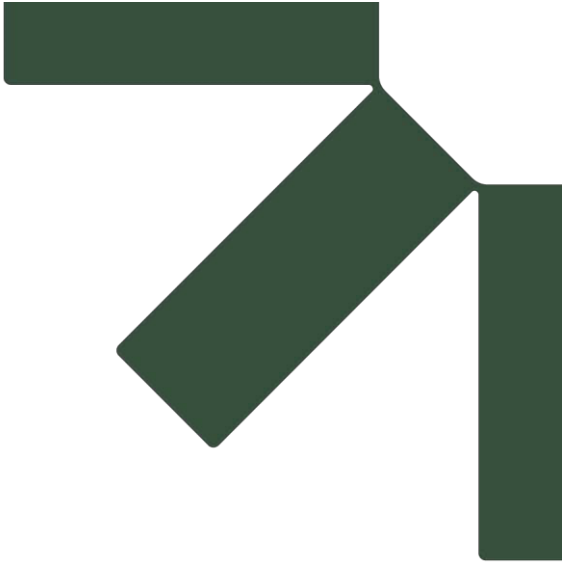




Appendix D TUFLOW Results – Base Case Scenario

Hail Creek Open Cut Eastern Margin Extension

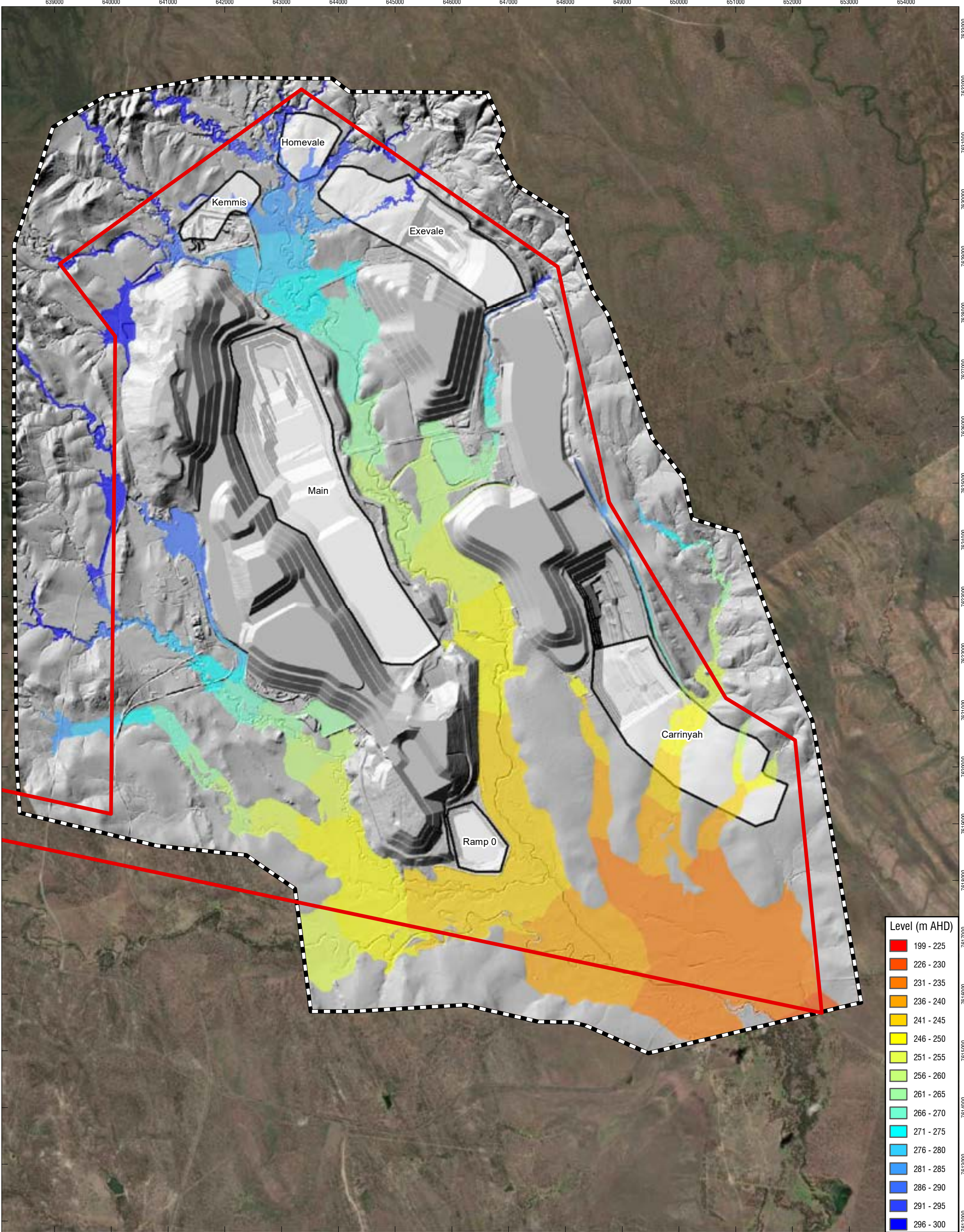
Replacement Surface Water Assessment

Hail Creek Coal Holdings Pty Limited

SLR Project No.: 626.V30128.00017

12 November 2025

H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-1_EXG08_1.mxd



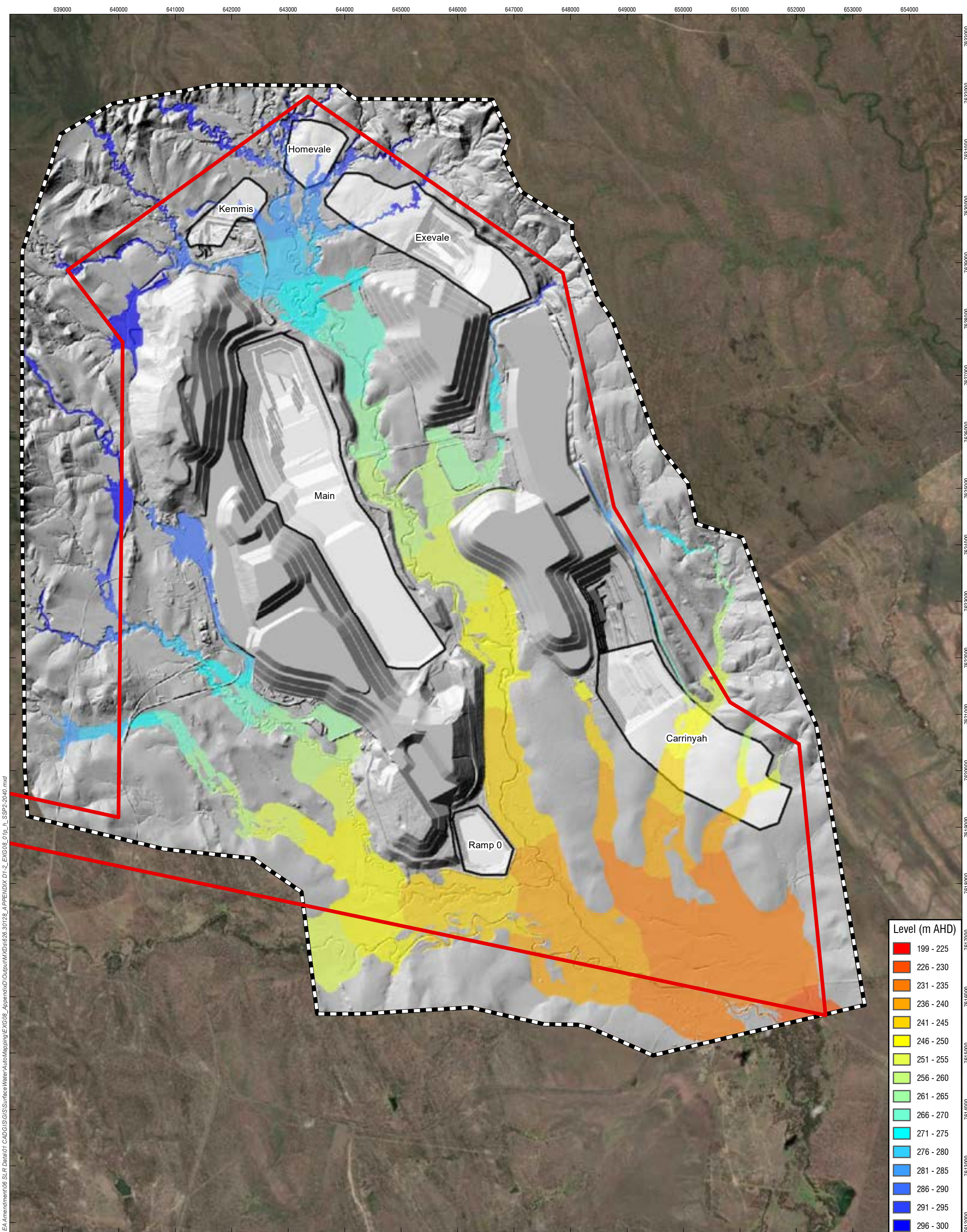

0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 0.1% AEP SSP2-2040





H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXD\626-30128_APPENDIX D1-2_EXG08_01p_h_SSP2-2040.mxd

 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

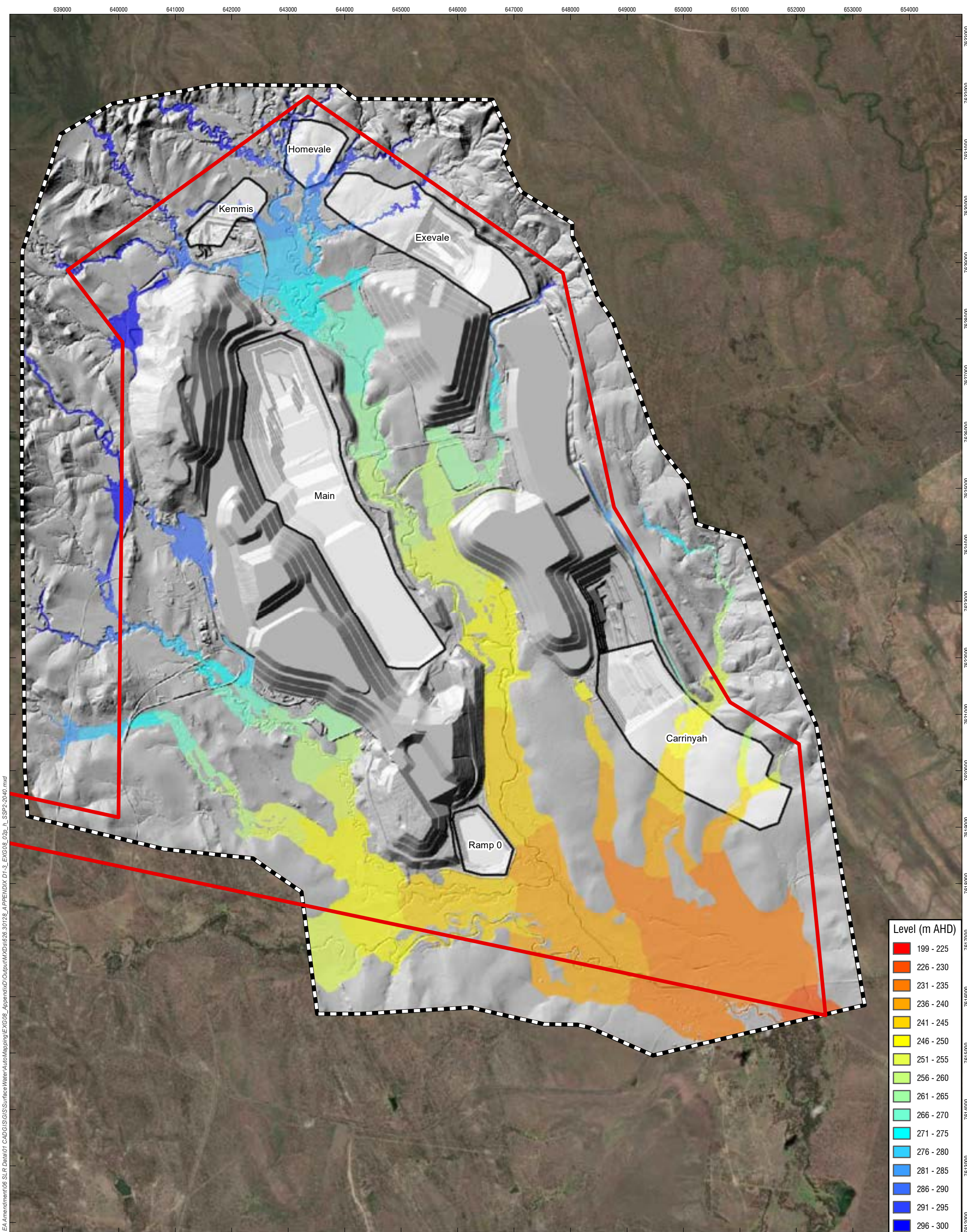
- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Level (m AHD)	
	199 - 225
	226 - 230
	231 - 235
	236 - 240
	241 - 245
	246 - 250
	251 - 255
	256 - 260
	261 - 265
	266 - 270
	271 - 275
	276 - 280
	281 - 285
	286 - 290
	291 - 295
	296 - 300

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 1% AEP SSP2-2040





H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-3_EXG08_02p_h_SSP2-2040.mxd

 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

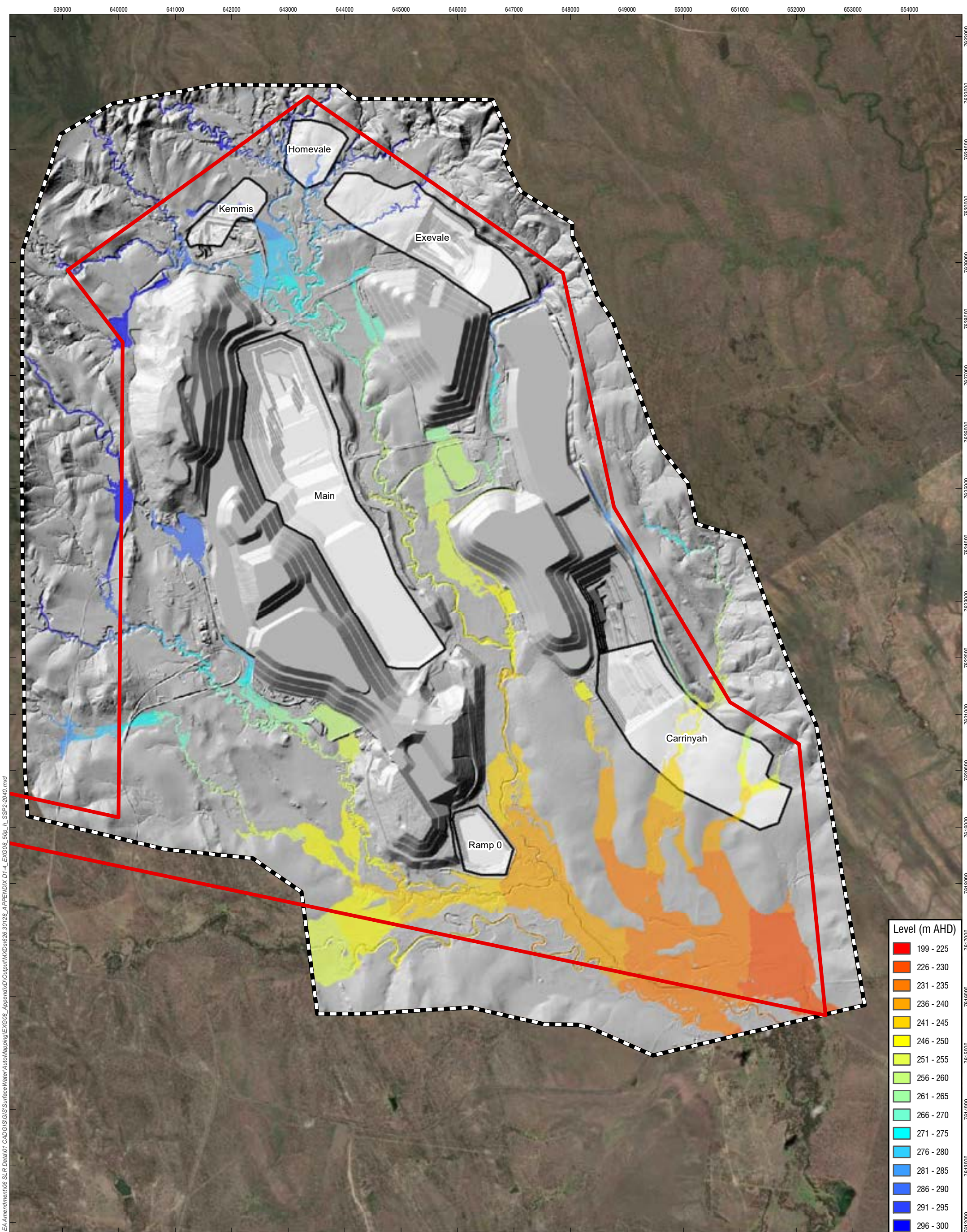
- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Level (m AHD)	
	199 - 225
	226 - 230
	231 - 235
	236 - 240
	241 - 245
	246 - 250
	251 - 255
	256 - 260
	261 - 265
	266 - 270
	271 - 275
	276 - 280
	281 - 285
	286 - 290
	291 - 295
	296 - 300

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 2% AEP SSP2-2040





H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-4_EXG08_50p_h_SSP2-2040.mxd

 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

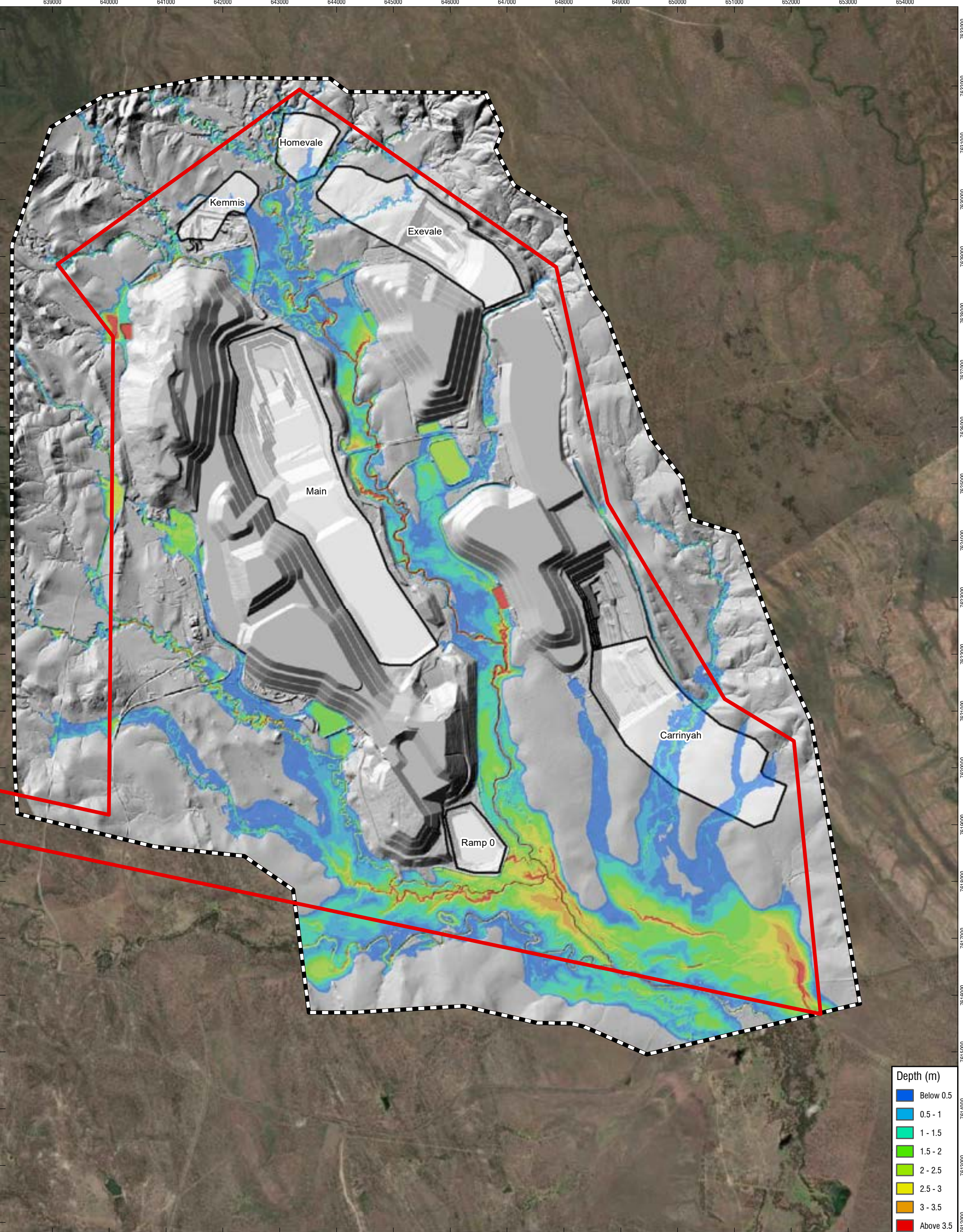
Level (m AHD)	
	199 - 225
	226 - 230
	231 - 235
	236 - 240
	241 - 245
	246 - 250
	251 - 255
	256 - 260
	261 - 265
	266 - 270
	271 - 275
	276 - 280
	281 - 285
	286 - 290
	291 - 295
	296 - 300

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-3_EXG08_1m1000_d_SSP2-2040.mxd



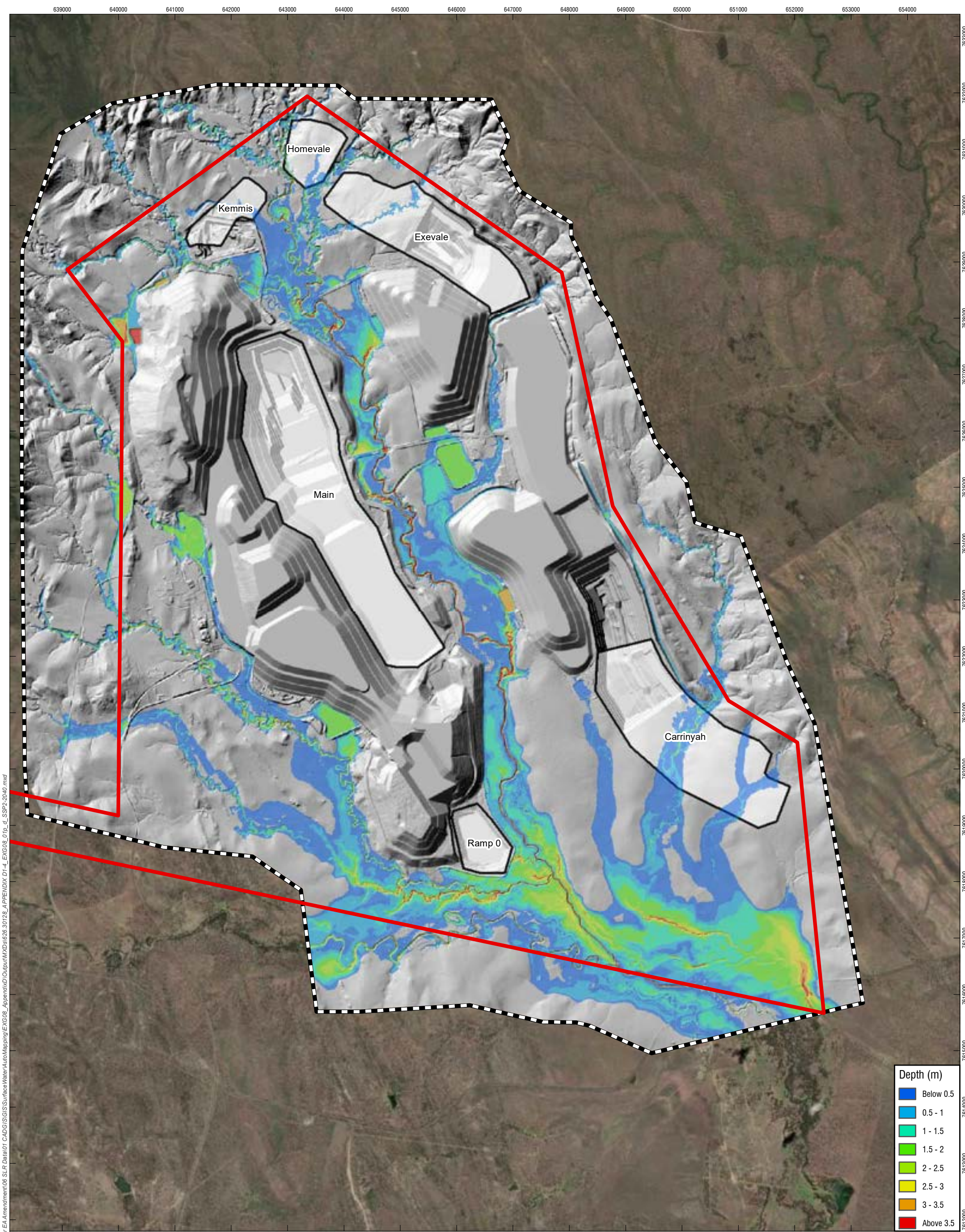
 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 0.1% AEP SSP2-2040





H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXD\626 30128_APPENDIX D1-4_EXG08_01p_d_SSP2-2040.mxd


0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

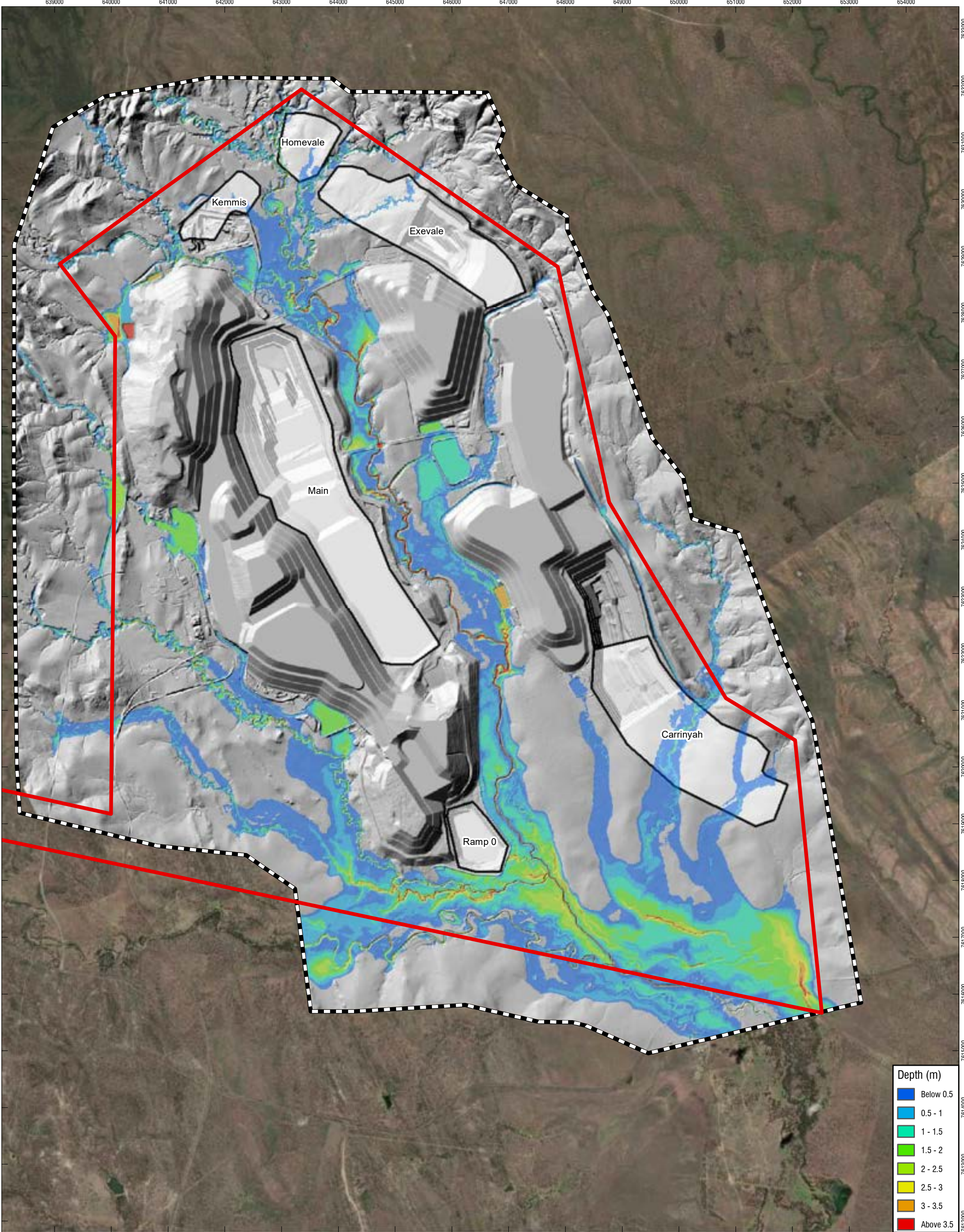
Depth (m)	
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-5_EXG08_02p_d_SSP2-2040.mxd




0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

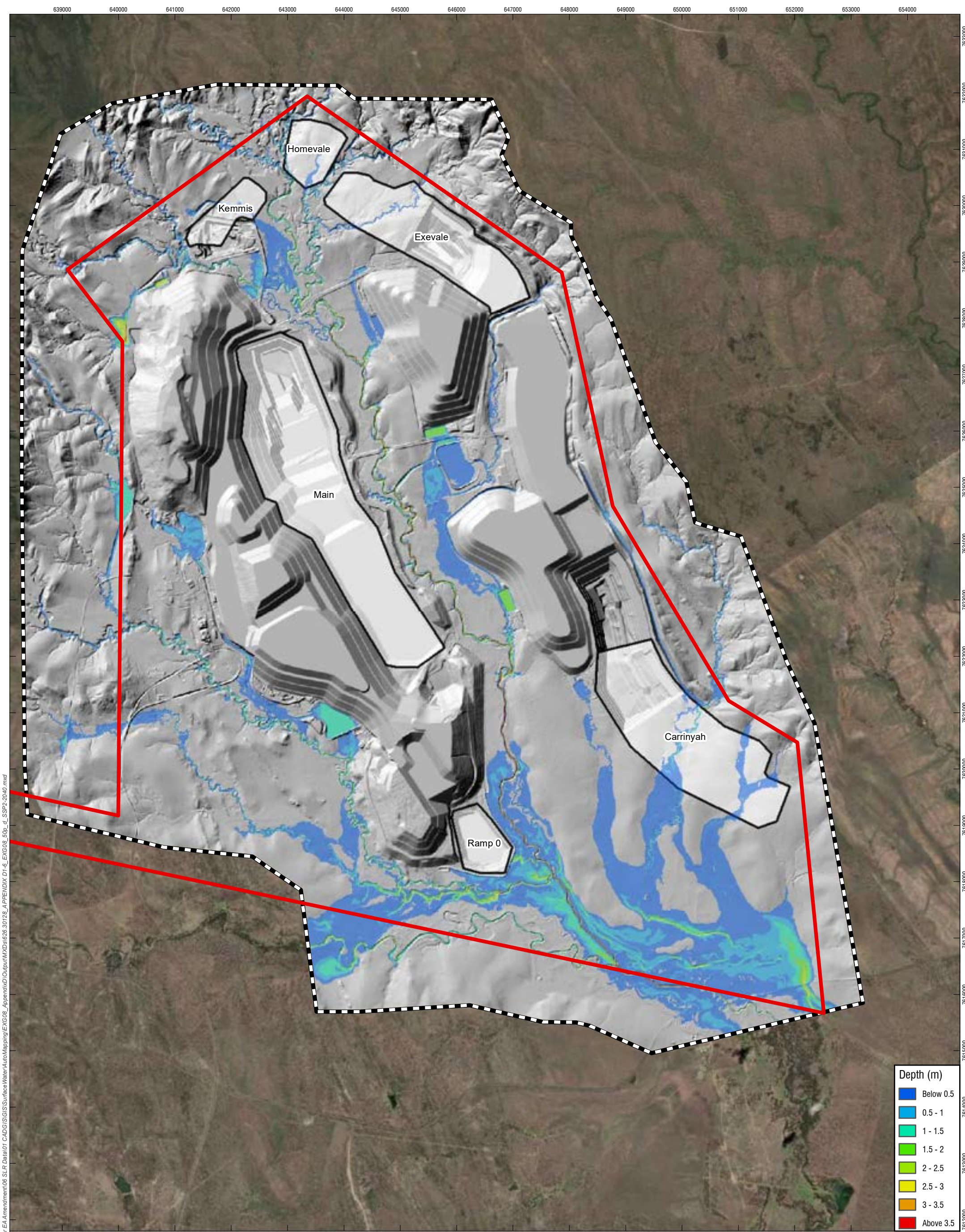
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Depth (m)
 Below 0.5
 0.5 - 1
 1 - 1.5
 1.5 - 2
 2 - 2.5
 2.5 - 3
 3 - 3.5
 Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 2% AEP SSP2-2040





H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXD\626-30128_APPENDIX D1-6_EXG08_50p_d_SSP2-2040.mxd

 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

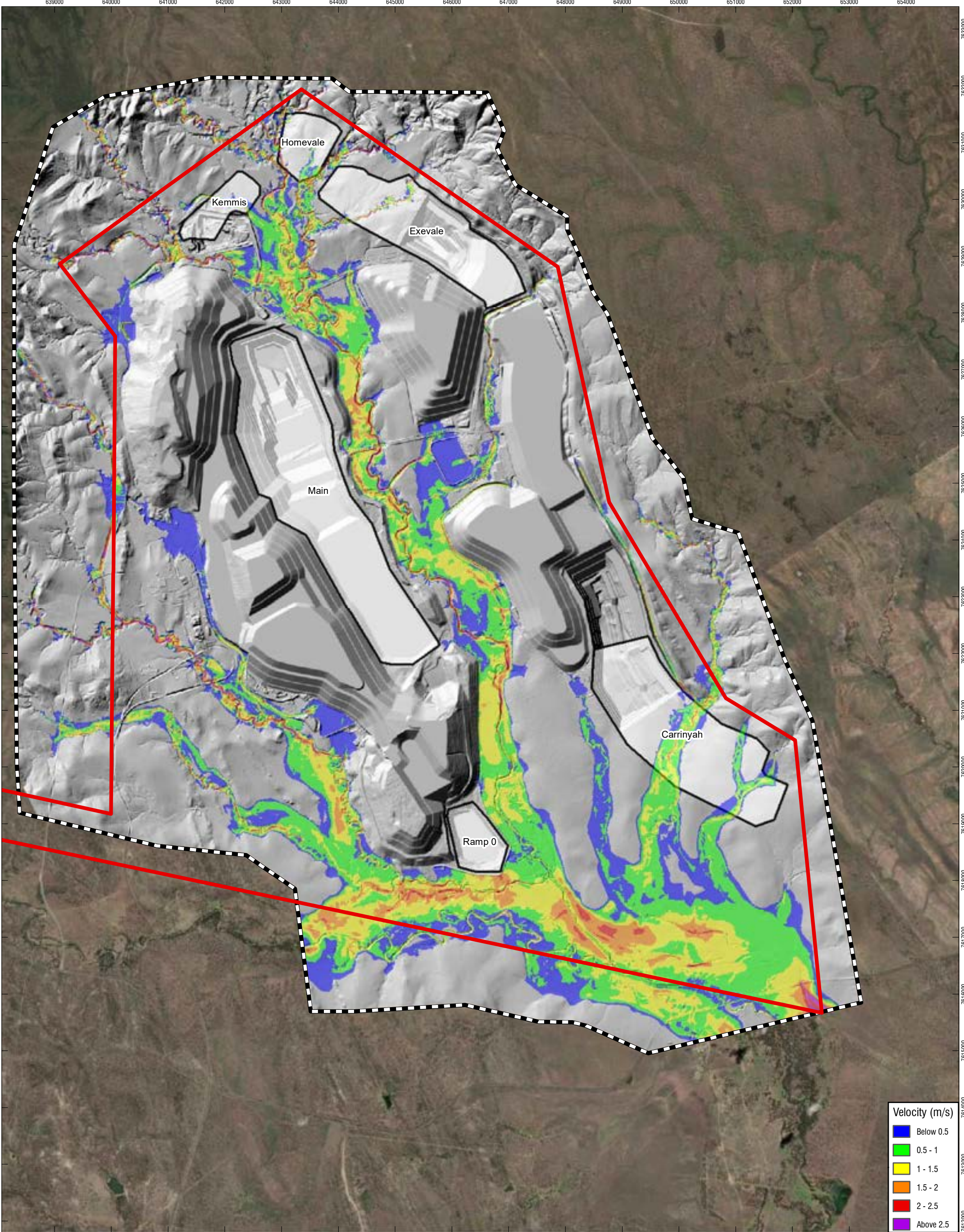
Depth (m)	
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	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

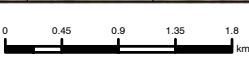
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-7_EXG08_1m1000_v_SSP2-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

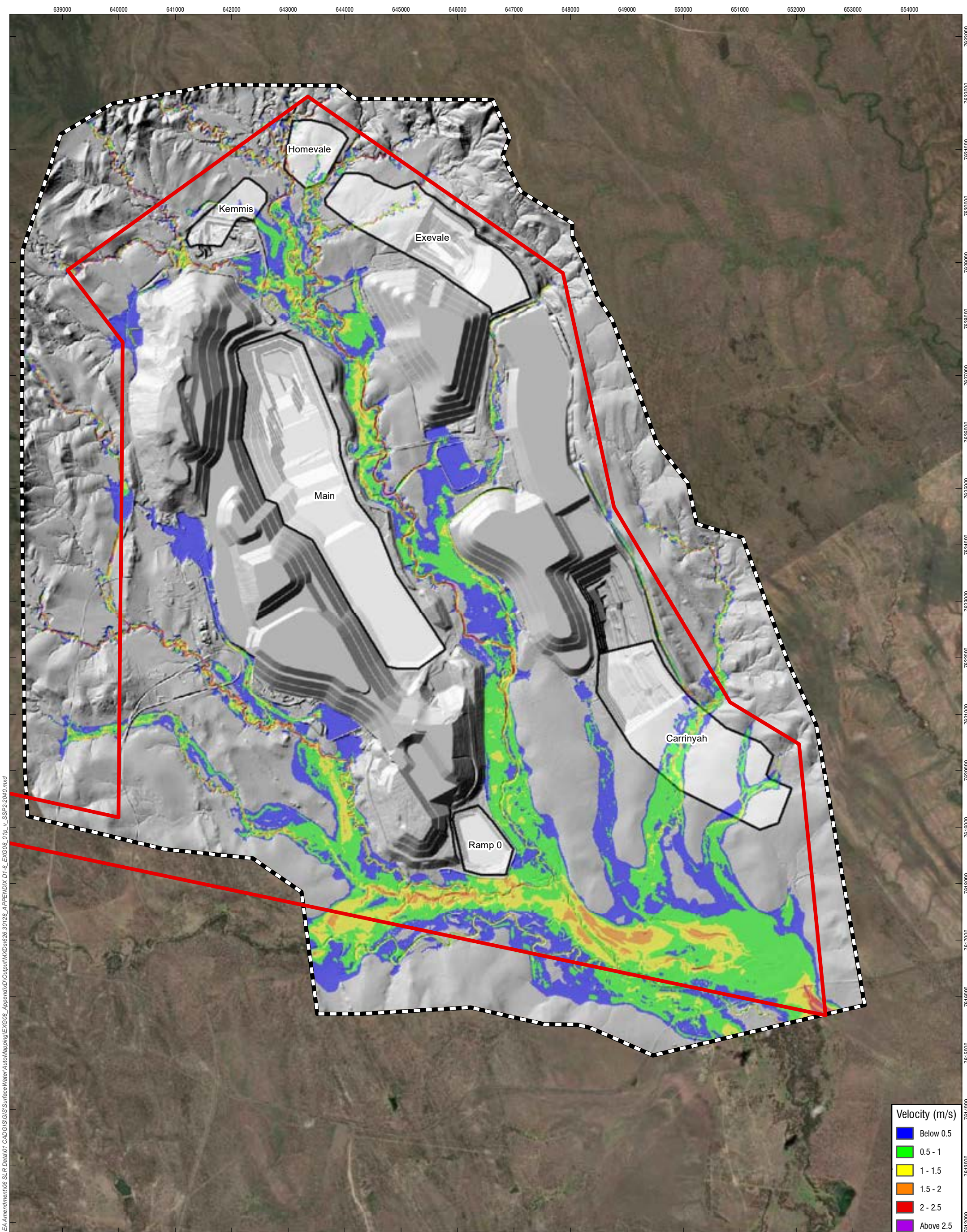
- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Velocity (m/s)	
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	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	Above 2.5

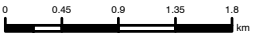
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 0.1% AEP SSP2-2040





H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-8_EXG08_01p_v_SSP2-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

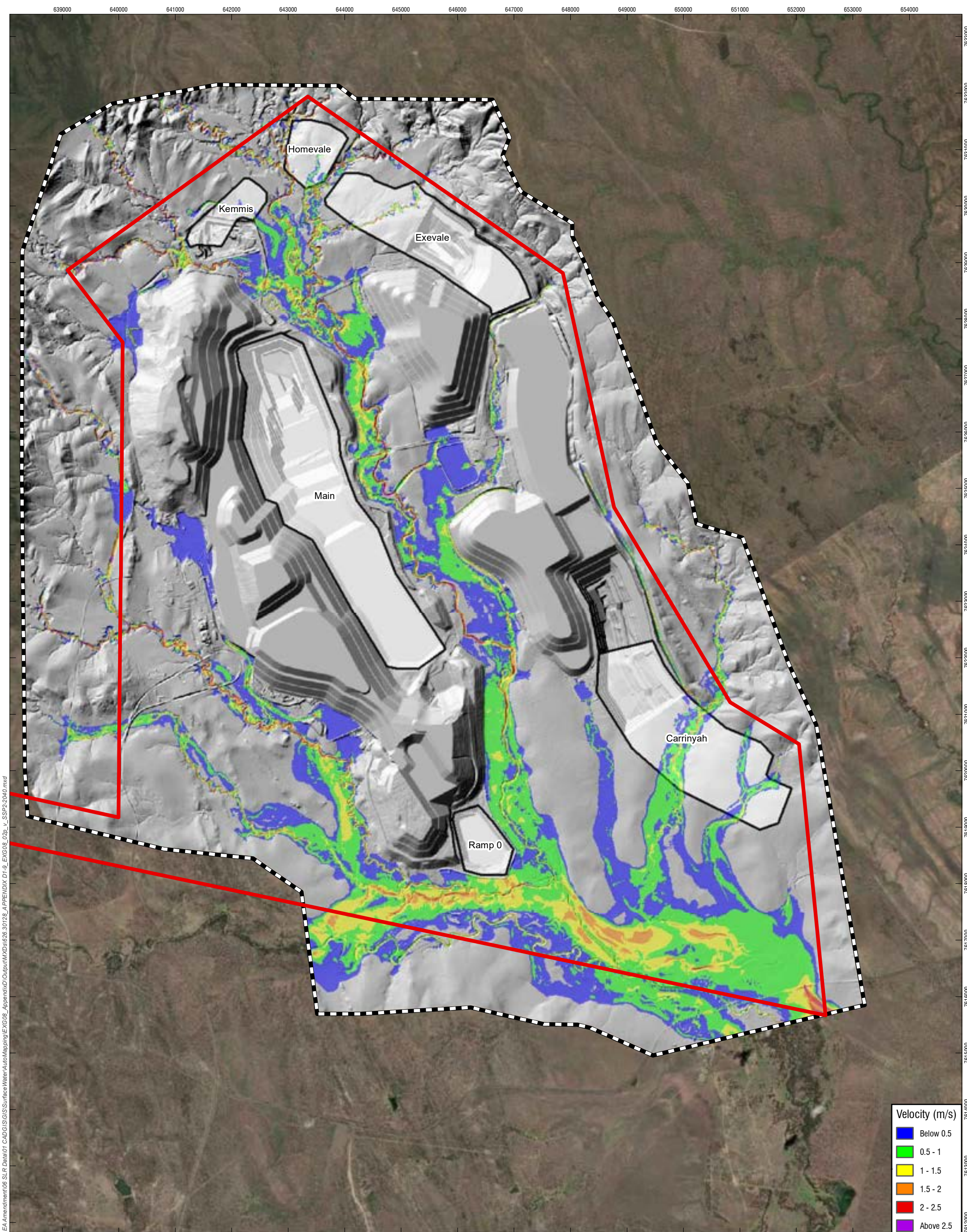
- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Velocity (m/s)	
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	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	Above 2.5

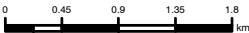
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 1% AEP SSP2-2040





H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1-9_EXG08_02p_v_SSP2-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

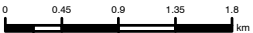
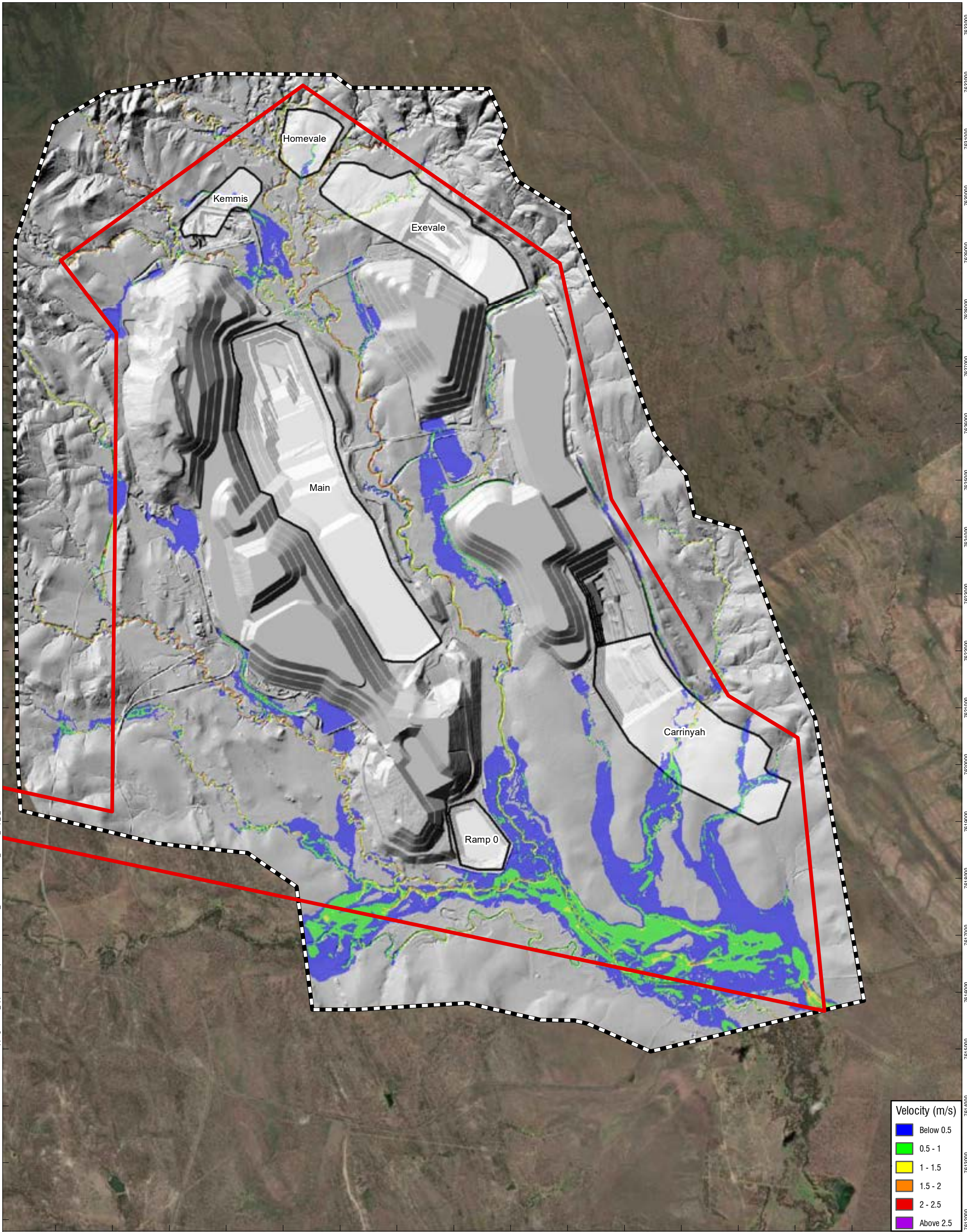
Velocity (m/s)	
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 2% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1-10_EXG08_50p_v_SSP2-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

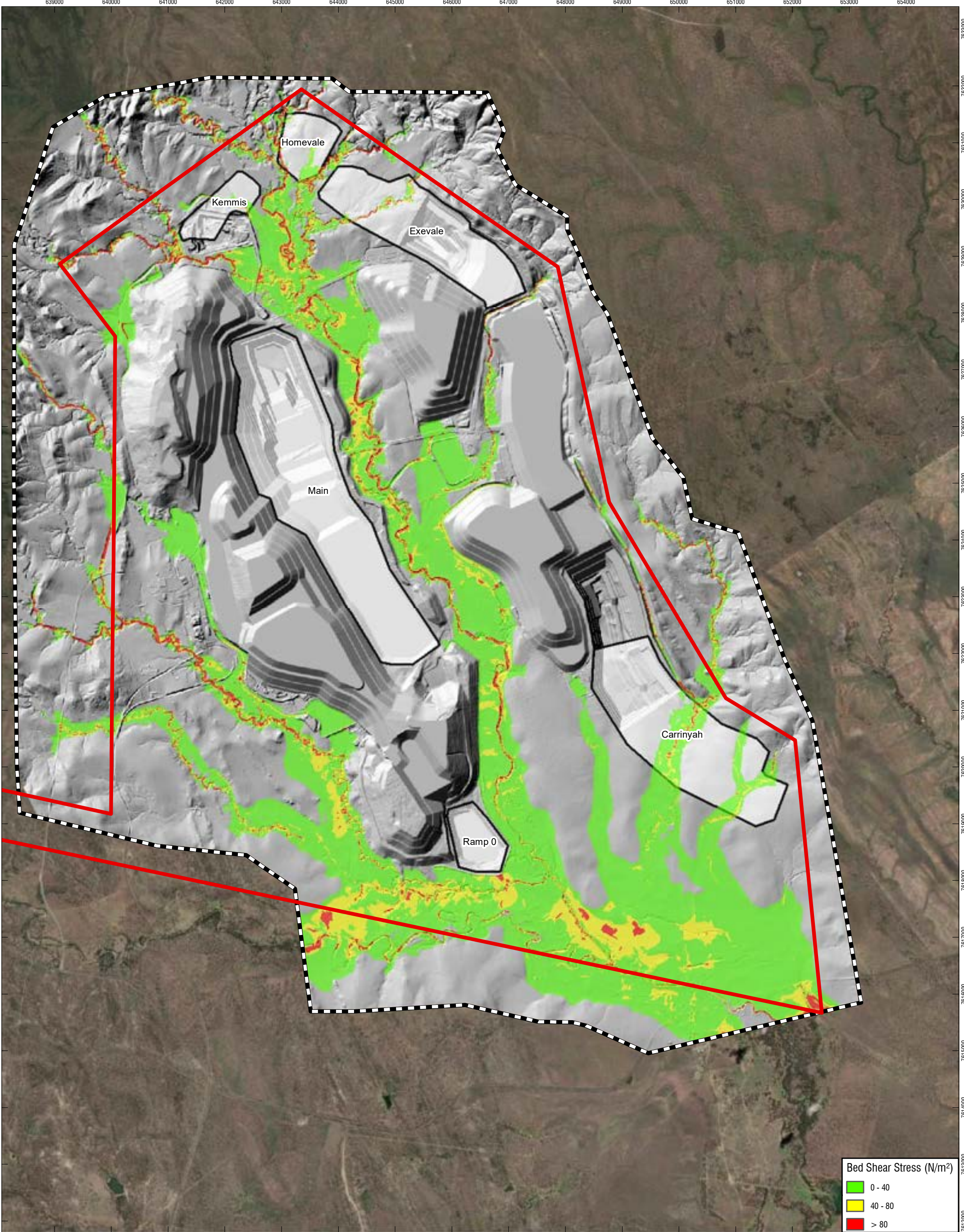
Velocity (m/s)	
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-11_EXG08_1in1000_BSS_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

