

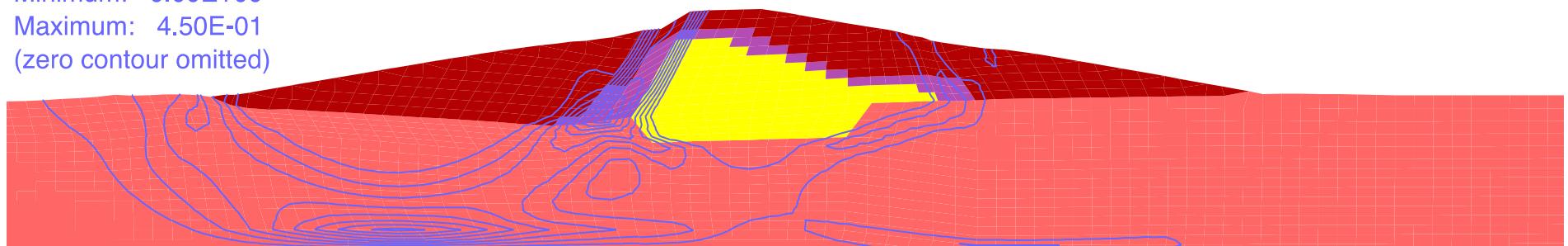
Max. shear strain increment

Contour interval= 5.00E-02

Minimum: 0.00E+00

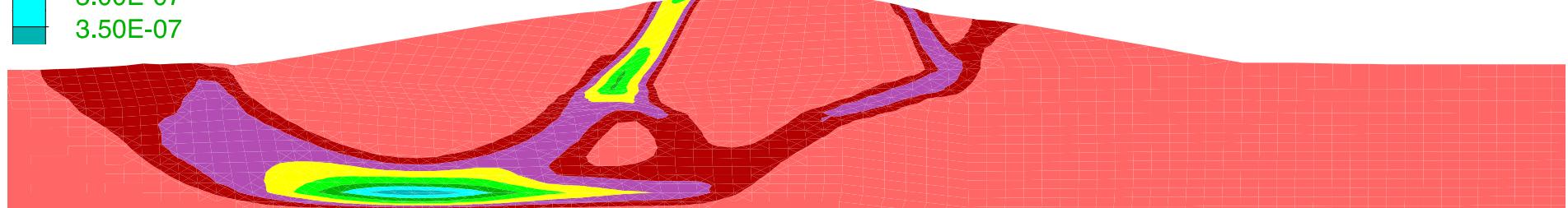
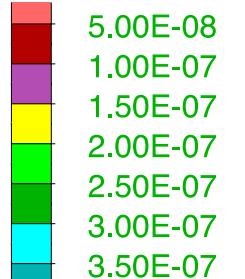
Maximum: 4.50E-01

(zero contour omitted)



Contour interval lines

Max. shear strain-rate



Contour intervals

Notes:

1. Units in year⁻¹
2. Foundation layer is shown until bedrock
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

 srk consulting	 T MAC RESOURCES	North Dam Creep Deformation Analysis
Shear Strain Rates Ten Years After Dam Construction		
Job No: 1CT022.004 Filename: NorthDam_CreepAnalysis.pptx	HOPE BAY PROJECT	Date: 8/17/2016 Approved: AL Figure: 8

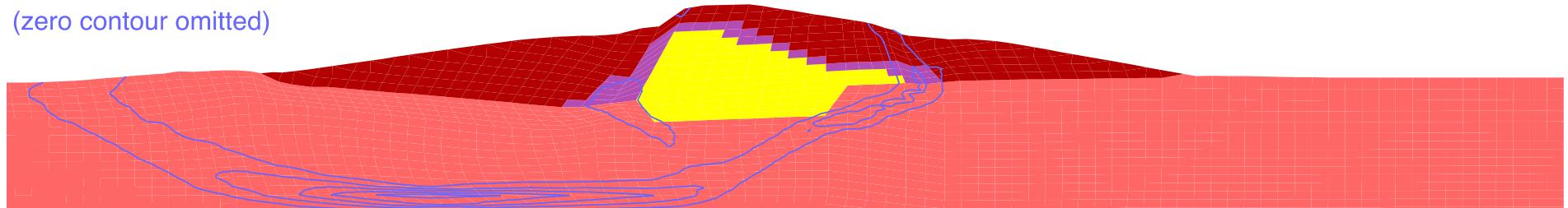
Max. shear strain-rate

Contour interval= 2.00E-08

Minimum: 0.00E+00

Maximum: 1.00E-07

(zero contour omitted)



