslope351seismic.slp

OTGE00019055B
Slope Stability Analysis
New Sewage Lagoon & Rehabilitation of Existing Lagoon
Clyde River
Nunavut
Outside Slope @ 2.75H to 1V
Crest width = 4.0 m
Steady State Seepage Analysis

Soil: 1
Water
Unit Weight: 9.807

Soil: 2
Fill: Silty sand
Unit Weight: 18
Cohesion: 0
Phi: 30

Soil: 3
Silty sand
Unit Weight: 18
Cohesion: 0
Phi: 30

Soil: 4
Ice
Unit Weight: 9
Cohesion: 100

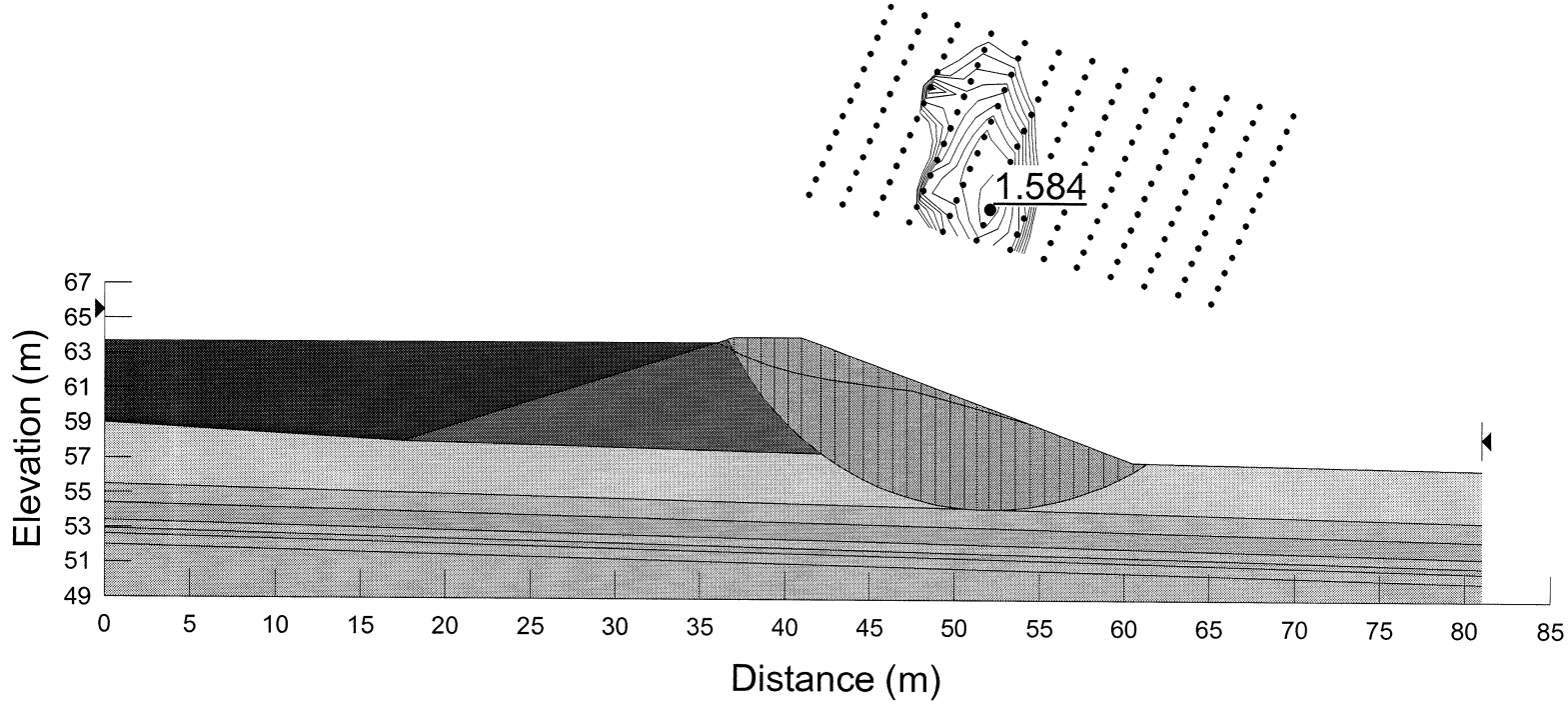
Soil: 5
Sandy silt
Unit Weight: 17
Cohesion: 0
Phi: 27

Soil: 6
Ice
Unit Weight: 9
Cohesion: 125

Soil: 7
Sandy silt
Unit Weight: 16
Cohesion: 0
Phi: 29

Soil: 8
Ice
Unit Weight: 9
Cohesion: 125

Soil: 9
Silty sand till
Unit Weight: 20
Cohesion: 0
Phi: 32



File Name: 4mSlopinggroundoutside2.75to1.slp