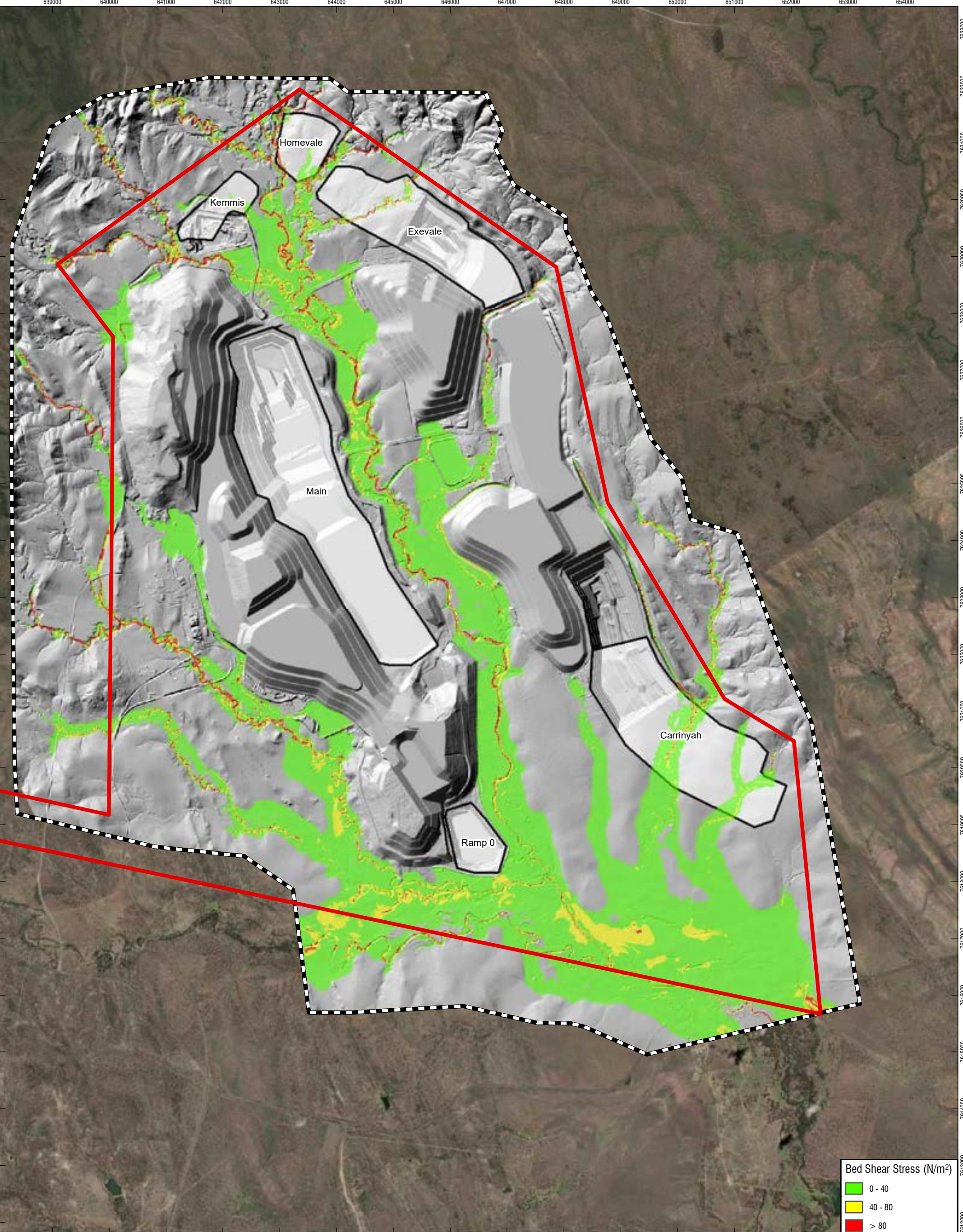
Bed Shear Stress (N/m²)
 0 - 40
 40 - 80
 > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 0.1% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-12_EXG08_01p_BSS_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Bed Shear Stress (N/m²)

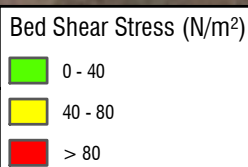
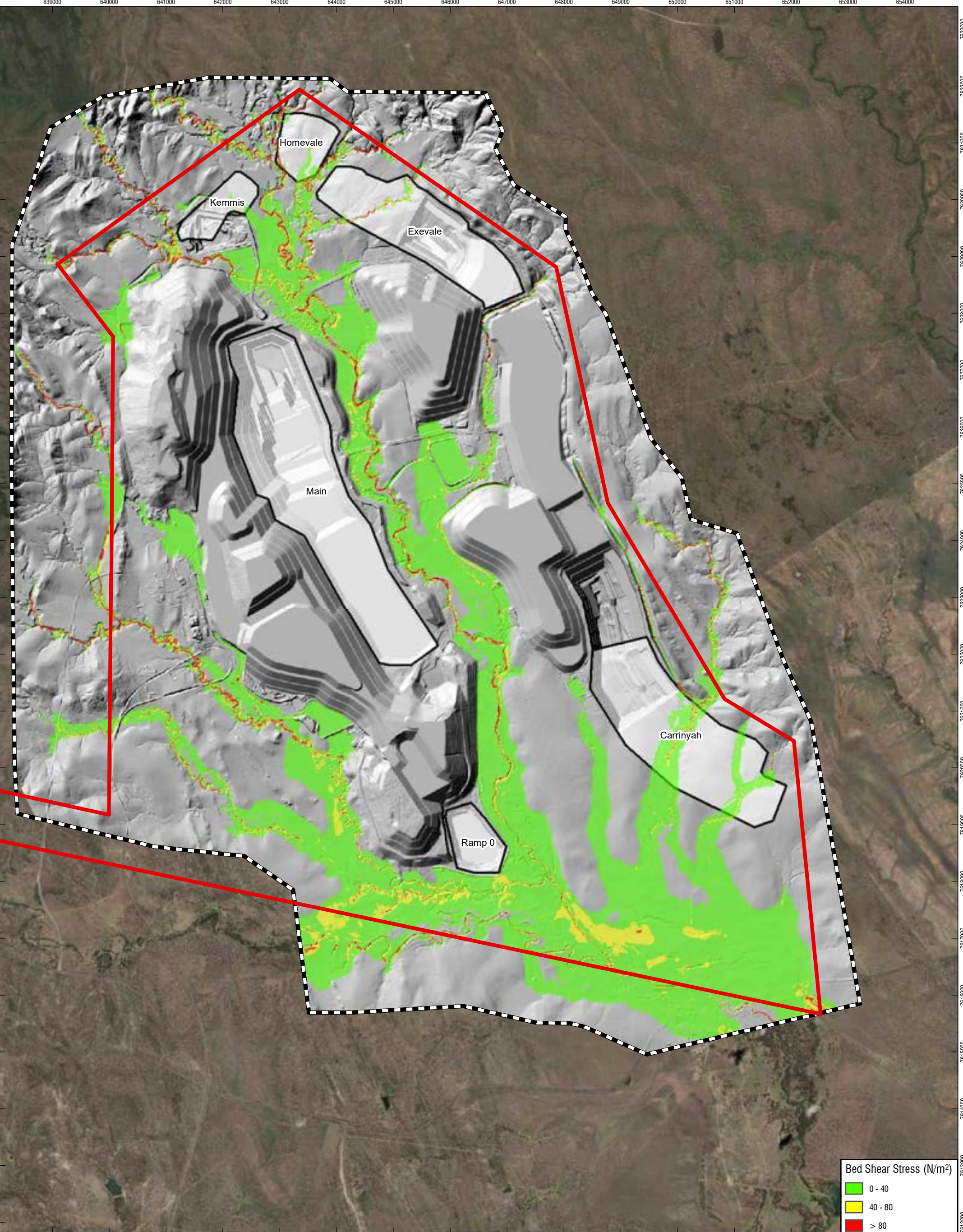
-  0 - 40
-  40 - 80
-  > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 1% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-13_EXG08_02p_BSS_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

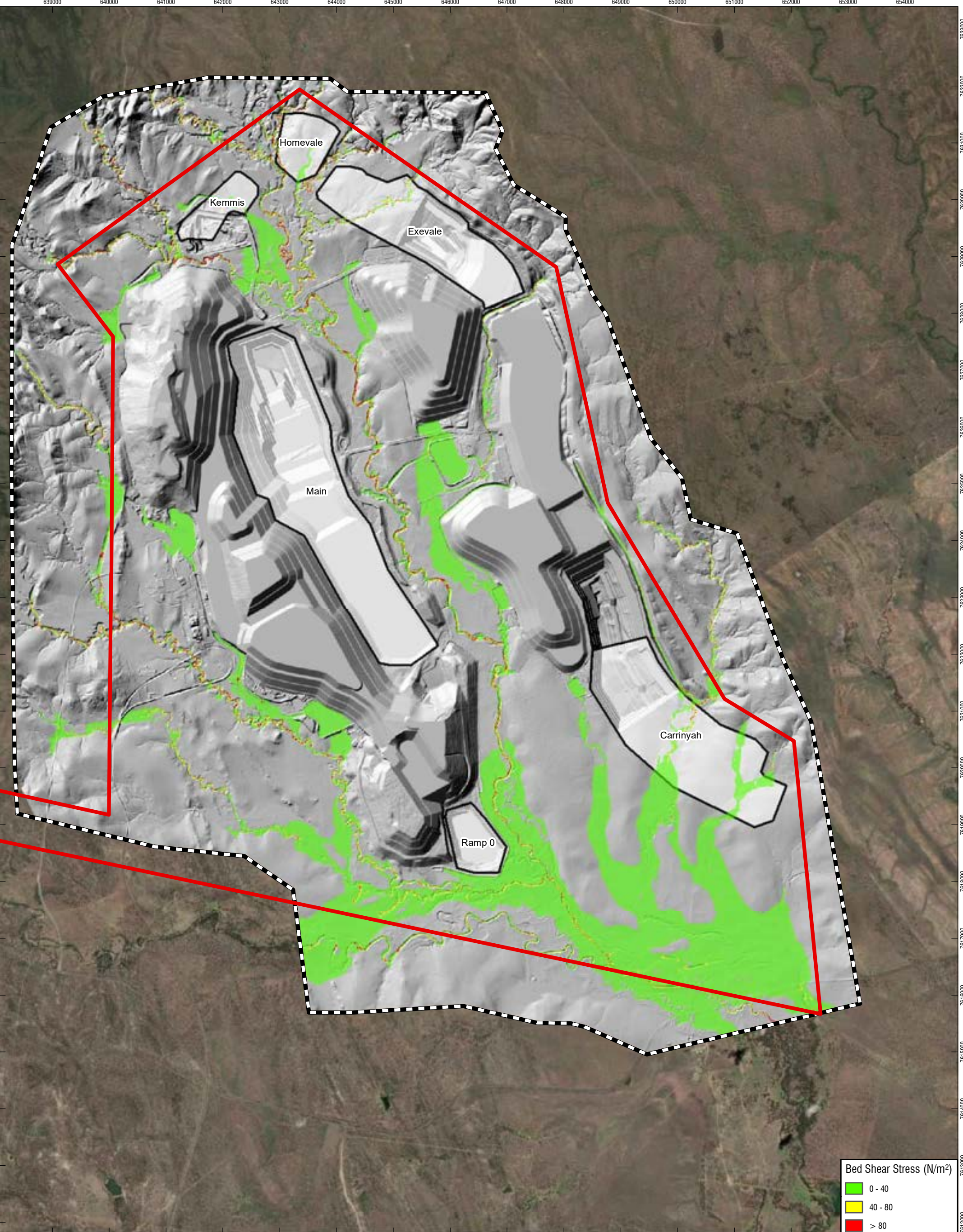
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 2% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-14_EXG08_50p_BSS_SSP2-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

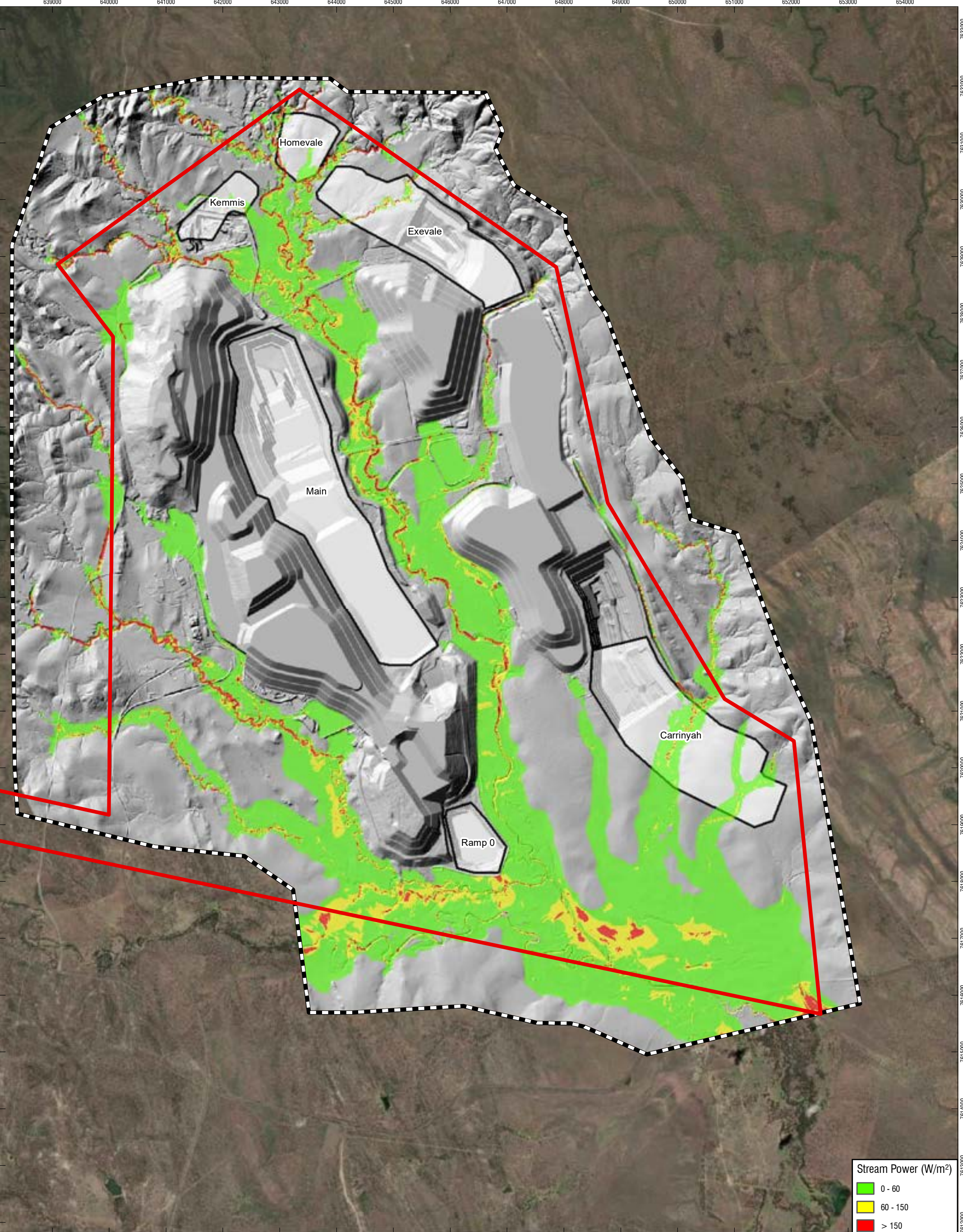
Bed Shear Stress (N/m²)	
	0 - 40
	40 - 80
	> 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-15_EXG08_1in1000_SP_SSP2-2040.mxd




0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

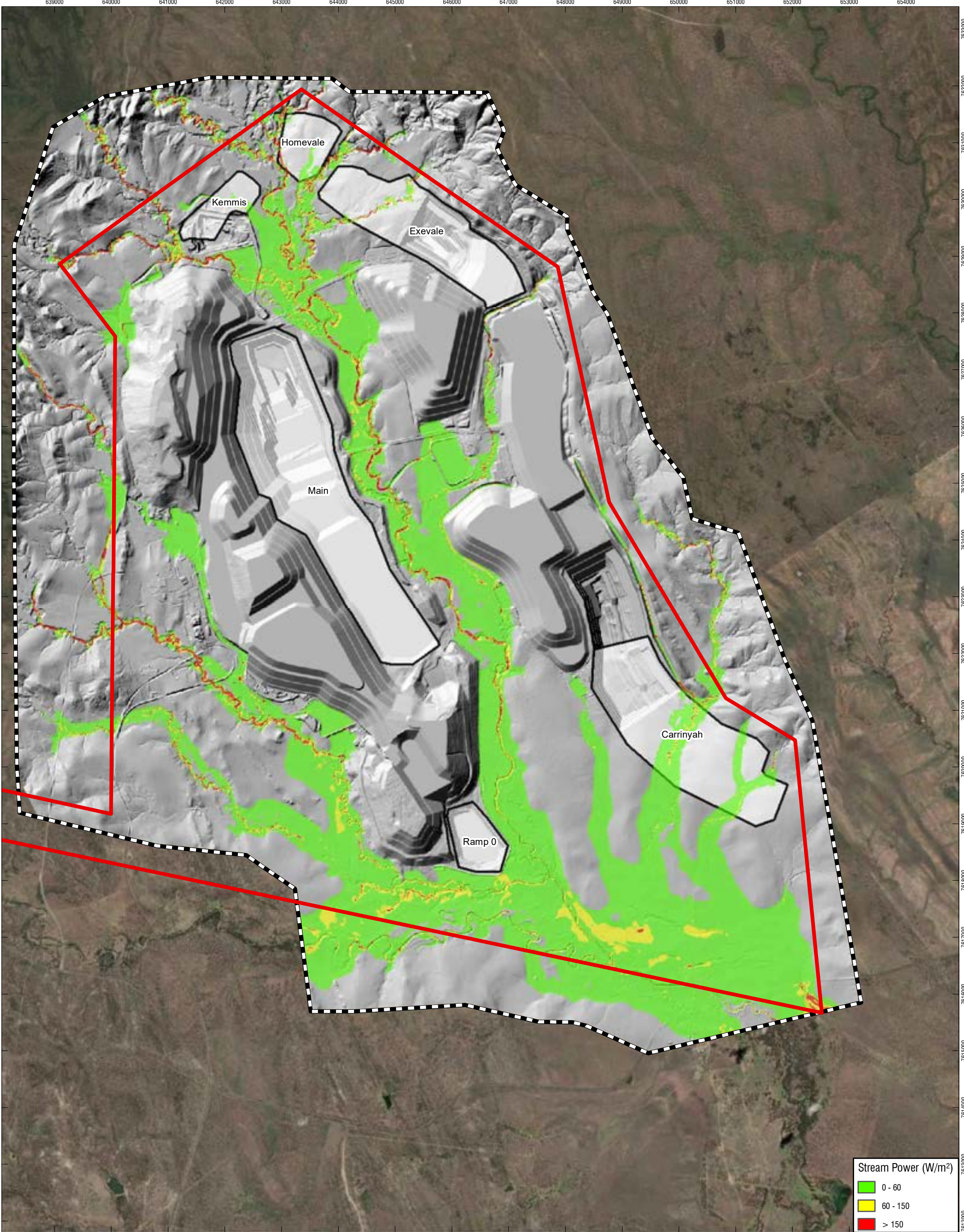
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Stream Power - 0.1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_A\APPENDIX D1-16_EXG08_01p_SP_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Stream Power (W/m²)

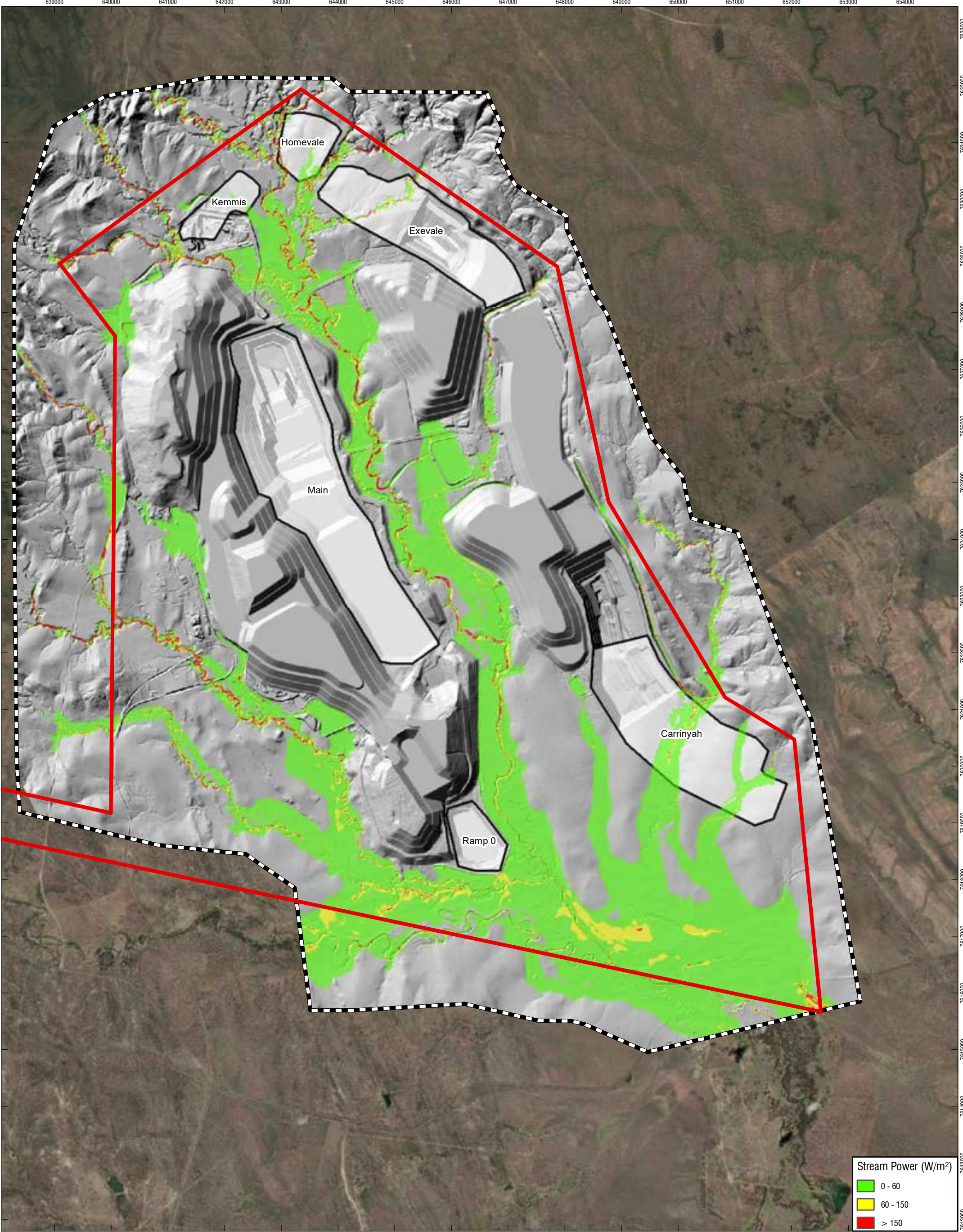
-  0 - 60
-  60 - 150
-  > 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results



Baseline Conditions (EXG08)
Peak Flood Stream Power - 1% AEP SSP2-2040

H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-17_EXG08_02p_SP_SSP2-2040.mxd




0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

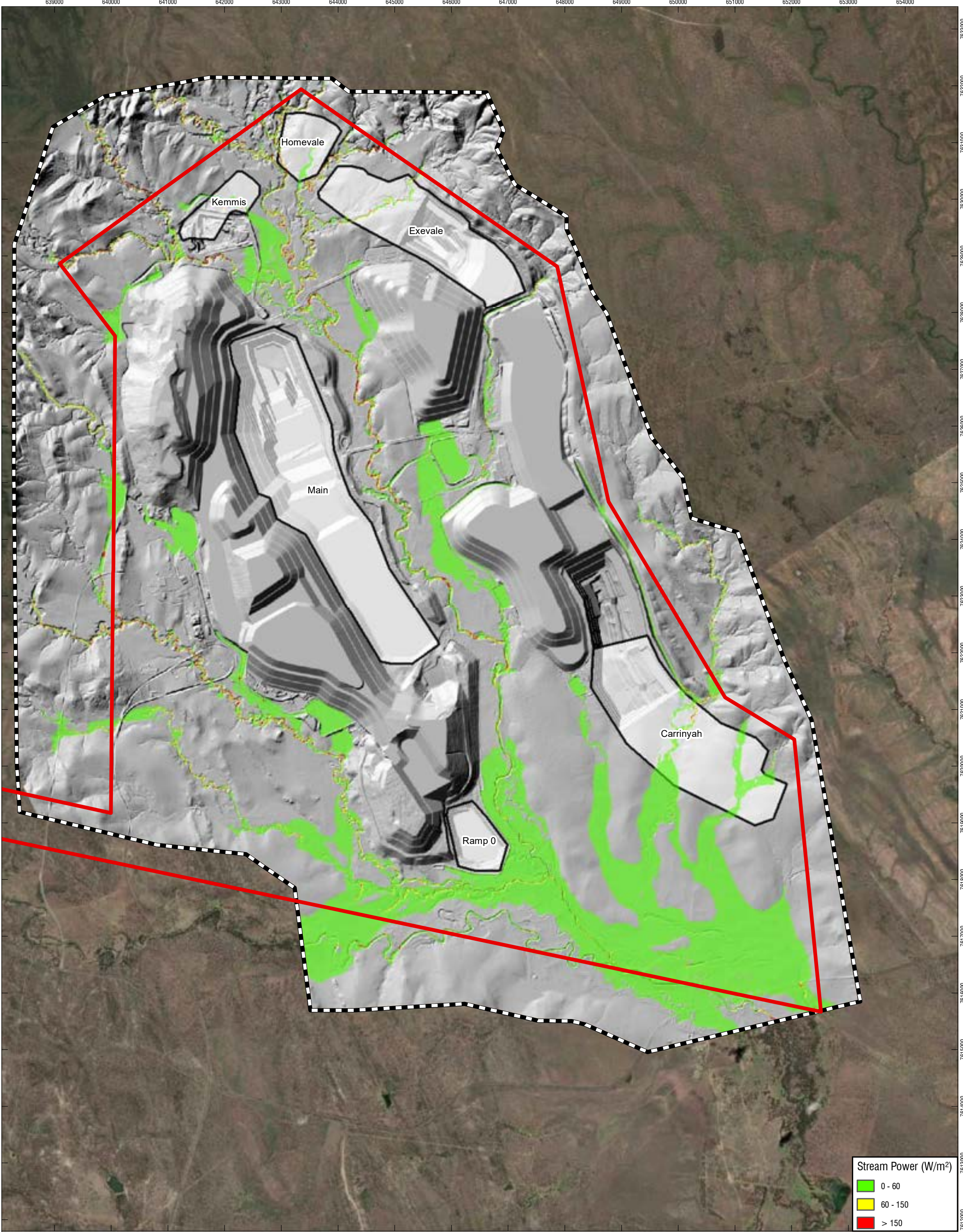
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Stream Power - 2% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-18_EXG08_50p_SP_SSP2-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Stream Power (W/m²)

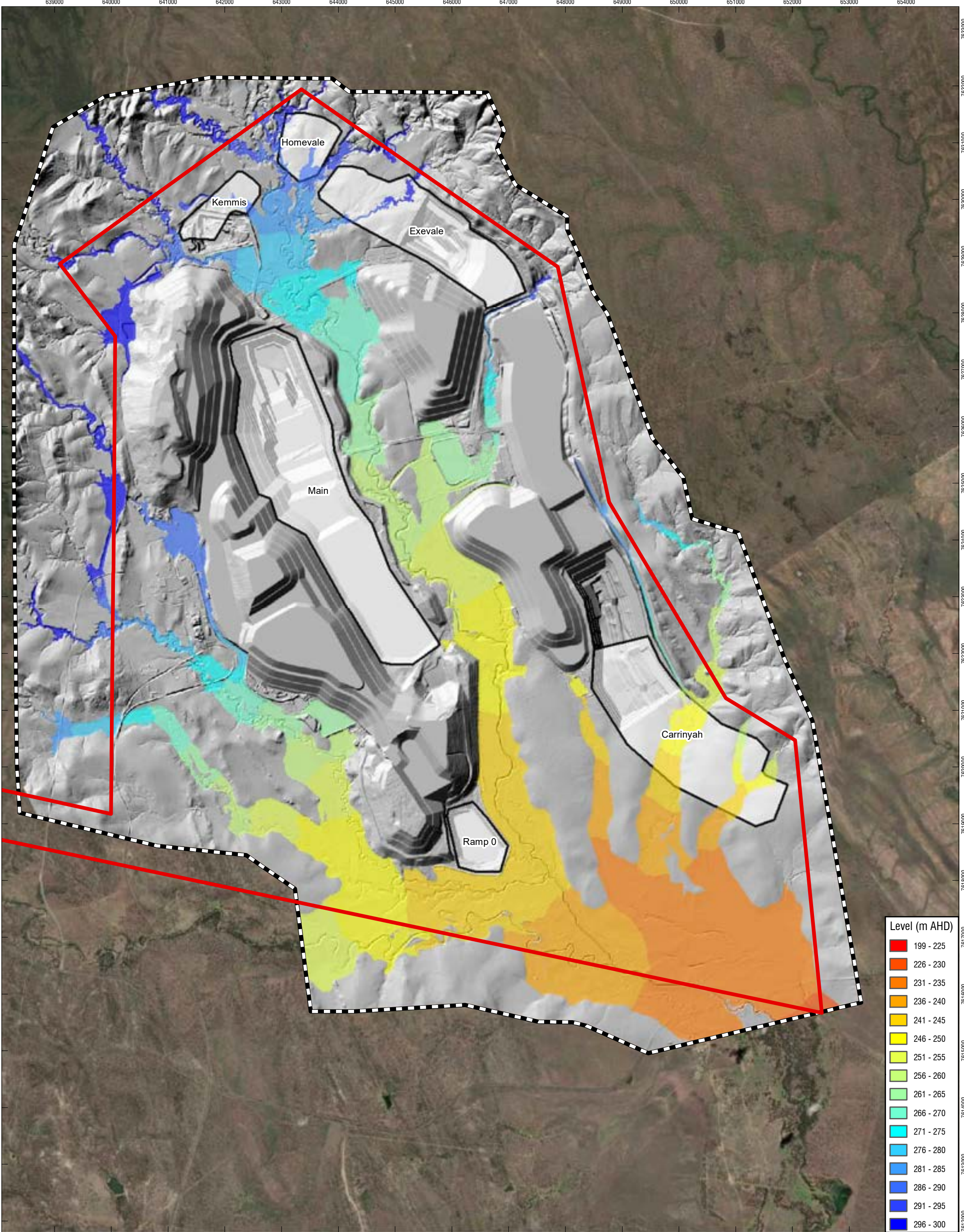
-  0 - 60
-  60 - 150
-  > 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Stream Power - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_A-APPENDIX D1-19_EXG08_1in1000_h_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

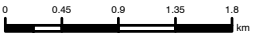
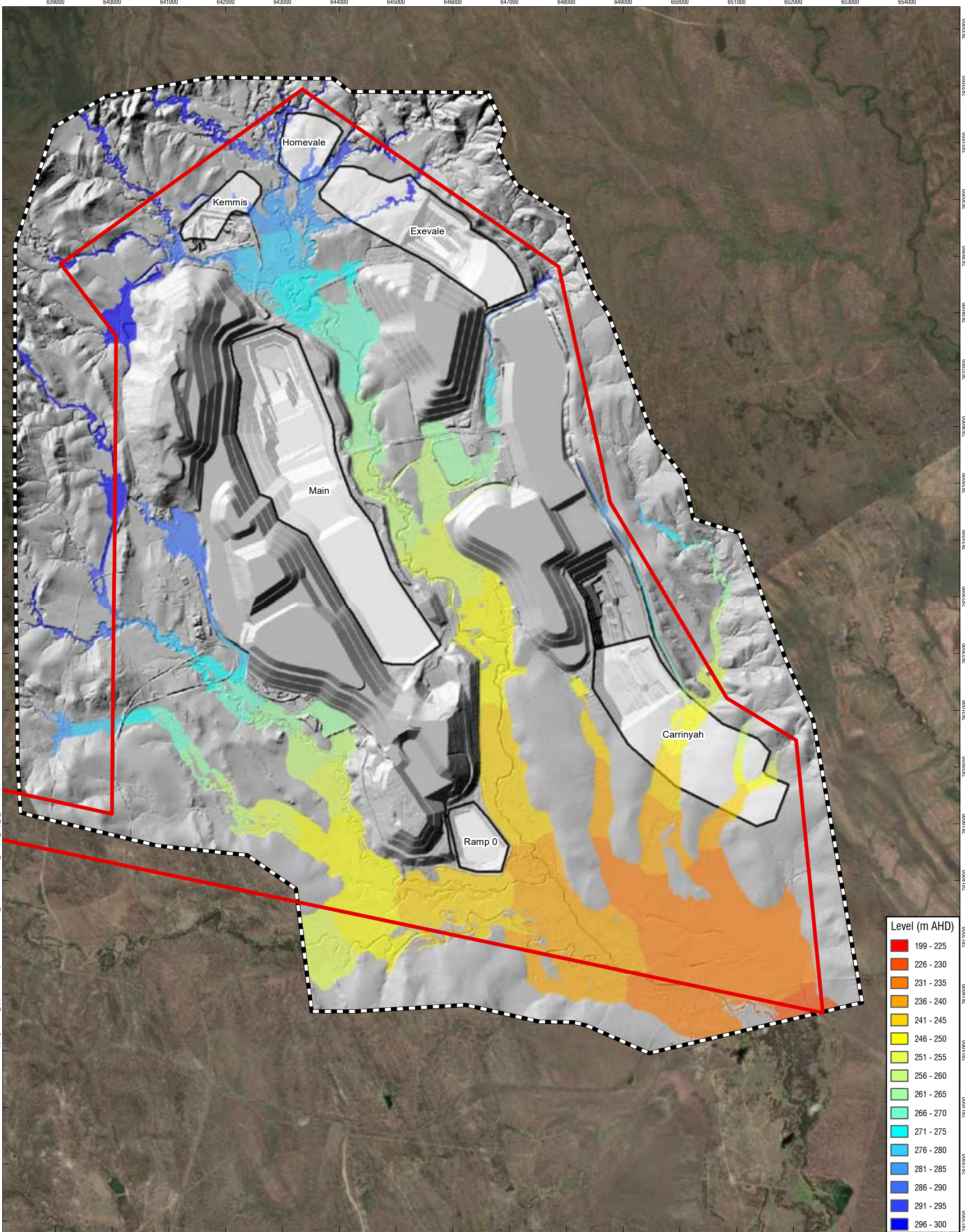
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 0.1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-20_EXG08_01p_h_SSP5-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

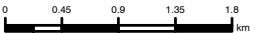
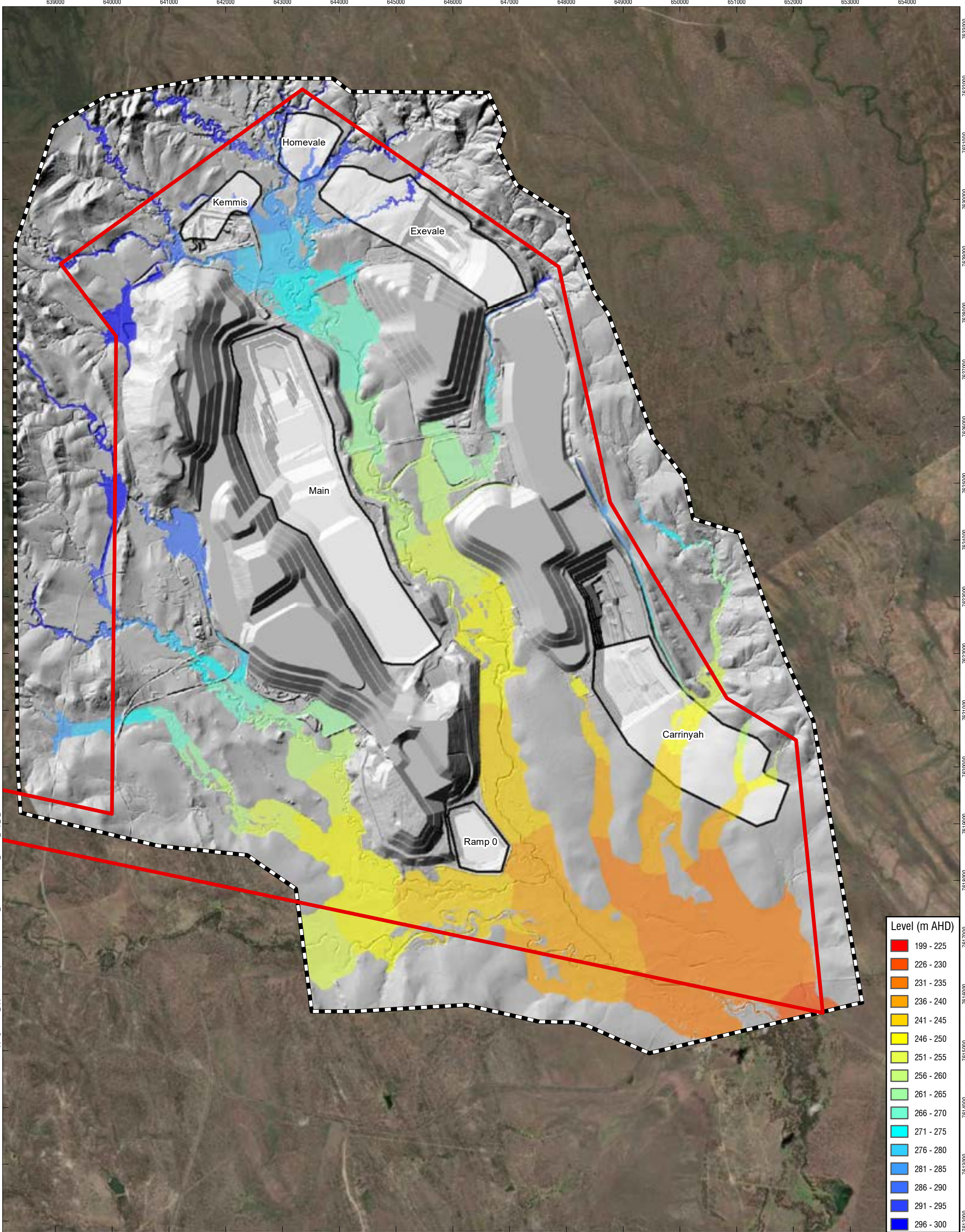
Level (m AHD)

- 199 - 225
- 226 - 230
- 231 - 235
- 236 - 240
- 241 - 245
- 246 - 250
- 251 - 255
- 256 - 260
- 261 - 265
- 266 - 270
- 271 - 275
- 276 - 280
- 281 - 285
- 286 - 290
- 291 - 295
- 296 - 300

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 1% AEP SSP5-2040

H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-21_EXG08_02p_h_SSP5-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

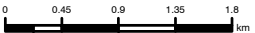
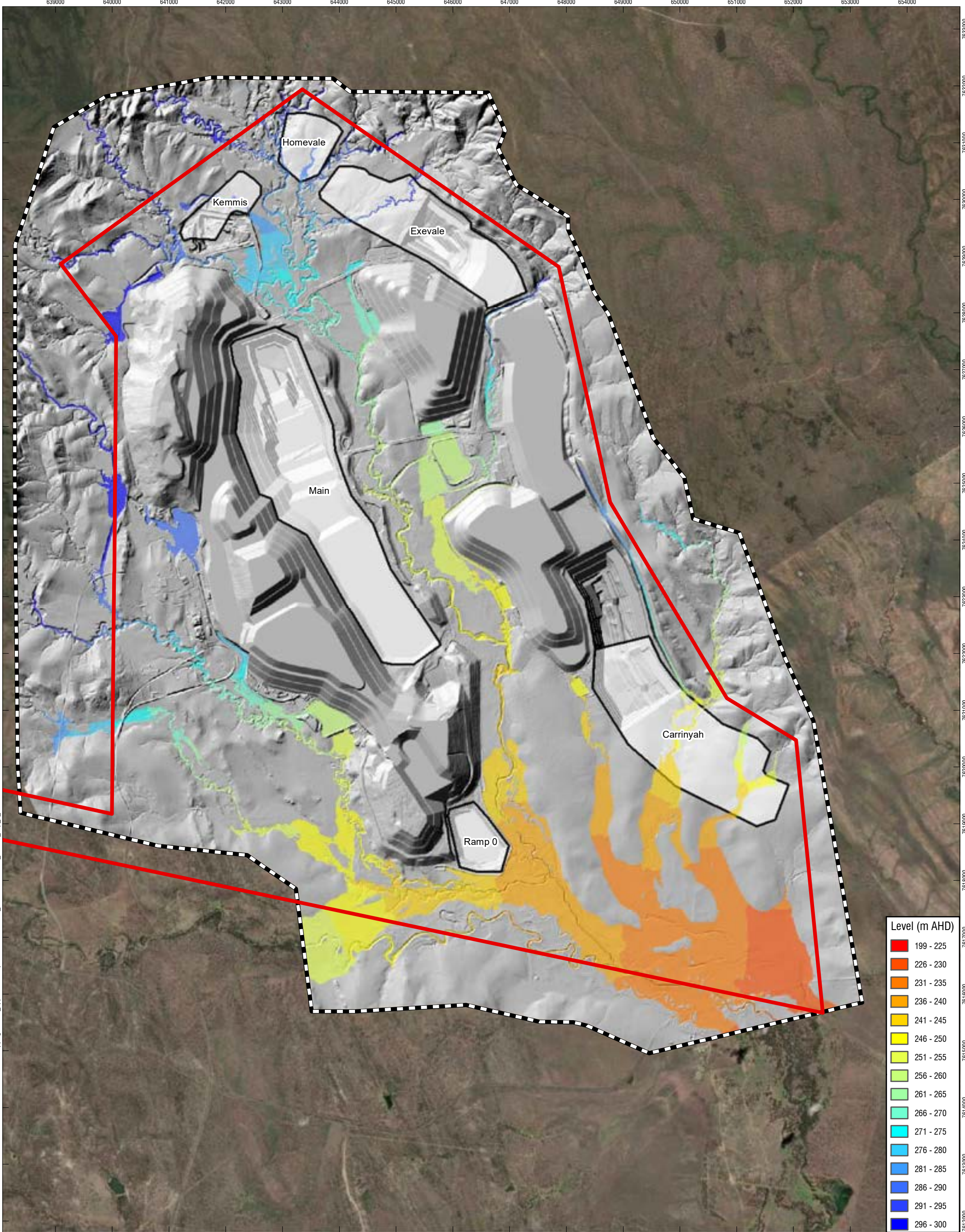
Level (m AHD)	
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	226 - 230
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	236 - 240
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	266 - 270
	271 - 275
	276 - 280
	281 - 285
	286 - 290
	291 - 295
	296 - 300

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-22_EXG08_50p_h_SSP5-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Level (m AHD)

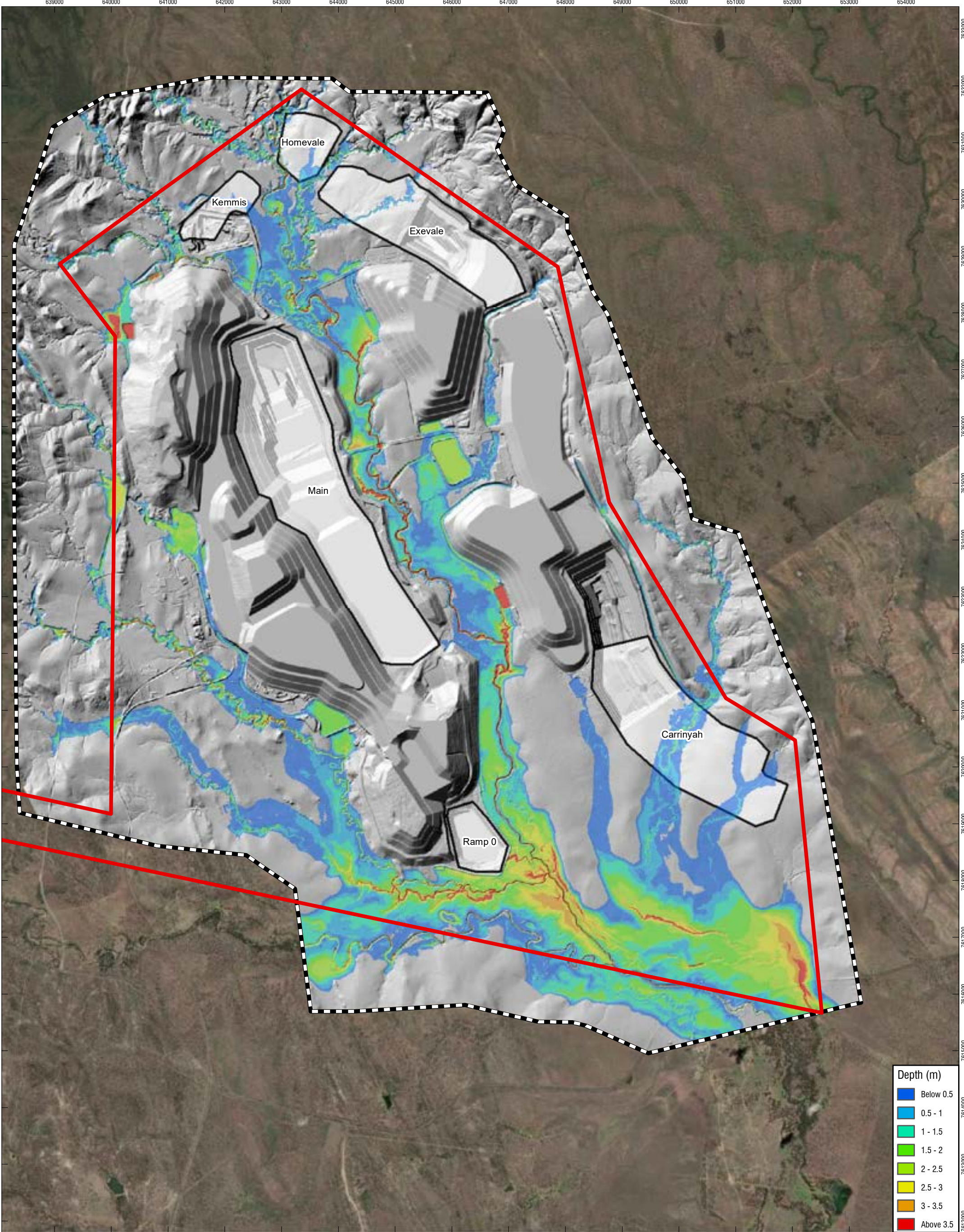
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- 226 - 230
- 231 - 235
- 236 - 240
- 241 - 245
- 246 - 250
- 251 - 255
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- 261 - 265
- 266 - 270
- 271 - 275
- 276 - 280
- 281 - 285
- 286 - 290
- 291 - 295
- 296 - 300

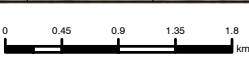
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Levels - 50% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-23_EXG08_1in1000_d_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

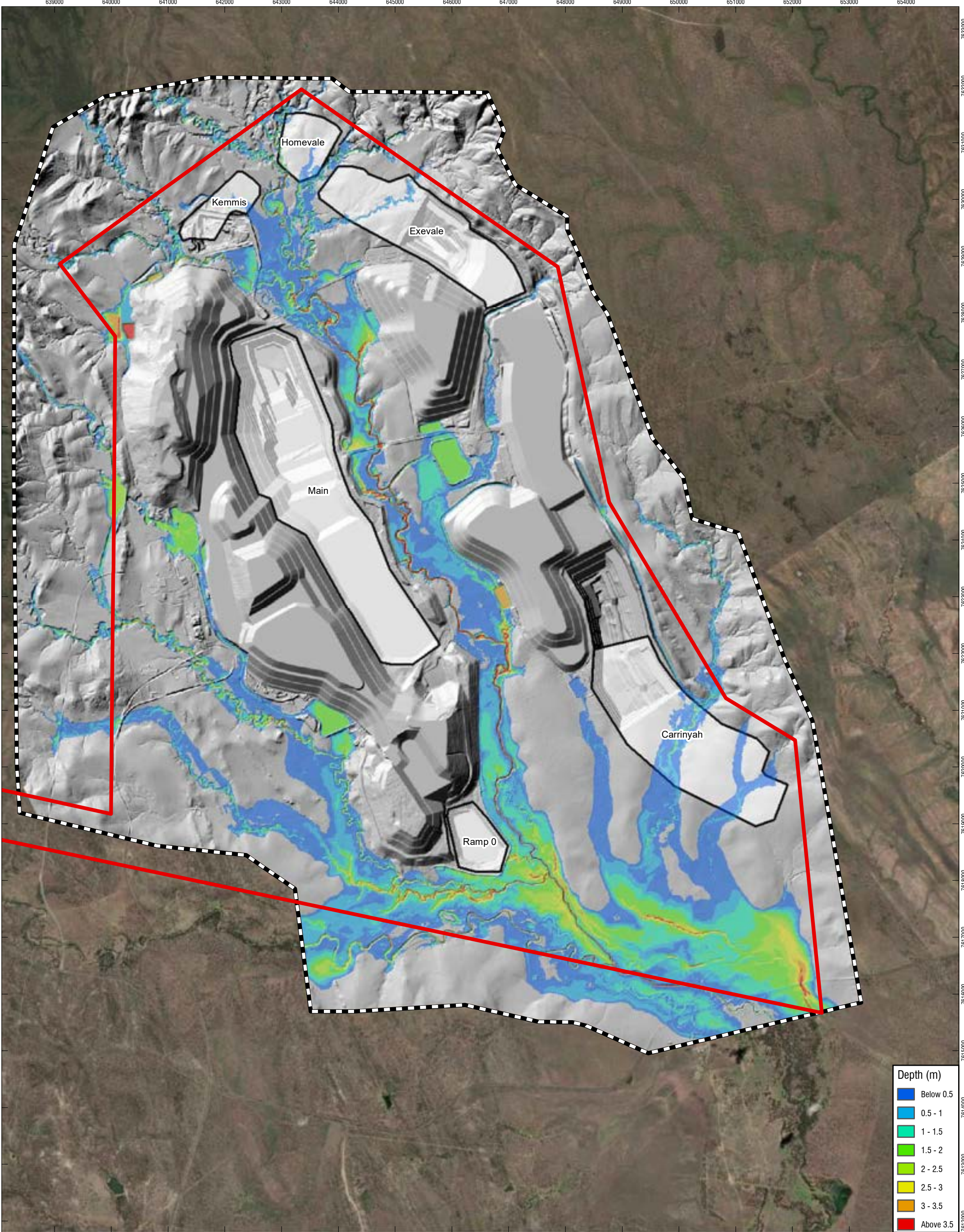
- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

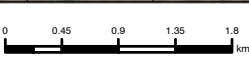
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 0.1% AEP SSP5-2040



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Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

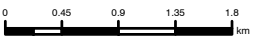
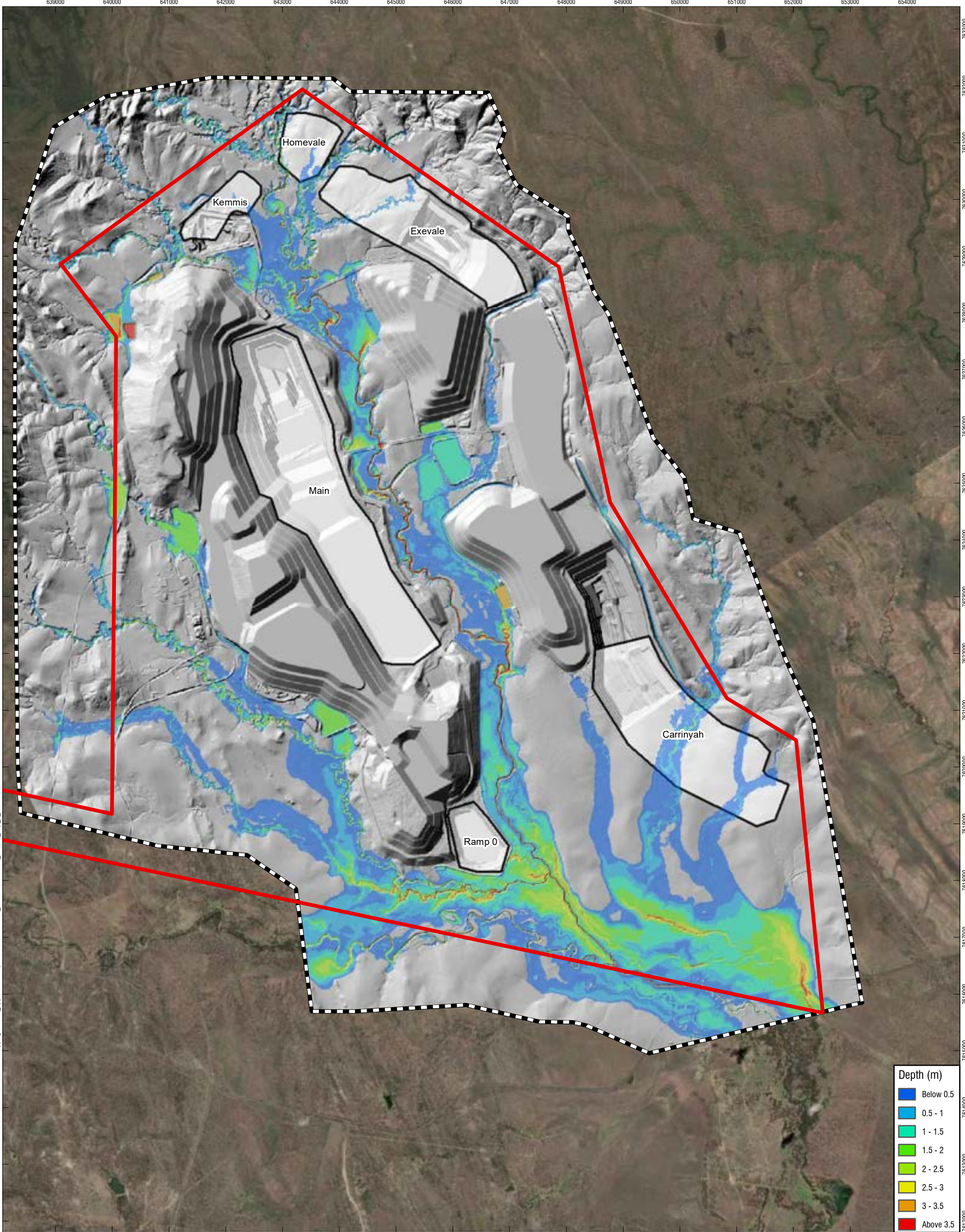
- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-25_EXG08_02p_d_SSP5-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Depth (m)