Contour interval lines

Max. shear strain-rate

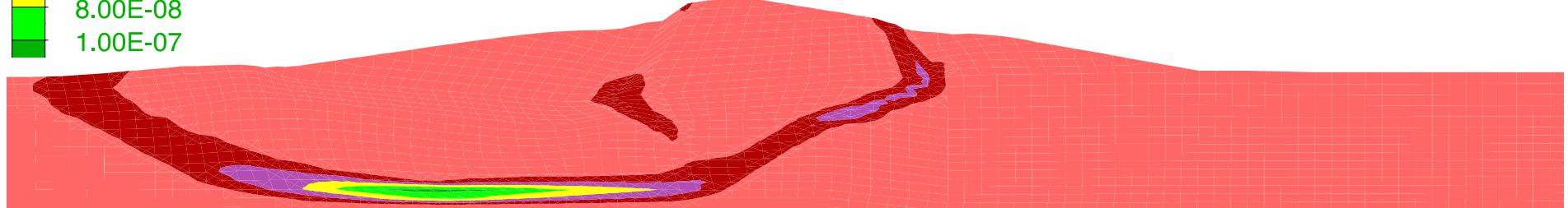
2.00E-08

4.00E-08

6.00E-08

8.00E-08

1.00E-07



Contour intervals

Notes:

1. Units in year⁻¹
2. Foundation layer is shown until bedrock
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

 srk consulting	 TMAC RESOURCES	North Dam Creep Deformation Analysis
Shear Strain Rates 30 Years After Dam Construction		
Job No: 1CT022.004 Filename: NorthDam_CreepAnalysis.pptx	HOPE BAY PROJECT	Date: 8/17/2016 Approved: AL Figure: 9

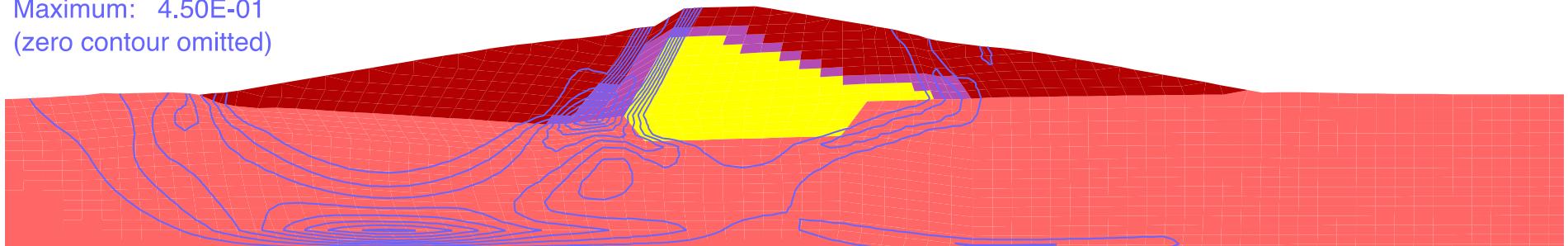
Max. shear strain increment

Contour interval= 5.00E-02

Minimum: 0.00E+00

Maximum: 4.50E-01

(zero contour omitted)



Max. shear strain increment

5.00E-02

1.00E-01

1.50E-01

2.00E-01

2.50E-01

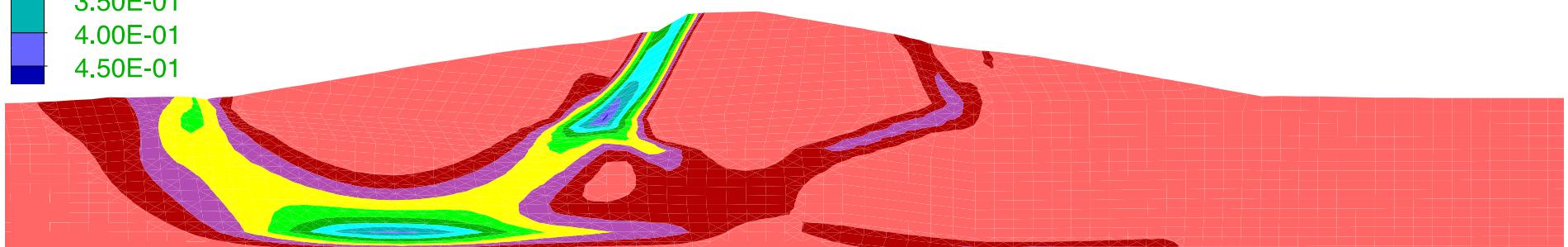
3.00E-01

3.50E-01

4.00E-01

4.50E-01

Contour interval lines



Notes:

1. Units in meters/meters
2. Foundation layer is shown until bedrock
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

Contour intervals

 **srk** consulting

 **T MAC**
RESOURCES

North Dam Creep Deformation Analysis

Shear Strains
Ten Years After Dam Construction

Job No: 1CT022.004

Filename: NorthDam_CreepAnalysis.pptx

HOPE BAY PROJECT

Date: 8/17/2016

Approved: AL

Figure: 10

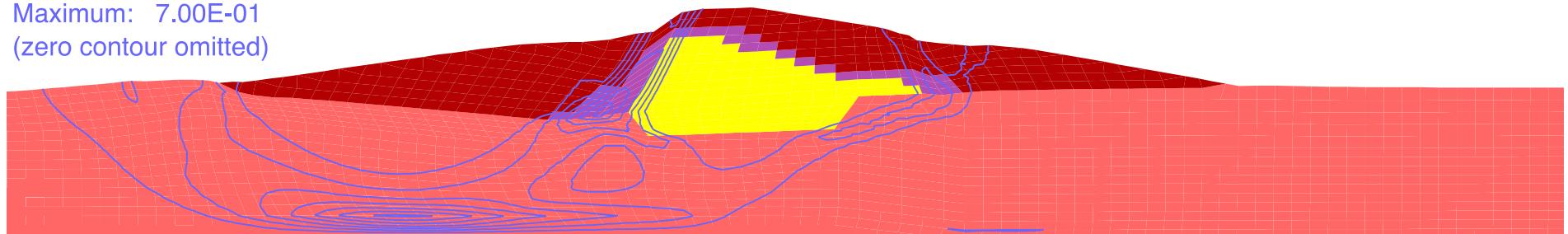
Max. shear strain increment

Contour interval= 1.00E-01

Minimum: 0.00E+00

Maximum: 7.00E-01

(zero contour omitted)



Contour interval lines

Max. shear strain increment

1.00E-01

2.00E-01

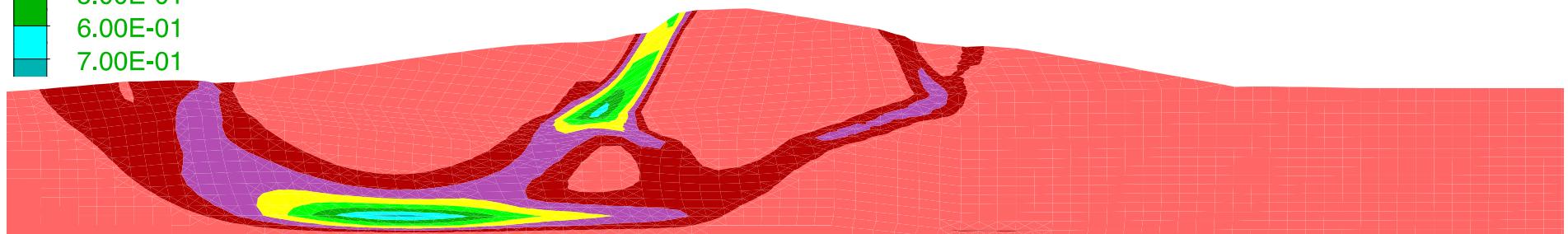
3.00E-01

4.00E-01

5.00E-01

6.00E-01

7.00E-01



Contour intervals

Notes:

1. Units in meters/meters
2. Foundation layer is shown until bedrock
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

 srk consulting	 T MAC RESOURCES	North Dam Creep Deformation Analysis
Shear Strains 30 Years After Dam Construction		
Job No: 1CT022.004 Filename: NorthDam_CreepAnalysis.pptx		
HOPE BAY PROJECT	Date: 8/17/2016	Approved: AL
	Figure: 11	