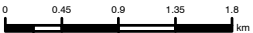
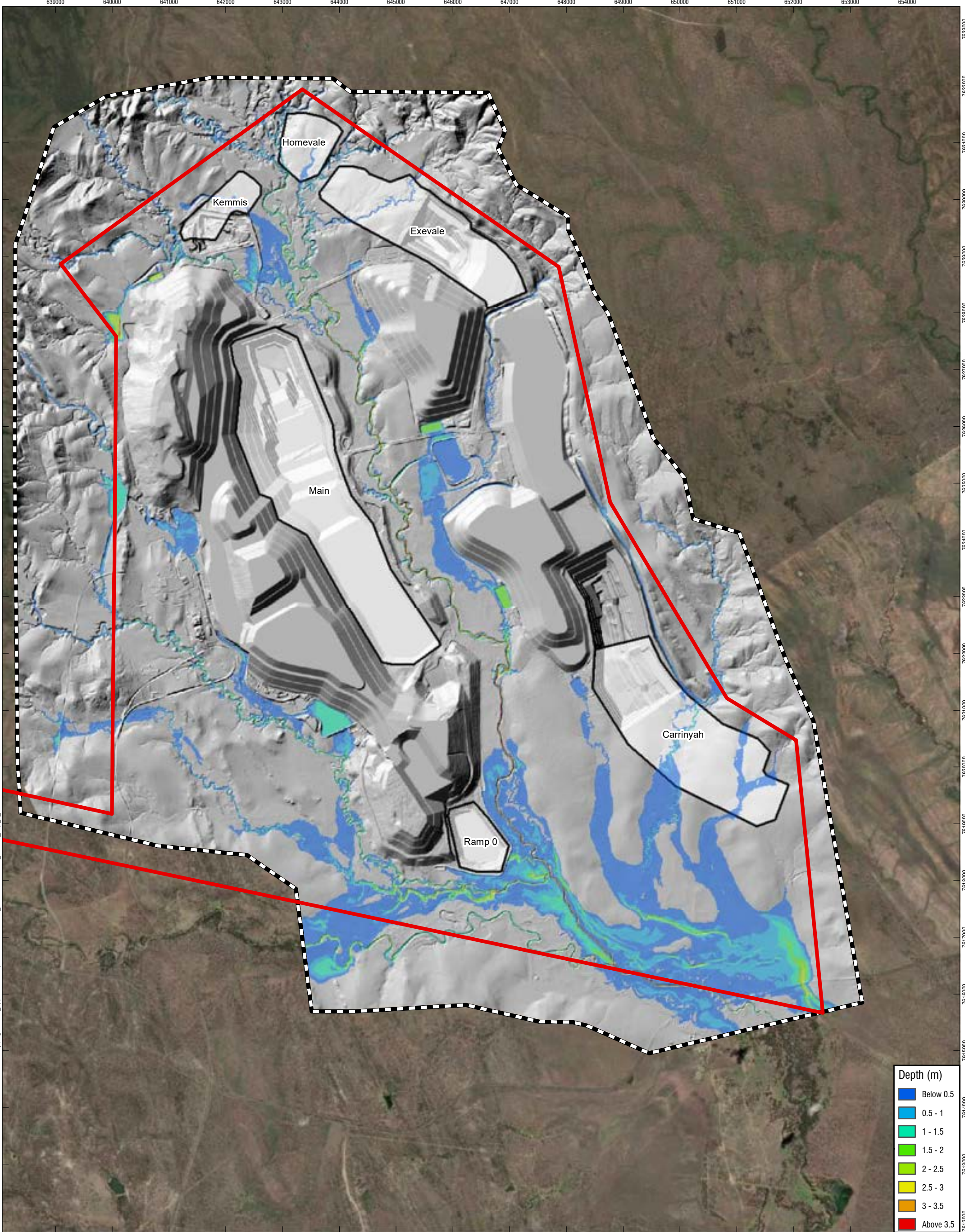
- Below 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 3.5
- Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-26_EXG08_50p_d_SSP5-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Depth (m)

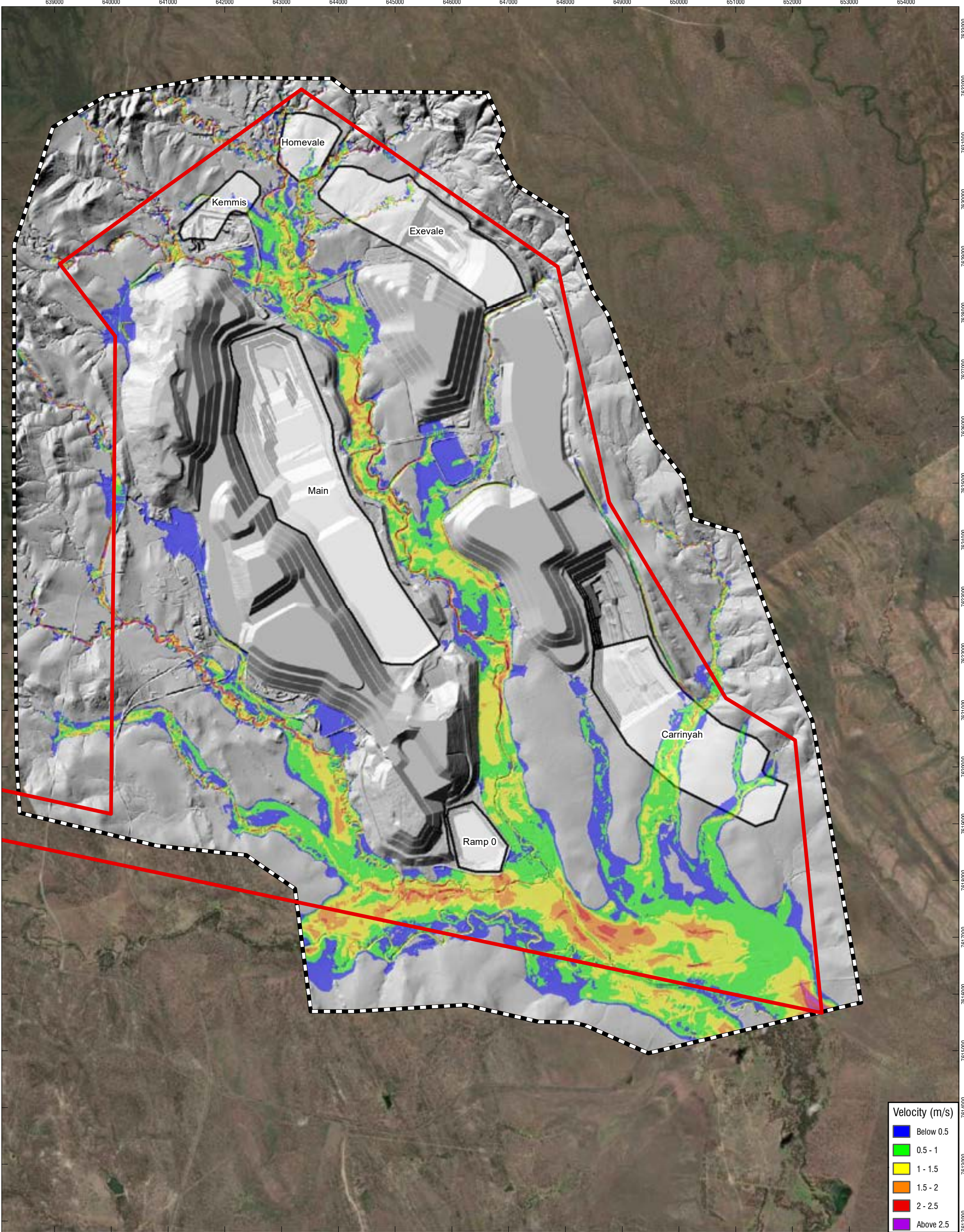
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- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 3.5
- Above 3.5

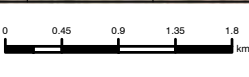
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Depths - 50% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-27_EXG08_1in1000_v_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

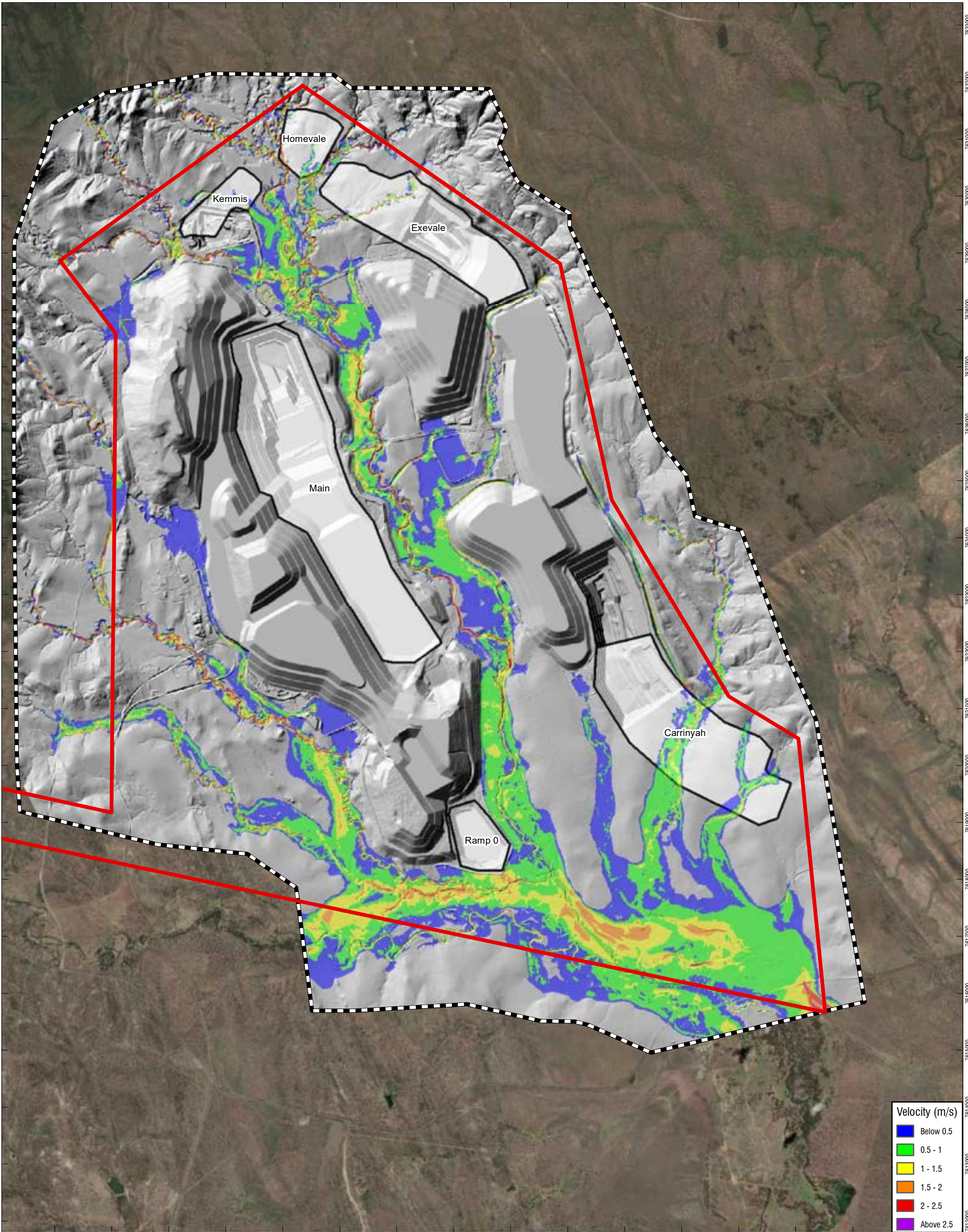
Velocity (m/s)	
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	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	Above 2.5

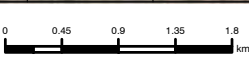
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 0.1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-28_EXG08_01p_v_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

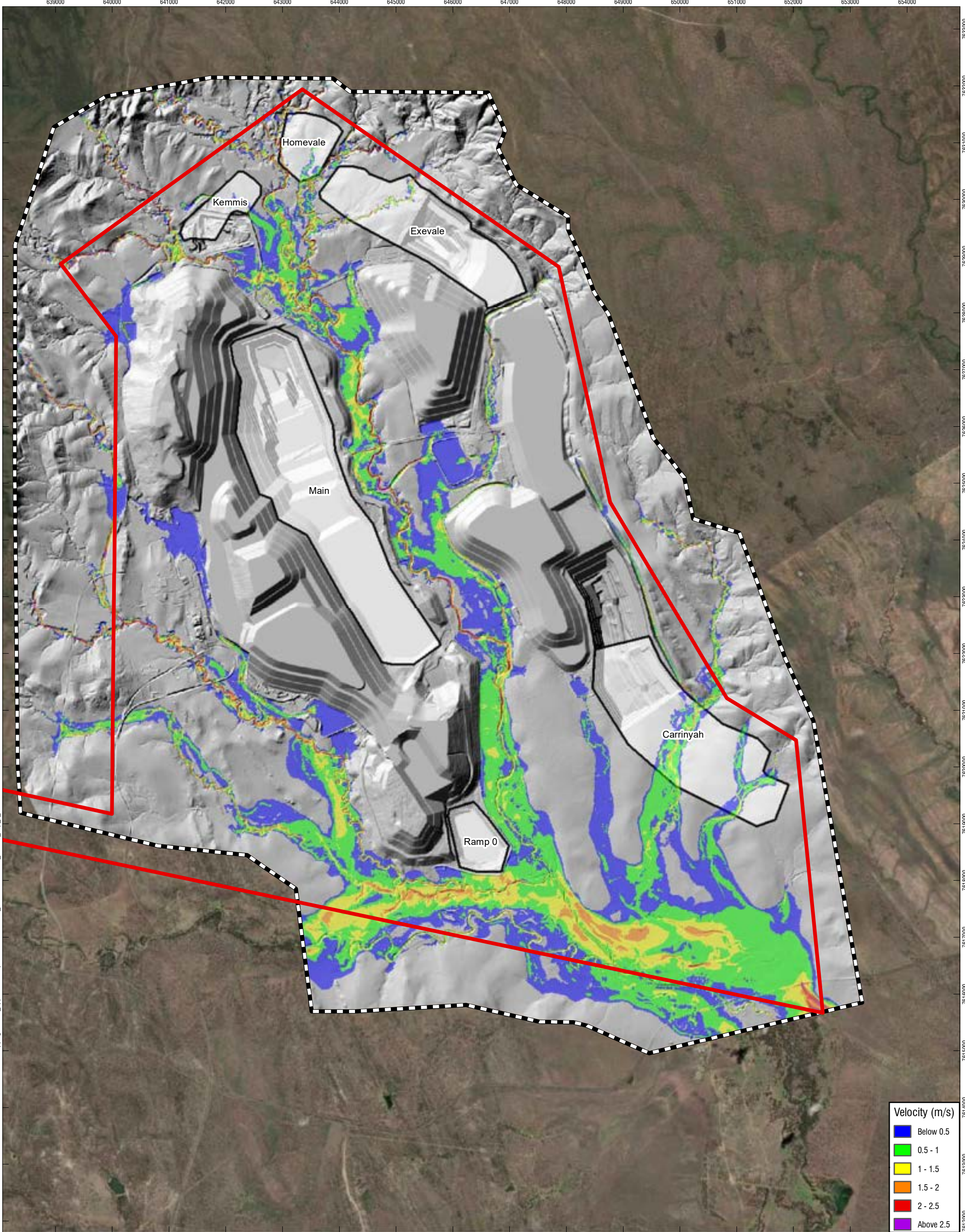
- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents



Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 1% AEP SSP5-2040

H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-29_EXG08_02p_v_SSP5-2040.mxd



0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Velocity (m/s)

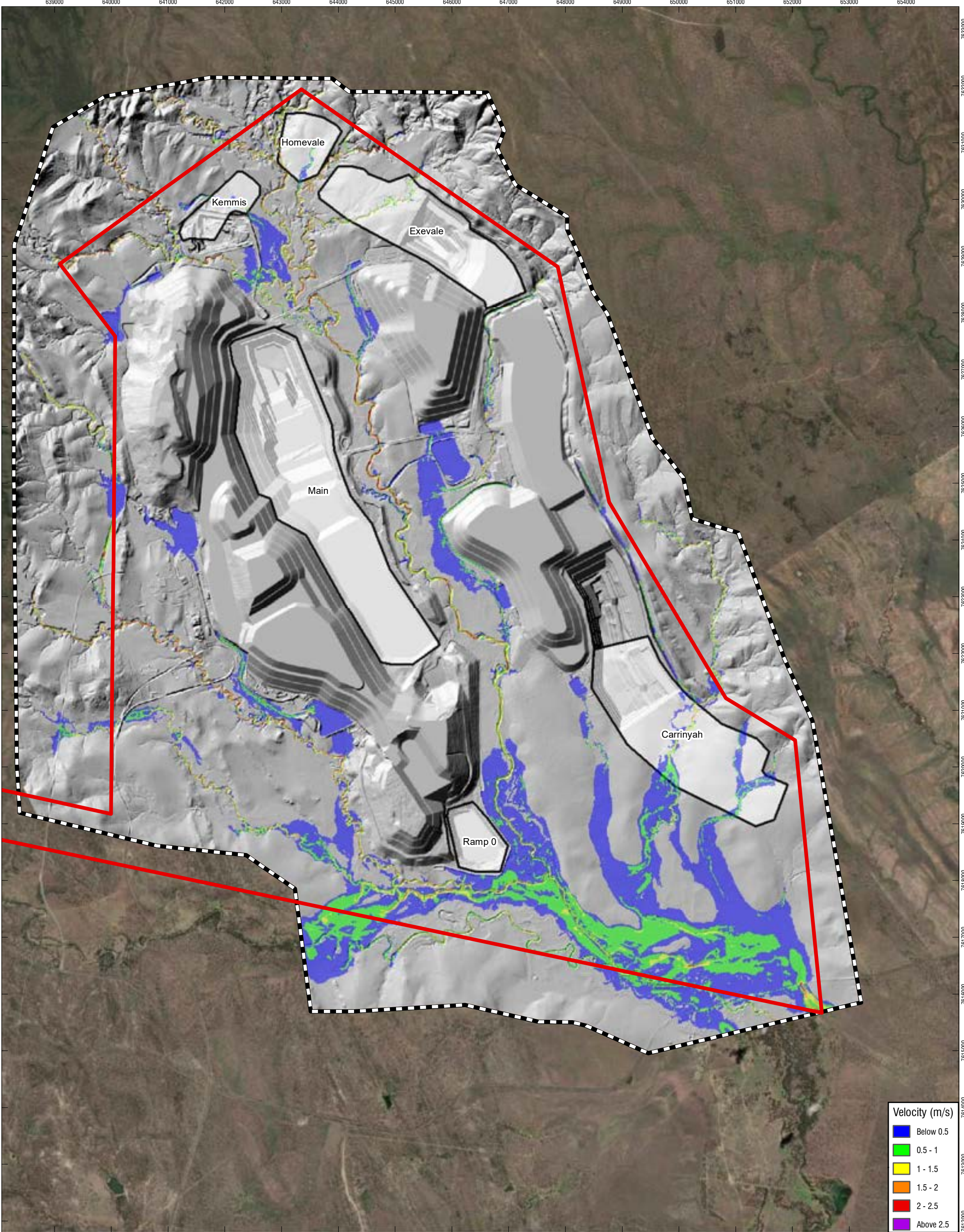
- Below 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- Above 2.5

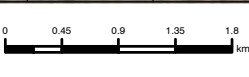
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-30_EXG08_50p_v_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

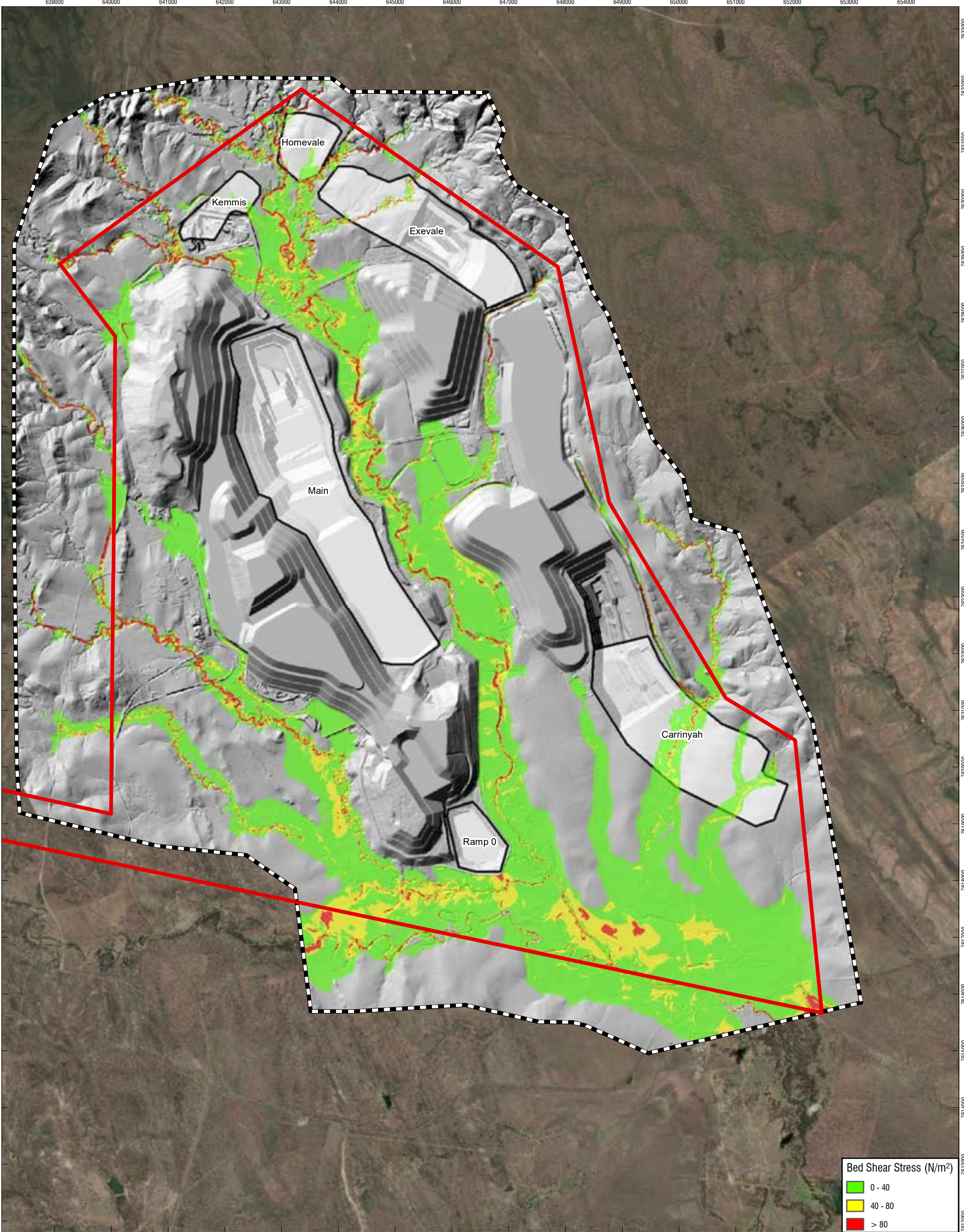
Velocity (m/s)	
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	1 - 1.5
	1.5 - 2
	2 - 2.5
	Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Velocities - 50% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\WXD\626 30128_A\APPENDIX D1-31_EXG08_1in1000_BSS_SSPP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

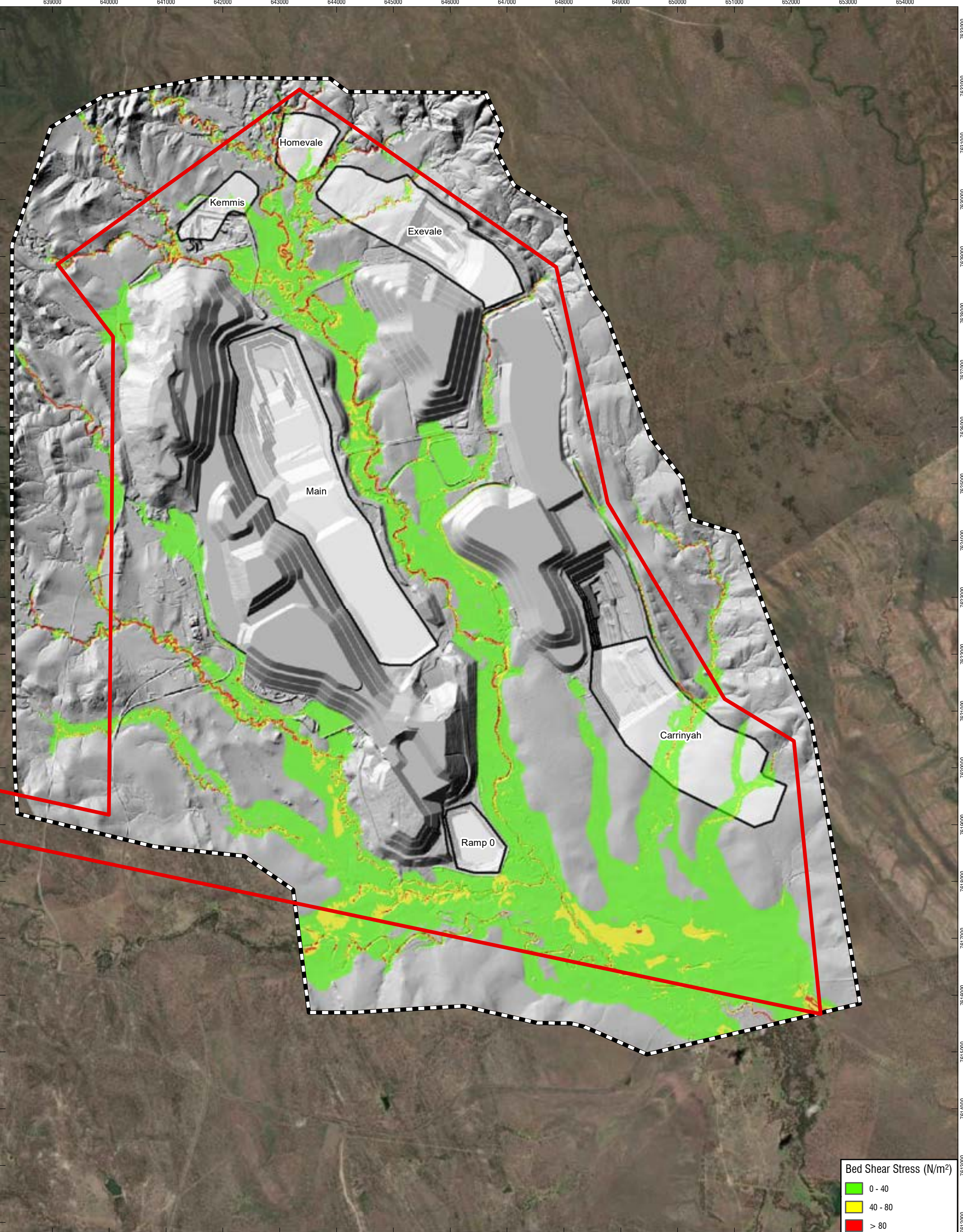
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 0.1% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_APPENDIX D1-32_EXG08_01p_BSS_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

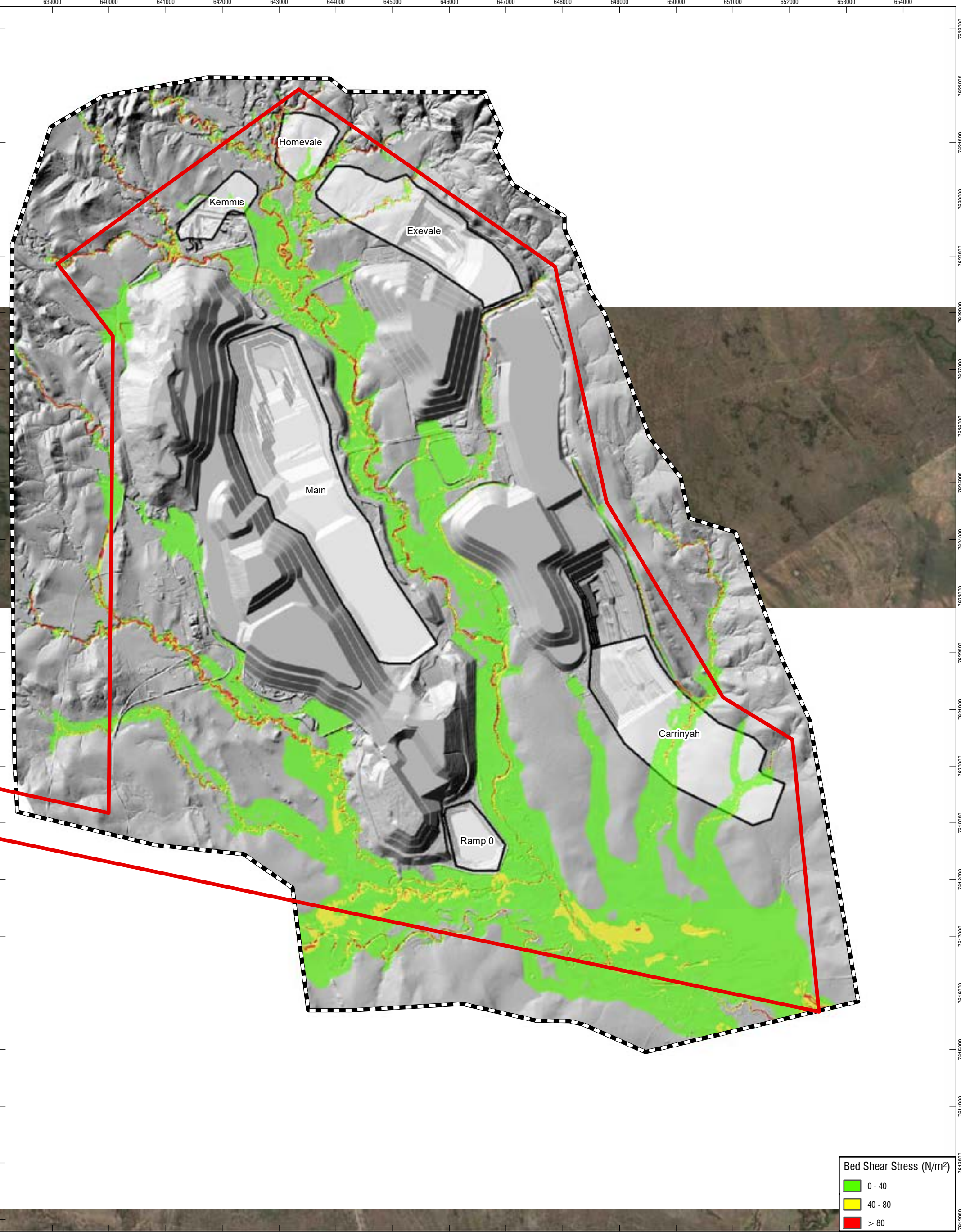
Bed Shear Stress (N/m²)
 0 - 40
 40 - 80
 > 80

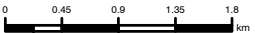
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 1% AEP SSP5-2040



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Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Bed Shear Stress (N/m²)

 0 - 40

 40 - 80

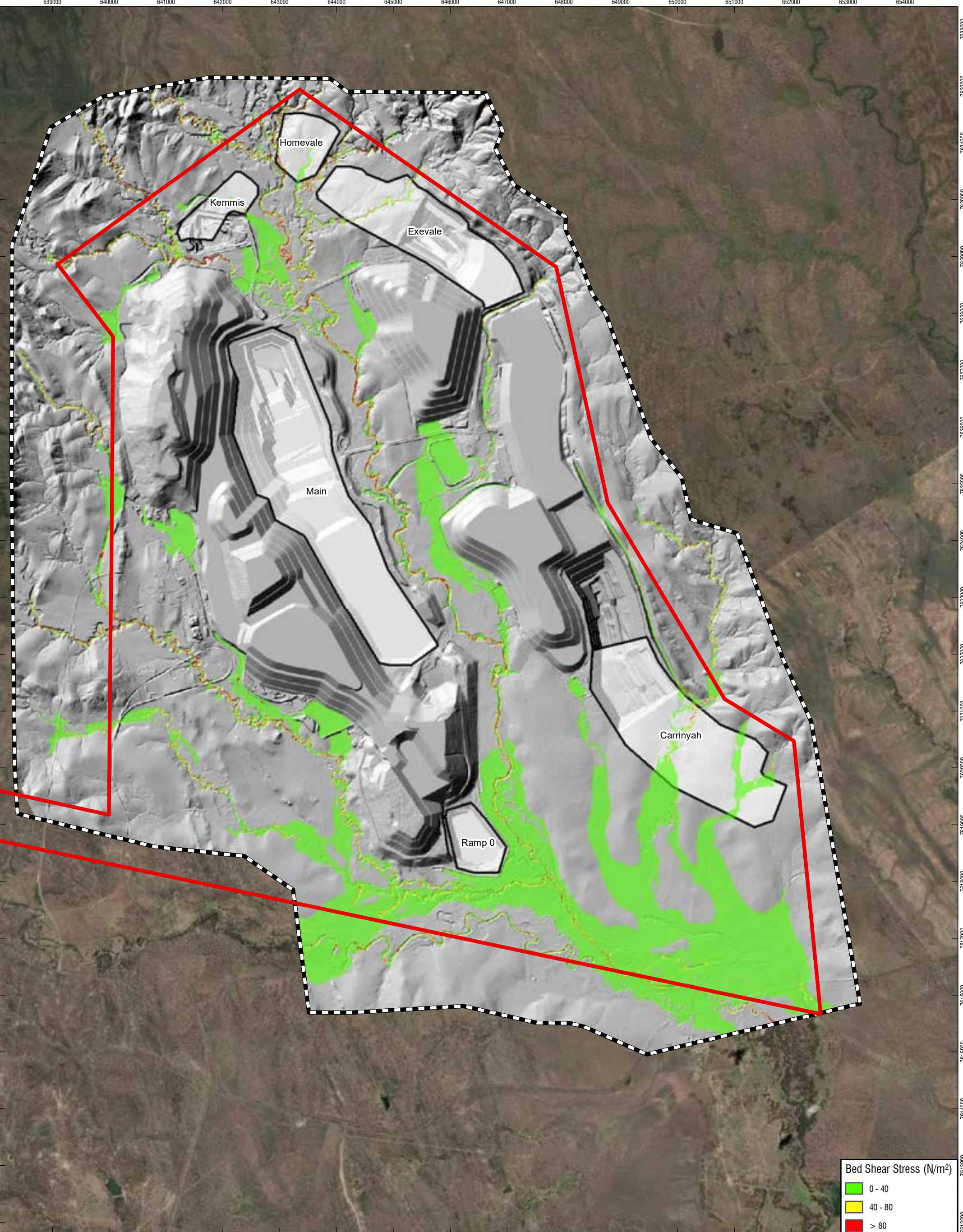
 > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-34_EXG08_50p_BSS_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

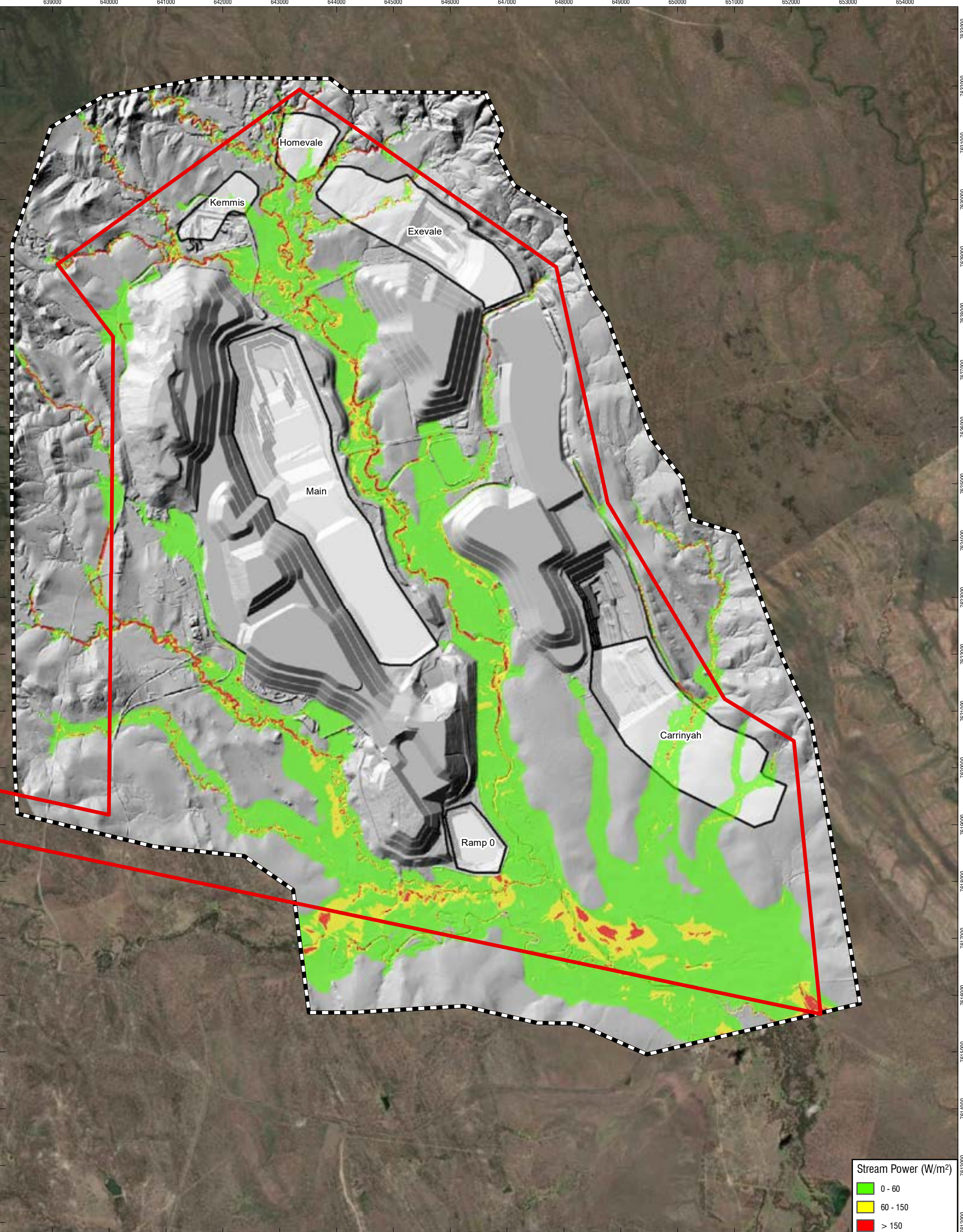
Bed Shear Stress (N/m ²)	
	0 - 40
	40 - 80
	> 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Bed Shear Stress - 50% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_A\APPENDIX D1-35_EXG08_1in1000_SP_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

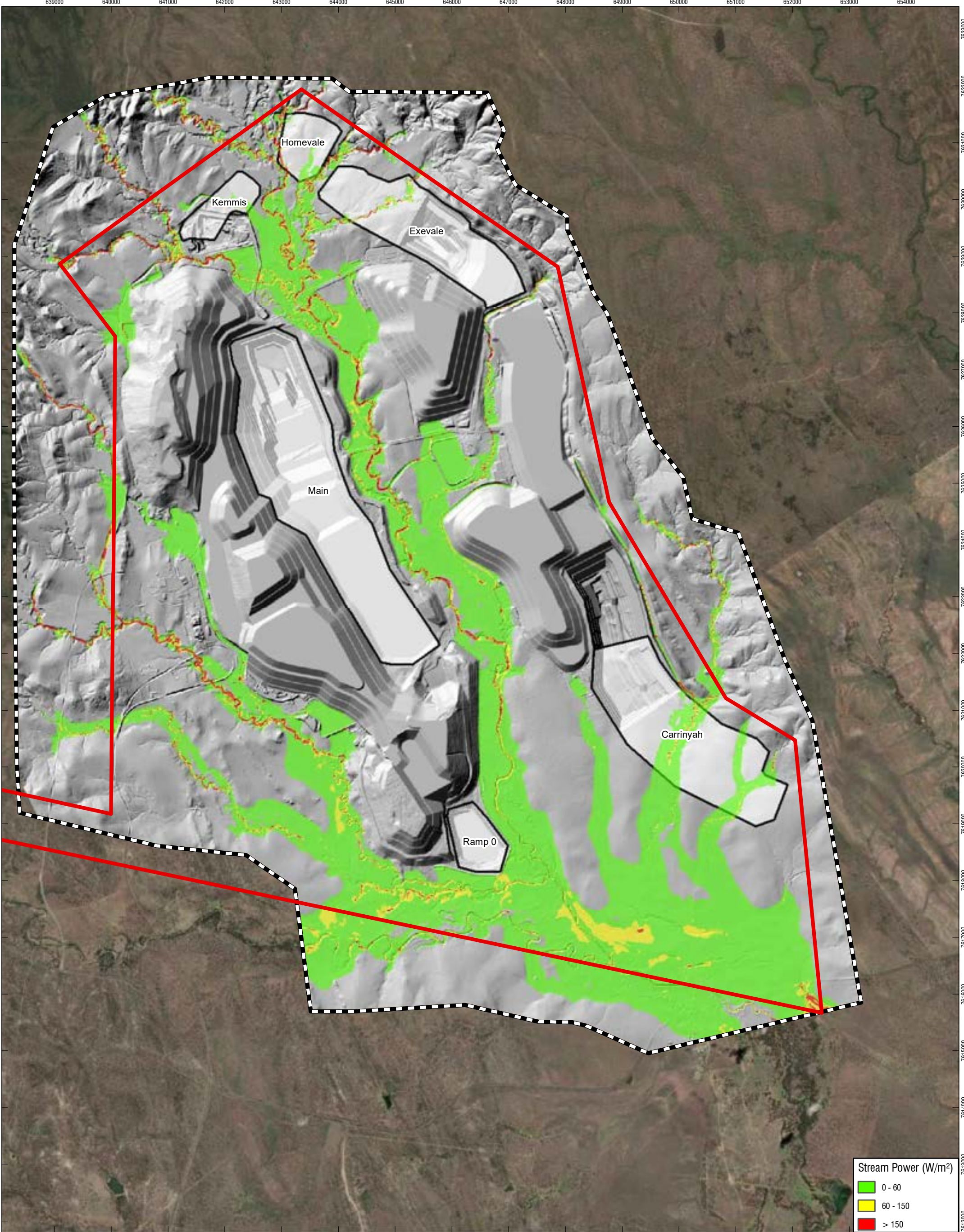
Stream Power (W/m ²)	
	0 - 60
	60 - 150
	> 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Stream Power - 0.1% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626 30128_A\APPENDIX D1-36_EXG08_01p_SP_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

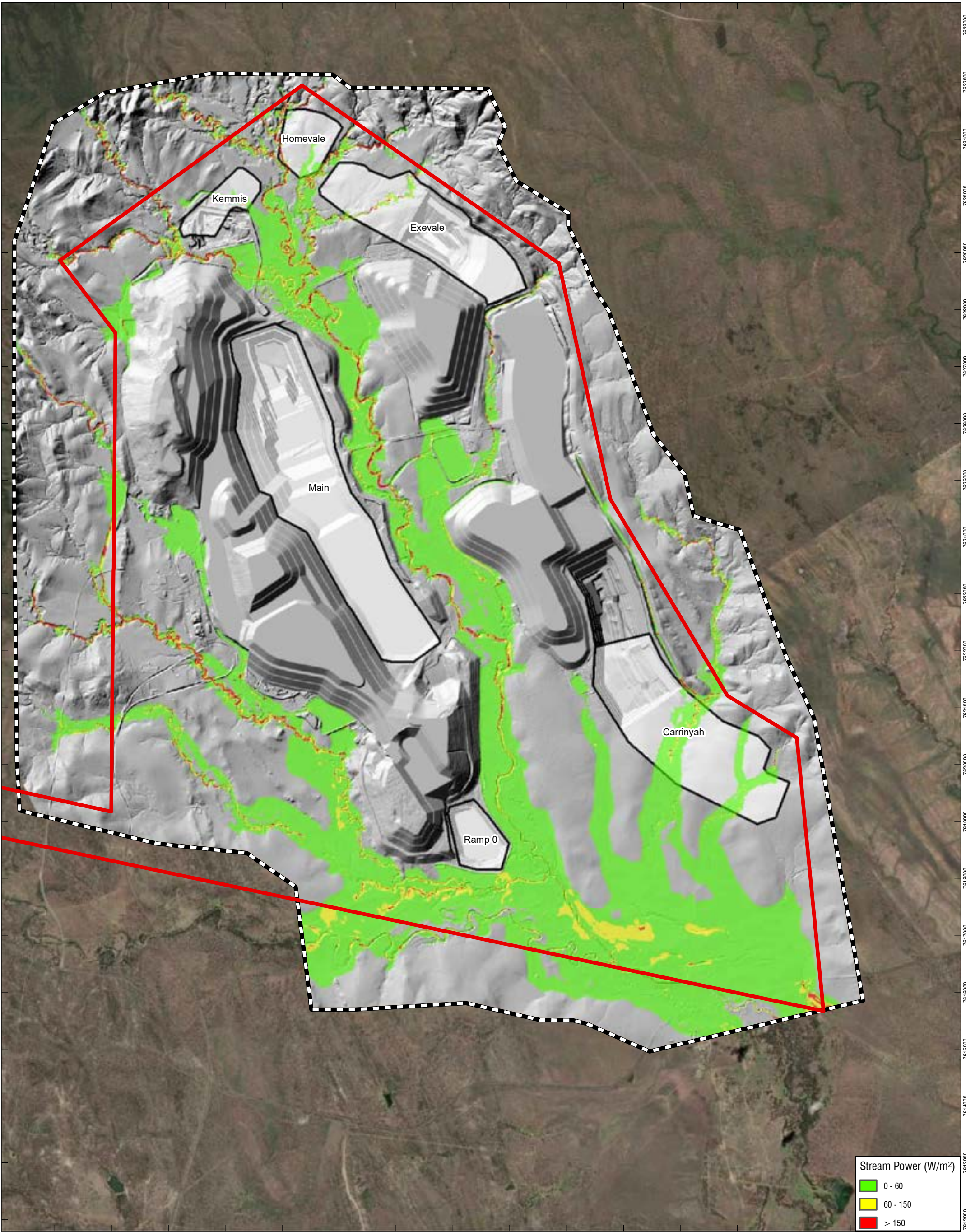
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Stream Power - 1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXD\626-30128_APPENDIX D1-37_EXG08_02p_SP_SSP5-2040.mxd





0

0.45

0.9

1.35

1.8

km

Coordinate System:

GDA 1994 MGA Zone 55

Scale:

1:60,000 at A3

Project Number:

626.30099

Date:

16-Sep-2025

Drawn by:

HM

- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Stream Power (W/m²)



0 - 60



60 - 150



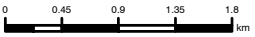
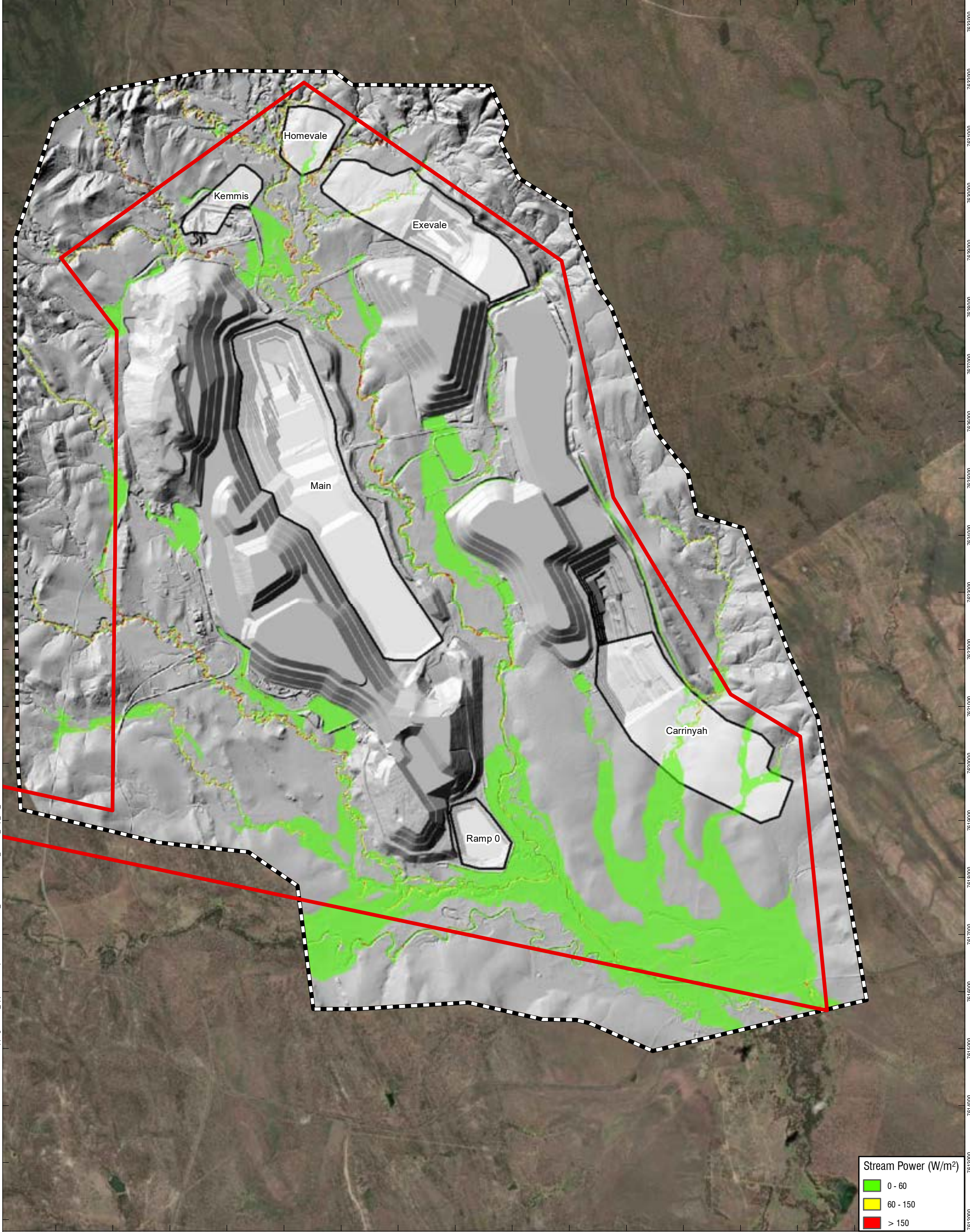
> 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Stream Power - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626-30128-00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS\Surface Water\Auto Mapping\EXG08_AppendixD1\Output\MXDs\626-30128_APPENDIX D1-38_EXG08_50p_SP_SSP5-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

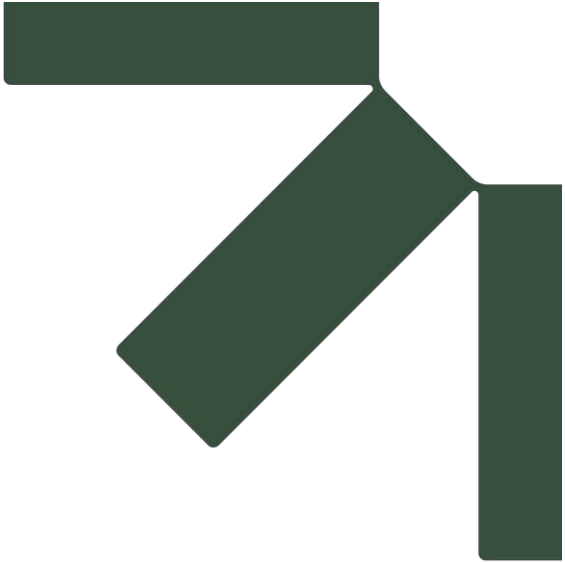
Stream Power (W/m^2)

- 0 - 60
- 60 - 150
- > 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Baseline Conditions (EXG08)
Peak Flood Stream Power - 50% AEP SSP5-2040





Appendix E TUFLOW Results – Extended Footprint Scenario

Hail Creek Open Cut Eastern Margin Extension

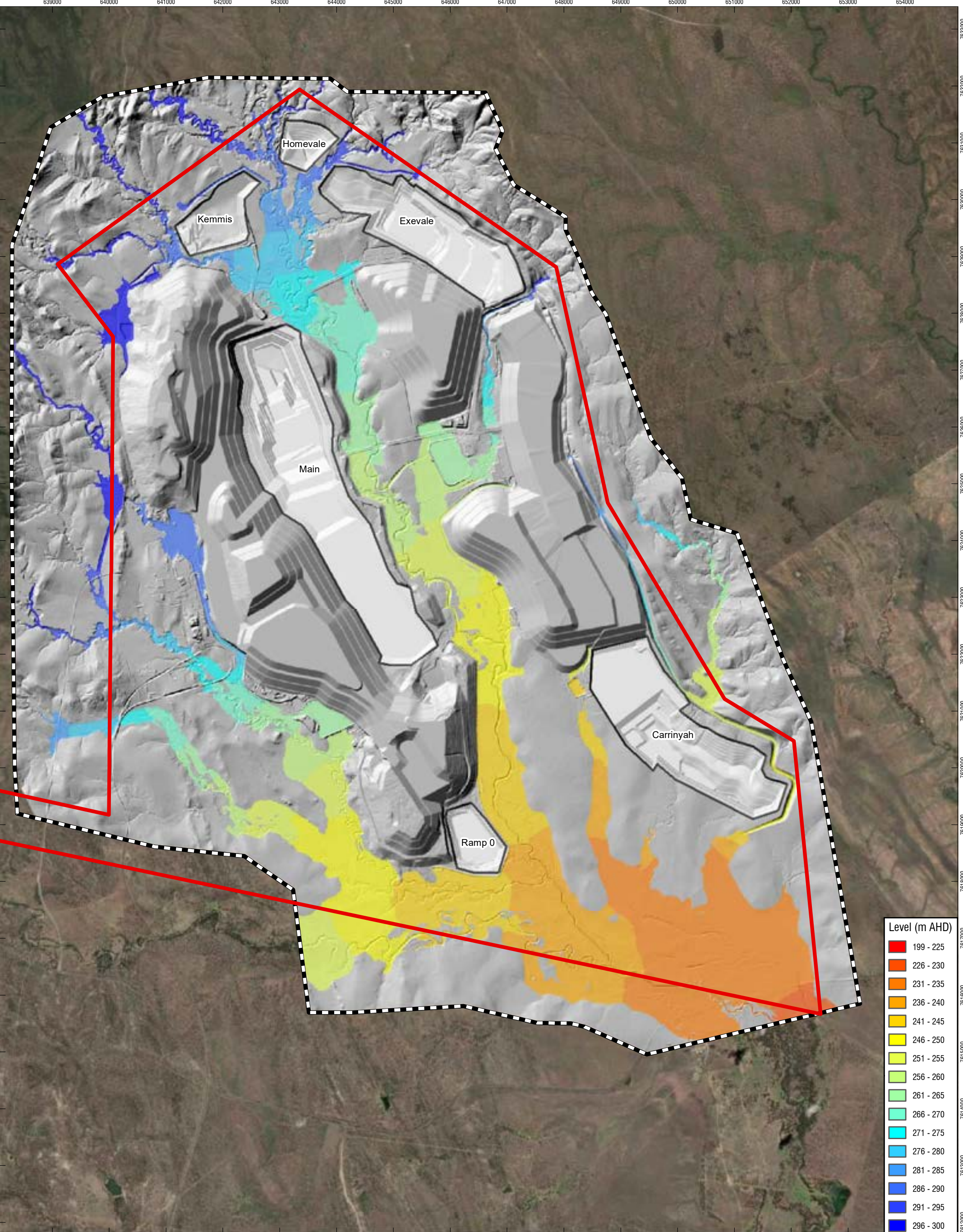
Replacement Surface Water Assessment

Hail Creek Coal Holdings Pty Limited

SLR Project No.: 626.V30128.00017

12 November 2025

H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E1-1_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

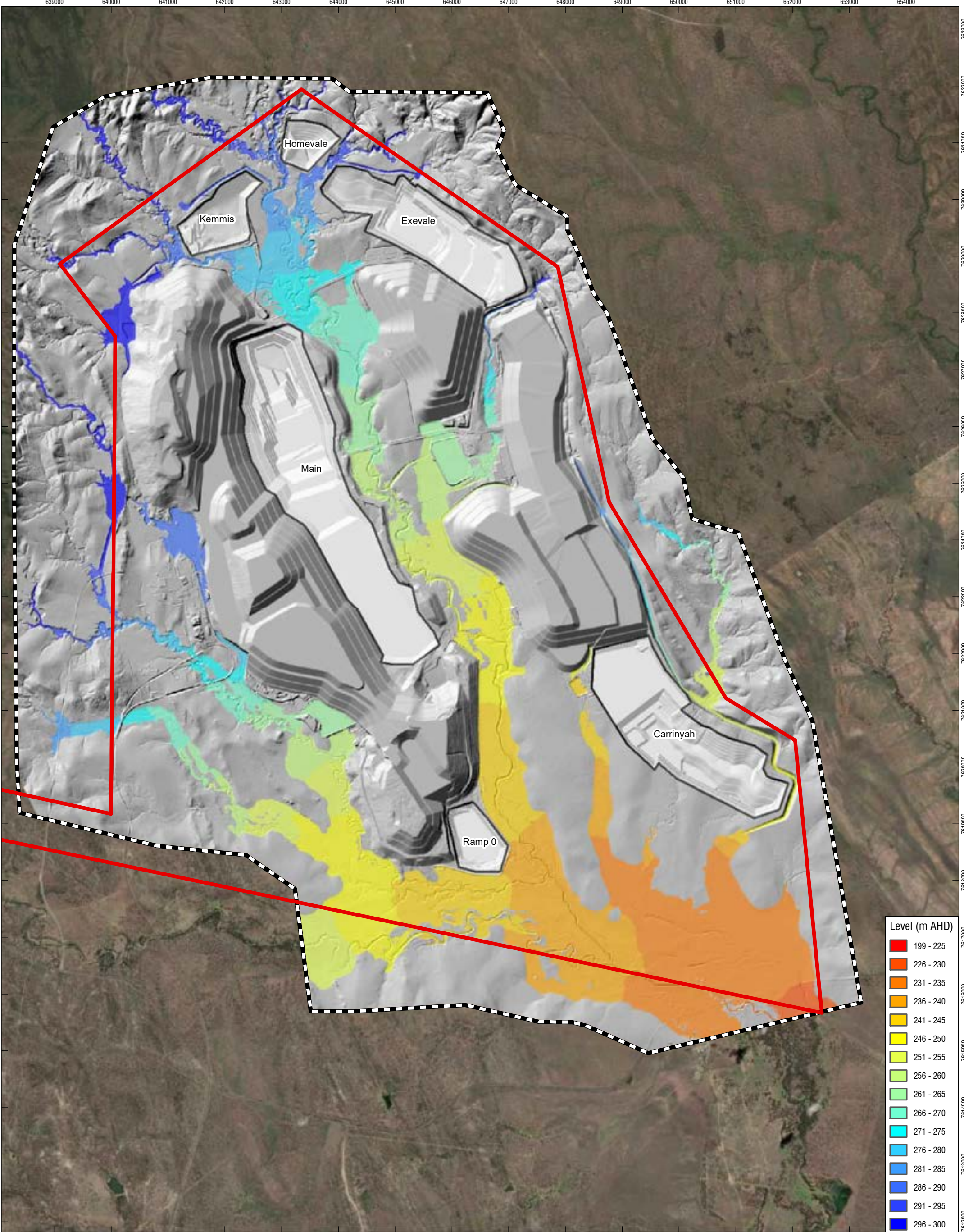
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - 1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E1-2_SSP2-2040.mxd




0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

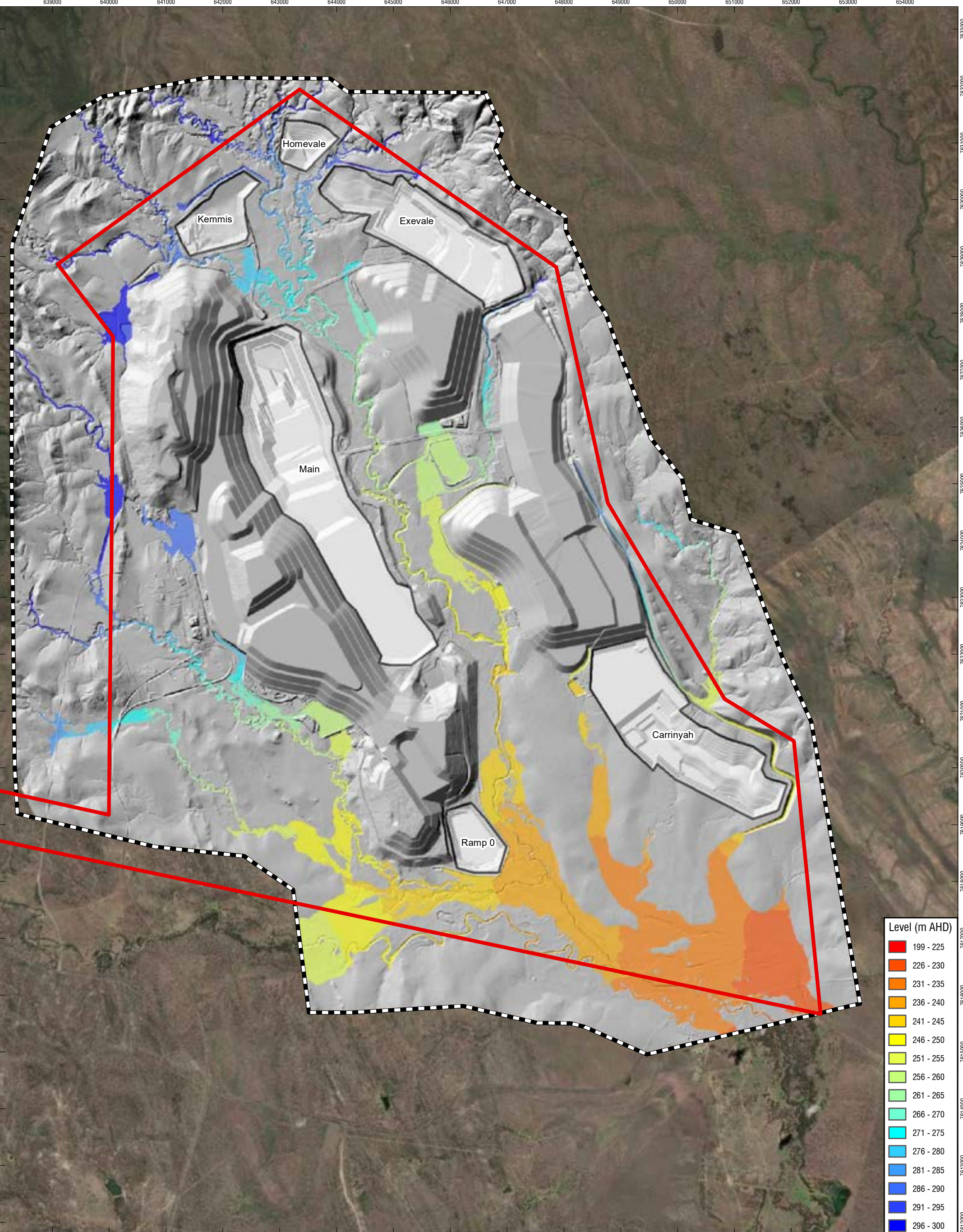
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - 2% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E1-3_EA21_50p_L_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

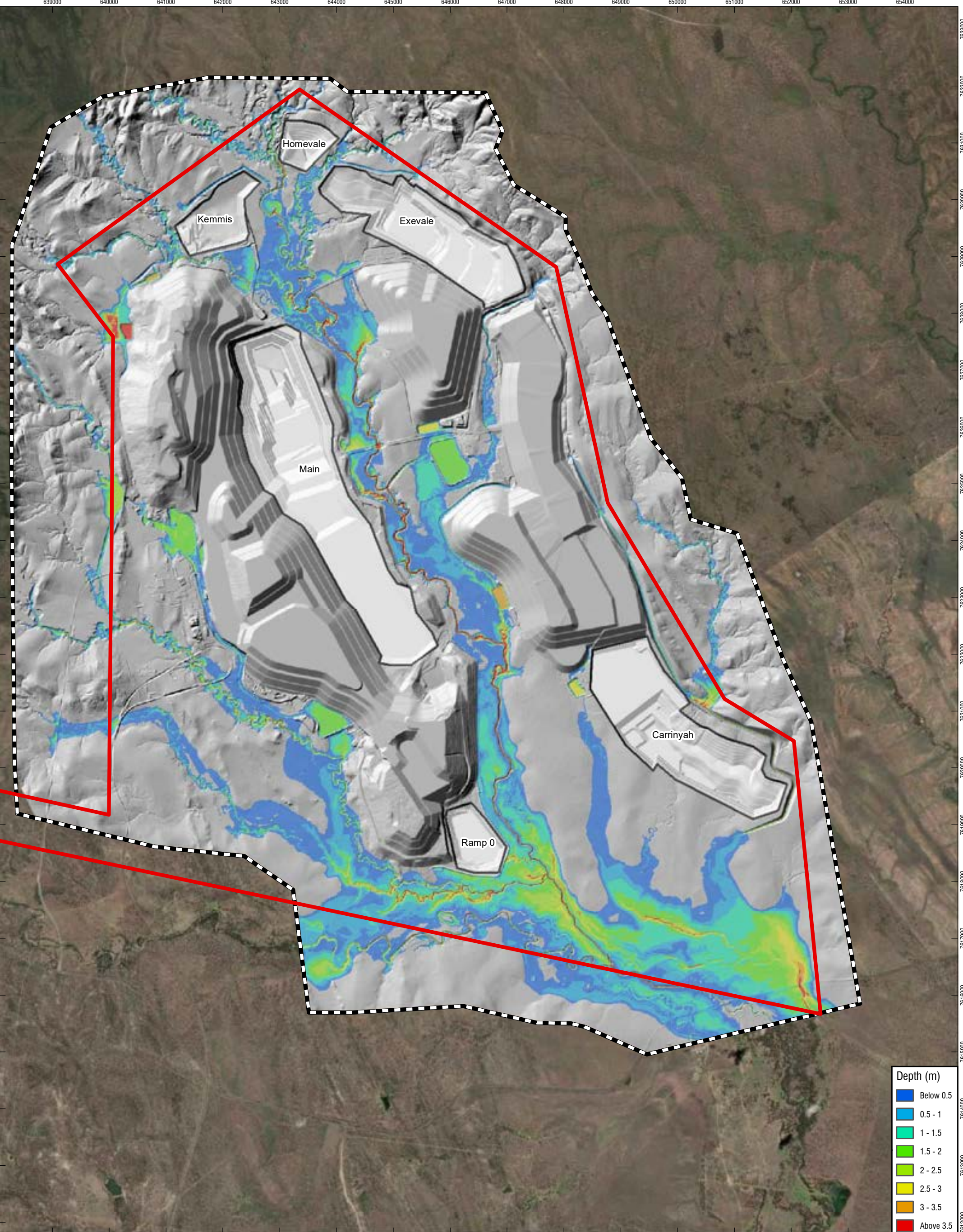
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E1-4_EA21_01p_d_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

 Pit Extents

Depth (m)

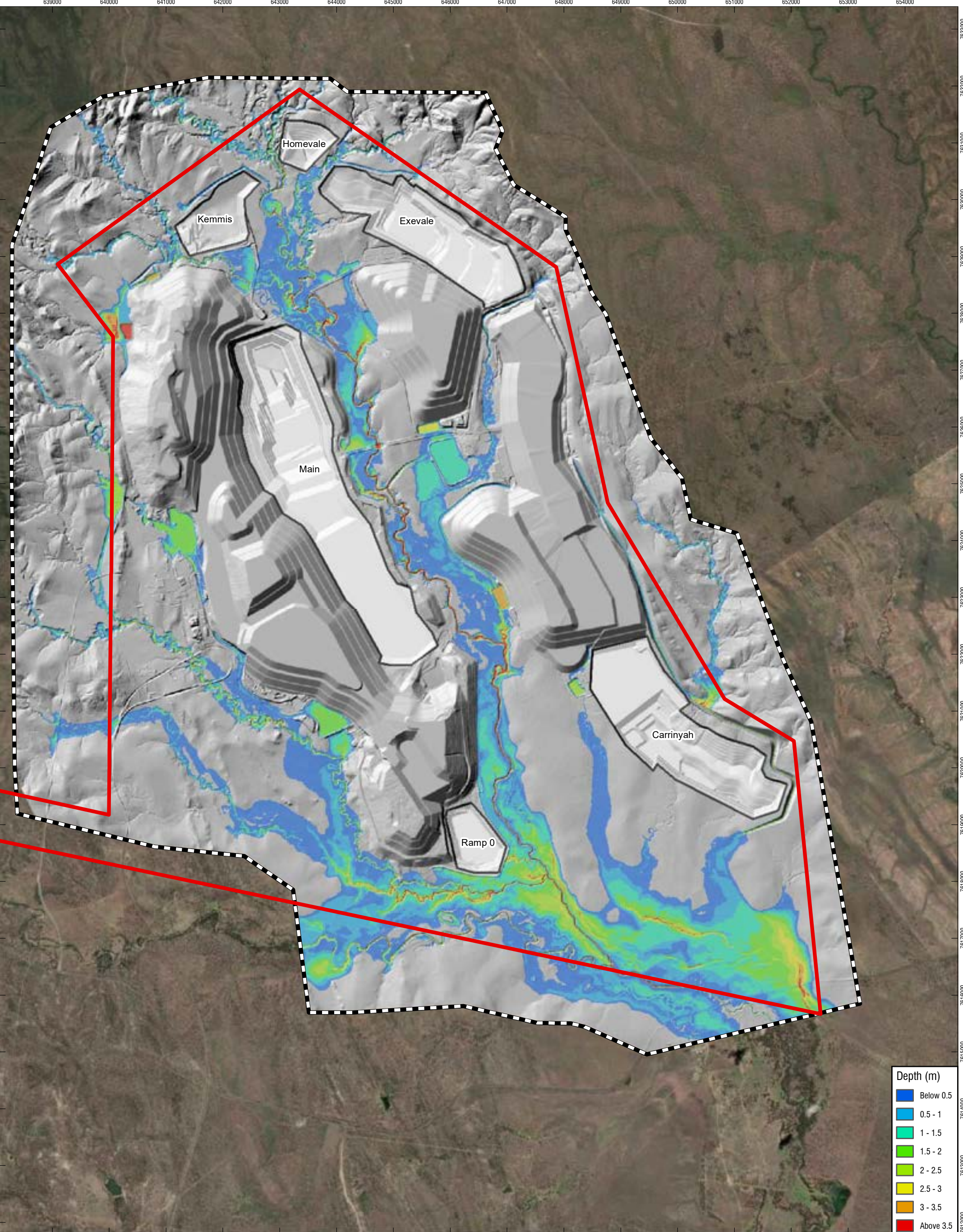
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Depths - 1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E1-5_EA21_02p_d_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Depth (m)

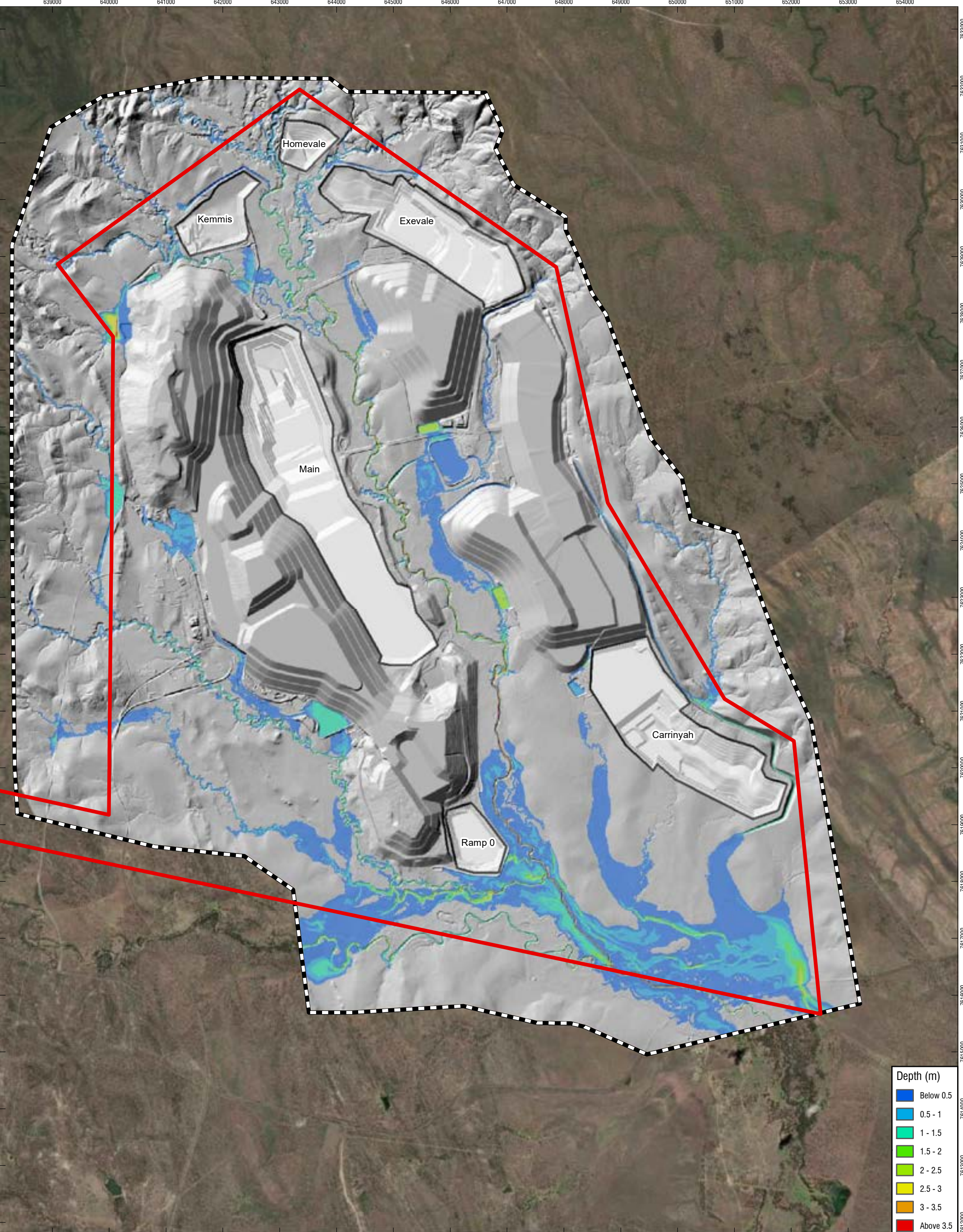
-  Below 0.5
-  0.5 - 1
-  1 - 1.5
-  1.5 - 2
-  2 - 2.5
-  2.5 - 3
-  3 - 3.5
-  Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Depths - 2% AEP SSP2-2040**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E1-6_EA21_50p_d_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

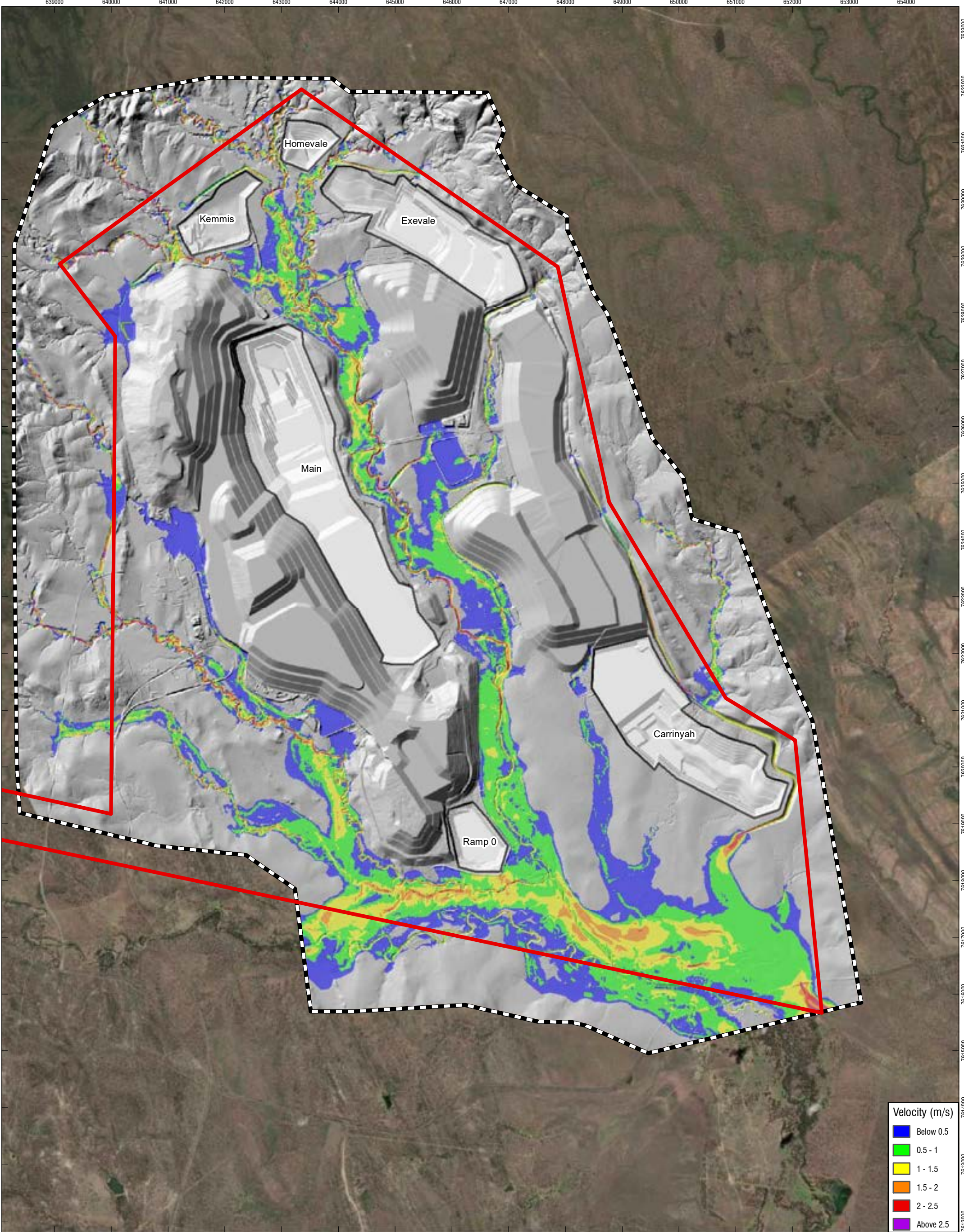
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Depths - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E1-7_EA21_01p_v_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

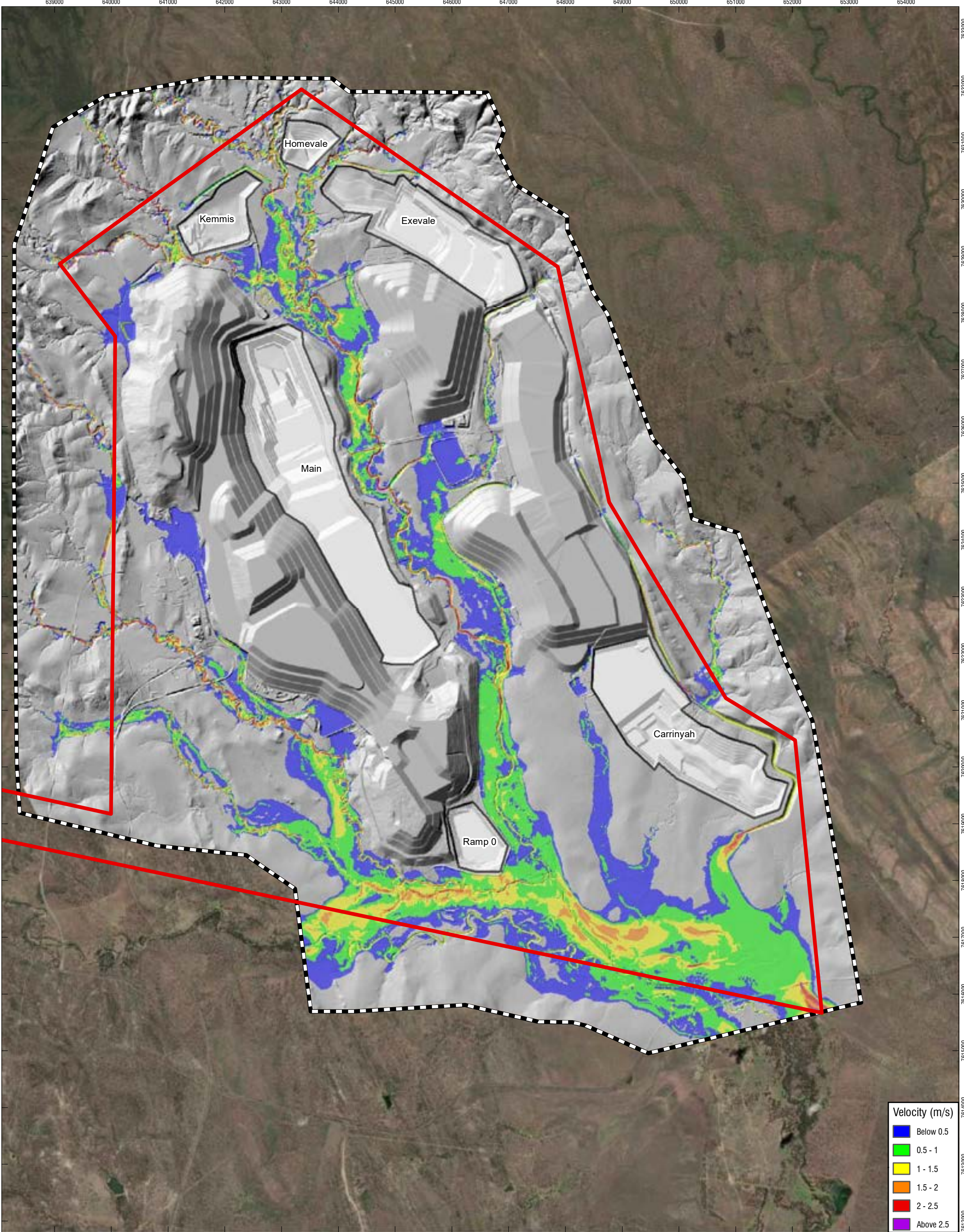
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents



Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 1% AEP SSP2-2040

H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E1-8_EA21_02p_v_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

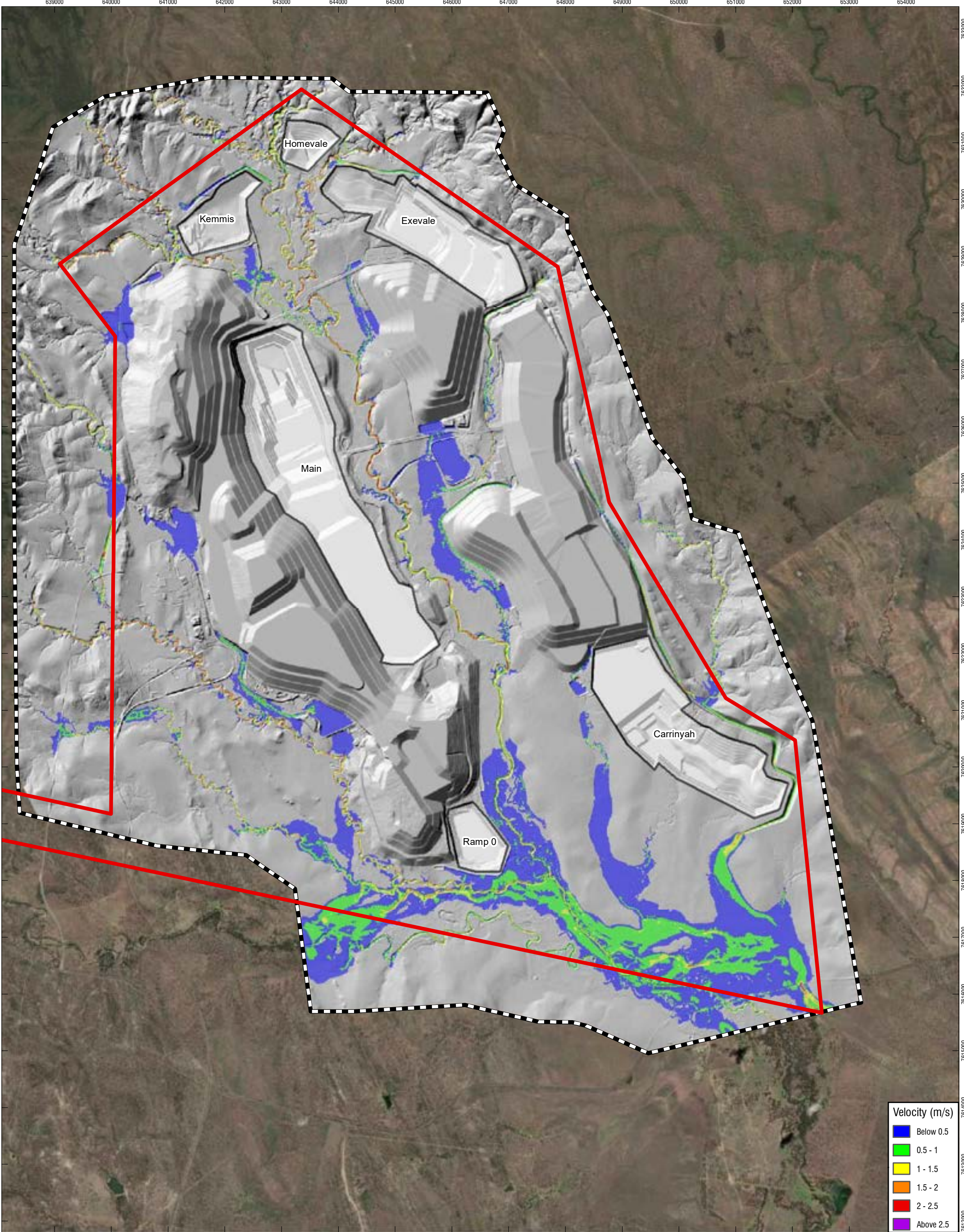
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents



Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 2% AEP SSP2-2040

H:\Projects-SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626.30128_APPENDIX E1-9_EA21_50p_v_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

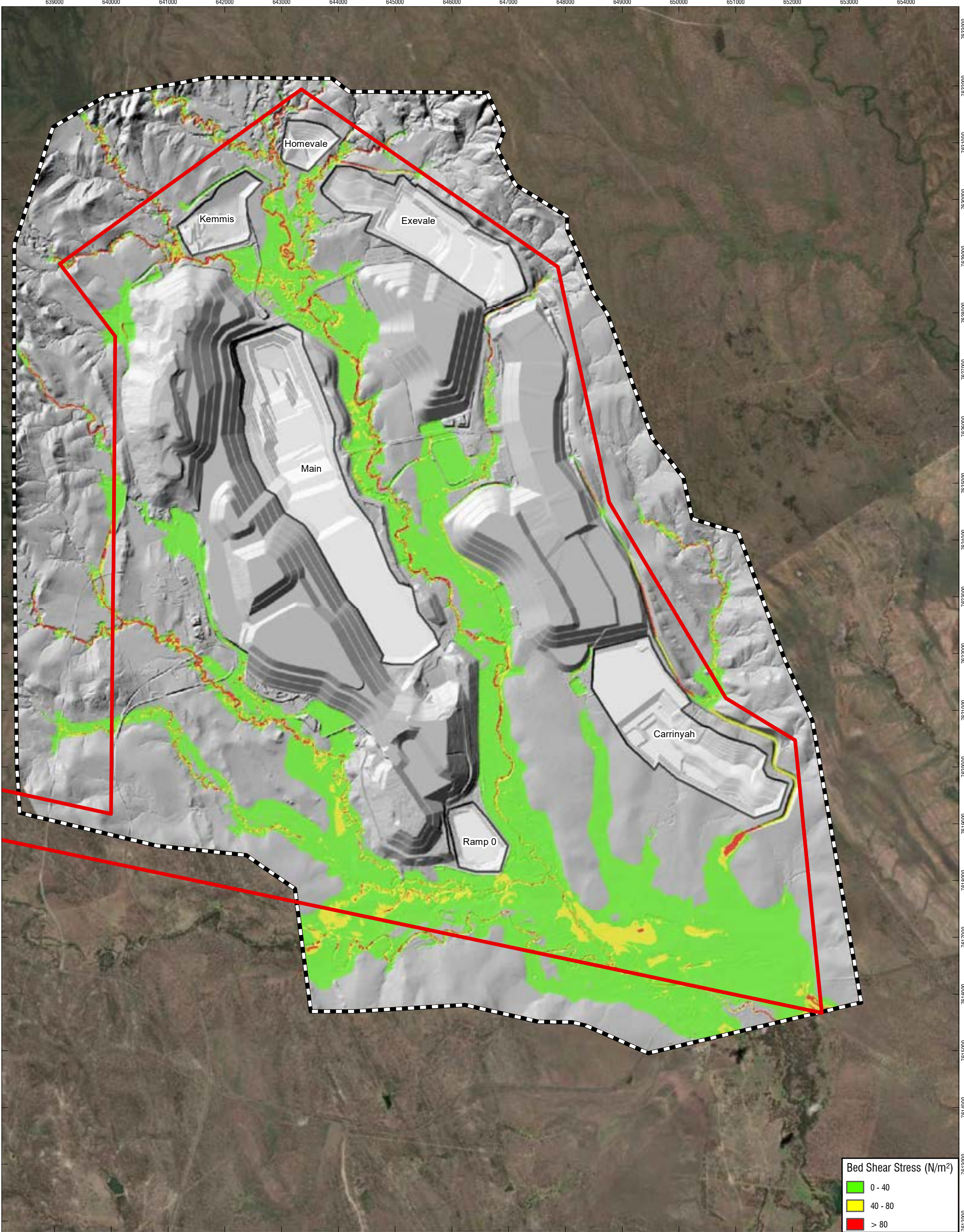
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

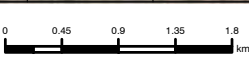
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 50% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXD\626 30128_BSS_SSP2-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

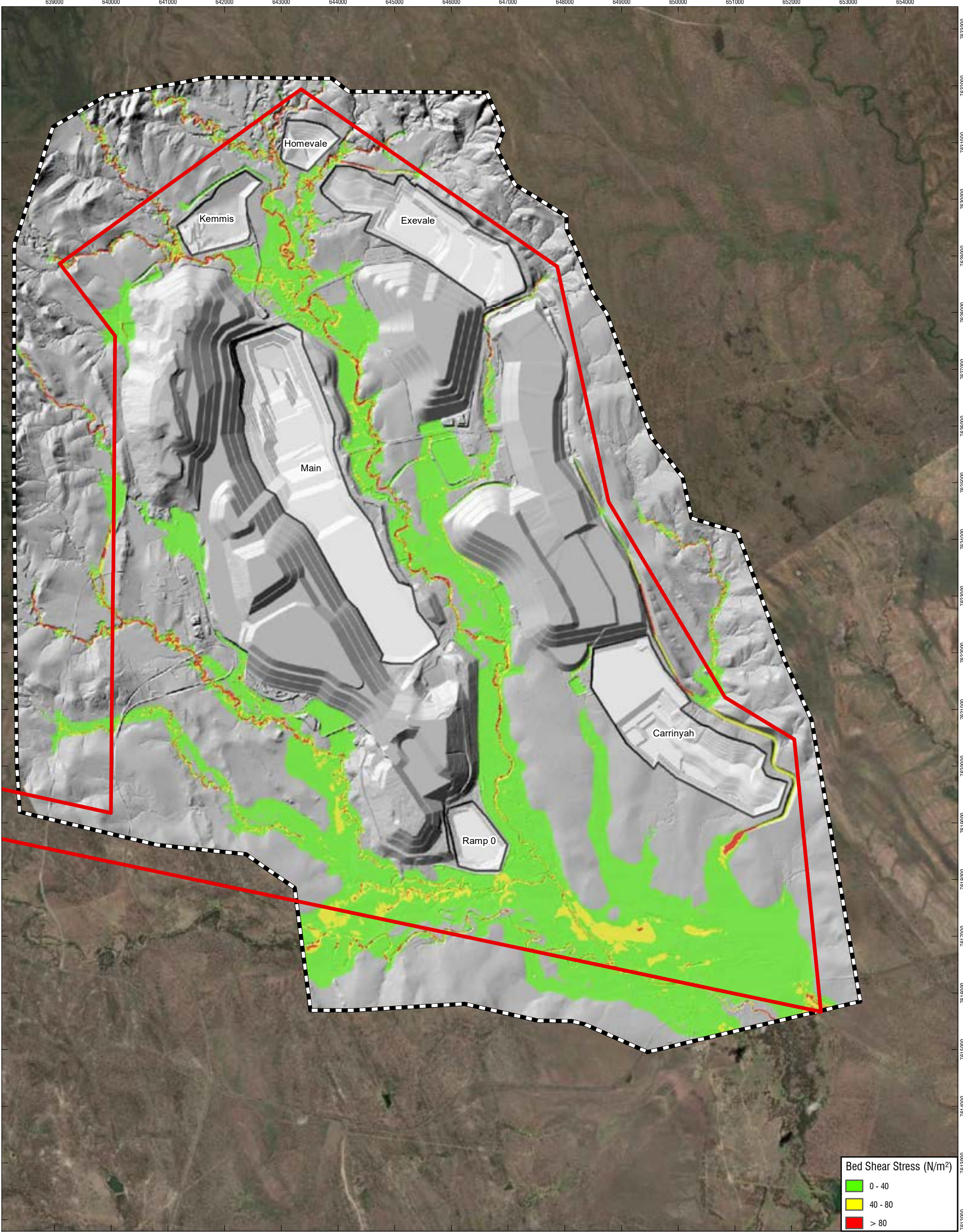
Bed Shear Stress (N/m ²)	
	0 - 40
	40 - 80
	> 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Bed Shear Stress - 1% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXD\626 30128_BSS_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

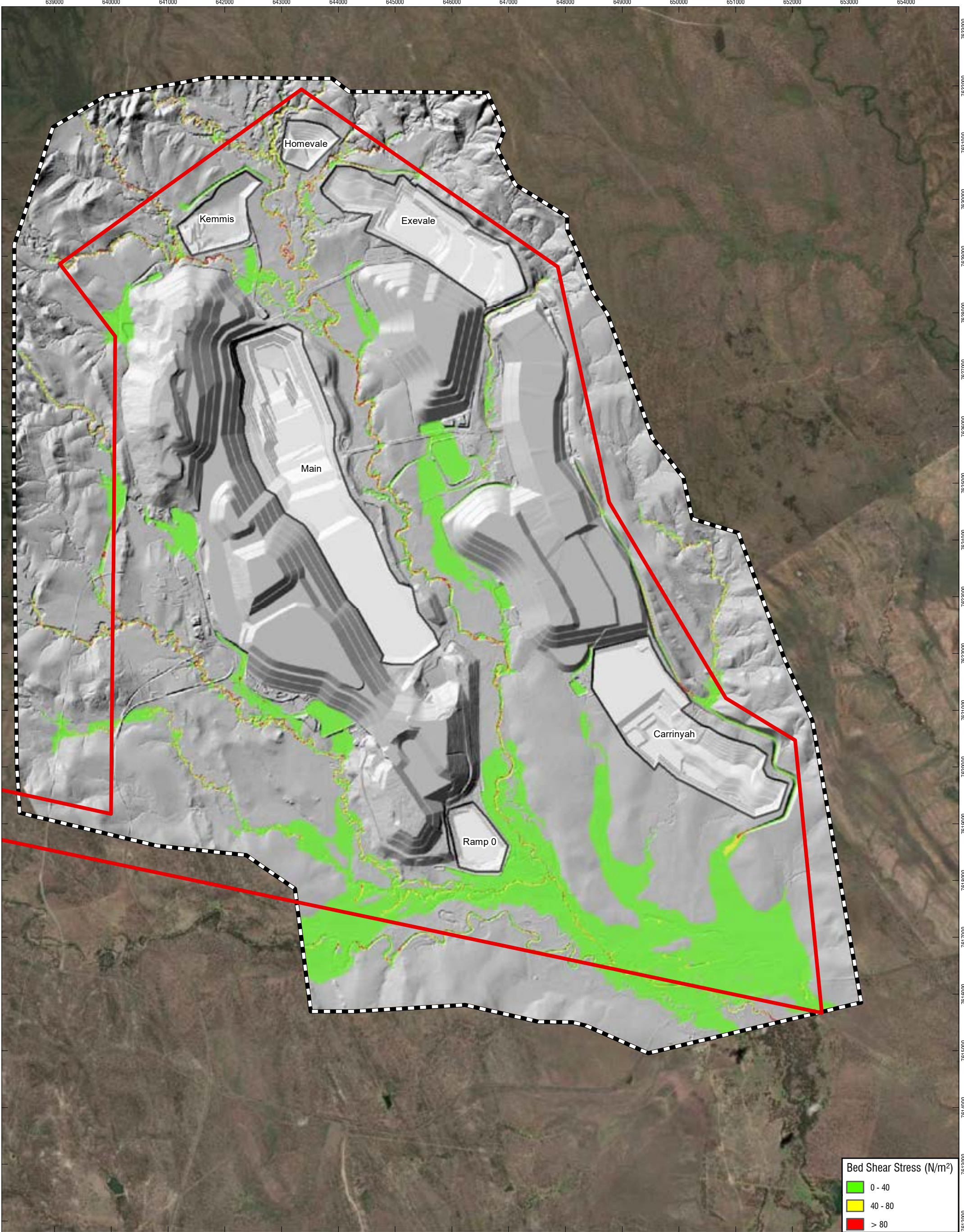
Bed Shear Stress (N/m²)
 0 - 40
 40 - 80
 > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Bed Shear Stress - 2% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS\Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626.30128_APPENDIX E1-12_EA21_50p_BSS_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Bed Shear Stress (N/m²)

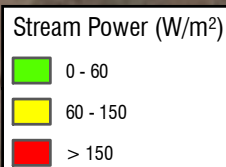
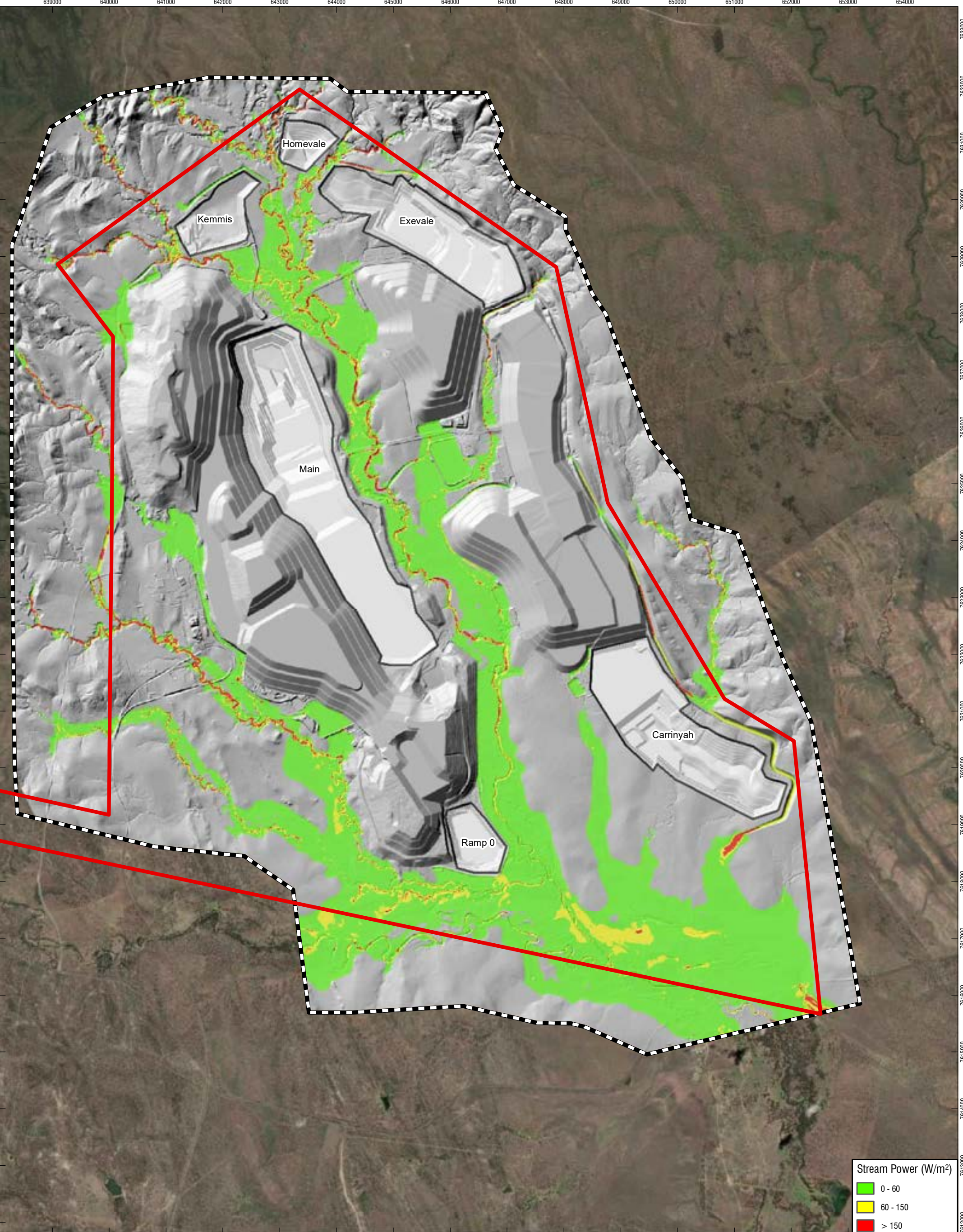
-  0 - 40
-  40 - 80
-  > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Bed Shear Stress - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix\Output\MXDs\626 30128_APPENDIX E1-13_EA21_01p_SP_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