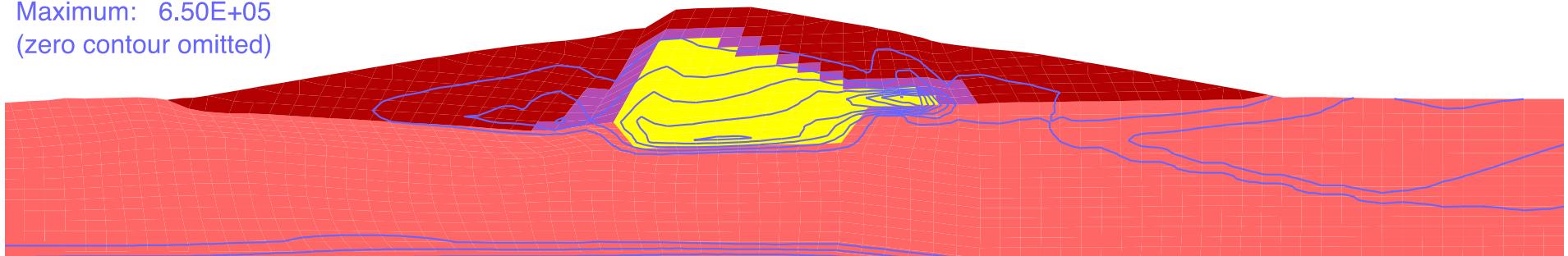
Princ. Stress Dif. contours

Contour interval= 5.00E+04

Minimum: 0.00E+00

Maximum: 6.50E+05

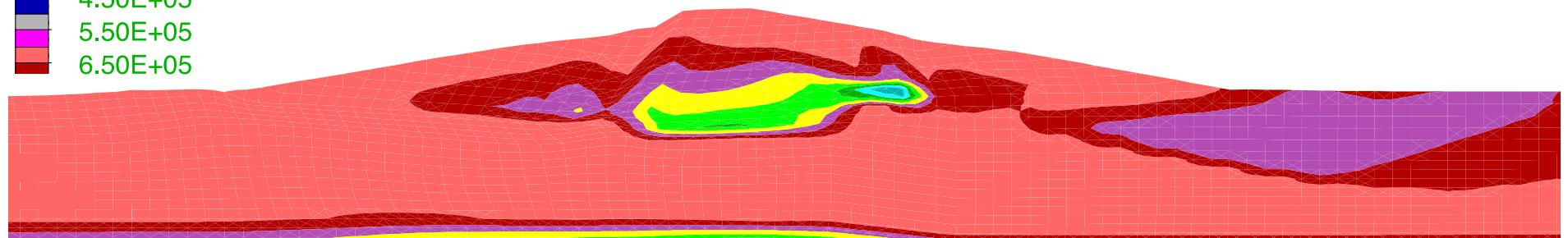
(zero contour omitted)



Contour interval lines

Princ. Stress Dif. contours

5.00E+04
1.50E+05
2.50E+05
3.50E+05
4.50E+05
5.50E+05
6.50E+05



Contour intervals

Notes:

1. Units in Pascals
2. Foundation layer is shown until bedrock
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

 srk consulting	 T MAC RESOURCES	North Dam Creep Deformation Analysis
Principal Stresses Difference Ten Years After Dam Construction		
Job No: 1CT022.004 Filename: NorthDam_CreepAnalysis.pptx	HOPE BAY PROJECT	Date: 8/17/2016 Approved: AL Figure: 12

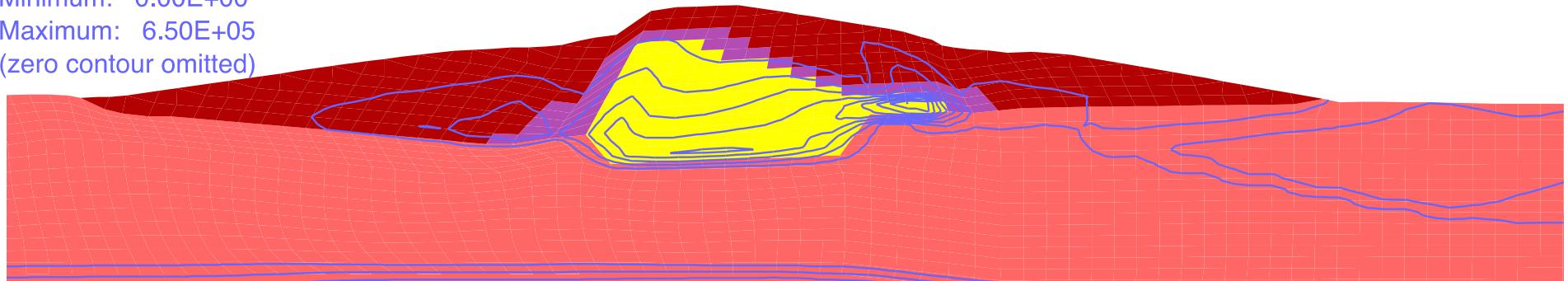
Princ. Stress Dif. contours

Contour interval= 5.00E+04

Minimum: 0.00E+00

Maximum: 6.50E+05

(zero contour omitted)



Princ. Stress Dif. contours

5.00E+04

1.50E+05

2.50E+05

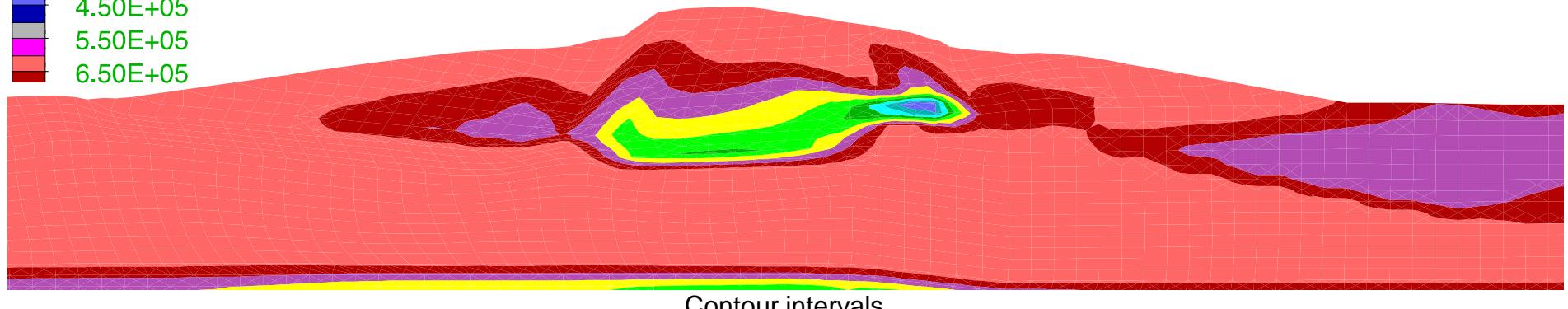
3.50E+05

4.50E+05

5.50E+05

6.50E+05

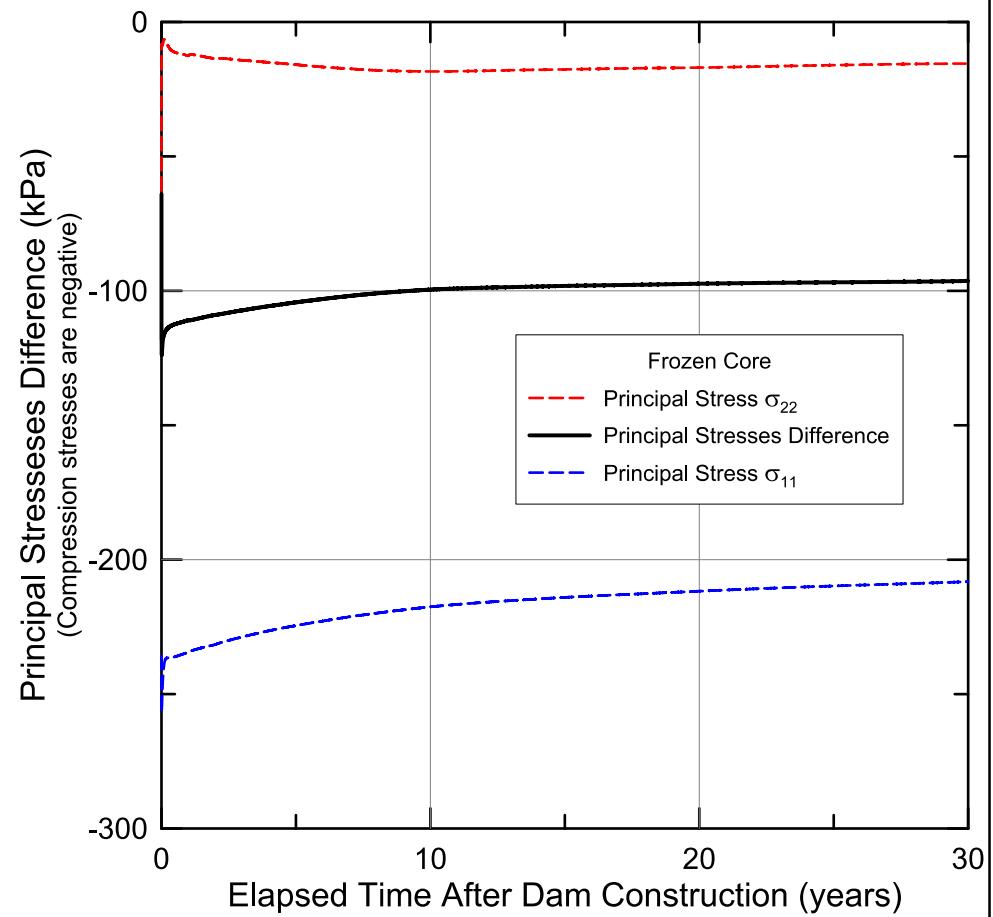
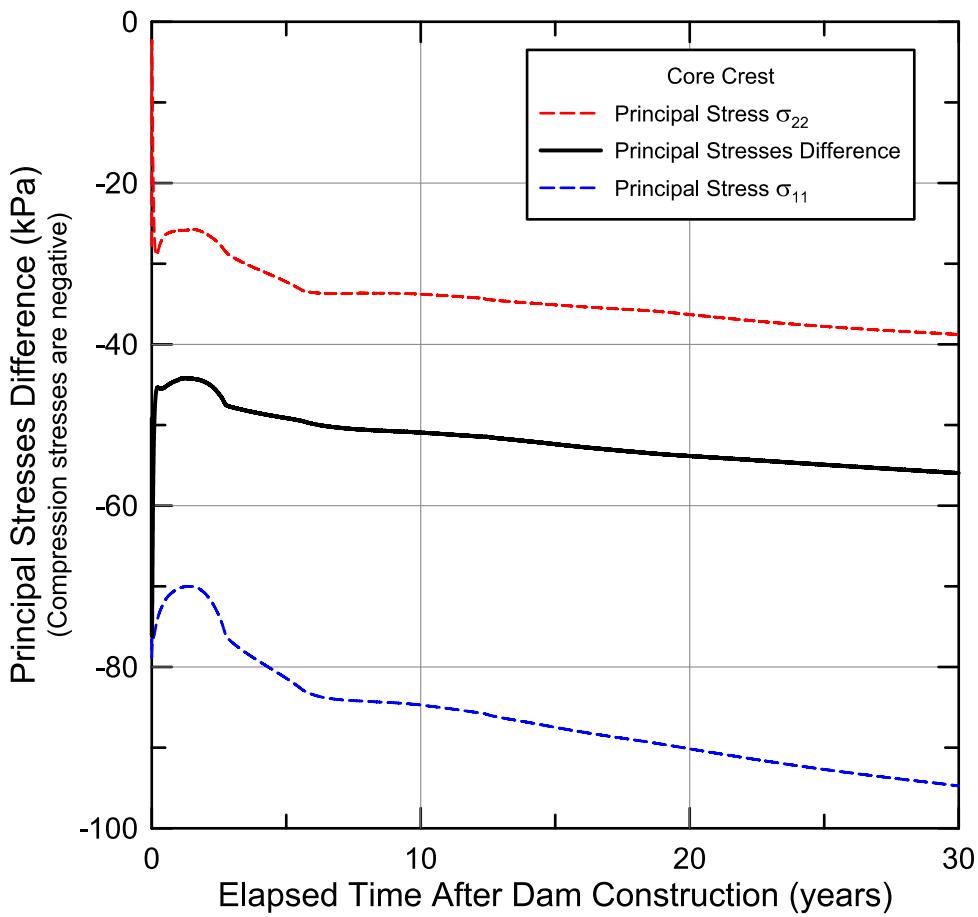
Contour interval lines



Notes:

1. Units in Pascals
2. Foundation layer is shown until bedrock
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

 srk consulting	 T MAC RESOURCES	North Dam Creep Deformation Analysis
Predicted Stresses Difference 30 Years After Dam Construction		
Job No: 1CT022.004 Filename: NorthDam_CreepAnalysis.pptx	HOPE BAY PROJECT	Date: 8/17/2016 Approved: AL Figure: 13



Notes:

1. Core crest is point A in Figure 5
2. Frozen core is point B in Figure 5
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

 Job No: 1CT022.004	 HOPE BAY PROJECT	North Dam Creep Deformation Analysis		
		History of Principal Stresses Difference of two Points in the Core		
		Date: 8/17/2016	Approved: AL	Figure: 14

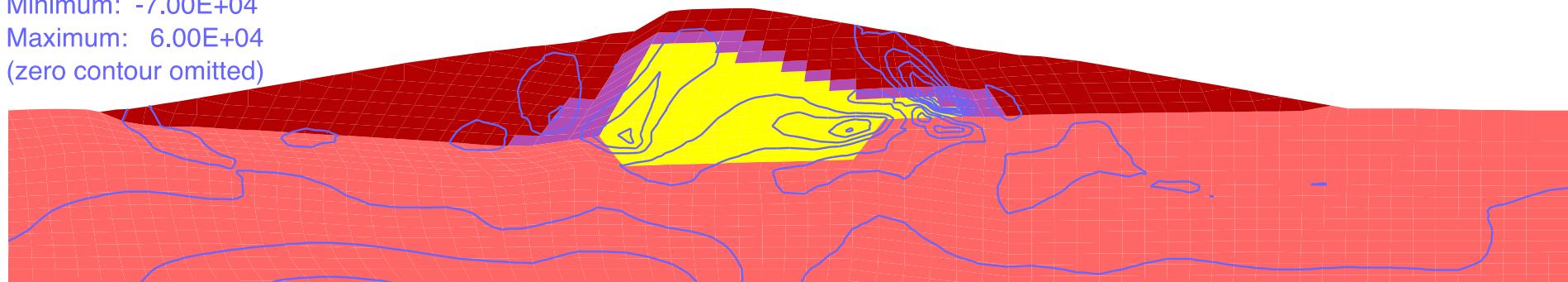
XY-stress contours

Contour interval= 1.00E+04

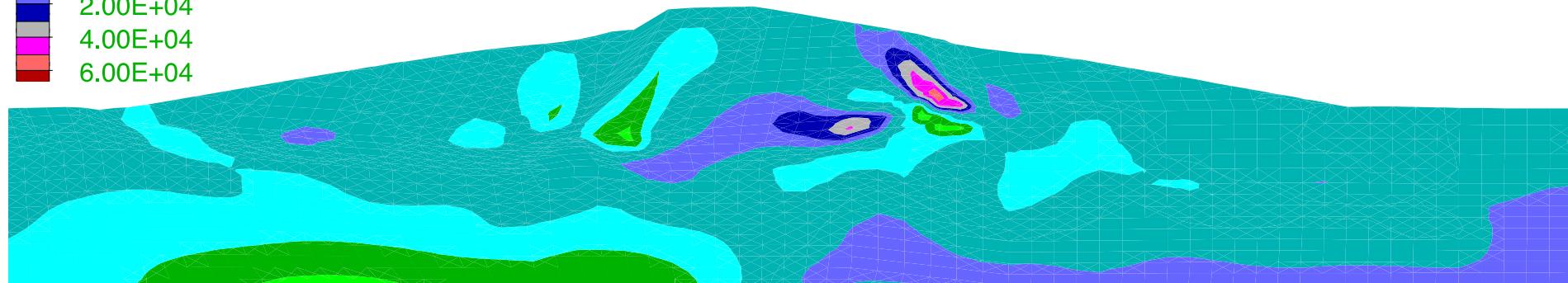
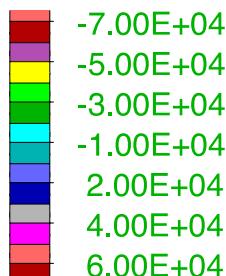
Minimum: -7.00E+04

Maximum: 6.00E+04

(zero contour omitted)



Contour interval lines



Contour intervals

Notes:

1. Units in Pascals
2. Foundation layer is shown until bedrock
3. Results for a salinity of 39 ppt in the clayey silt foundation and a threshold stress of $\sigma_{th}=30$ kPa

 srk consulting	 TMAC RESOURCES	North Dam Creep Deformation Analysis
Shear Stresses Ten Years After Dam Construction		
Job No: 1CT022.004 Filename: NorthDam_CreepAnalysis.pptx	HOPE BAY PROJECT	Date: 8/17/2016 Approved: AL Figure: 15