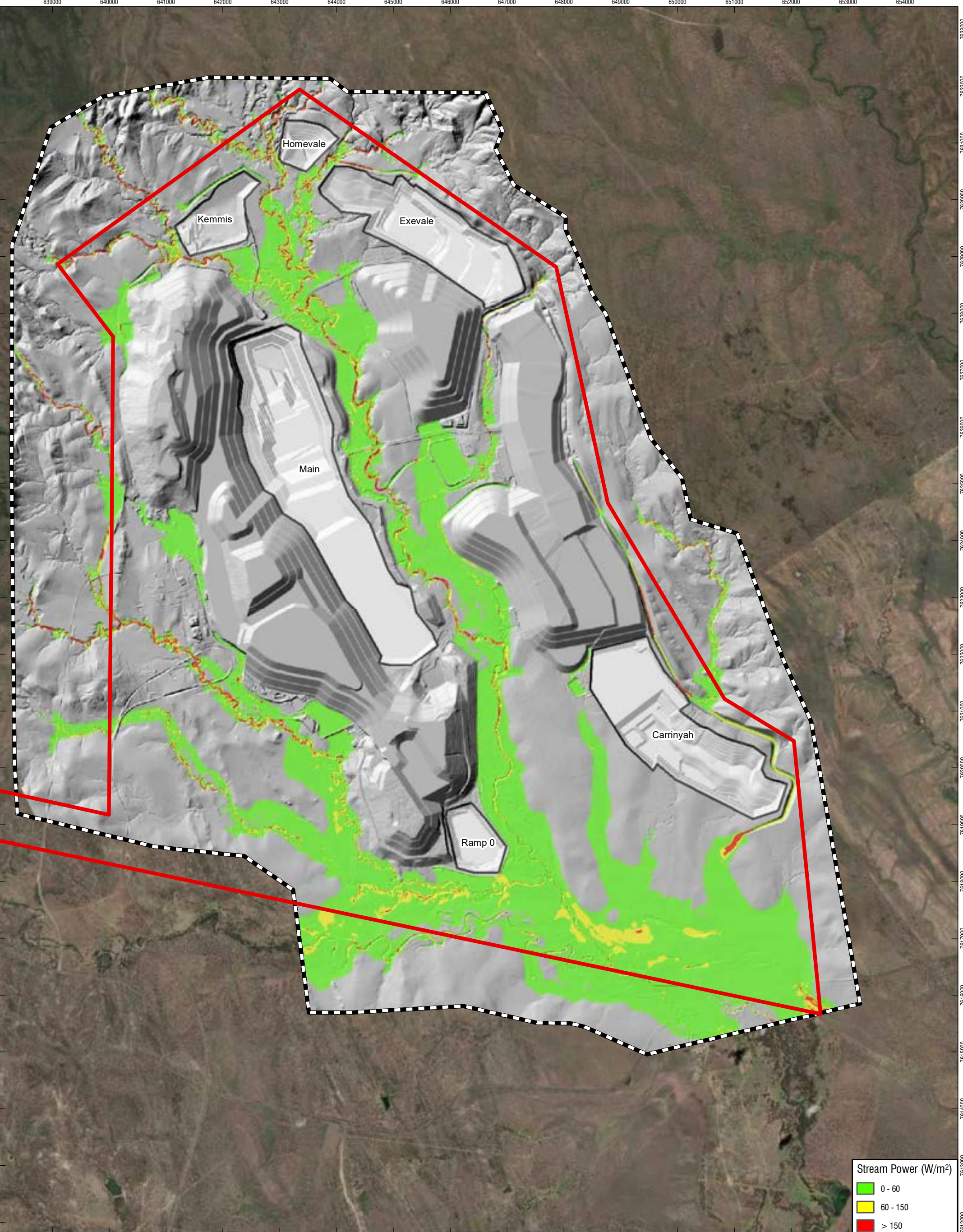
- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Stream Power - 1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E1-14_EA21_02p_SP_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

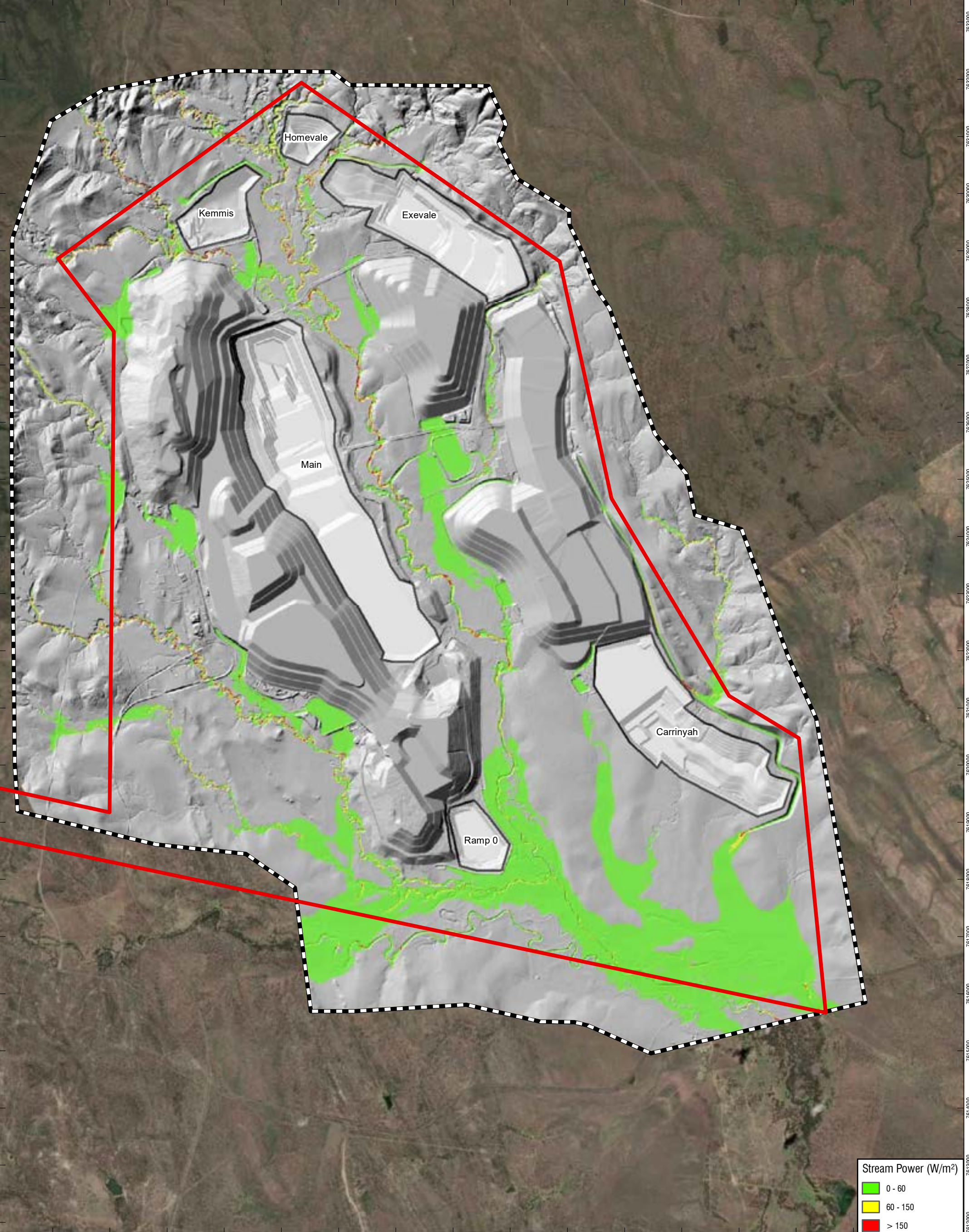
Stream Power (W/m^2)
 0 - 60
 60 - 150
 > 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Stream Power - 2% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626.30128_APPENDIX E1-15_EA21_50p_SP_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Stream Power (W/m²)

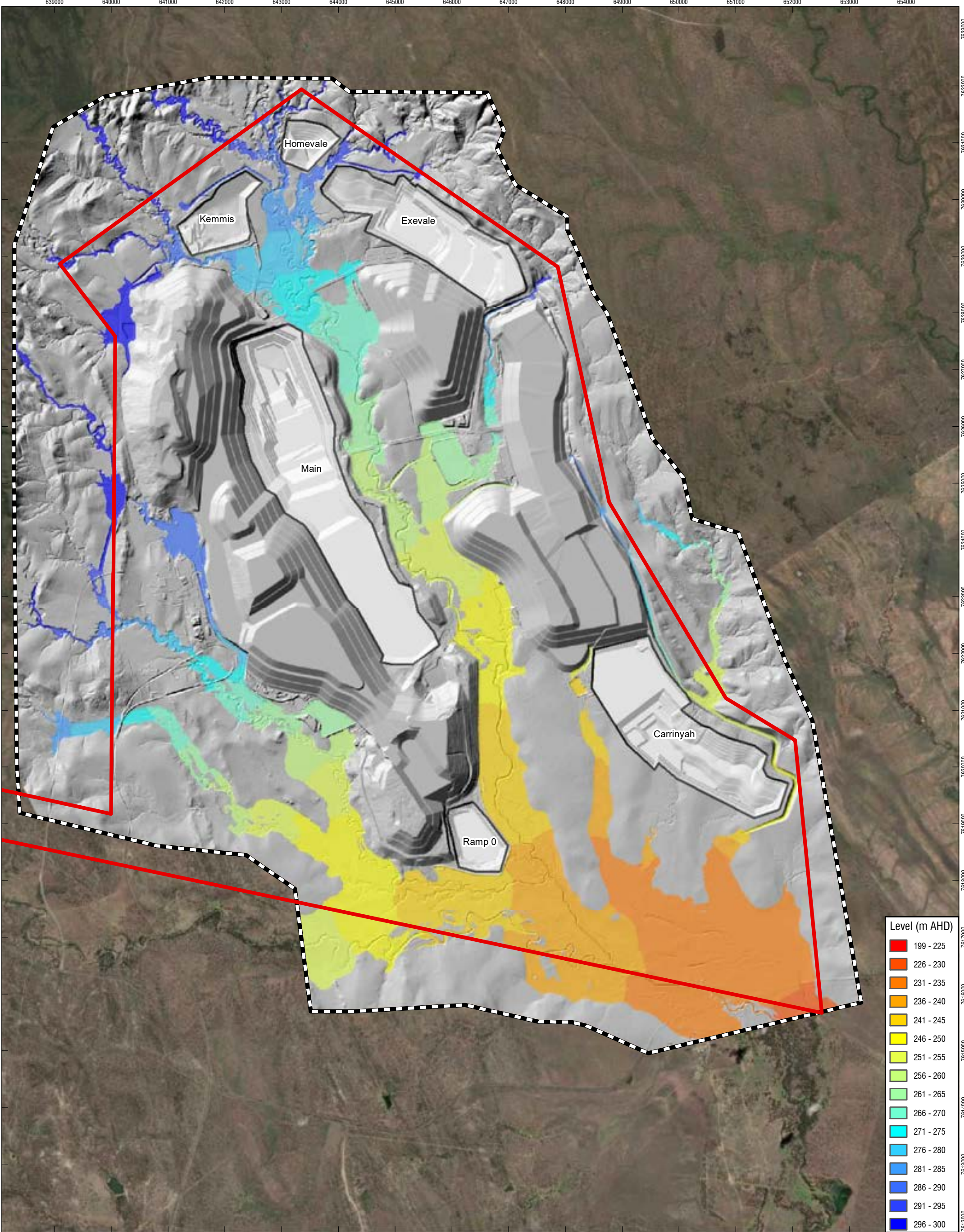
-  0 - 60
-  60 - 150
-  > 150

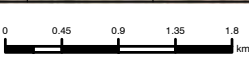
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Stream Power - 50% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E2-1_Extents\Appendix E2-1_EA21_01p_1_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

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Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

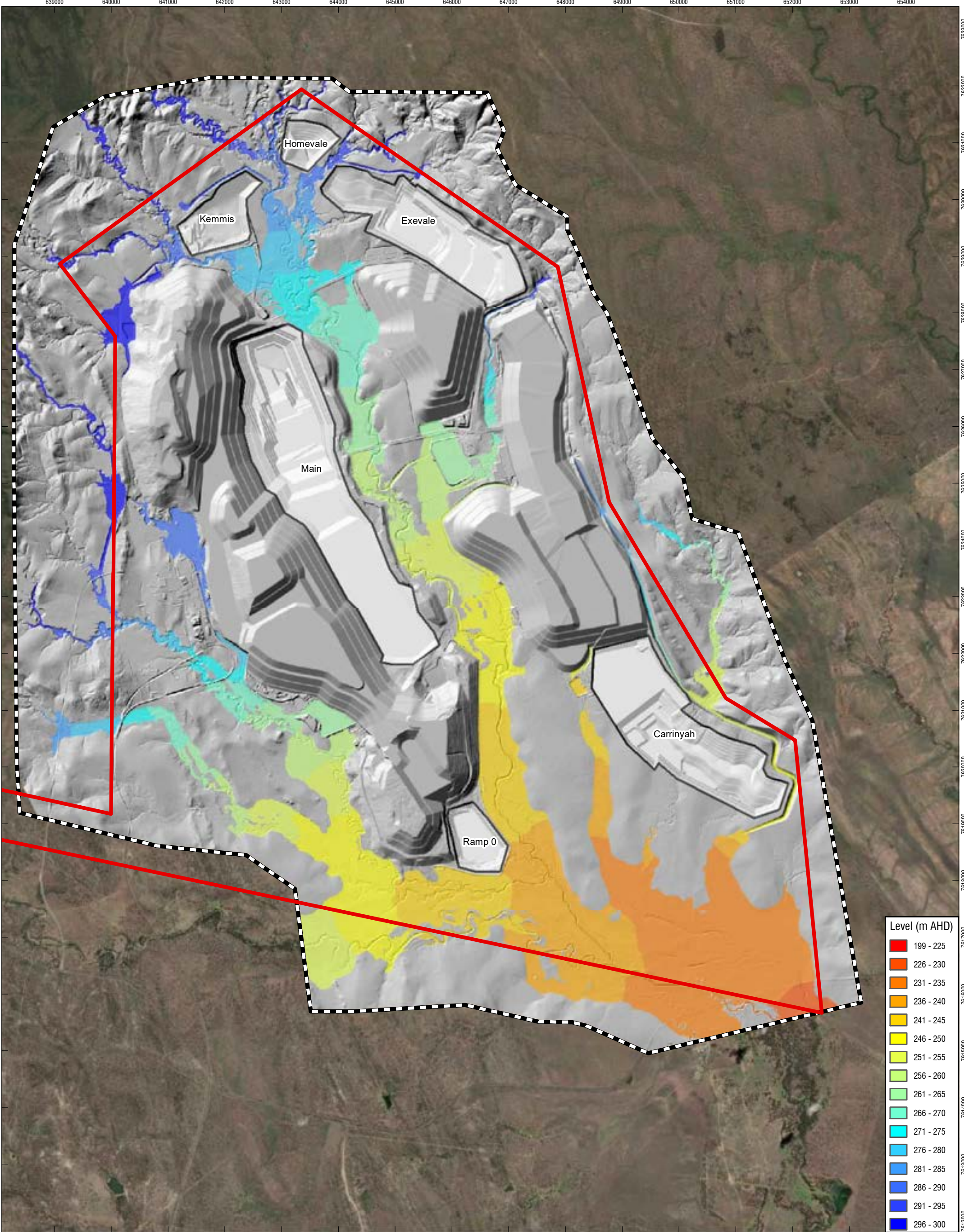
- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - 1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E2-2_EA21_02p_1_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

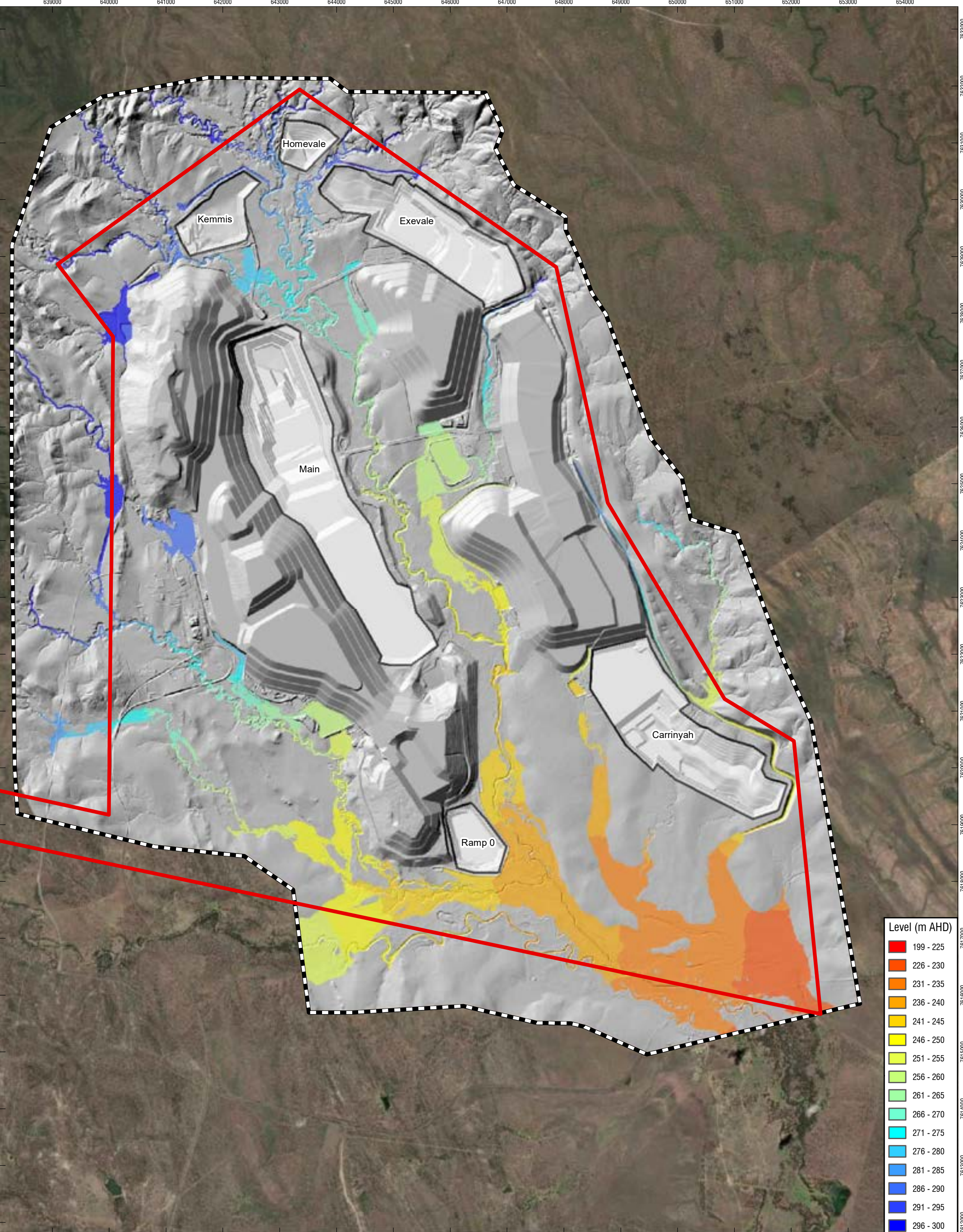
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E2-3_EA21_50p_L_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

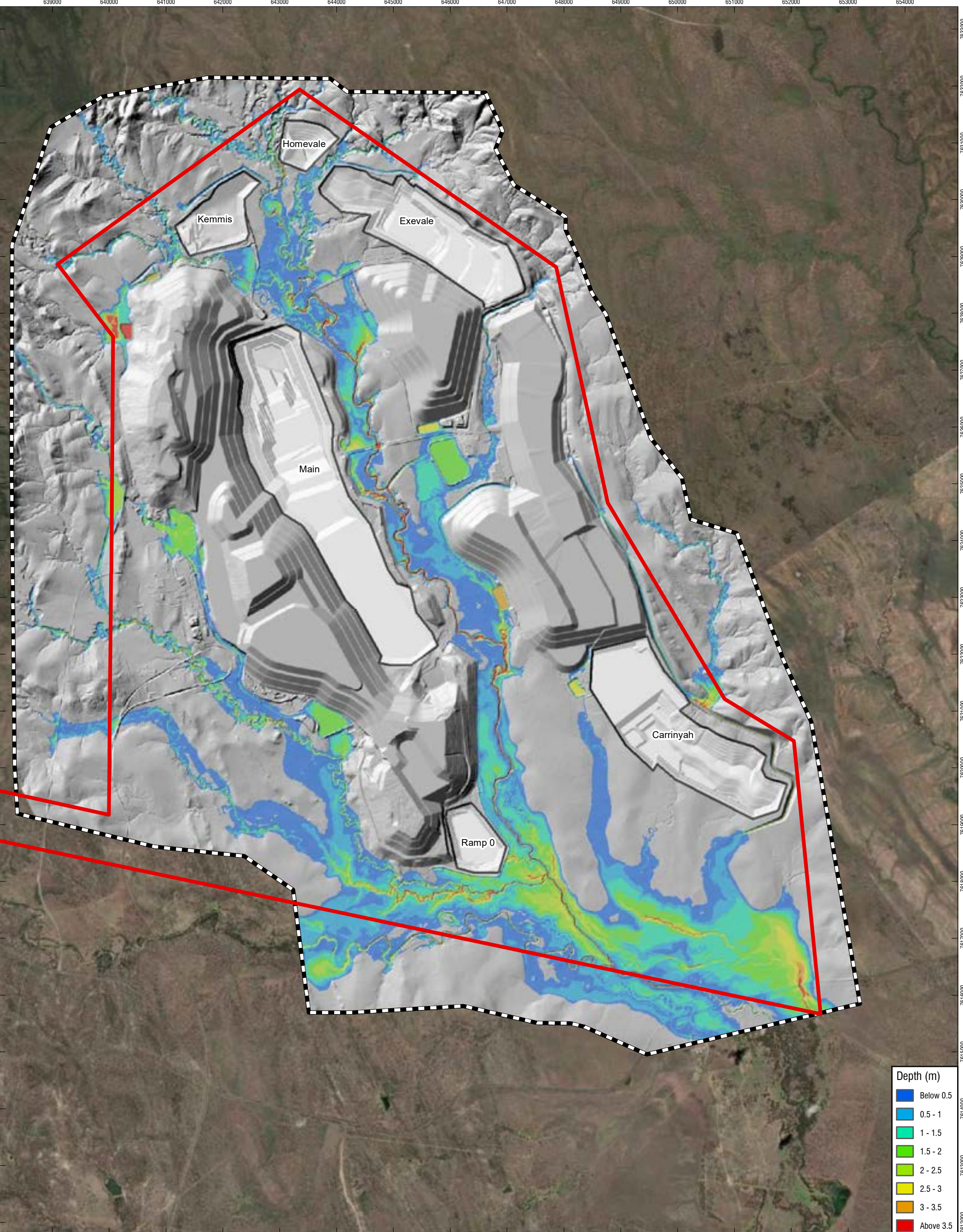
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Levels - 50% AEP SSP5-2040**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E2-4_EA21_01p_d_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

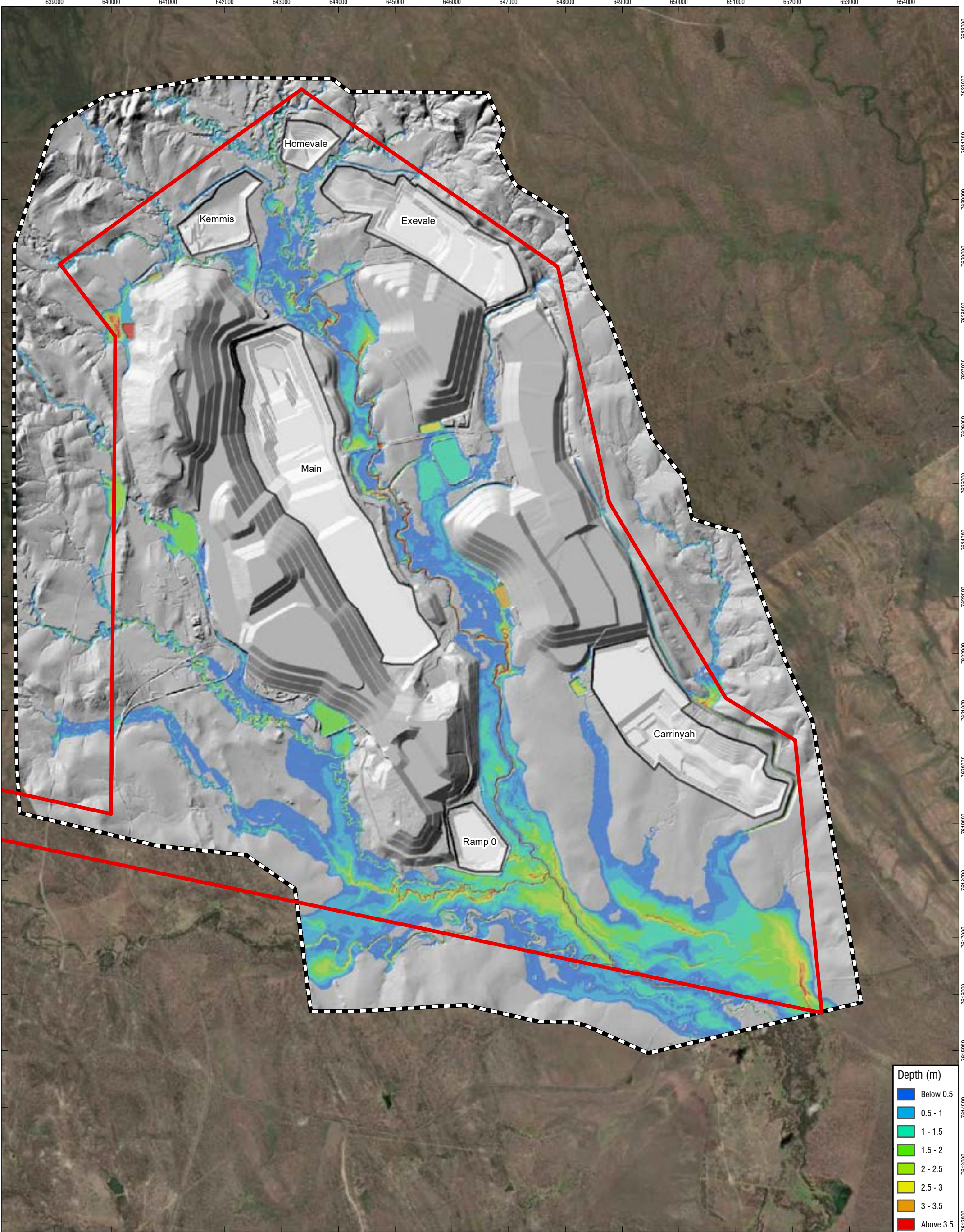
Depth (m)	
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	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

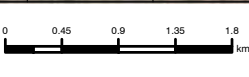
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Depths - 1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E2-5_EA21_02p_d_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

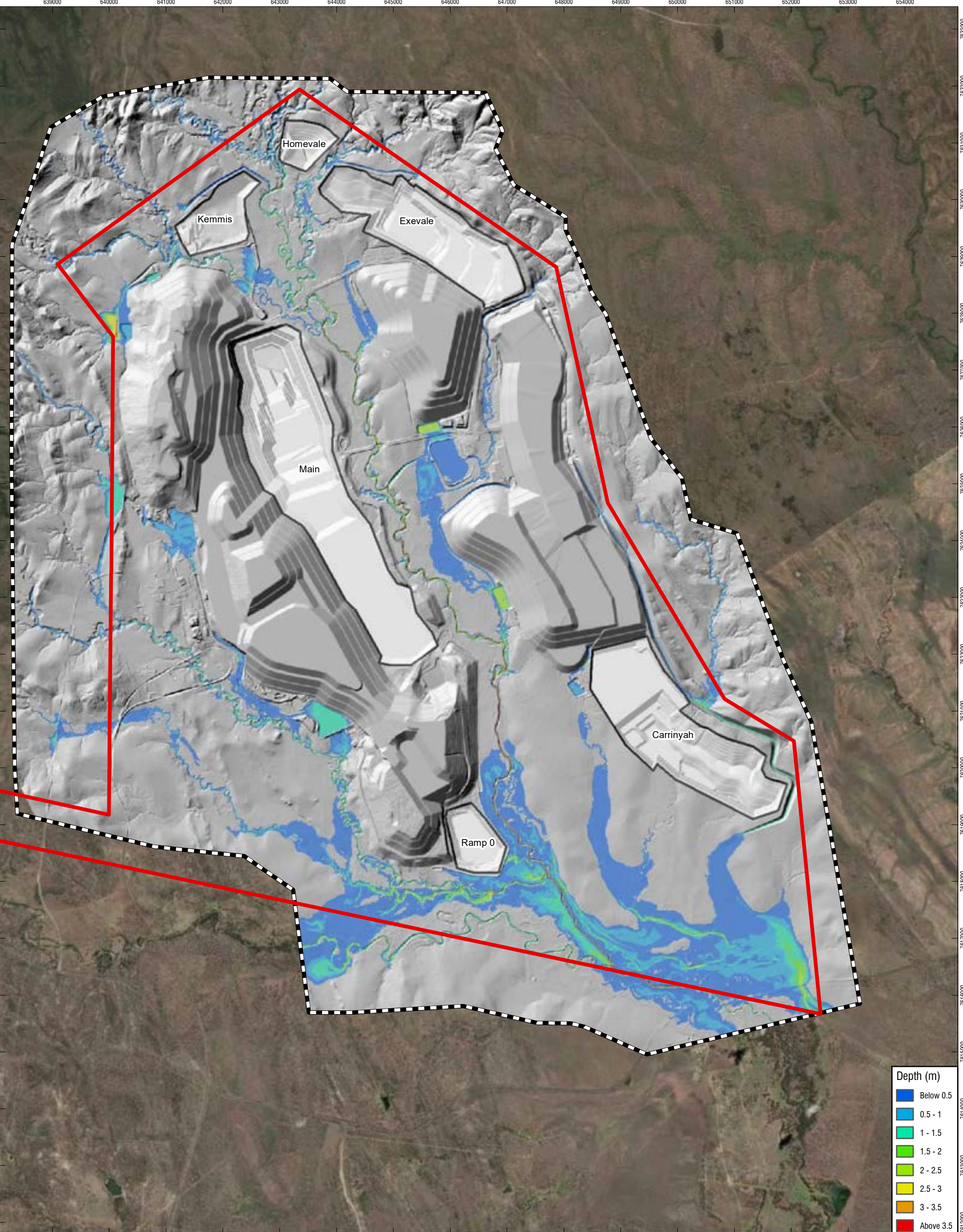
Depth (m)	
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Depths - 2% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS\Surface Water\Auto Mapping\EA21_Dev_Appendix\Output\MXDs\626.30128_APPENDIX E2-6_EA21_50p_d_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

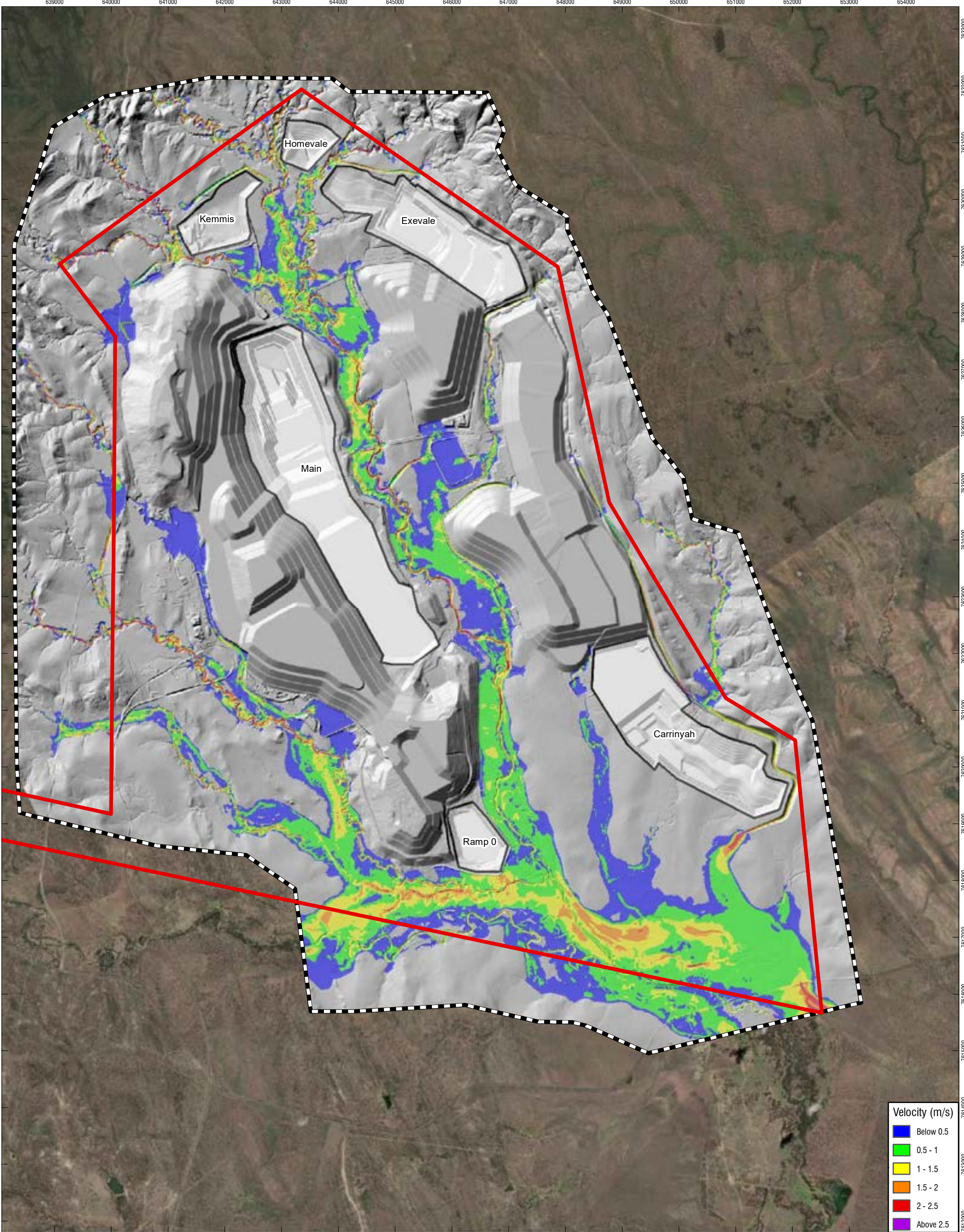
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Depths - 50% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E2-7_EA21_01p_v_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

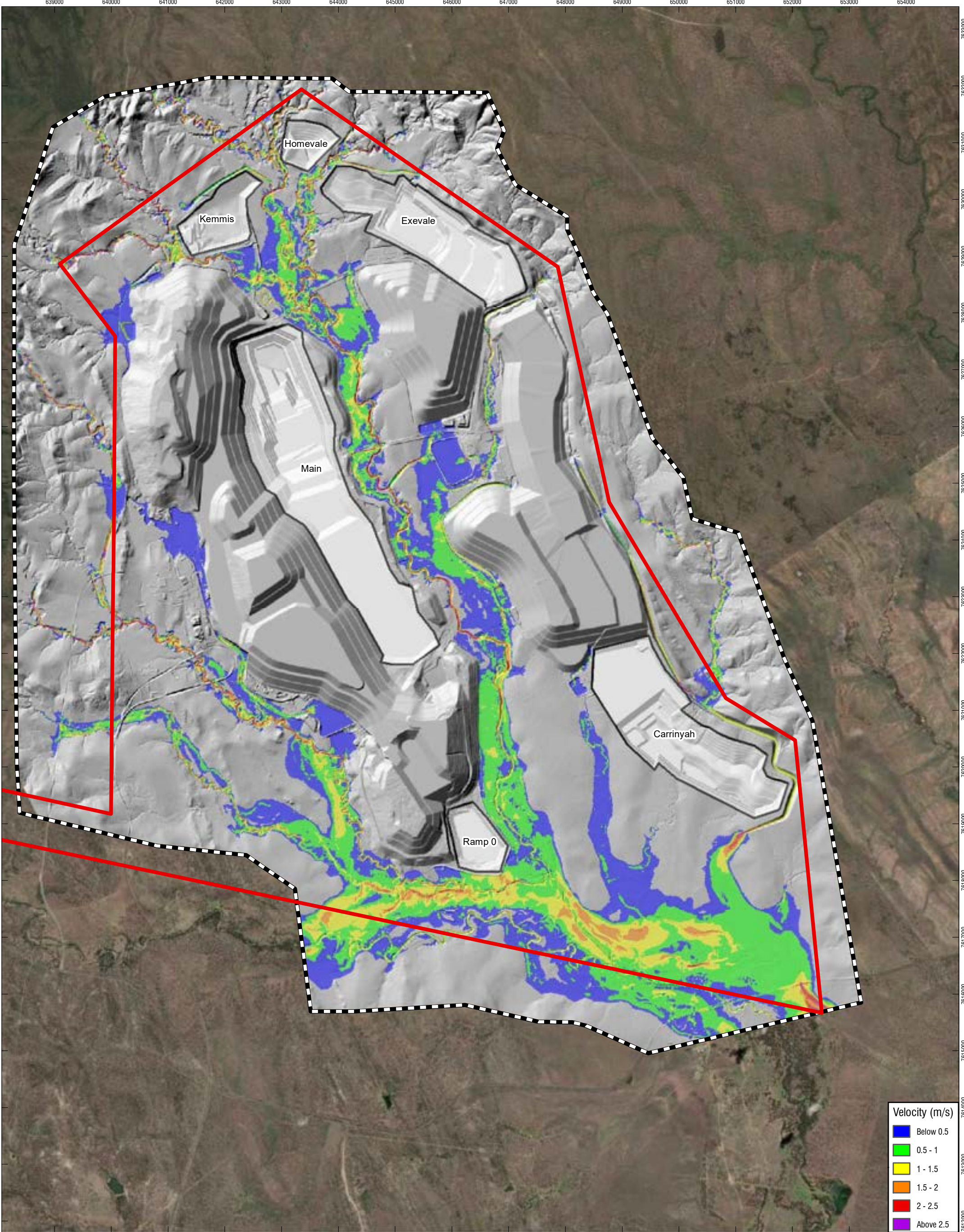
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

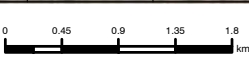


Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 1% AEP SSP5-2040

H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E2-8_EA21_02p_v_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

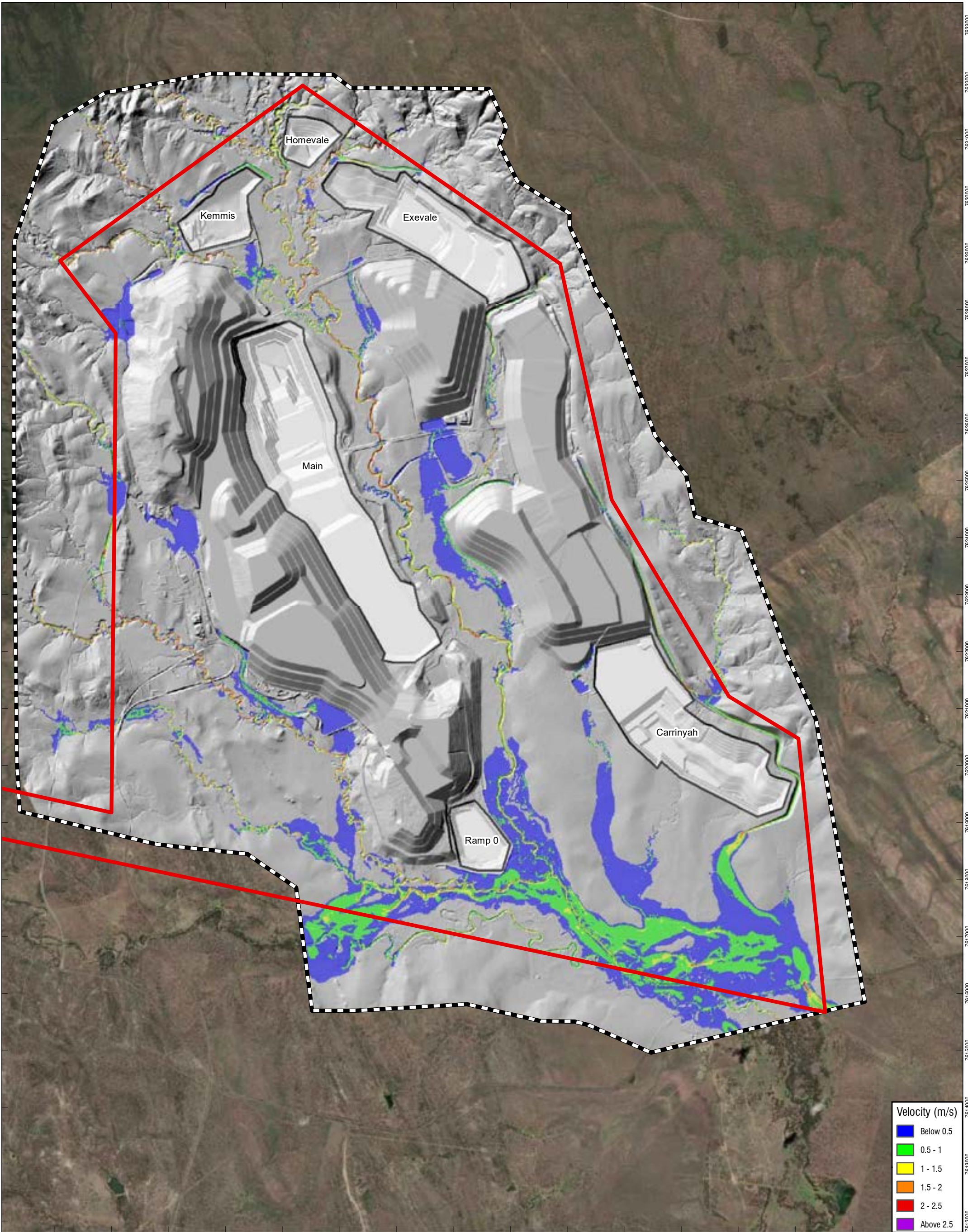


Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 2% AEP SSP5-2040

APPENDIX E2-8

H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E2-9_EA21_50p_v_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

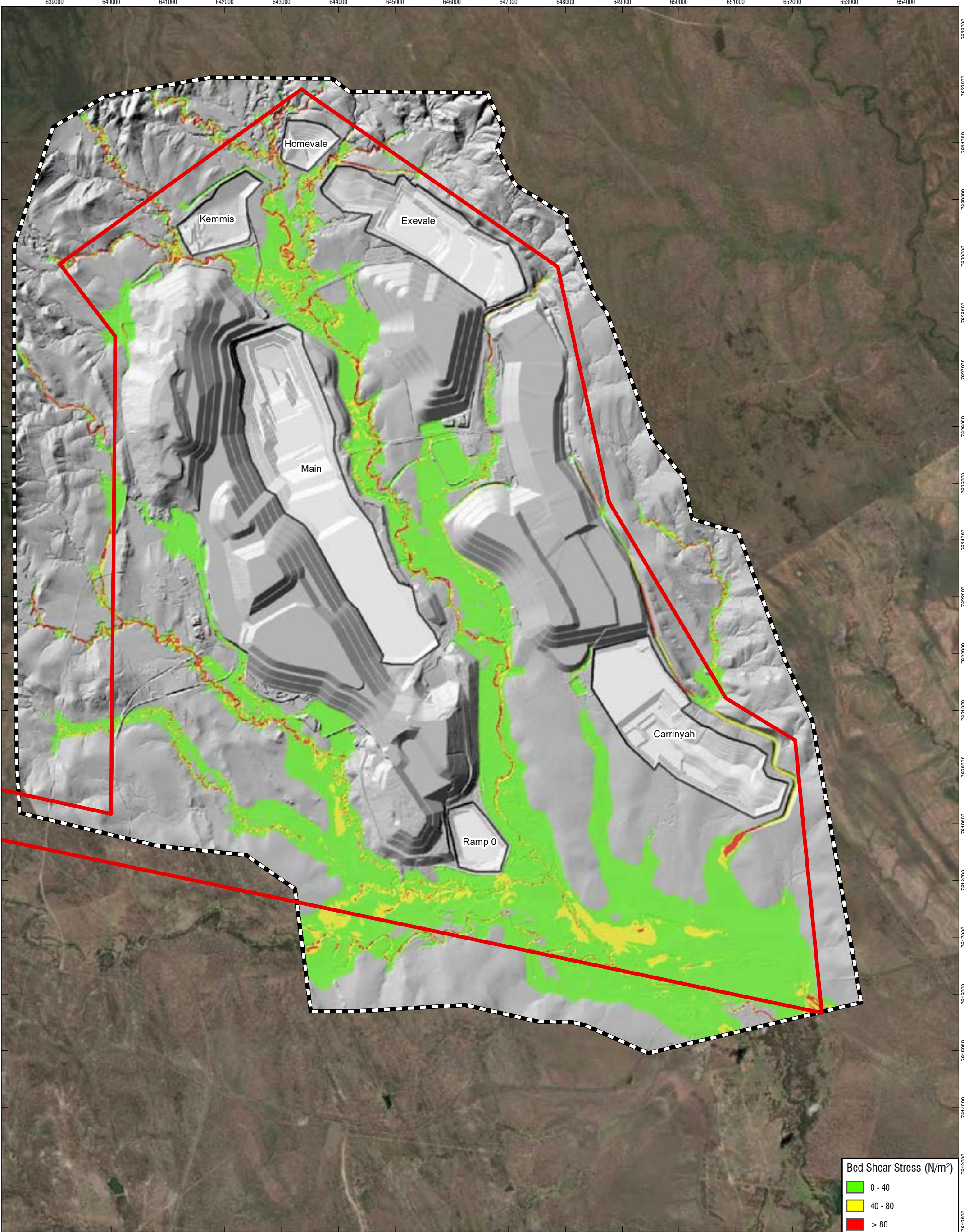
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 50% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_BSS_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Bed Shear Stress (N/m²)

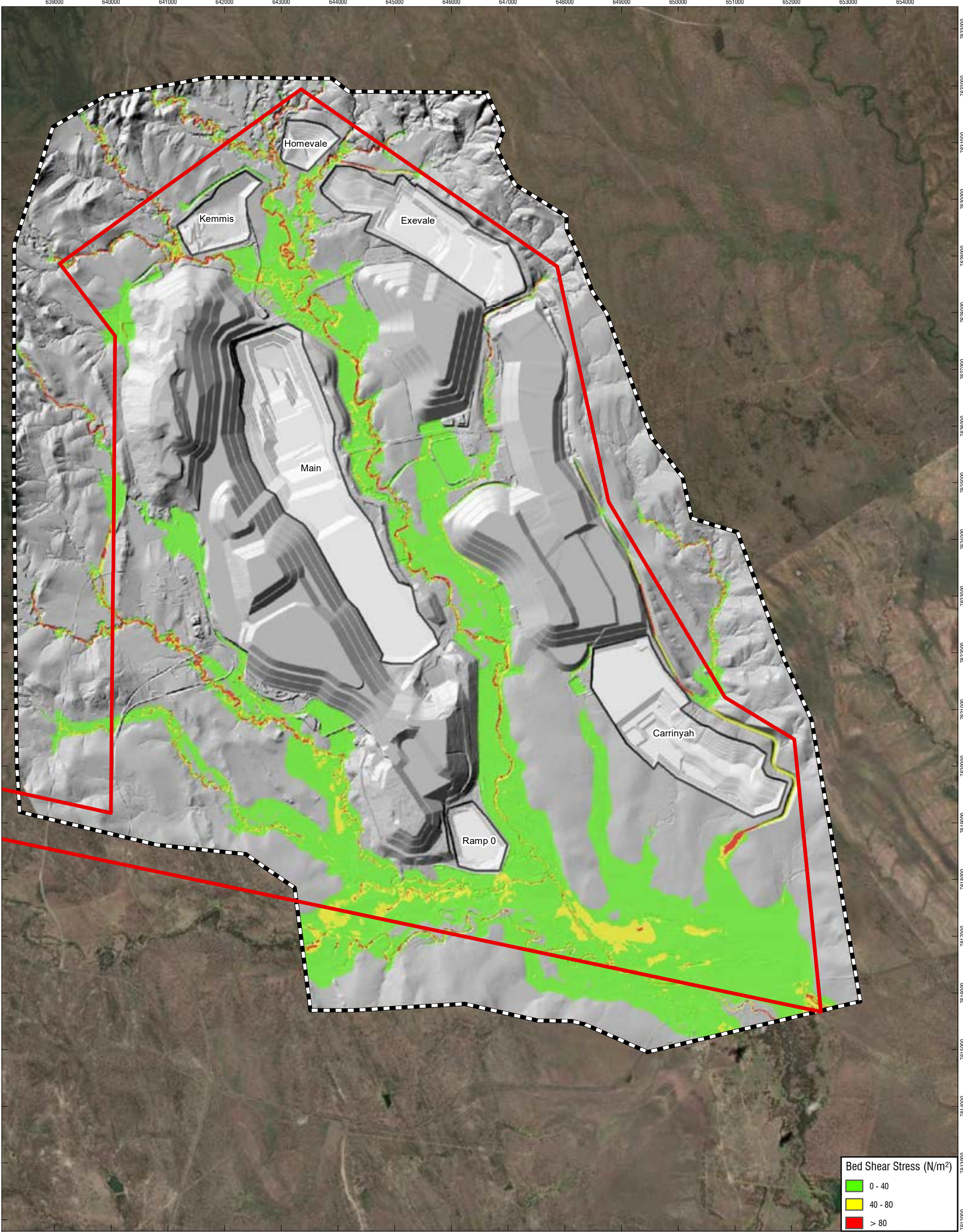
-  0 - 40
-  40 - 80
-  > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Bed Shear Stress - 1% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXD\626.30128_APPENDIX E2-11_EA21_02p_BSS_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

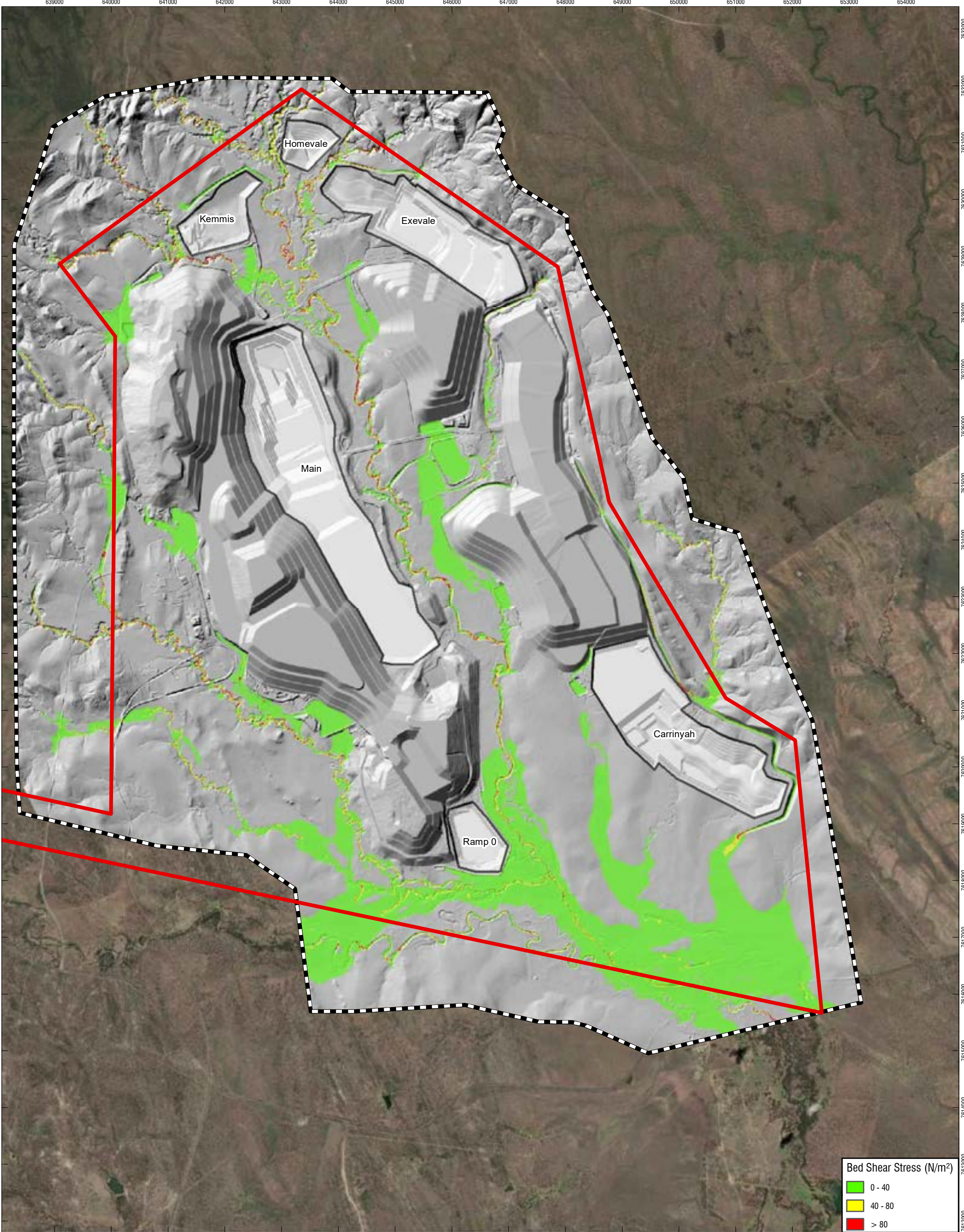
Bed Shear Stress (N/m²)
 0 - 40
 40 - 80
 > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Bed Shear Stress - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_EA21_50p_BSS_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Bed Shear Stress (N/m²)

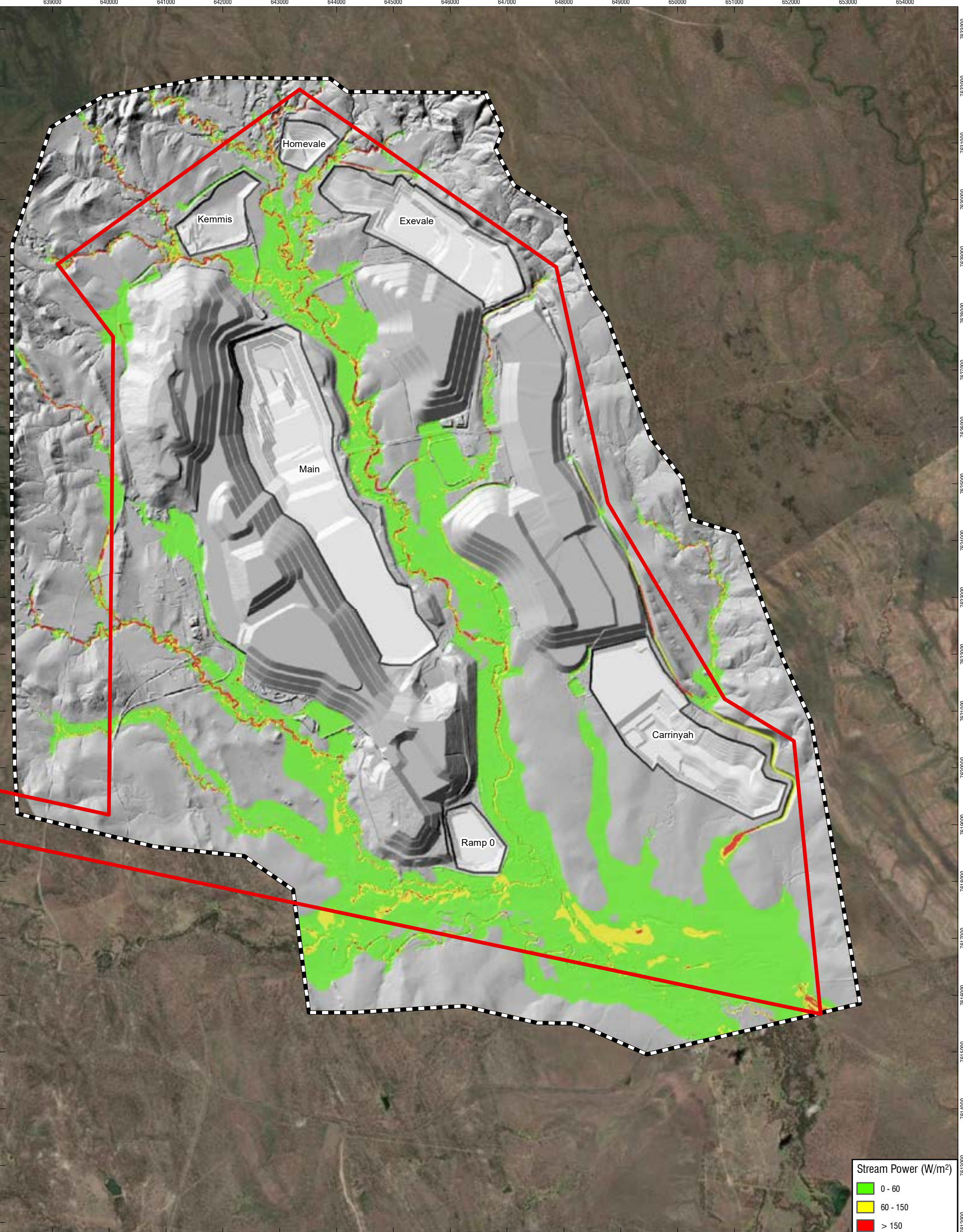
-  0 - 40
-  40 - 80
-  > 80

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Bed Shear Stress - 50% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E2-13_EA21_01p_SP_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

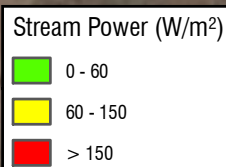
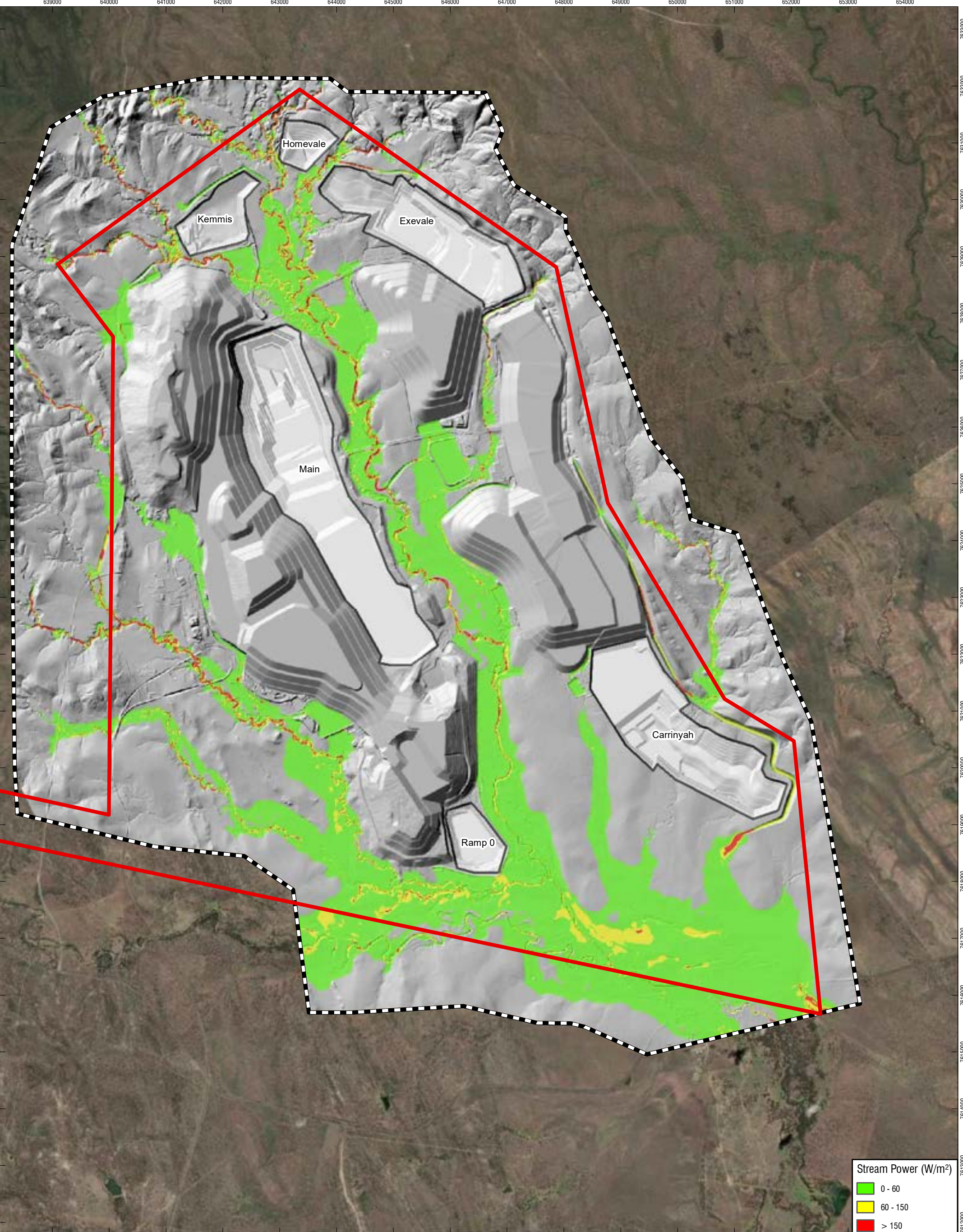
Stream Power (W/m²)
 0 - 60
 60 - 150
 > 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Stream Power - 1% AEP SSP5-2040**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E2-14_EA21_02p_SP_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

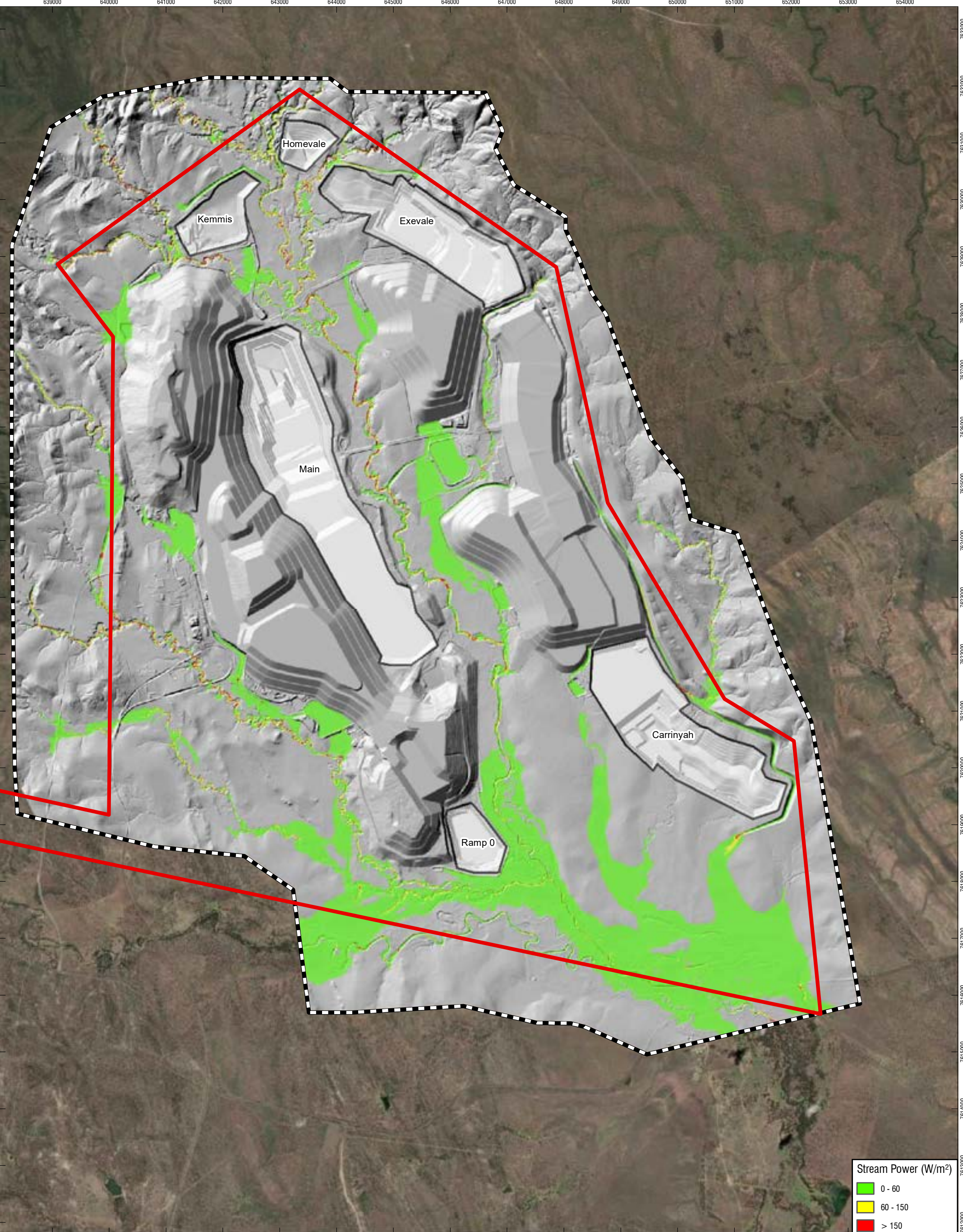
- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Stream Power - 2% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626.30128_APPENDIX E2-15_EA21_50p_SP_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Stream Power (W/m²)

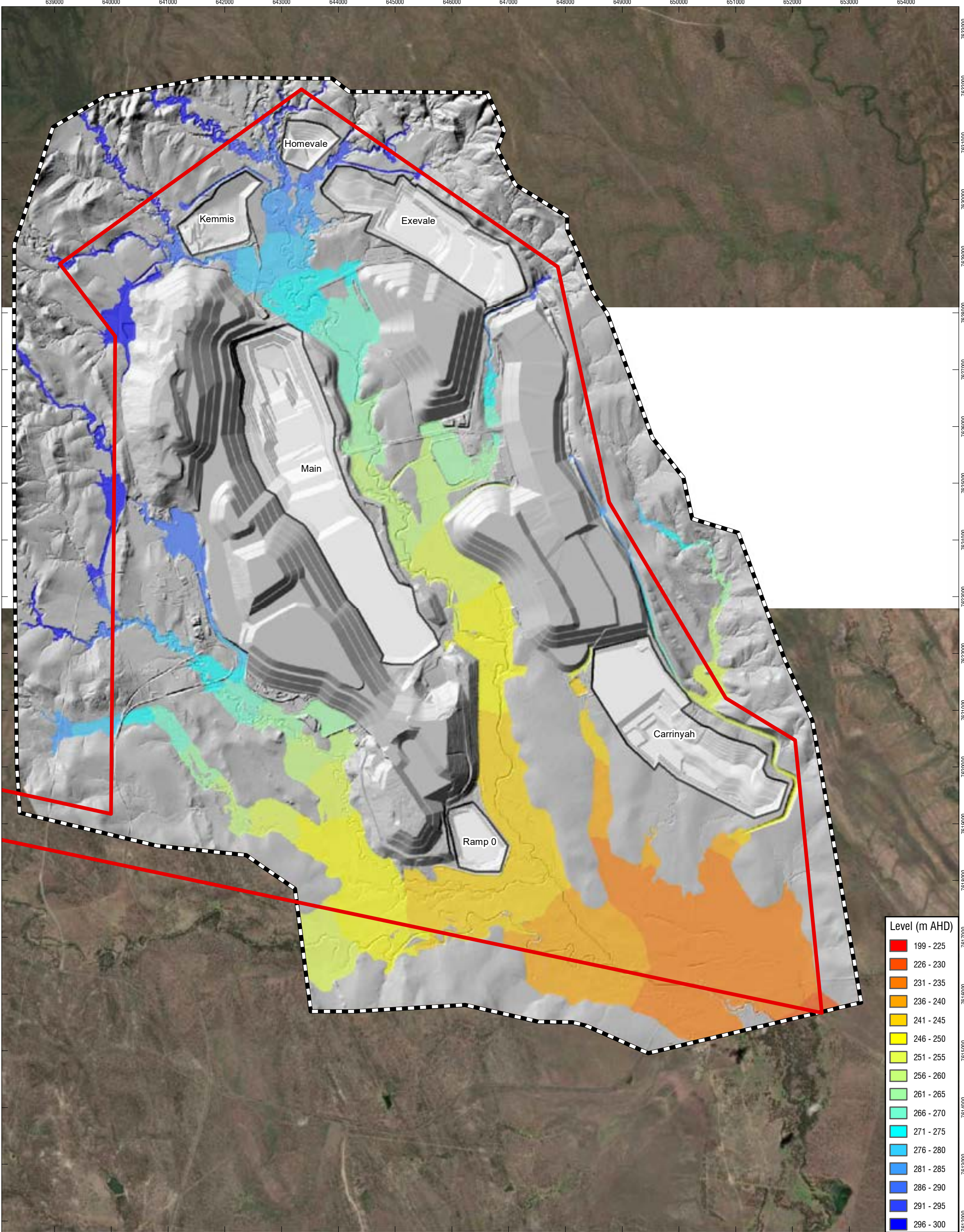
-  0 - 60
-  60 - 150
-  > 150

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Stream Power - 50% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E\Output\MXD\626 30128_APPENDIX E3-1_EA21_1m1000_h_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

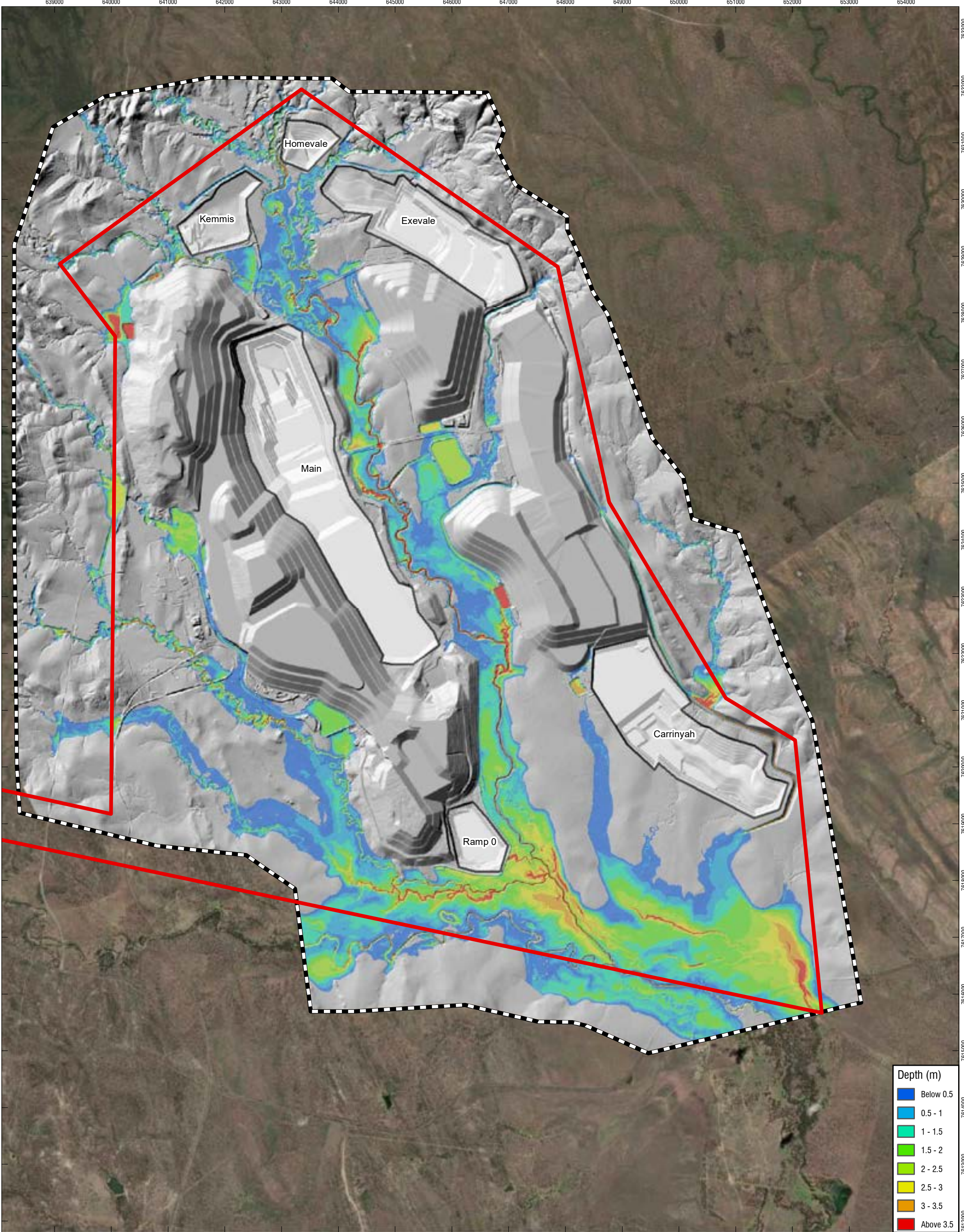
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - 0.1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E3-2_EA21_1in1000_d_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

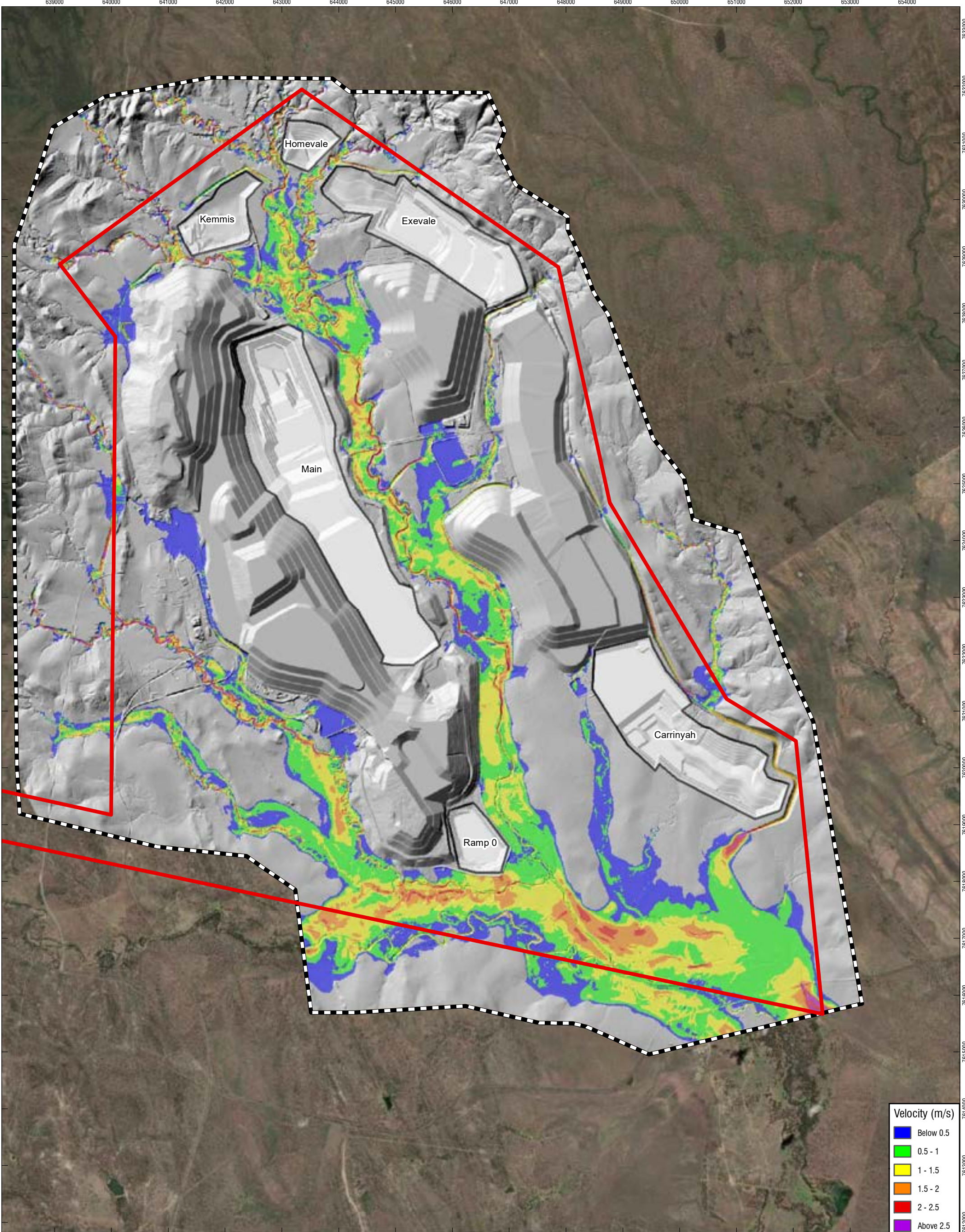
Depth (m)
 Below 0.5
 0.5 - 1
 1 - 1.5
 1.5 - 2
 2 - 2.5
 2.5 - 3
 3 - 3.5
 Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Depths - 0.1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXD\626 30128_APPENDIX E3-3_EA21_1in1000_v_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

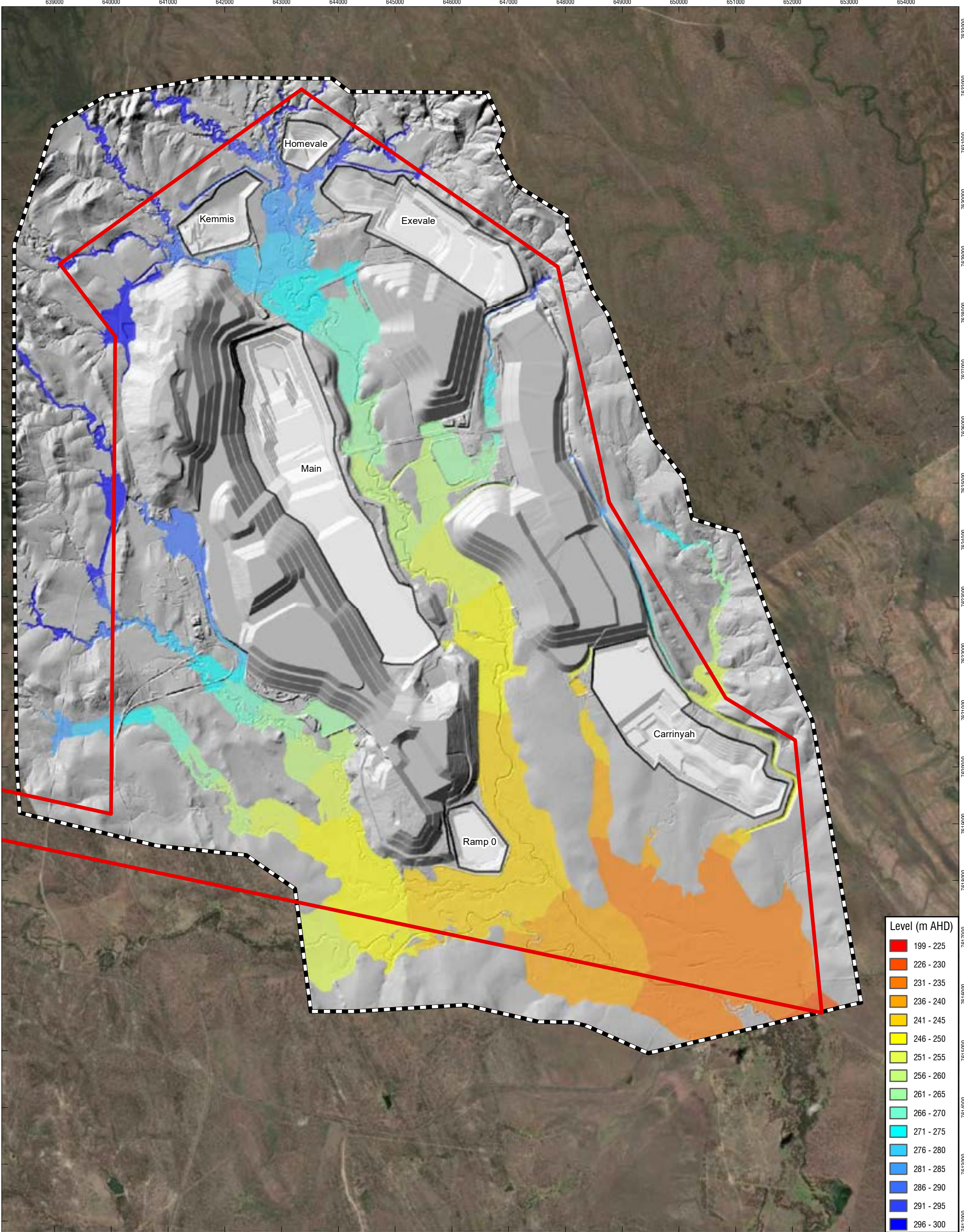
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 0.1% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E\Output\MXD\626 30128_APPENDIX E3-4_EA21_1m1000_h_SSP5-2040.mxd




0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

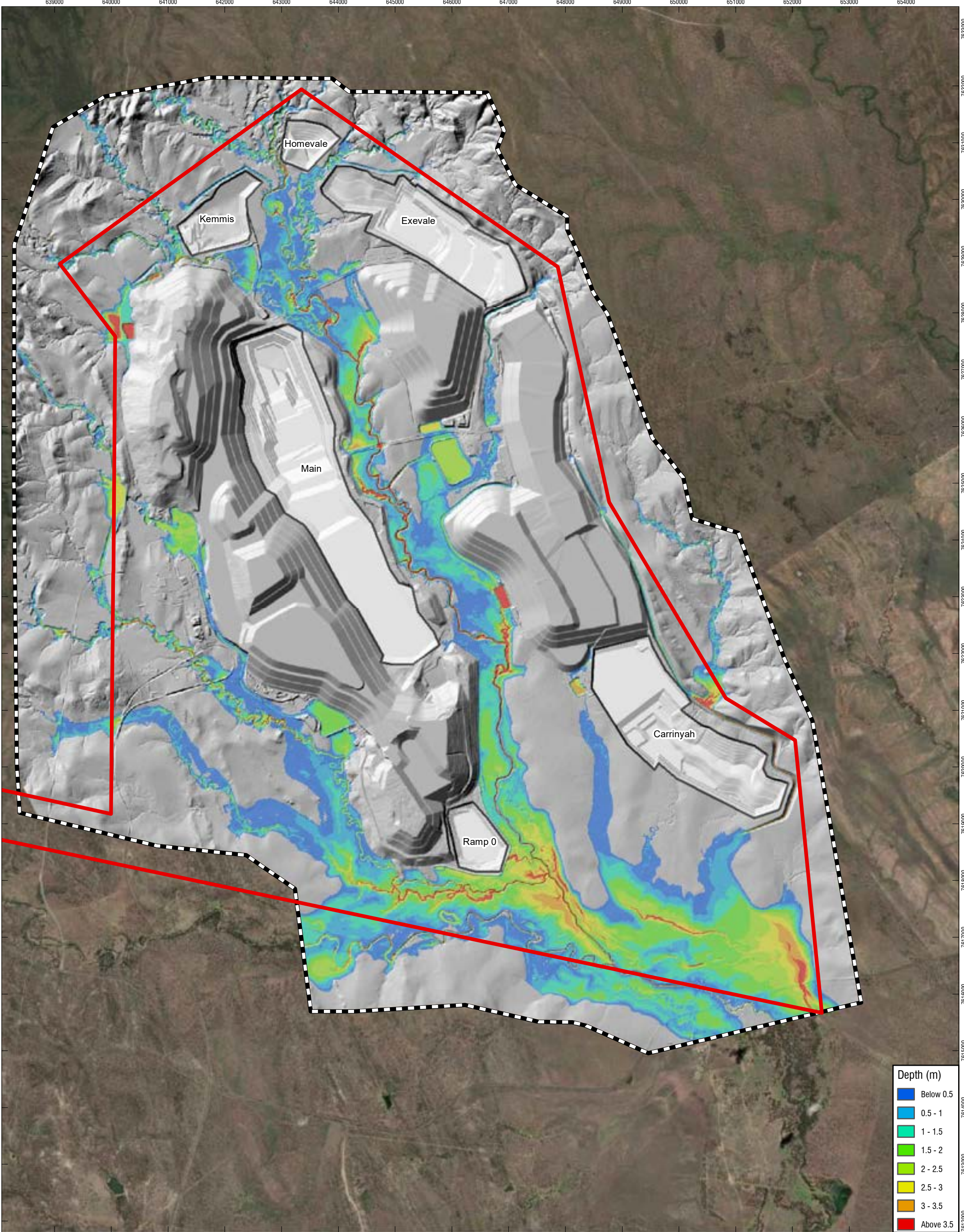
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

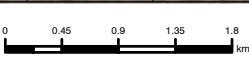
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - 0.1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E3-5_EA21_1in1000_d_SSP5-2040.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend**
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

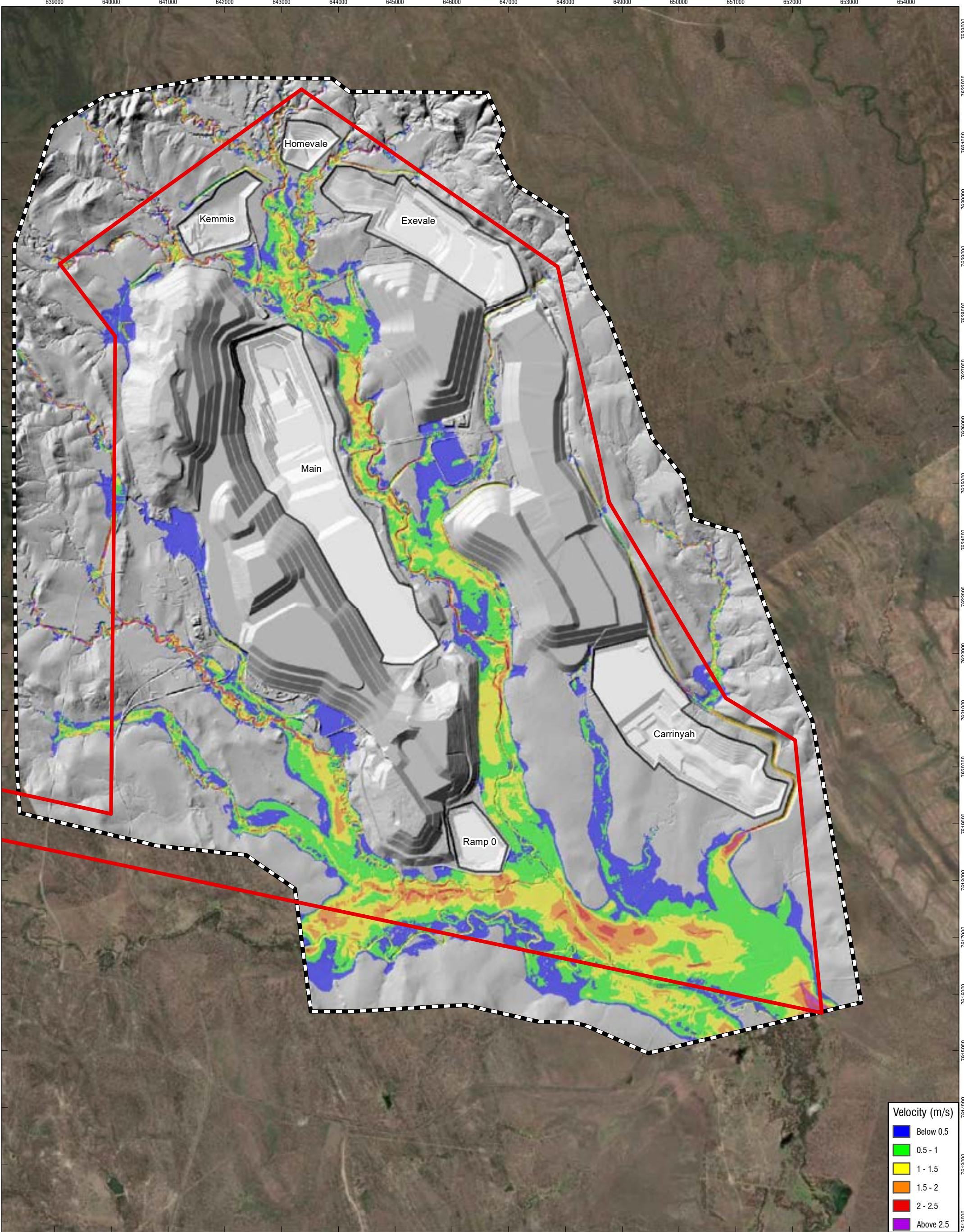
Depth (m)	
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Depths - 0.1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E3-6_EA21_1in1000_v_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

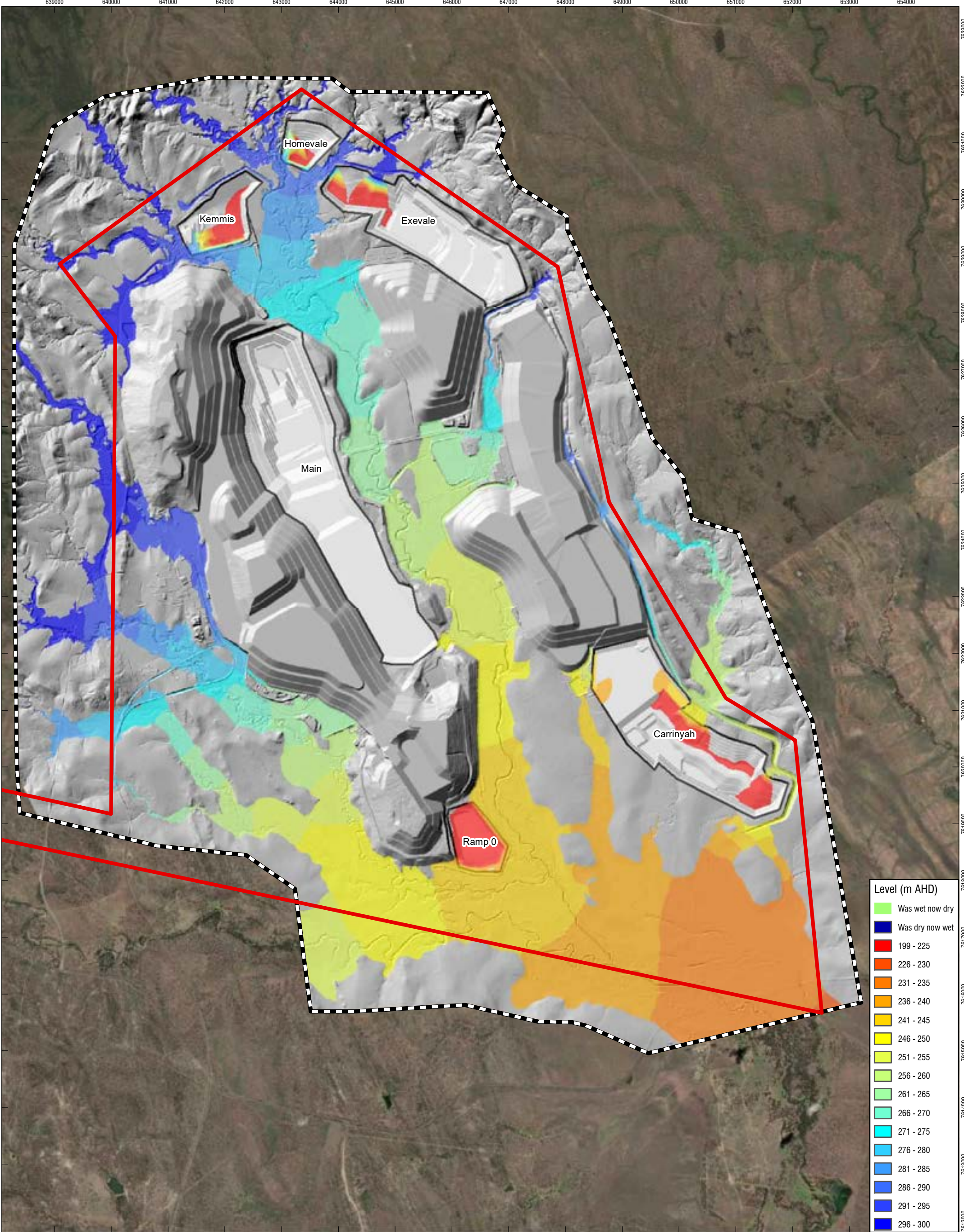
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents



Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Velocities - 0.1% AEP SSP5-2040

H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix\Output\MXD\626 30128_APPENDIX EA21_PMF_h_22040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

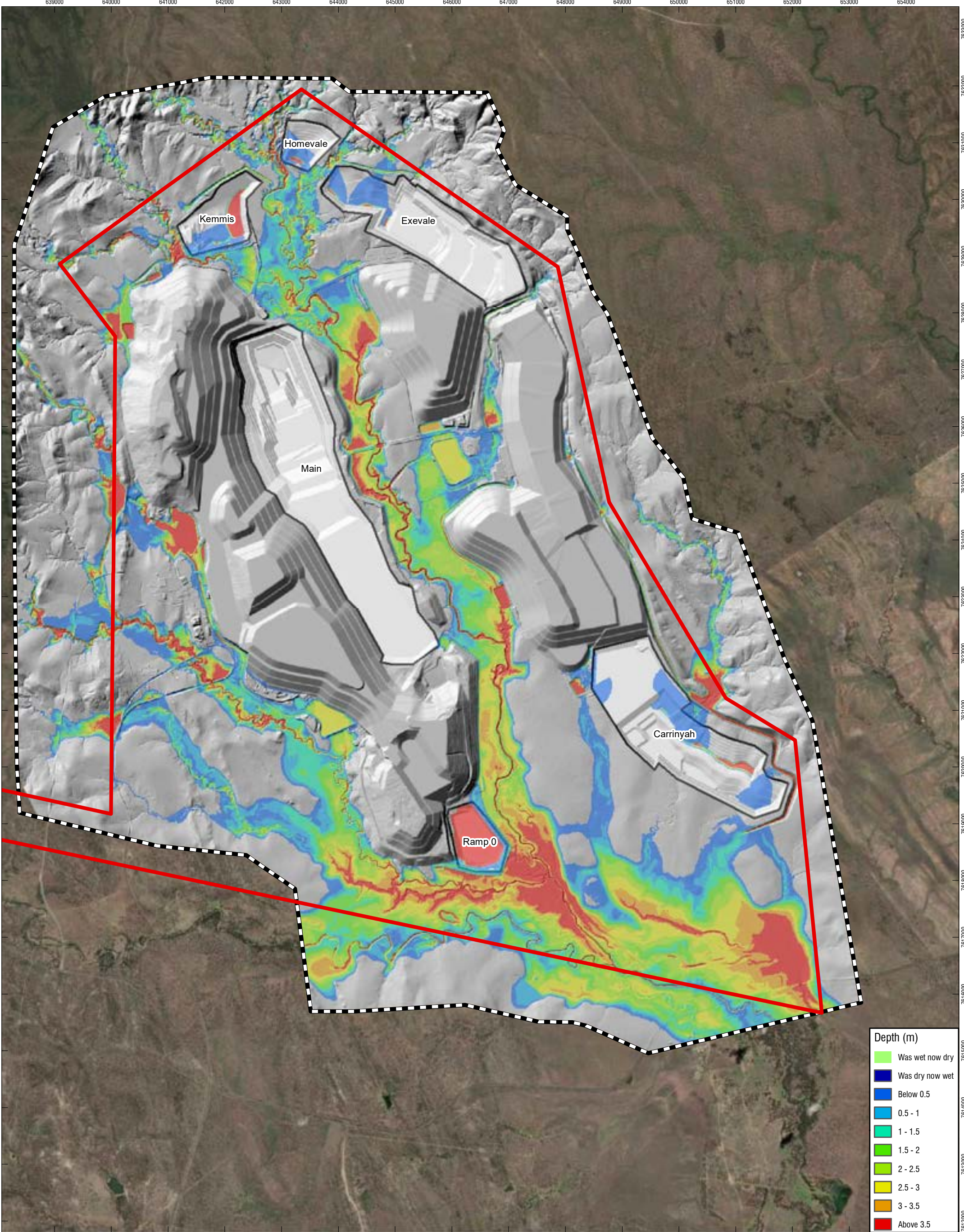
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Levels - PMF SSP2-2040**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E4-2_PMF_d_22040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Depth (m)

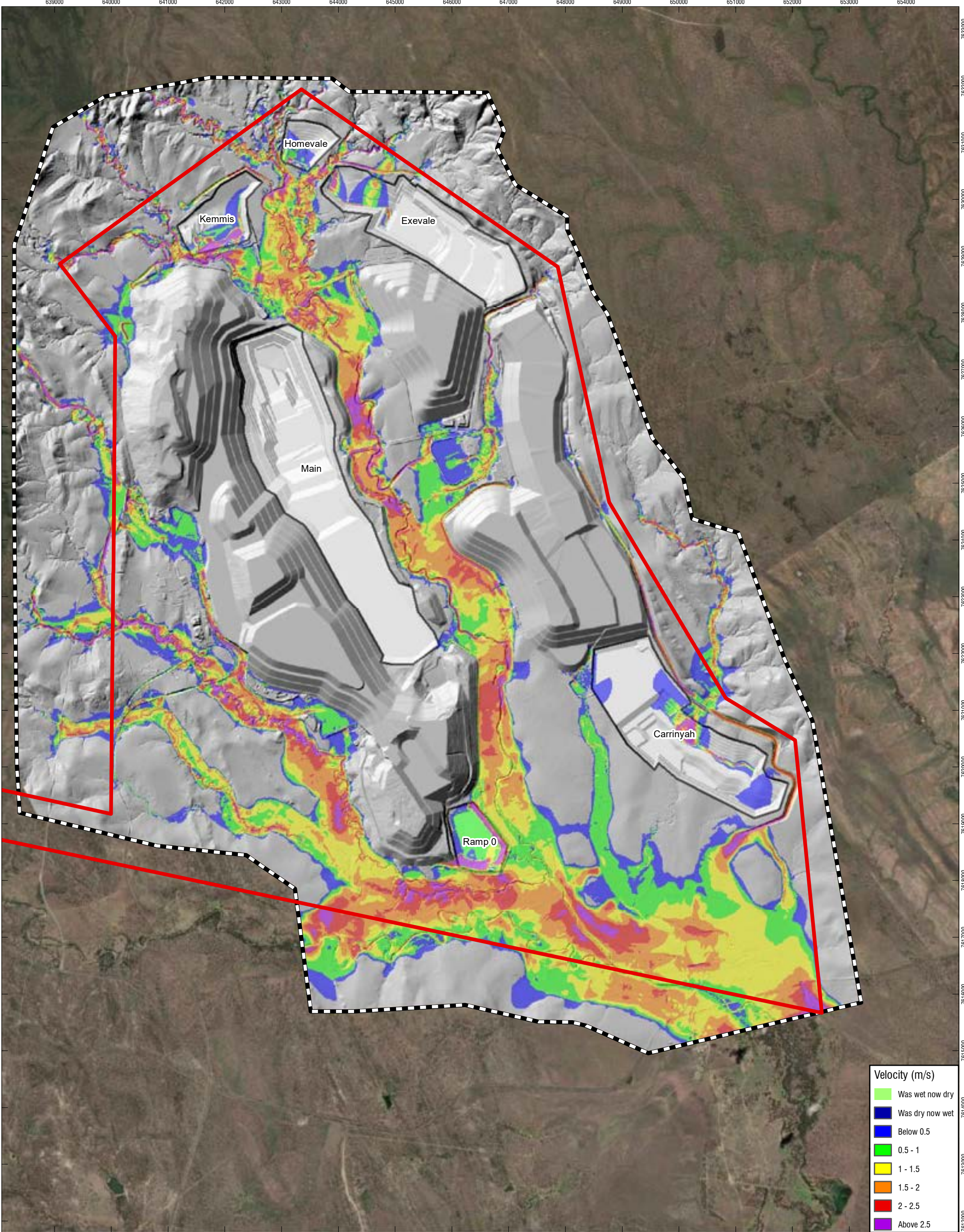
	Was wet now dry
	Was dry now wet
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Depths - PMF SSP2-2040**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix\Output\MXDs\626 30128_APPENDIX E4-3_EA21_PMF_v_22040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

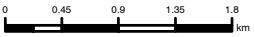
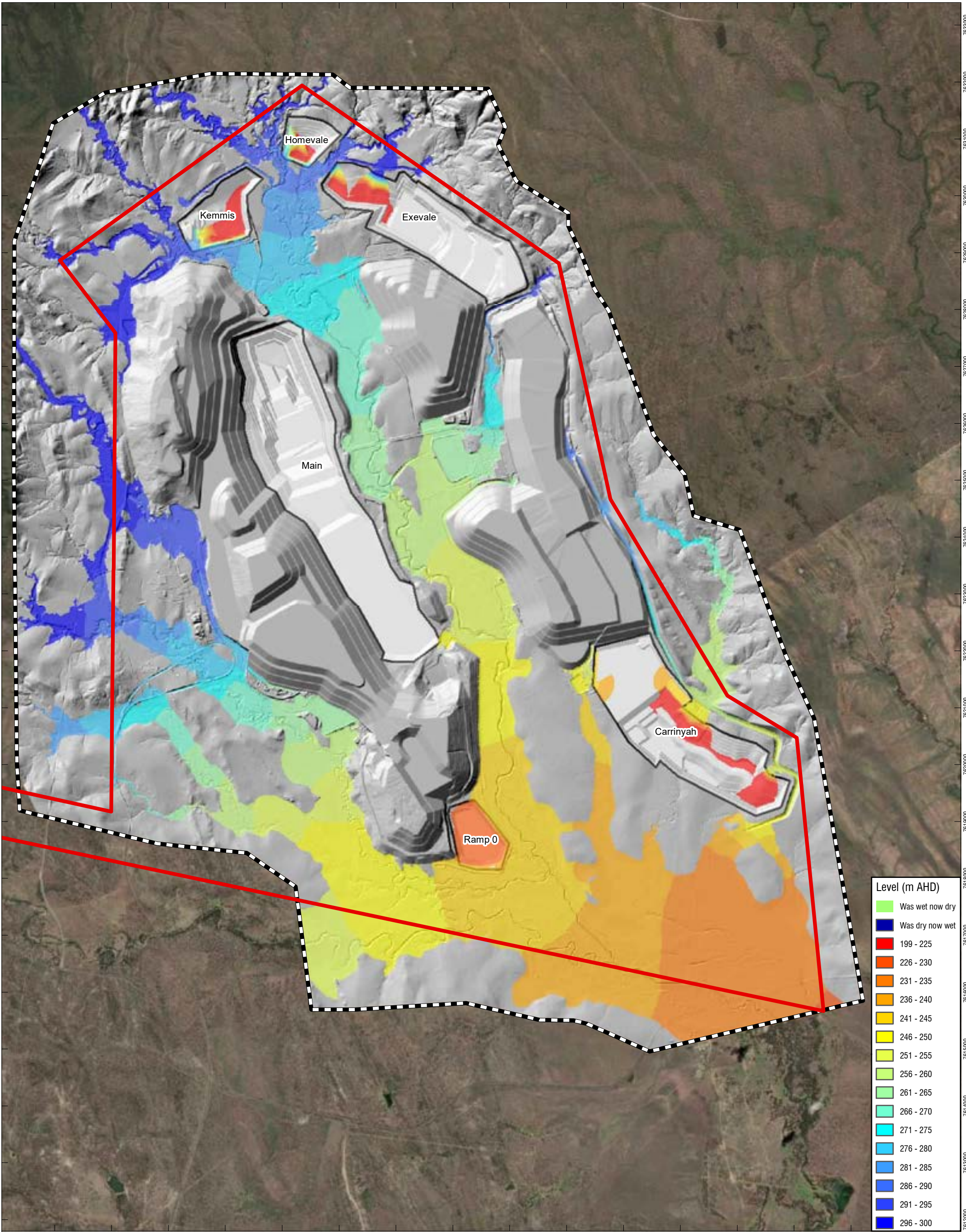
Velocity (m/s)
 Was wet now dry
 Was dry now wet
 Below 0.5
 0.5 - 1
 1 - 1.5
 1.5 - 2
 2 - 2.5
 Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Velocities - PMF SSP2-2040**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix\Output\MXD\626 30128_APPENDIX E4-4_EA21_PMF_h_52040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

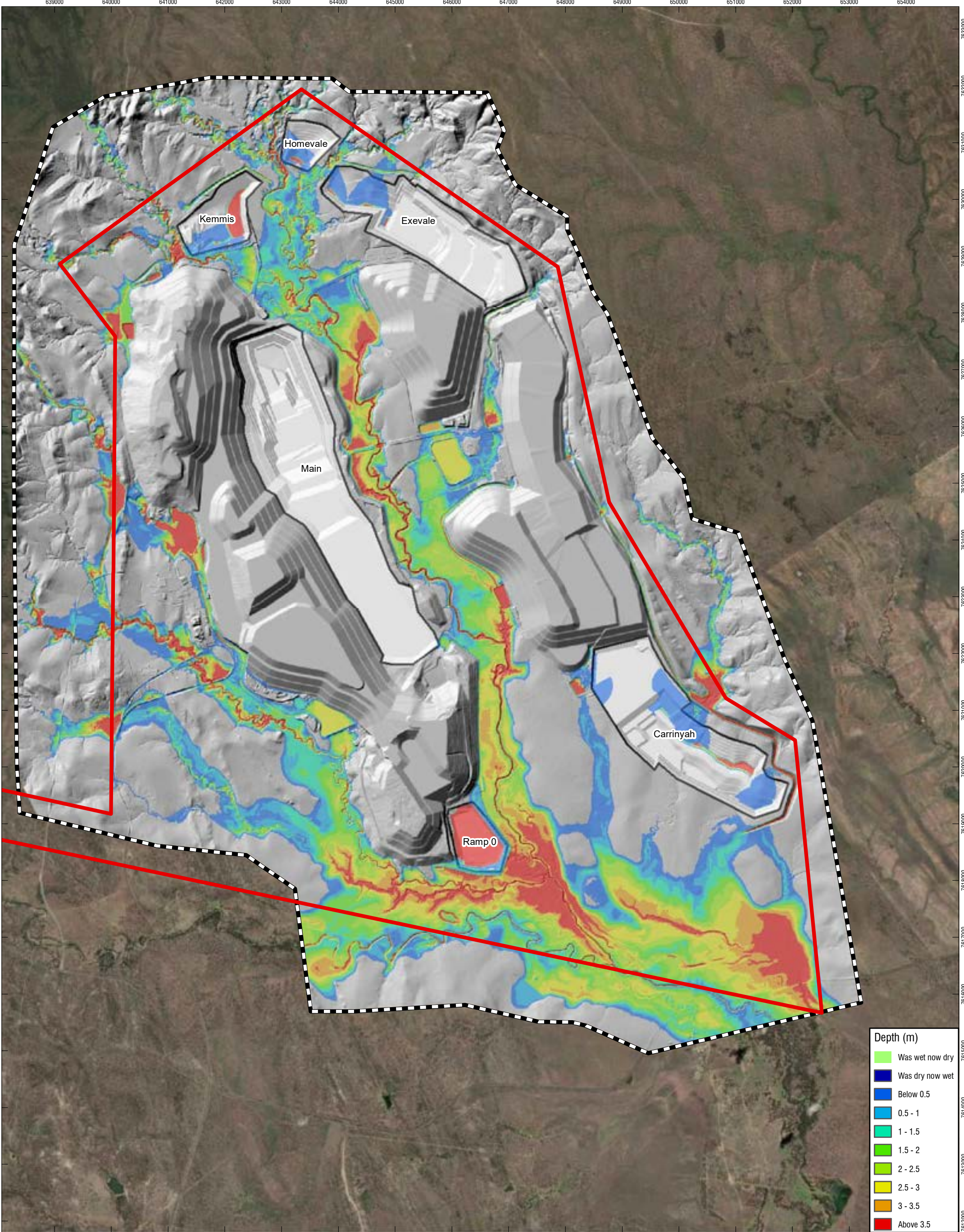
Level (m AHD)	
	Was wet now dry
	Was dry now wet
	199 - 225
	226 - 230
	231 - 235
	236 - 240
	241 - 245
	246 - 250
	251 - 255
	256 - 260
	261 - 265
	266 - 270
	271 - 275
	276 - 280
	281 - 285
	286 - 290
	291 - 295
	296 - 300

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Levels - PMF SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E4-5 EA21_PMF_d_52040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Depth (m)

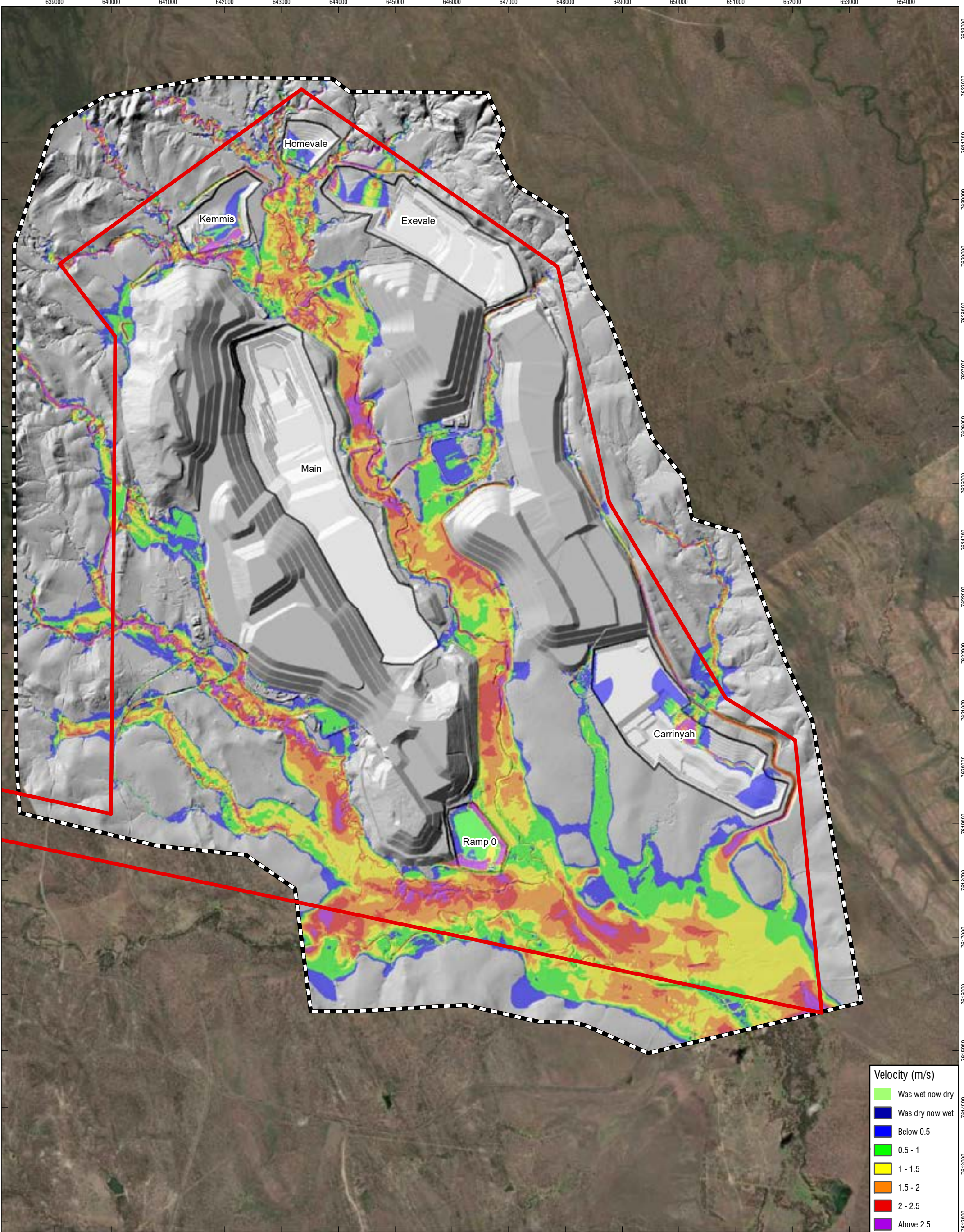
- Was wet now dry
- Was dry now wet
- Below 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 3.5
- Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Depths - PMF SSP5-2040**



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix\Output\MXDs\626 30128_APPENDIX E4-6_EA21_PMF_v_52040.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

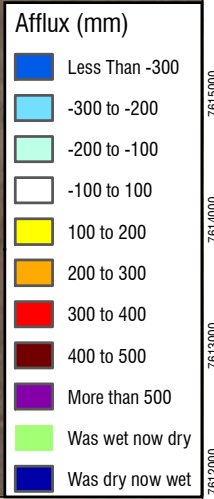
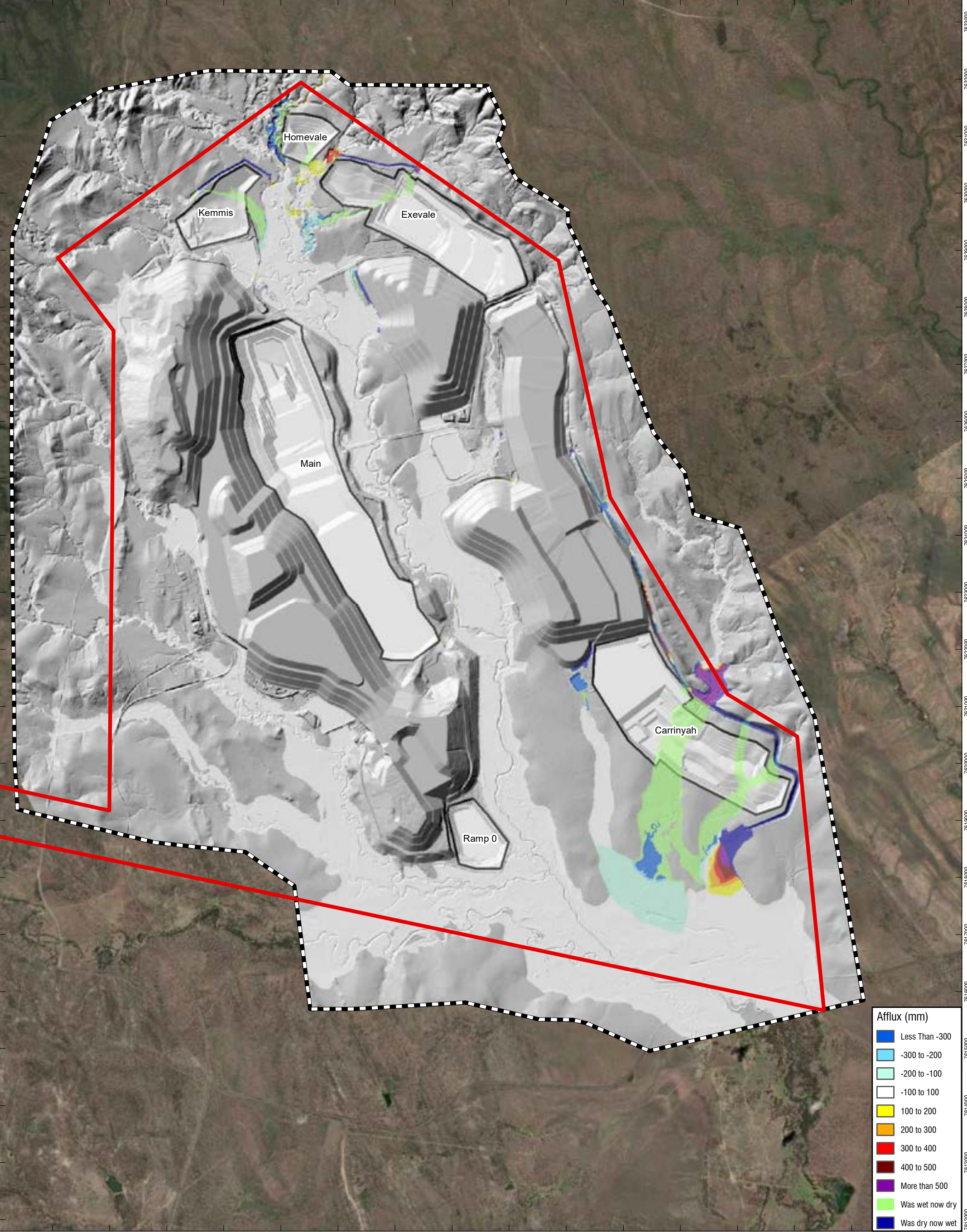
Velocity (m/s)
 Was wet now dry
 Was dry now wet
 Below 0.5
 0.5 - 1
 1 - 1.5
 1.5 - 2
 2 - 2.5
 Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Extended Footprint Scenario (EA21)
Peak Flood Velocities - PMF SSP5-2040**



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E5-1 EA21_in1000_diff_SSP2-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

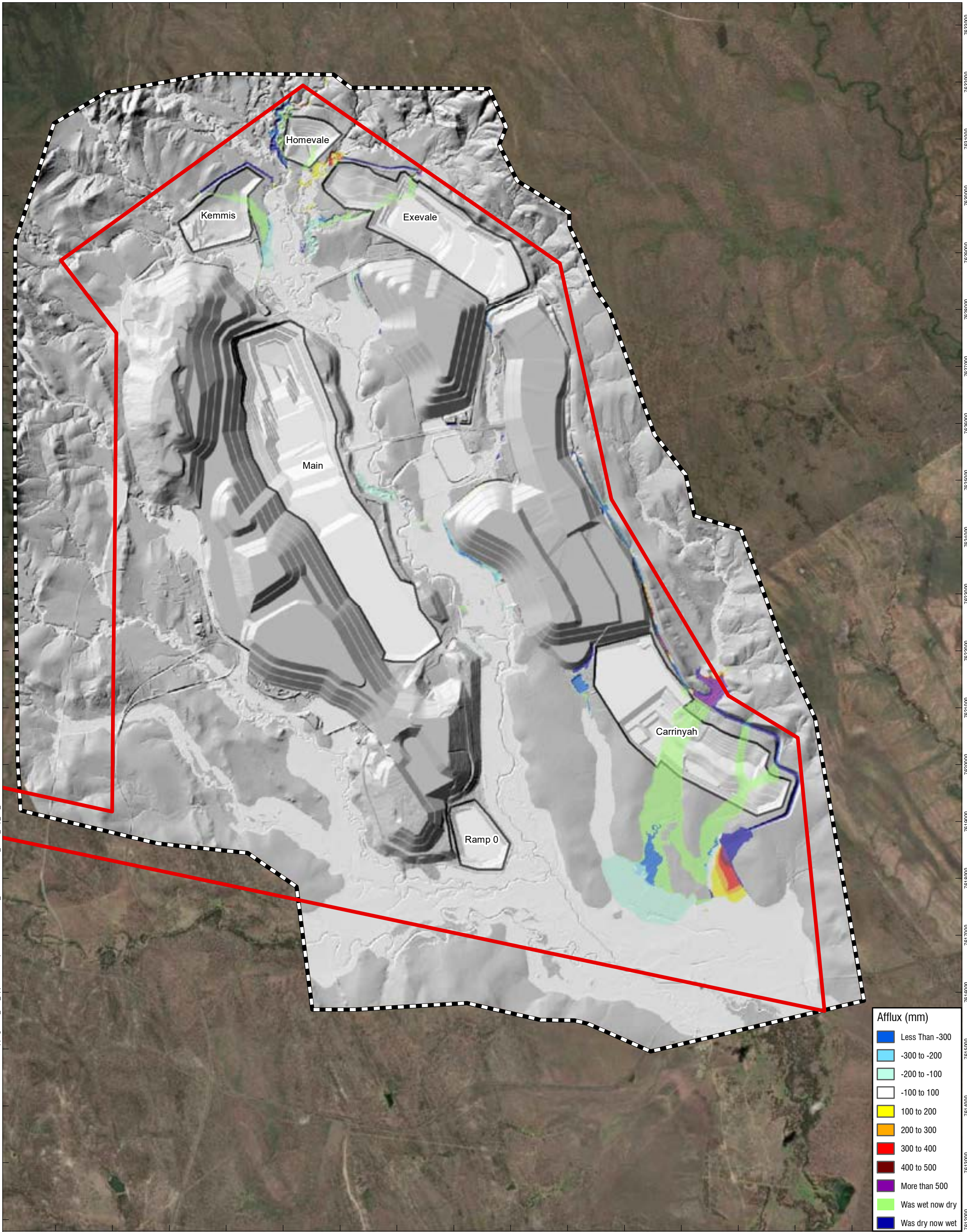
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 0.1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E5-2\Appendix E5-2_EA21_01p_diff_SSP2-2040.mxd



0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Afflux (mm)

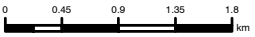
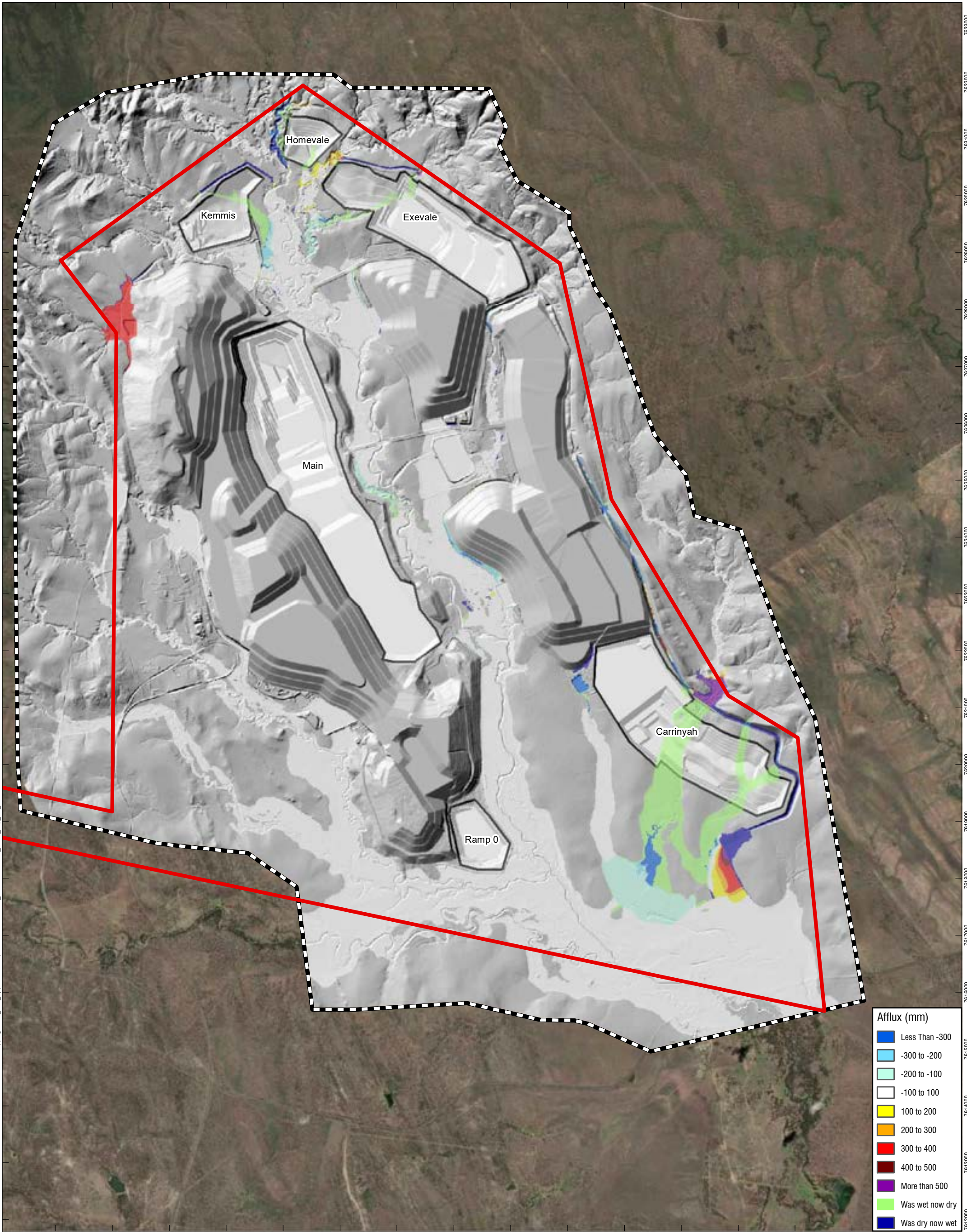
- Less Than -300
- 300 to -200
- 200 to -100
- 100 to 100
- 100 to 200
- 200 to 300
- 300 to 400
- 400 to 500
- More than 500
- Was wet now dry
- Was dry now wet

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 1% AEP SSP2-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E5-3_EA21_02p_diff_SSP2-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Afflux (mm)

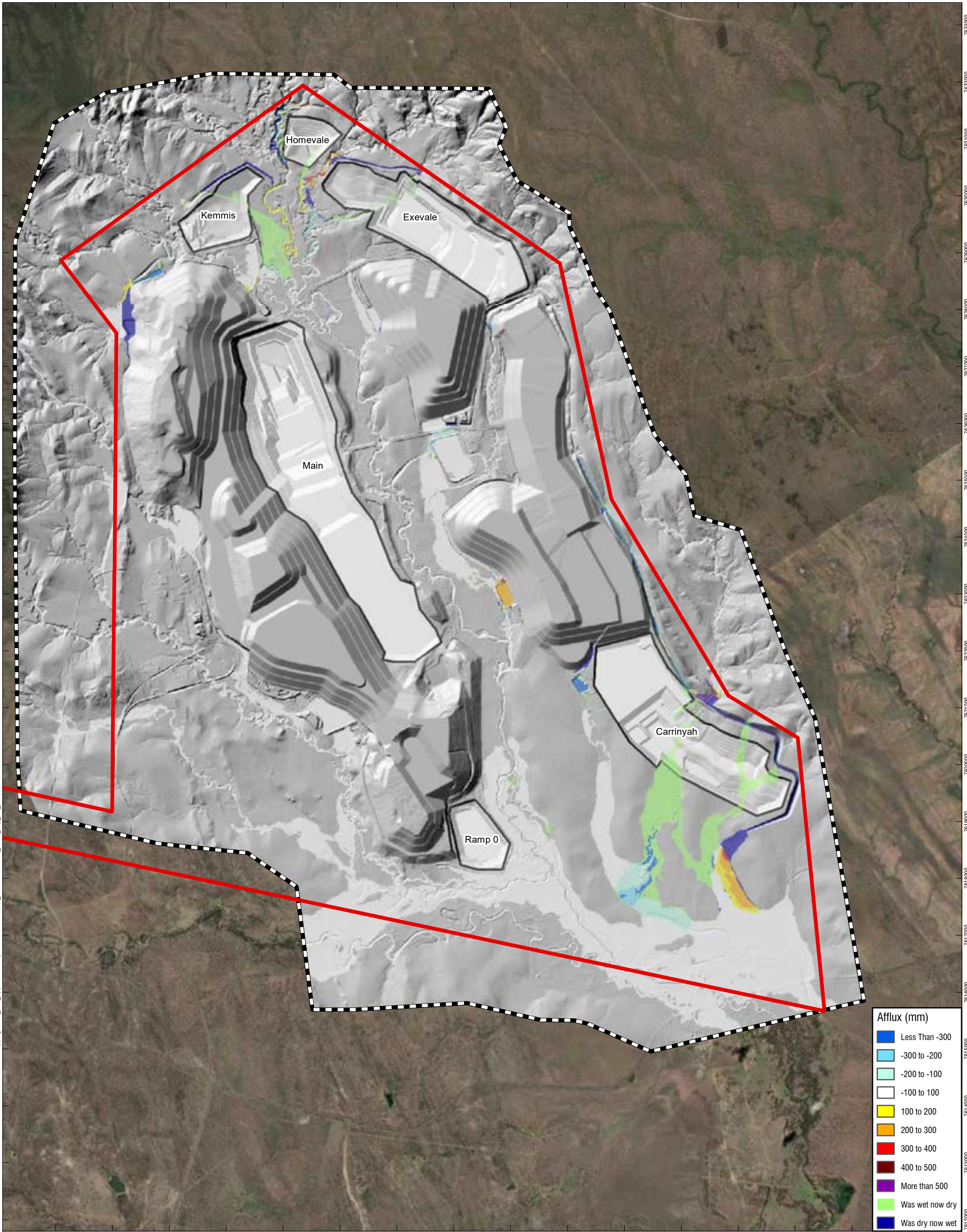
- Less Than -300
- 300 to -200
- 200 to -100
- 100 to 100
- 100 to 200
- 200 to 300
- 300 to 400
- 400 to 500
- More than 500
- Was wet now dry
- Was dry now wet

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 2% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_Appendix E\Output\MXDs\626.30128_APPENDIX E5-4_EA21_50p_diff_SSP2-2040.mxd



0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Afflux (mm)

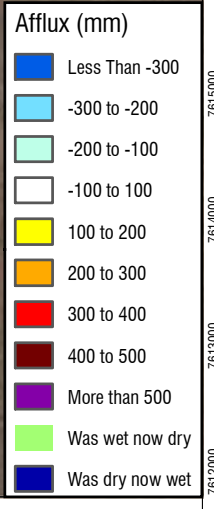
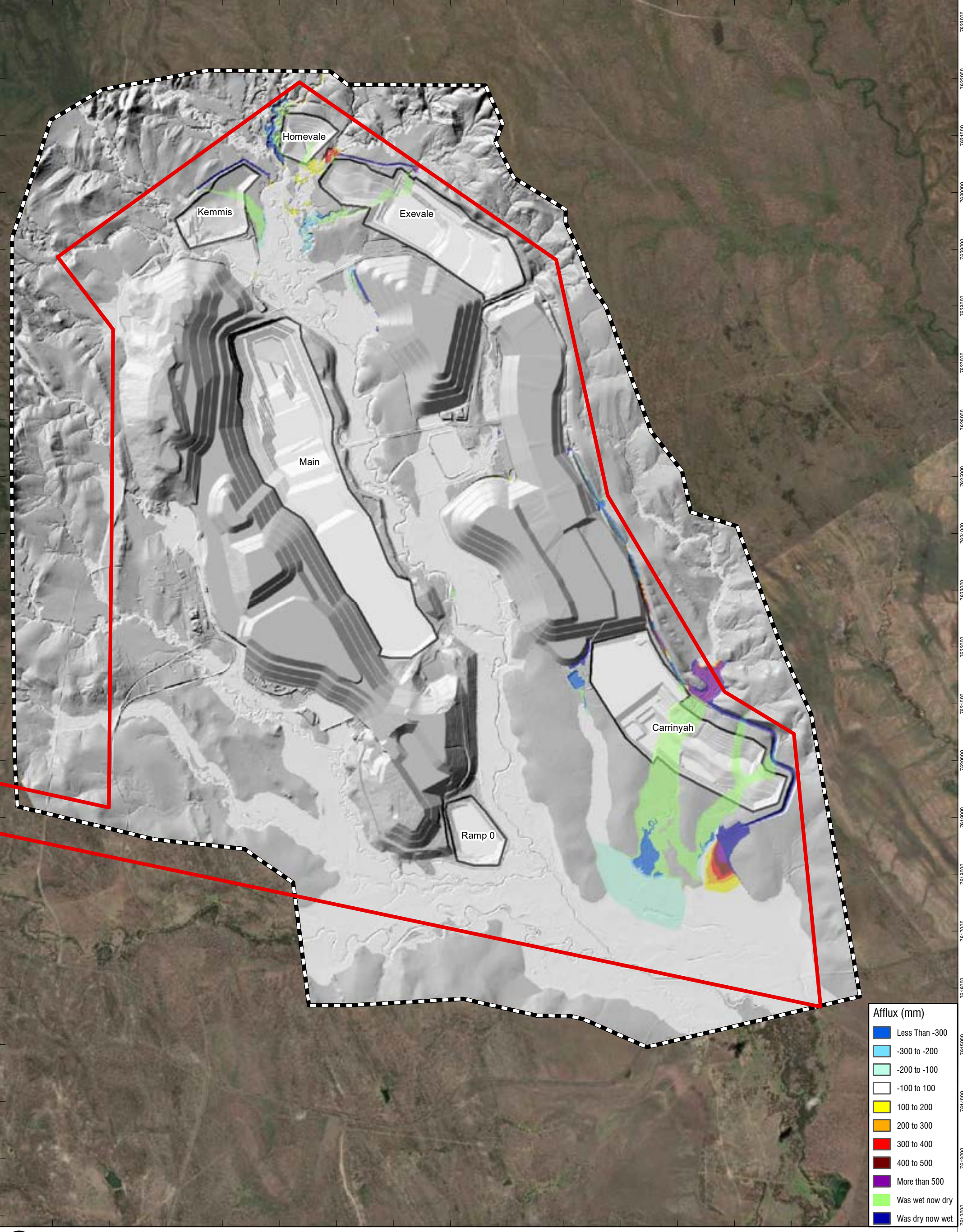
- Less Than -300
- 300 to -200
- 200 to -100
- 100 to 100
- 100 to 200
- 200 to 300
- 300 to 400
- 400 to 500
- More than 500
- Was wet now dry
- Was dry now wet

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 50% AEP SSP2-2040



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E5-5_EA21_1in1000_diff_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

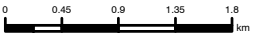
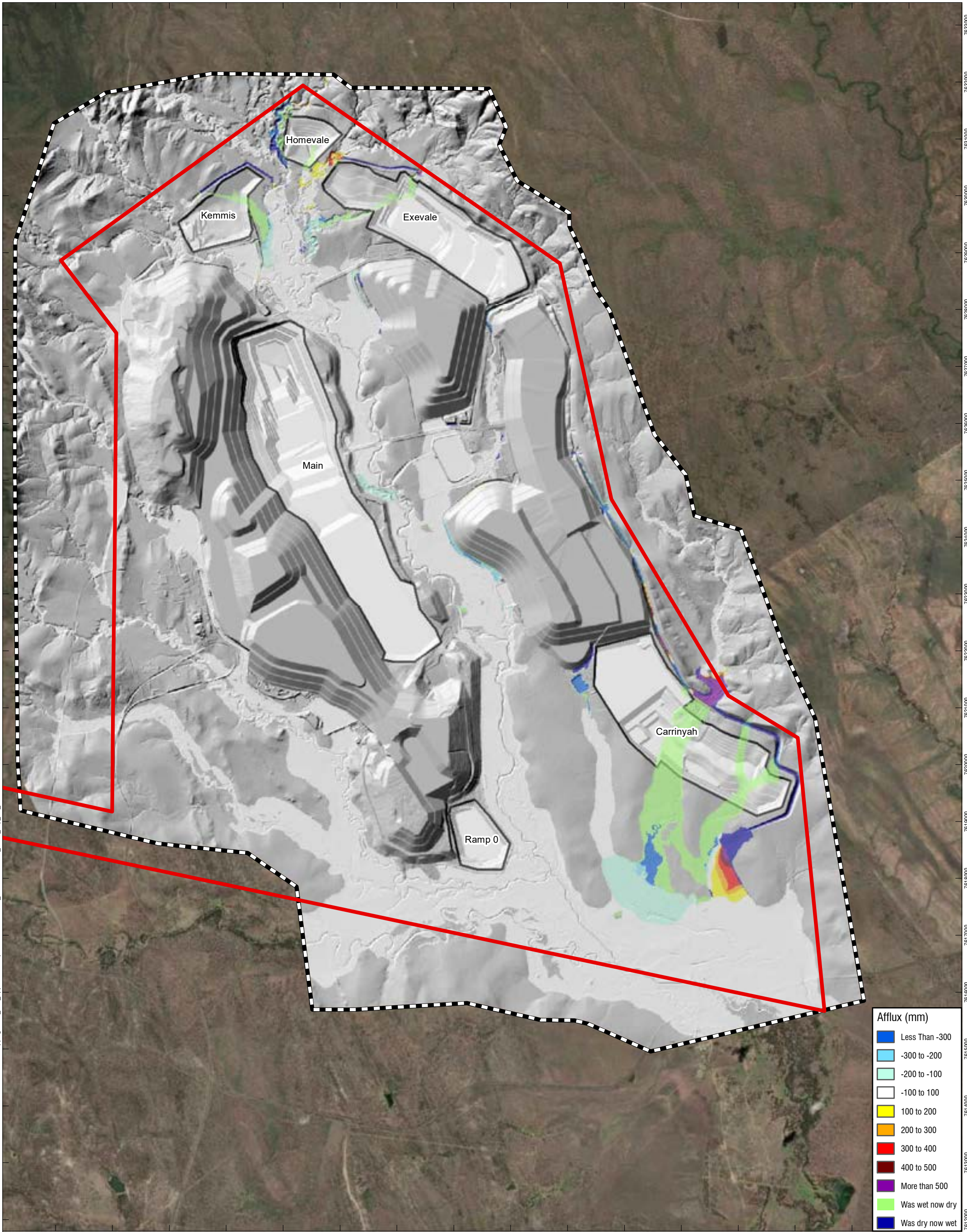
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 0.1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E5-6_EA21_01p_diff_SSP5-2040.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Afflux (mm)

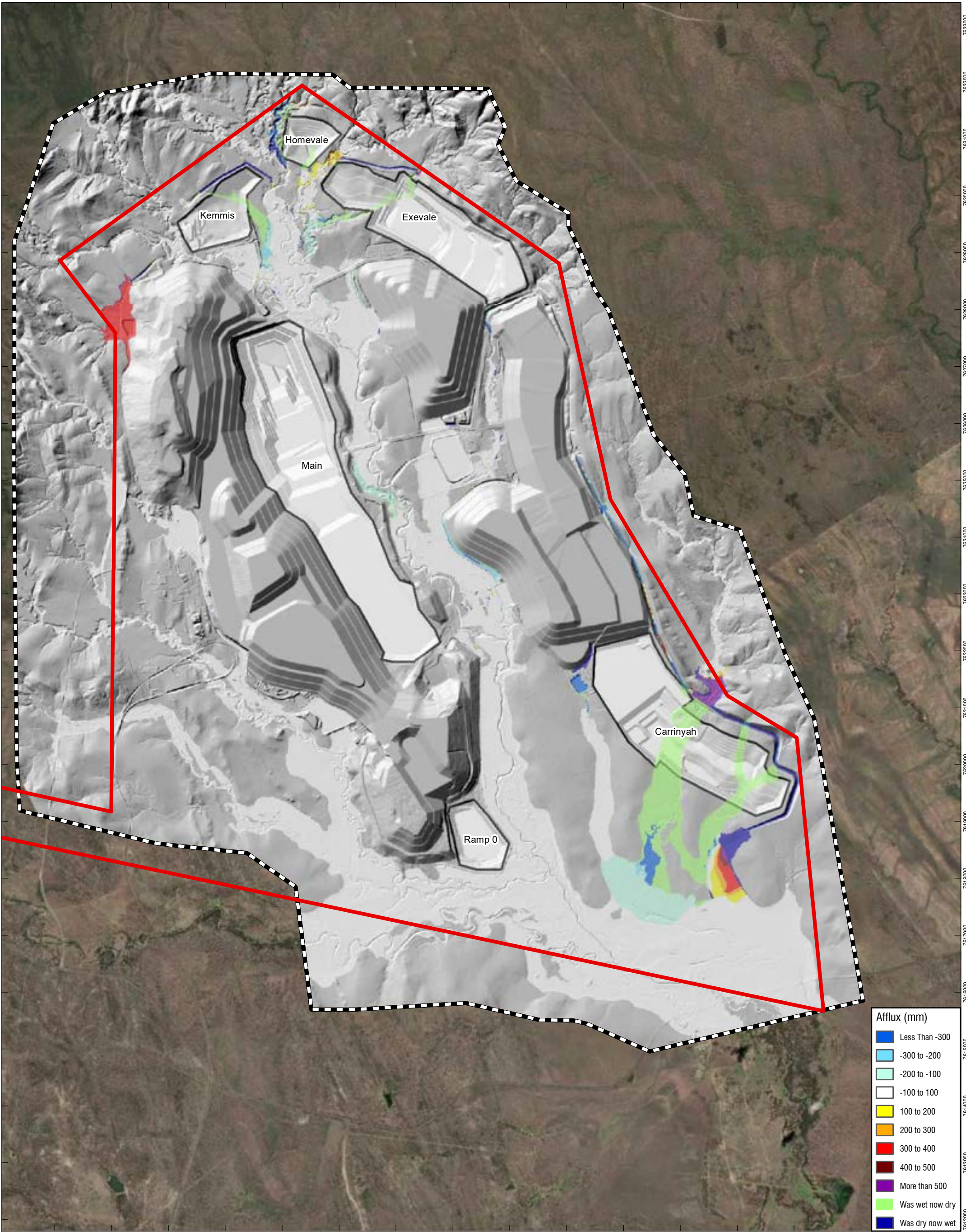
- Less Than -300
- 300 to -200
- 200 to -100
- 100 to 100
- 100 to 200
- 200 to 300
- 300 to 400
- 400 to 500
- More than 500
- Was wet now dry
- Was dry now wet

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 1% AEP SSP5-2040



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626 30128_APPENDIX E5-7_EA21_02p_diff_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Afflux (mm)

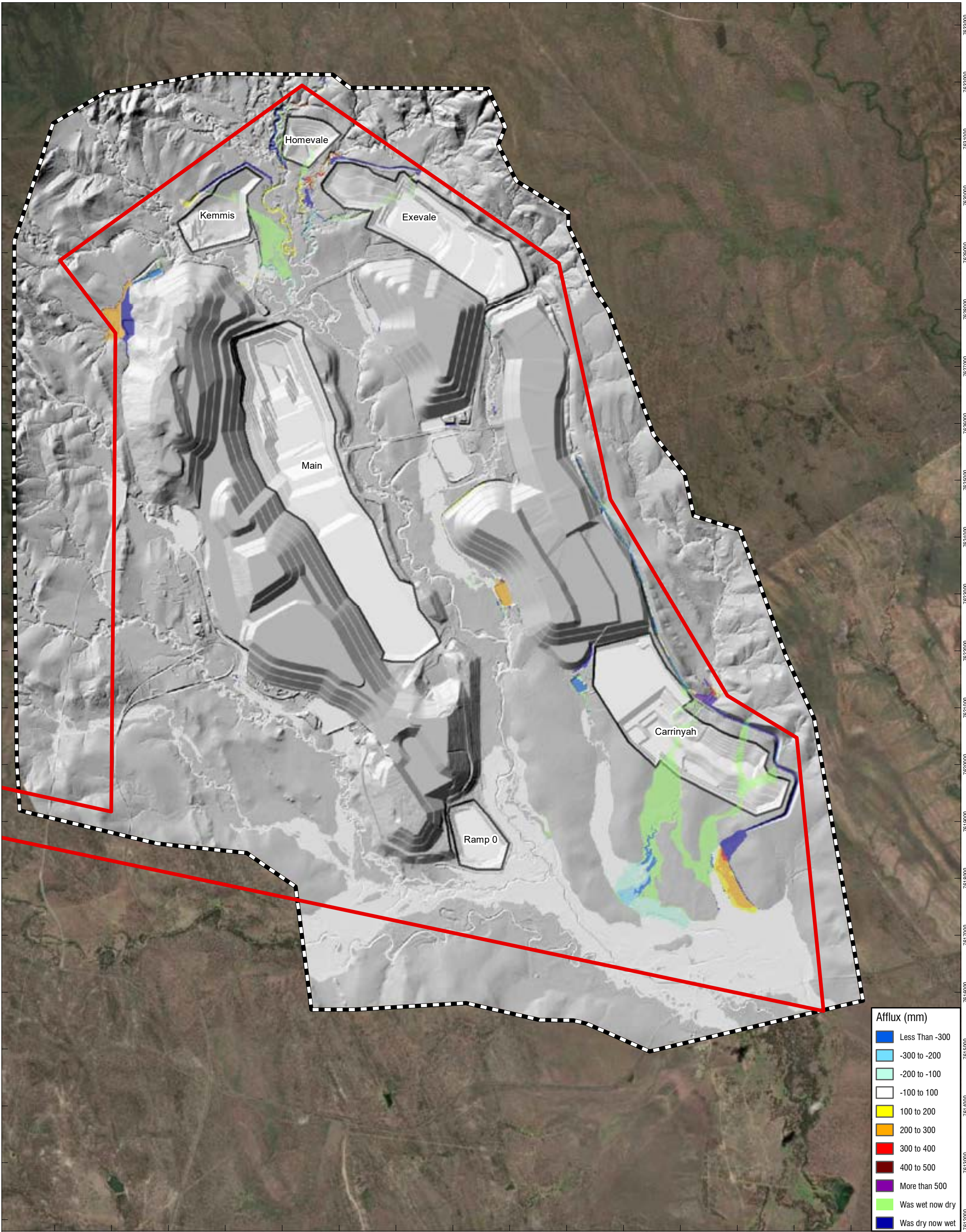
-  Less Than -300
-  -300 to -200
-  -200 to -100
-  -100 to 100
-  100 to 200
-  200 to 300
-  300 to 400
-  400 to 500
-  More than 500
-  Was wet now dry
-  Was dry now wet

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 2% AEP SSP5-2040



H:\Projects\SLR\626-MKY\626.30128.00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21_Dev_AppendixE\Output\MXDs\626.30128_APPENDIX E5-8_EA21_50p_diff_SSP5-2040.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

 Pit Extents

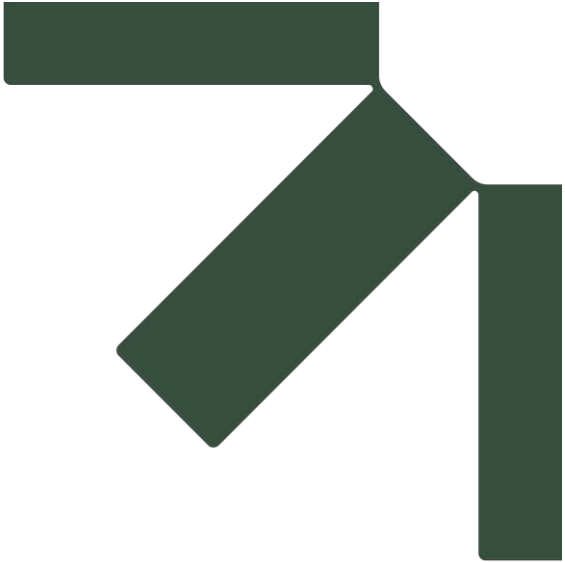
Afflux (mm)

	Less Than -300
	-300 to -200
	-200 to -100
	-100 to 100
	100 to 200
	200 to 300
	300 to 400
	400 to 500
	More than 500
	Was wet now dry
	Was dry now wet

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Extended Footprint Scenario (EA21)
Peak Flood Afflux - 50% AEP SSP5-2040





Appendix F TUFLOW Results – Final Landform Scenario

Hail Creek Open Cut Eastern Margin Extension

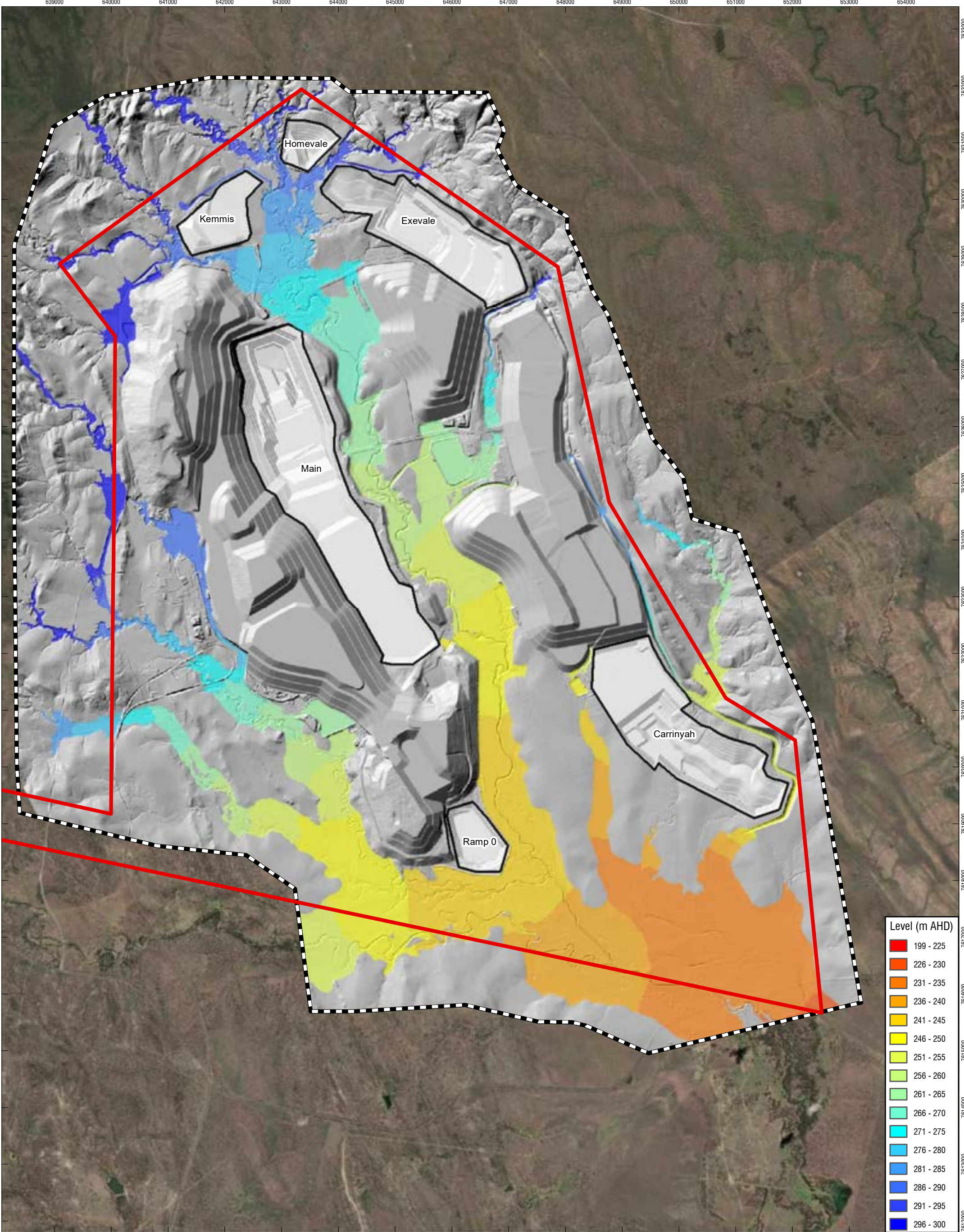
Replacement Surface Water Assessment

Hail Creek Coal Holdings Pty Limited

SLR Project No.: 626.V30128.00017

12 November 2025

H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F1-1_EA21FL_in1000_h_SSP2-2100.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

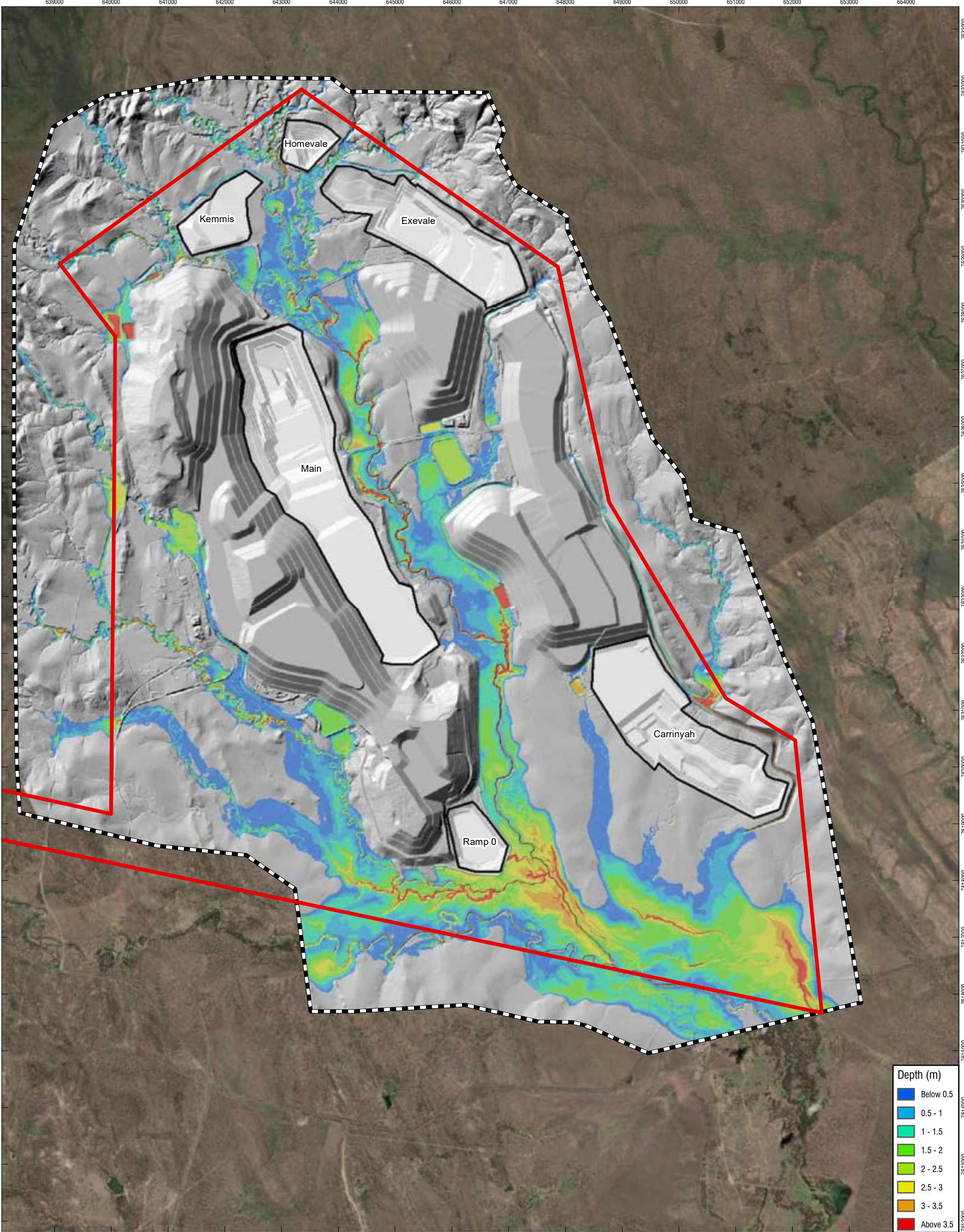
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

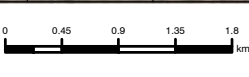
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Final Landform Scenario (EA21FL)
Peak Flood Levels - 0.1% AEP SSP2-2100**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F1-2_EA21FL_in1000_d_SSP2-2100.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

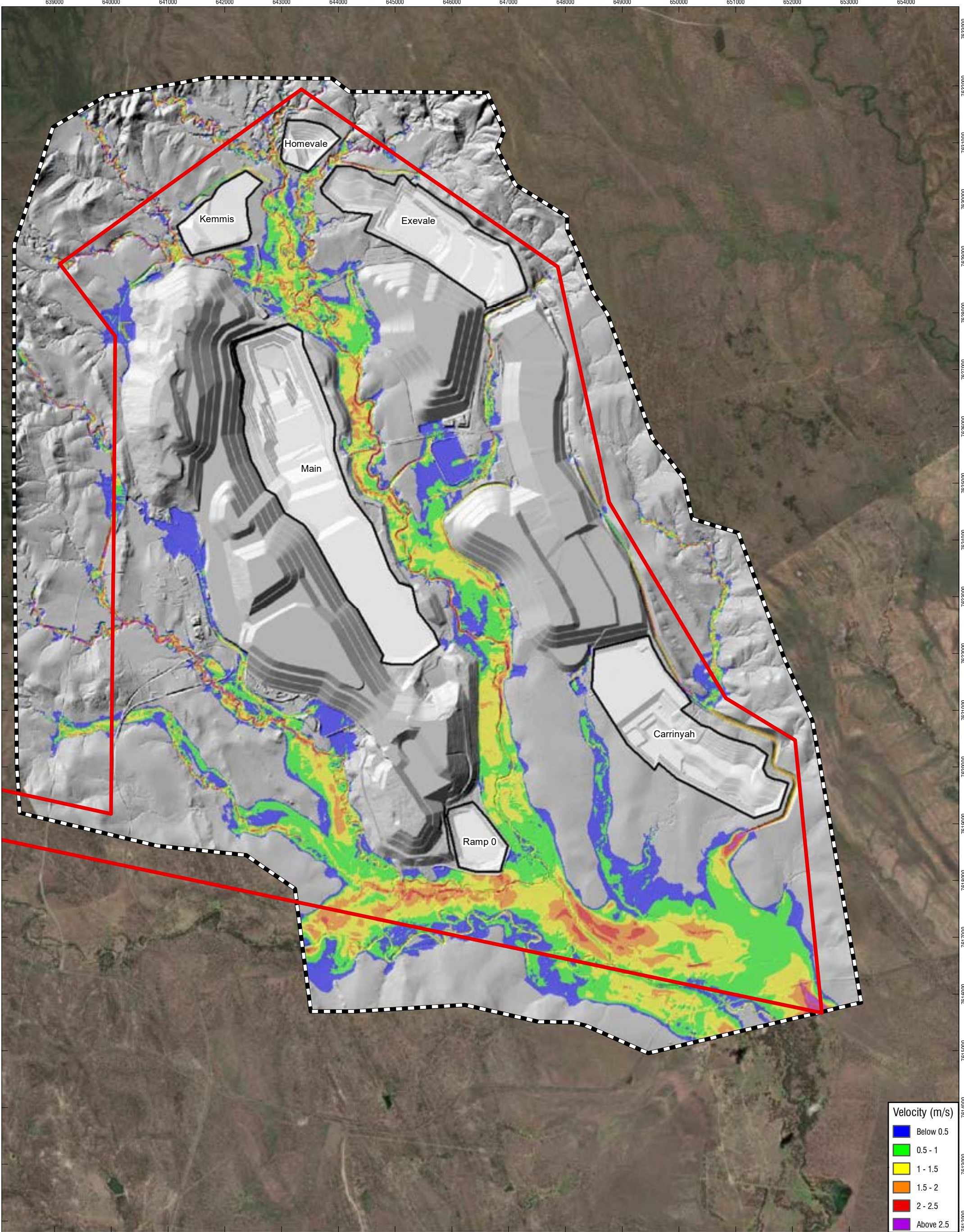
- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

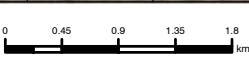


Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Final Landform Scenario (EA21FL)
Peak Flood Depths - 0.1% AEP SSP2-2100

H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F1-3_EA21FL_in1000_v_SSP2-2100.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

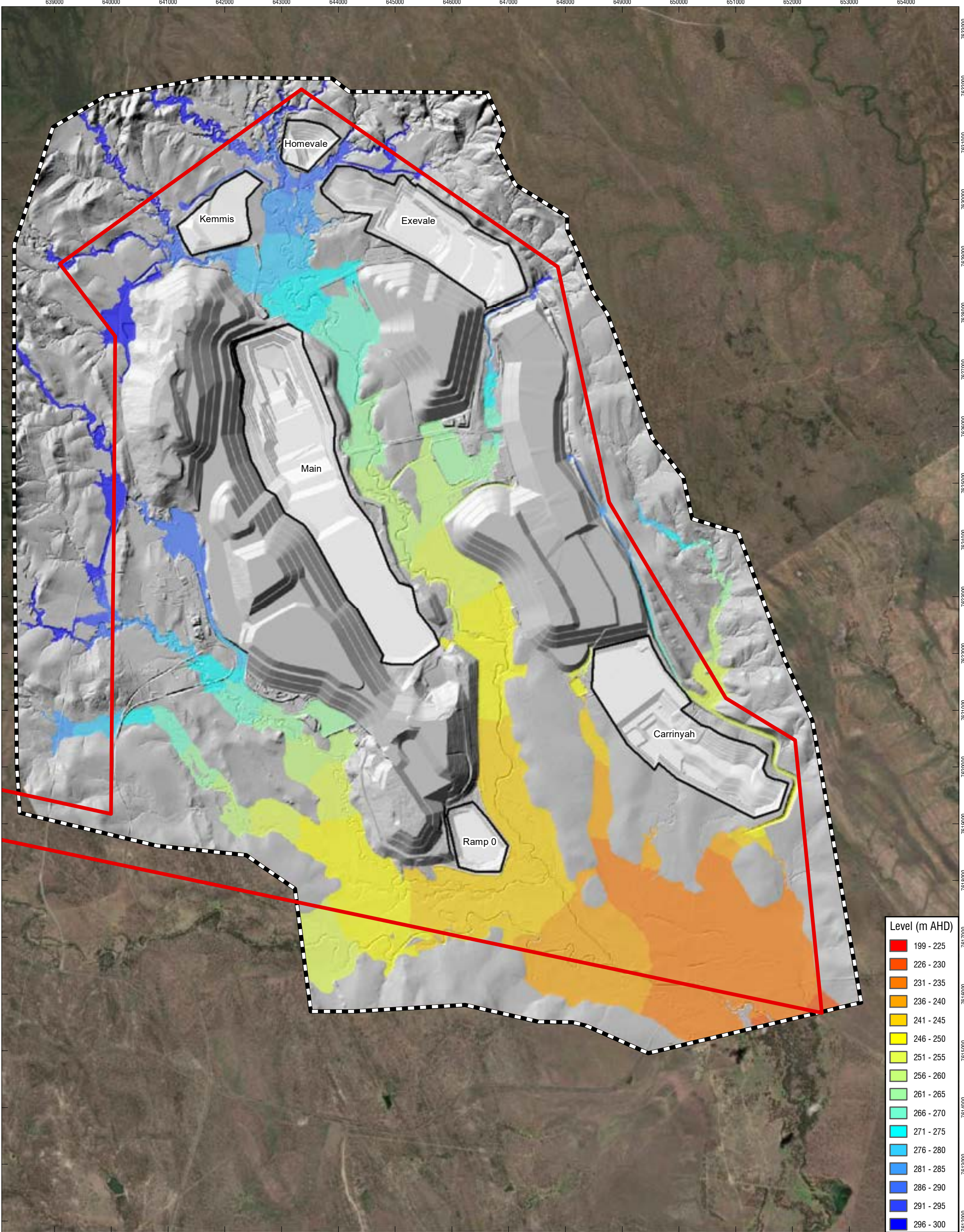
Velocity (m/s)	
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Final Landform Scenario (EA21FL)
Peak Flood Velocities - 0.1% AEP SSP2-2100



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F1-4_EA21FL_in1000_h_SSP5-2100.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

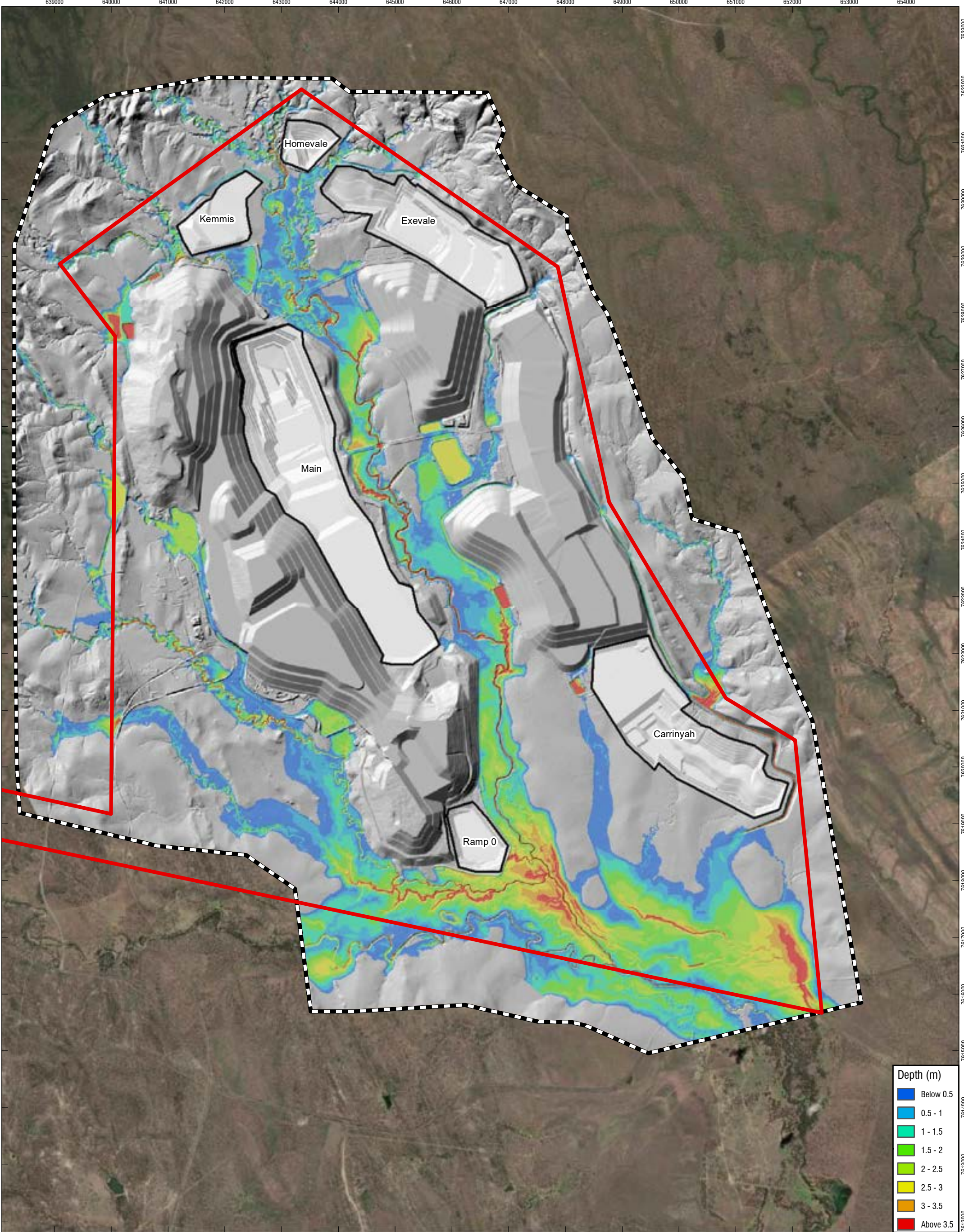
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

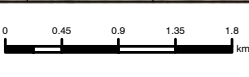
Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Final Landform Scenario (EA21FL)
Peak Flood Levels - 0.1% AEP SSP5-2100



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F1-5_EA21FL_in1000_d_SSP5-2100.mxd





Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

- Legend
-  Site Boundary
 -  TUFLOW Model Extent
 -  Pit Extents

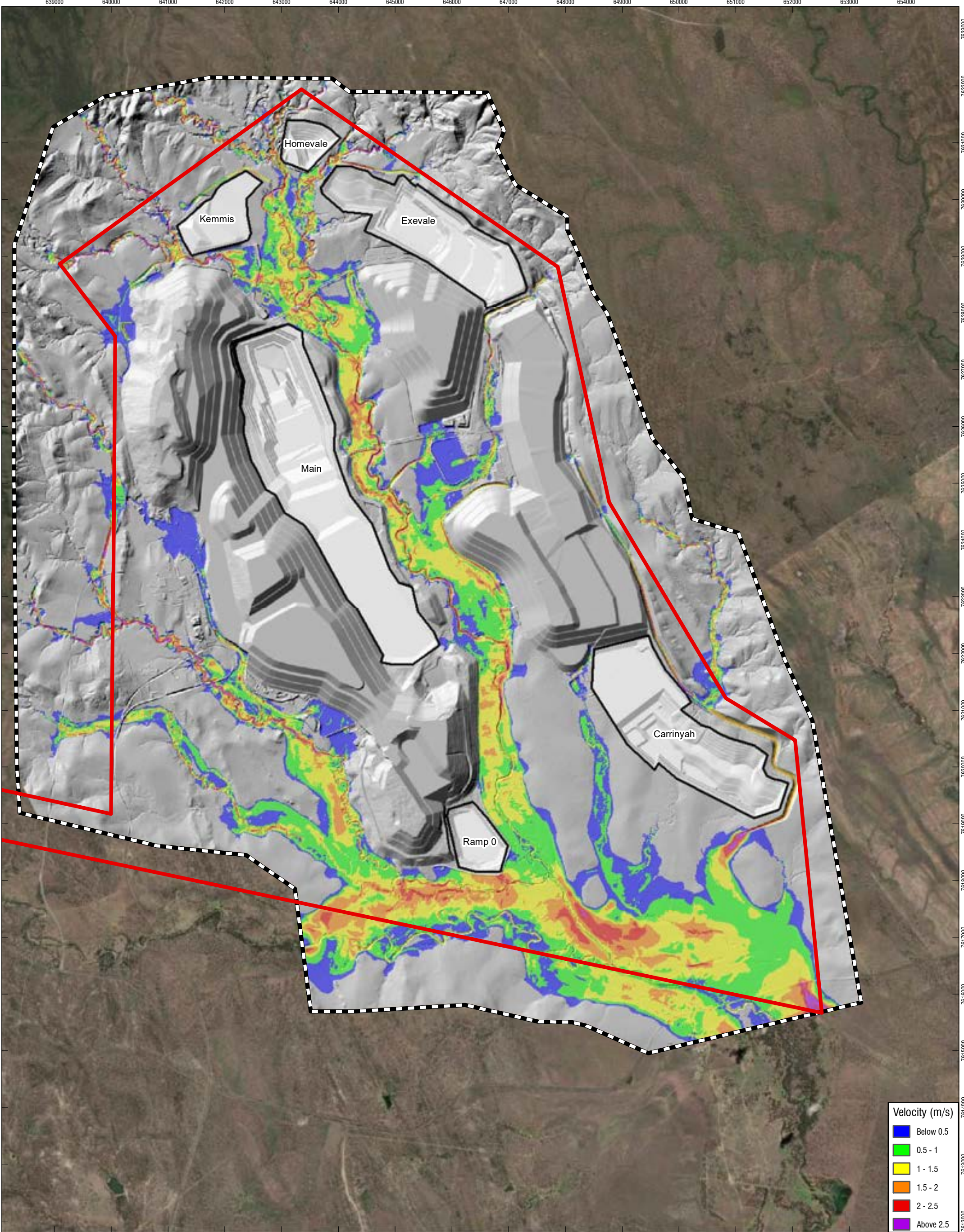
Depth (m)	
	Below 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2 - 2.5
	2.5 - 3
	3 - 3.5
	Above 3.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Final Landform Scenario (EA21FL)
Peak Flood Depths - 0.1% AEP SSP5-2100



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F1-6_EA21FL_in1000_v_SSP5-2100.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55

Scale: 1:60,000 at A3

Project Number: 626.30099

Date: 16-Sep-2025

Drawn by: HM

Legend

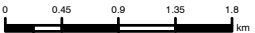
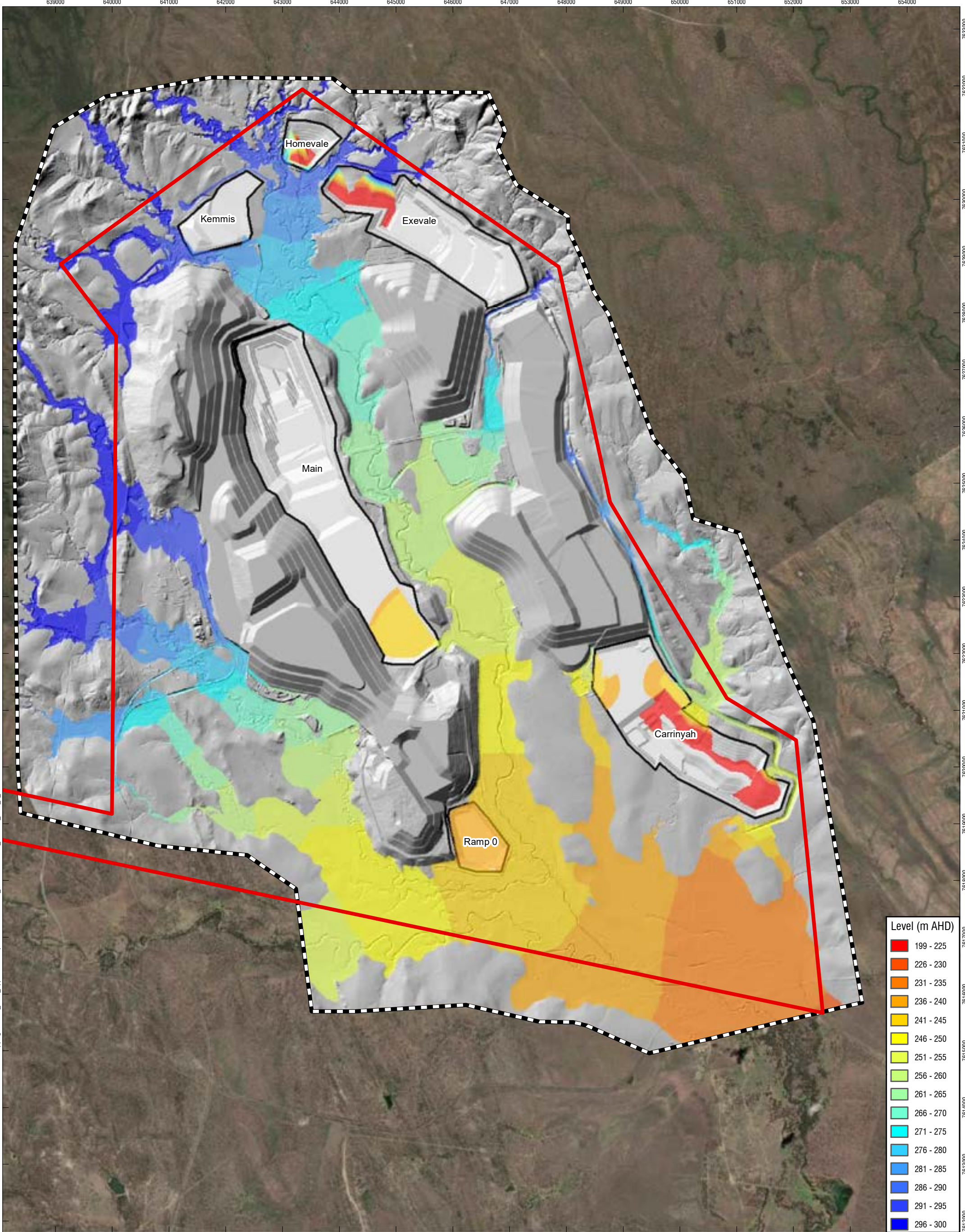
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Final Landform Scenario (EA21FL)
Peak Flood Velocities - 0.1% AEP SSP5-2100



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F2-1_EA21FL_PMF_h_22100.mxd



Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

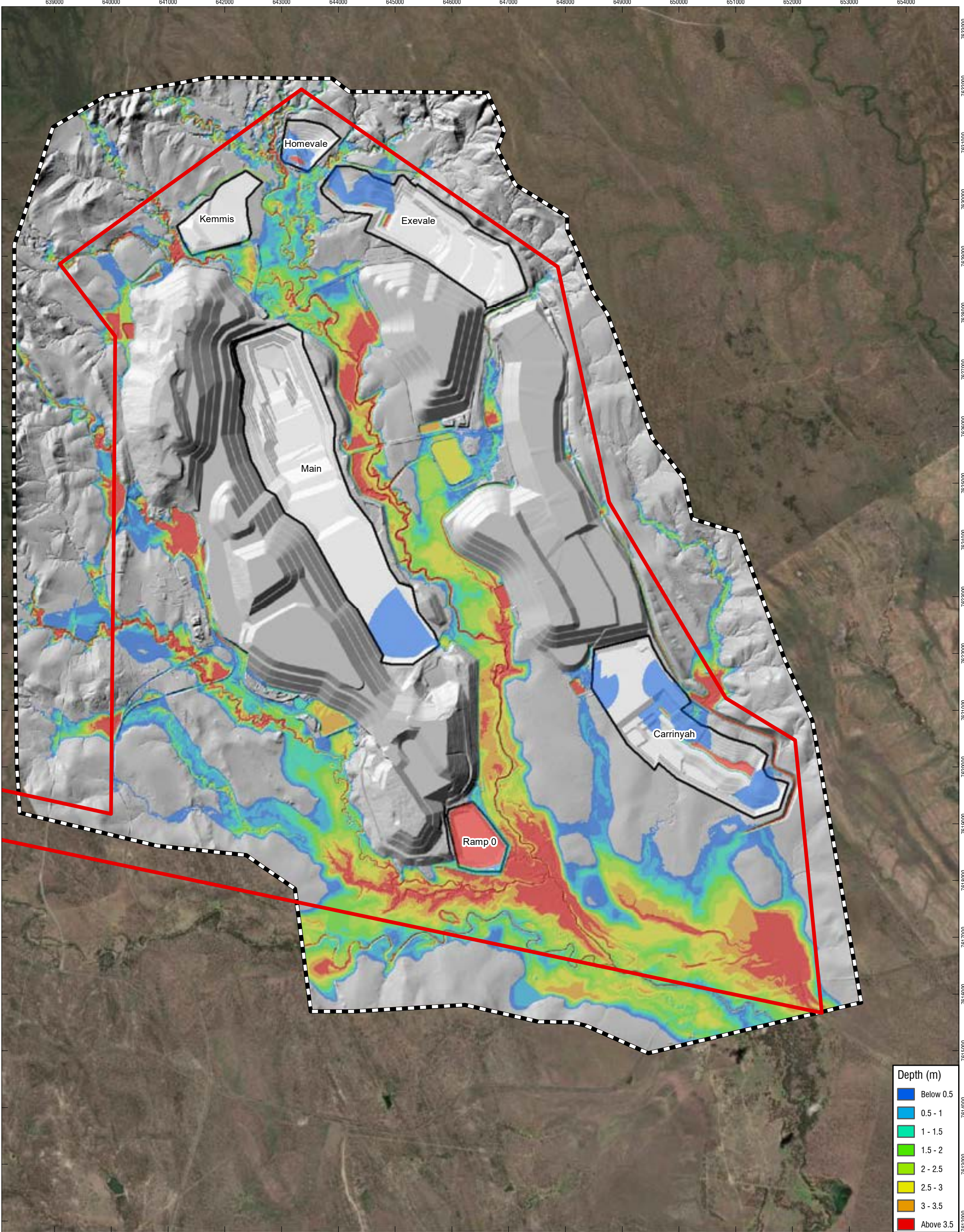
- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Level (m AHD)	
	199 - 225
	226 - 230
	231 - 235
	236 - 240
	241 - 245
	246 - 250
	251 - 255
	256 - 260
	261 - 265
	266 - 270
	271 - 275
	276 - 280
	281 - 285
	286 - 290
	291 - 295
	296 - 300

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Final Landform Scenario (EA21FL)
Peak Flood Levels - PMF SSP2-2100

H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128 EA21FL_PMF_d_22100.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

 Site Boundary

 TUFLOW Model Extent

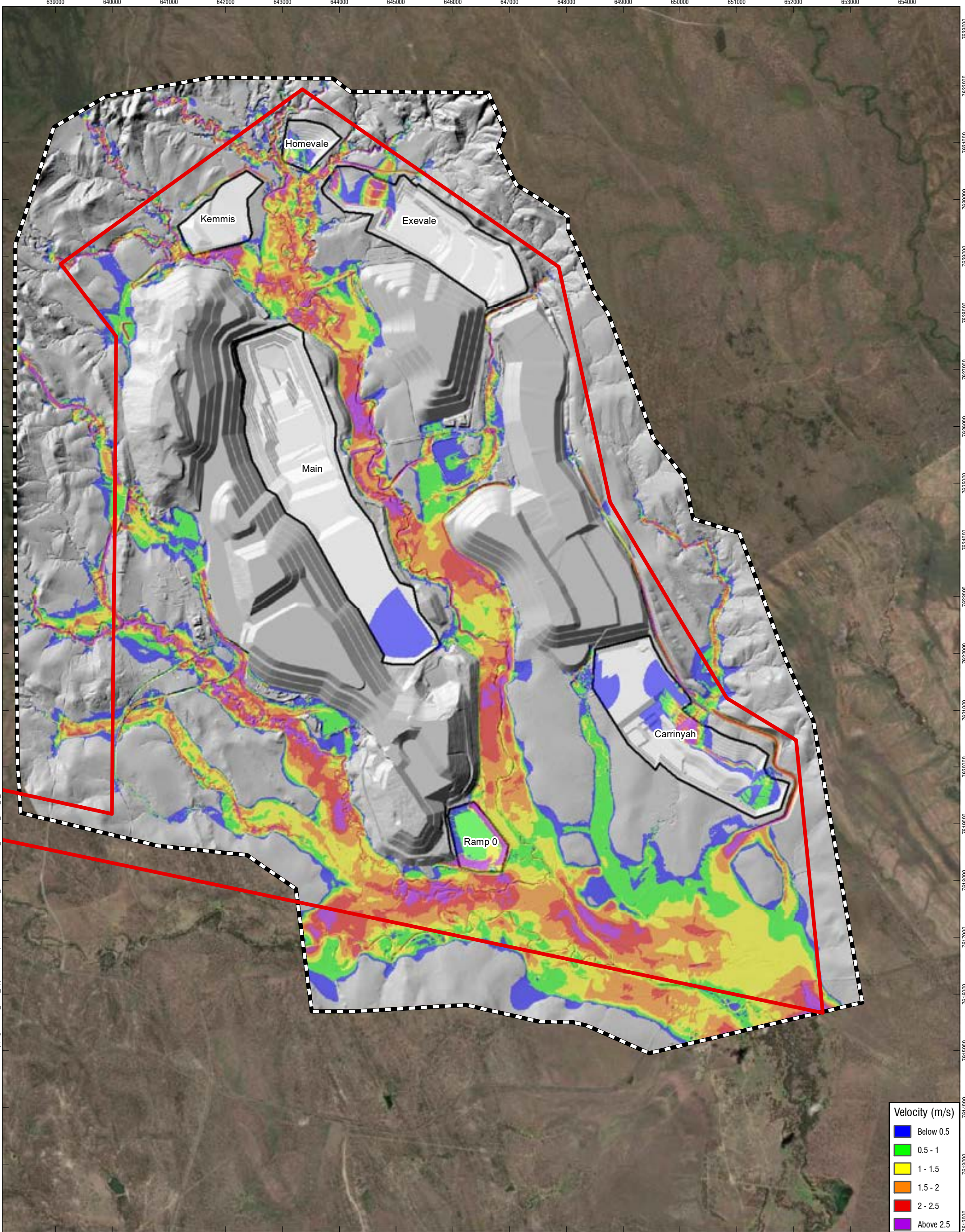
 Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Final Landform Scenario (EA21FL)
Peak Flood Depths - PMF SSP2-2100**



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21FL_Final_Appendix\FOutput\MXD\626 30128_APPENDIX F2-3_EA21FL_PMF_y_22100.mxd



0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

- Site Boundary
- TUFLOW Model Extent
- Pit Extents

Velocity (m/s)

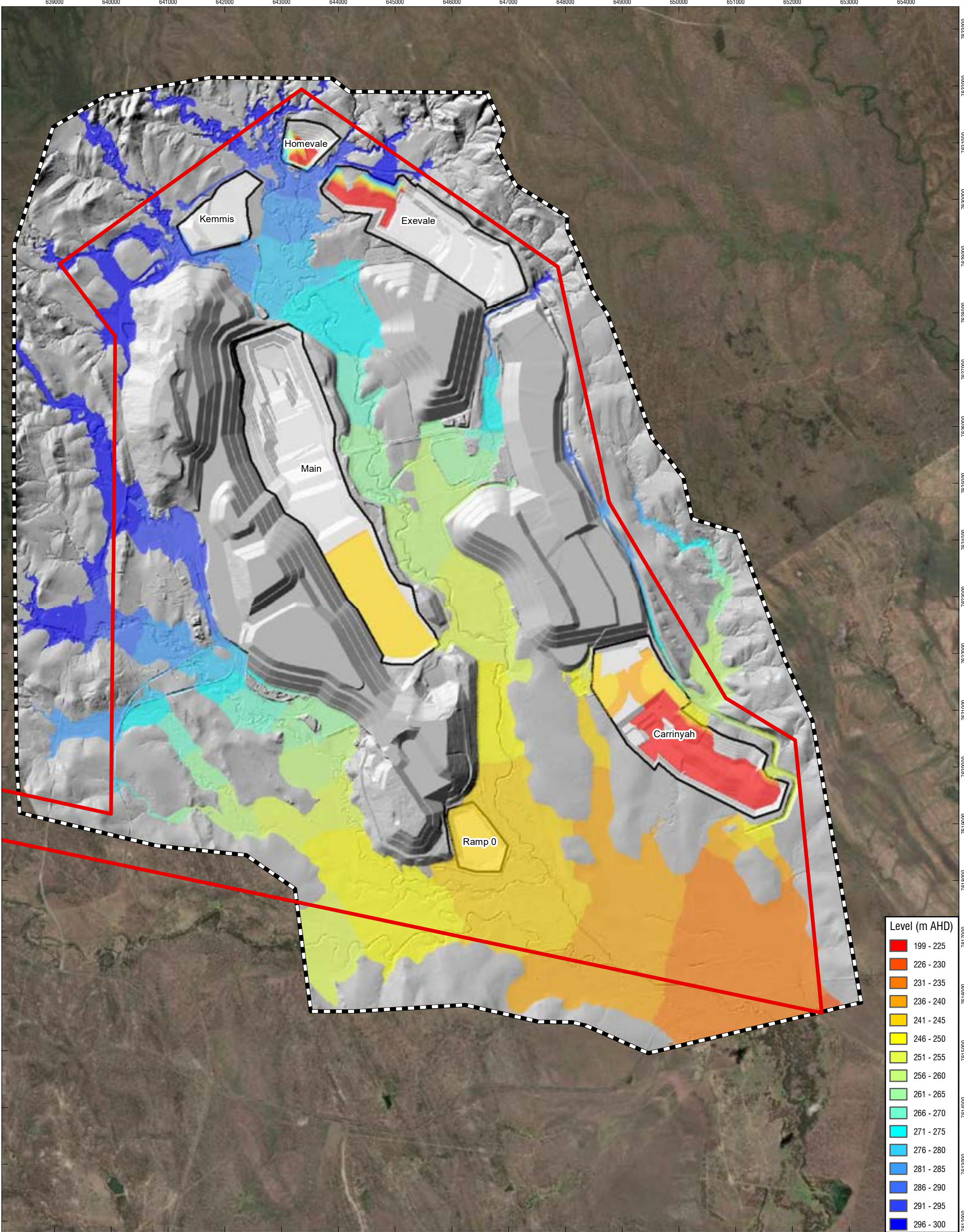
- Below 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

Final Landform Scenario (EA21FL)
Peak Flood Velocities - PMF SSP2-2100



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_APPENDIX F2-4_EA21FL_PMF_h_52100.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

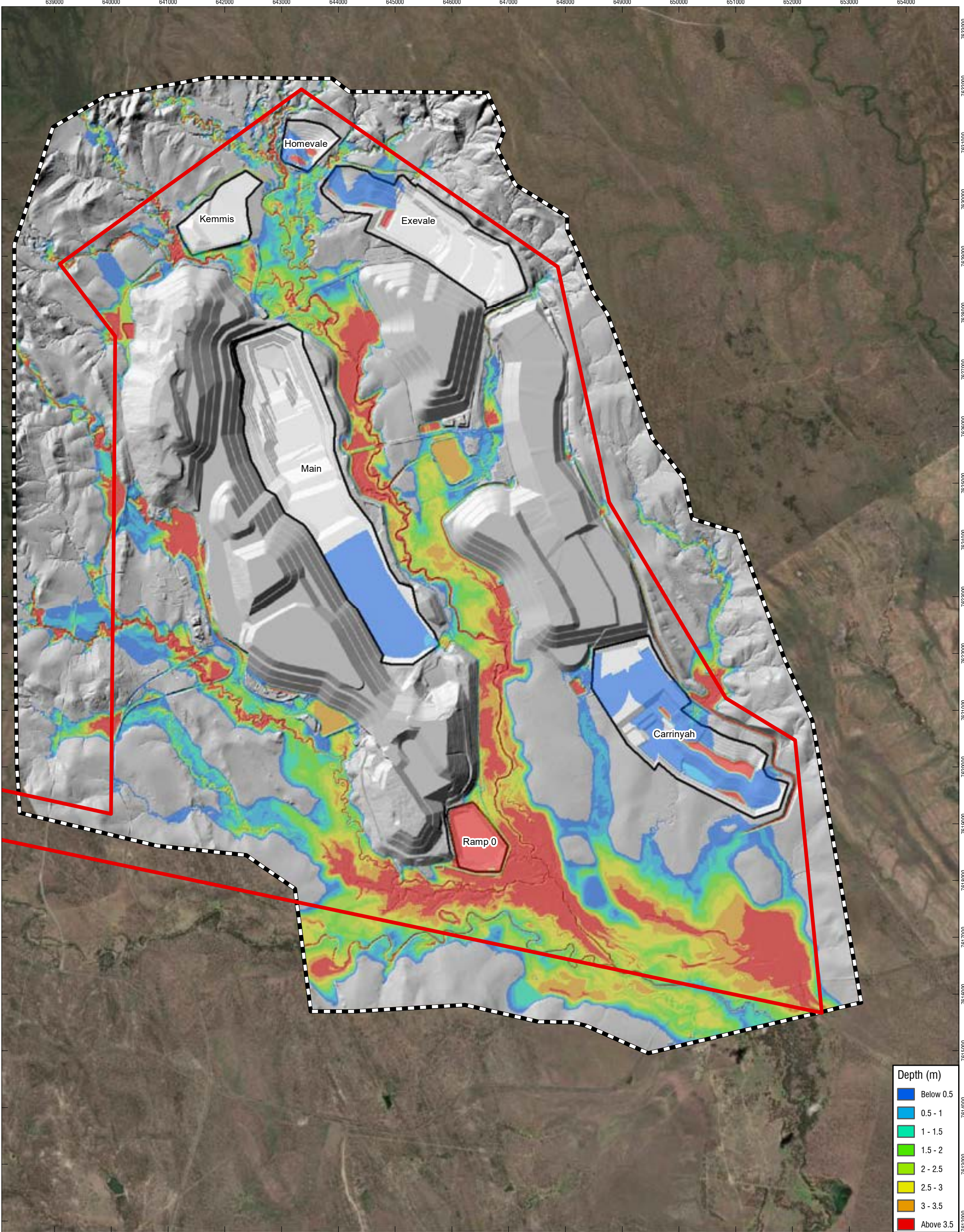
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Final Landform Scenario (EA21FL)
Peak Flood Levels - PMF SSP5-2100**



H:\Projects-SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\AutoMapping\EA21FL_Final_AppendixF\Output\MXDs\626 30128_APPENDIX F2-5_EA21FL_PMF_d_52100.mxd



 0 0.45 0.9 1.35 1.8 km

Coordinate System: GDA 1994 MGA Zone 55
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Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

Legend

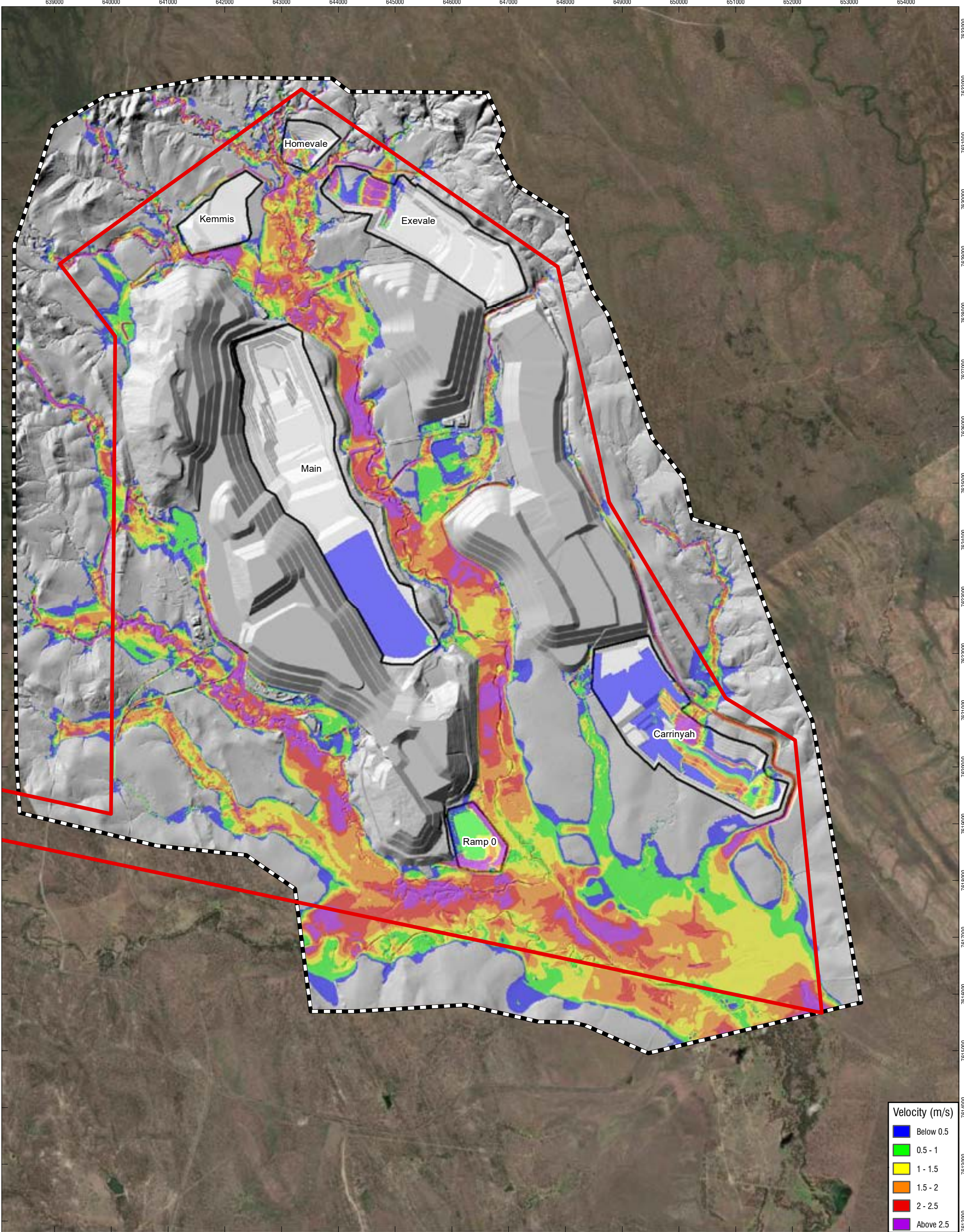
-  Site Boundary
-  TUFLOW Model Extent
-  Pit Extents

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Final Landform Scenario (EA21FL)
Peak Flood Depths - PMF SSP5-2100**



H:\Projects\SLR\626-MKY\626 30128 00000 Hail Creek Major EA Amendment\06 SLR Data\01 CAD\GIS\GIS Surface Water\Auto Mapping\EA21FL_Final_Appendix\FOutput\MXDs\626 30128_EA21FL_PMF_y_32100.mxd



 0 0.45 0.9 1.35 1.8 km
Coordinate System: GDA 1994 MGA Zone 55
Scale: 1:60,000 at A3
Project Number: 626.30099
Date: 16-Sep-2025
Drawn by: HM

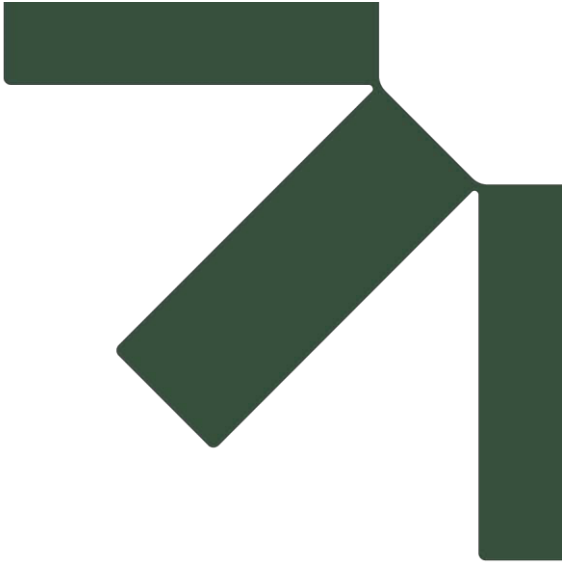
Legend
 Site Boundary
 TUFLOW Model Extent
 Pit Extents

Velocity (m/s)
 Below 0.5
 0.5 - 1
 1 - 1.5
 1.5 - 2
 2 - 2.5
 Above 2.5

Hail Creek Mine Major EA Amendment
Flood Assessment
TUFLOW Model Results

**Final Landform Scenario (EA21FL)
Peak Flood Velocities - PMF SSP5-2100**





Appendix G Bed Shear Stress, Stream Power and Velocity Results

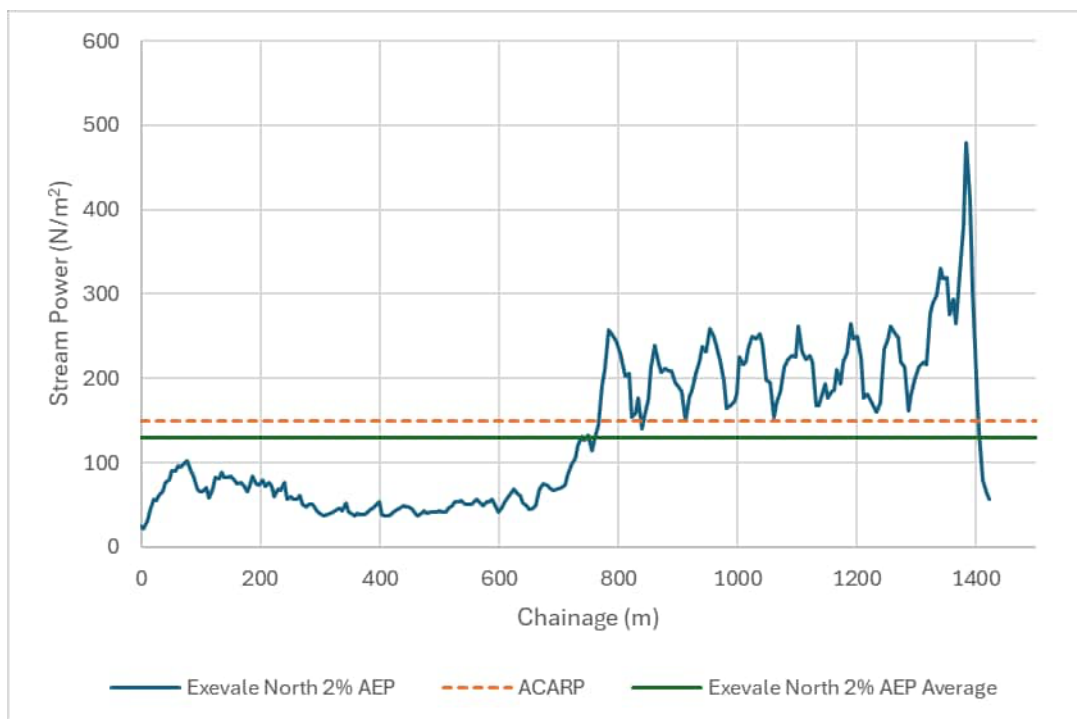
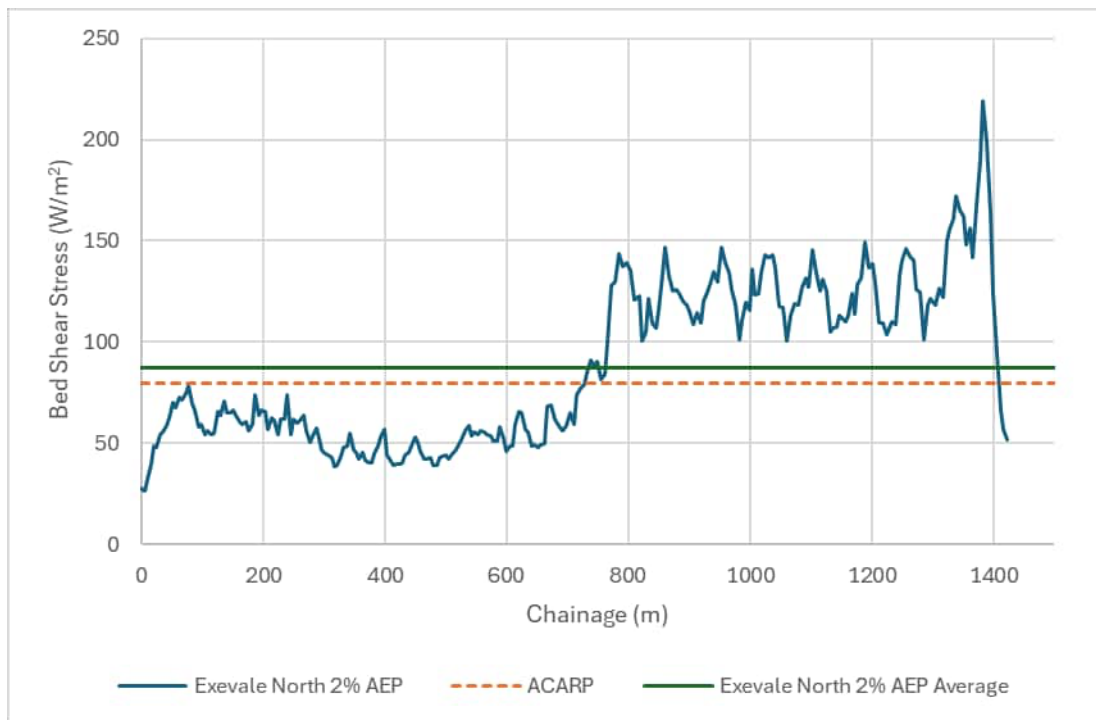
Hail Creek Open Cut Eastern Margin Extension

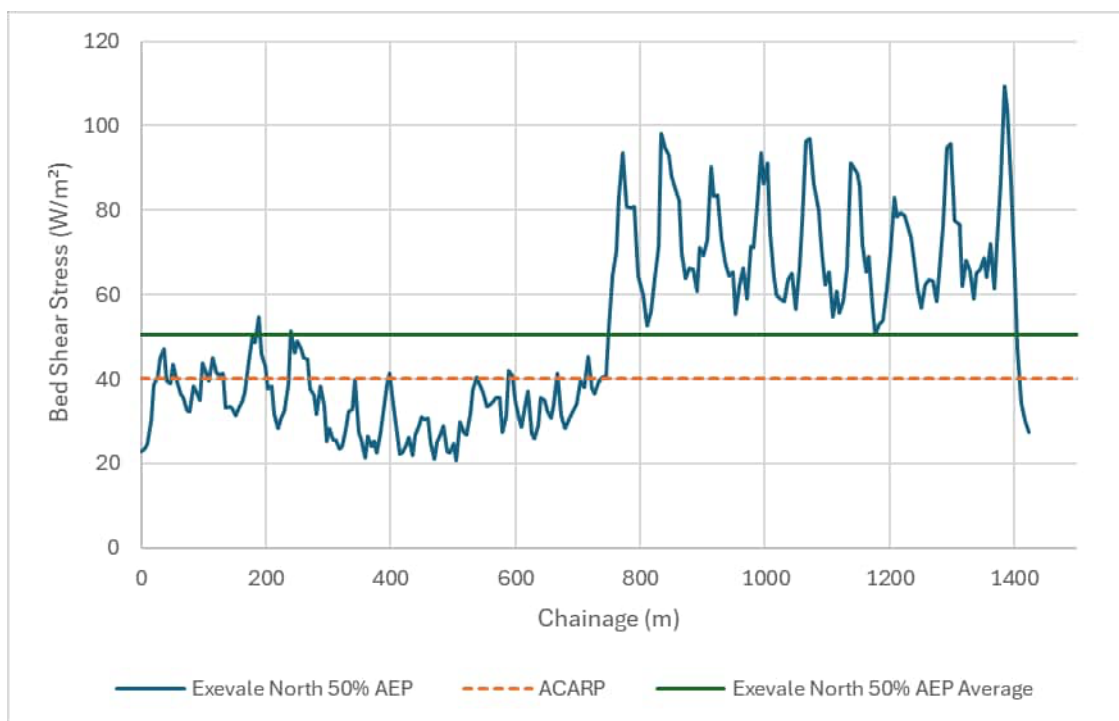
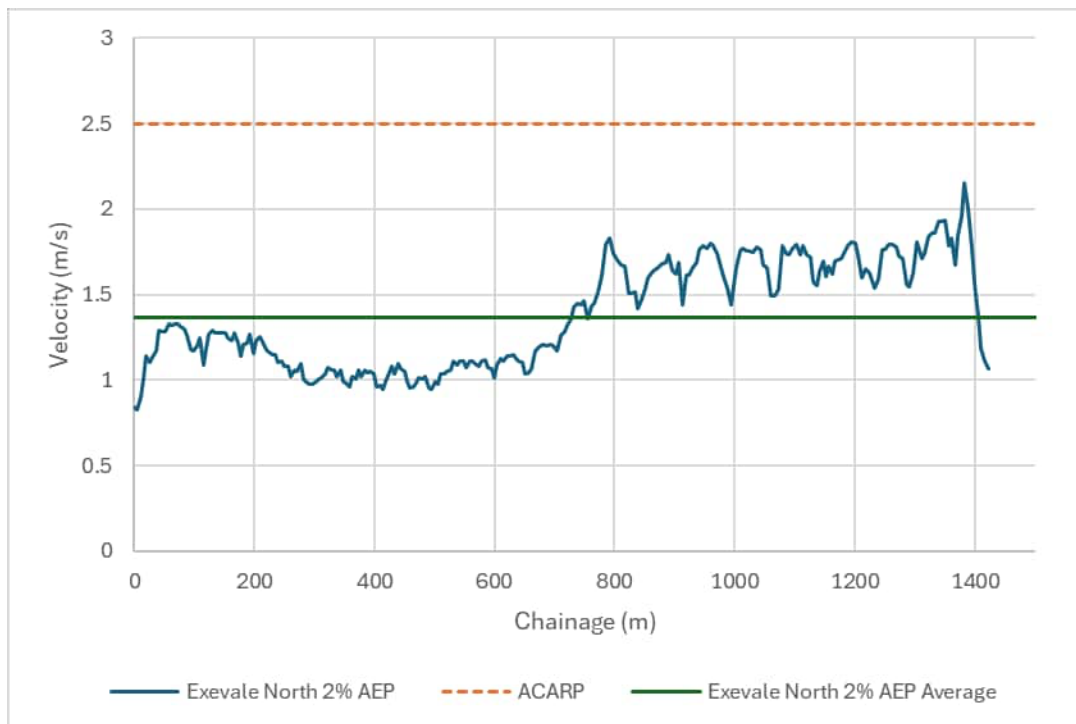
Replacement Surface Water Assessment

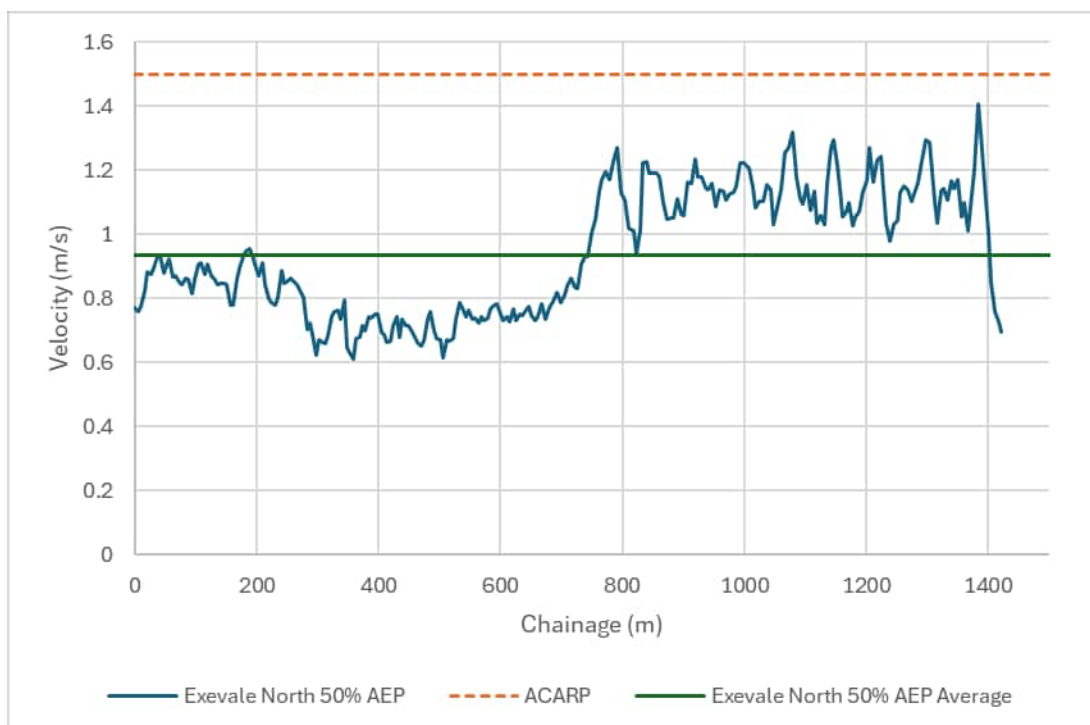
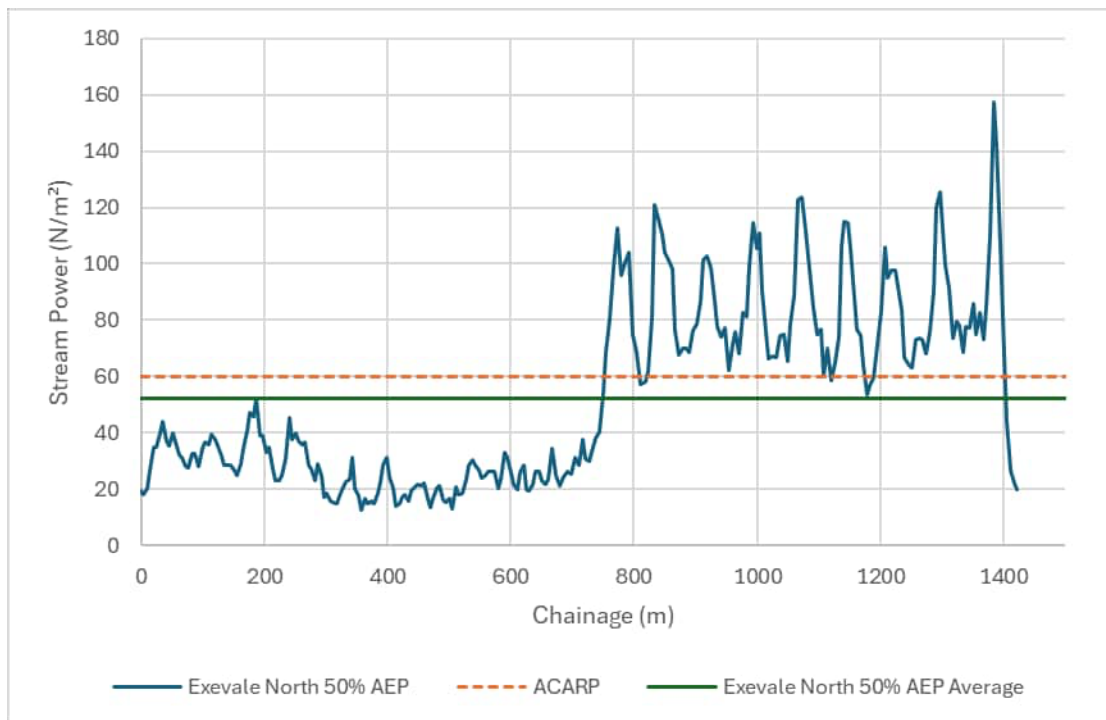
Hail Creek Coal Holdings Pty Limited

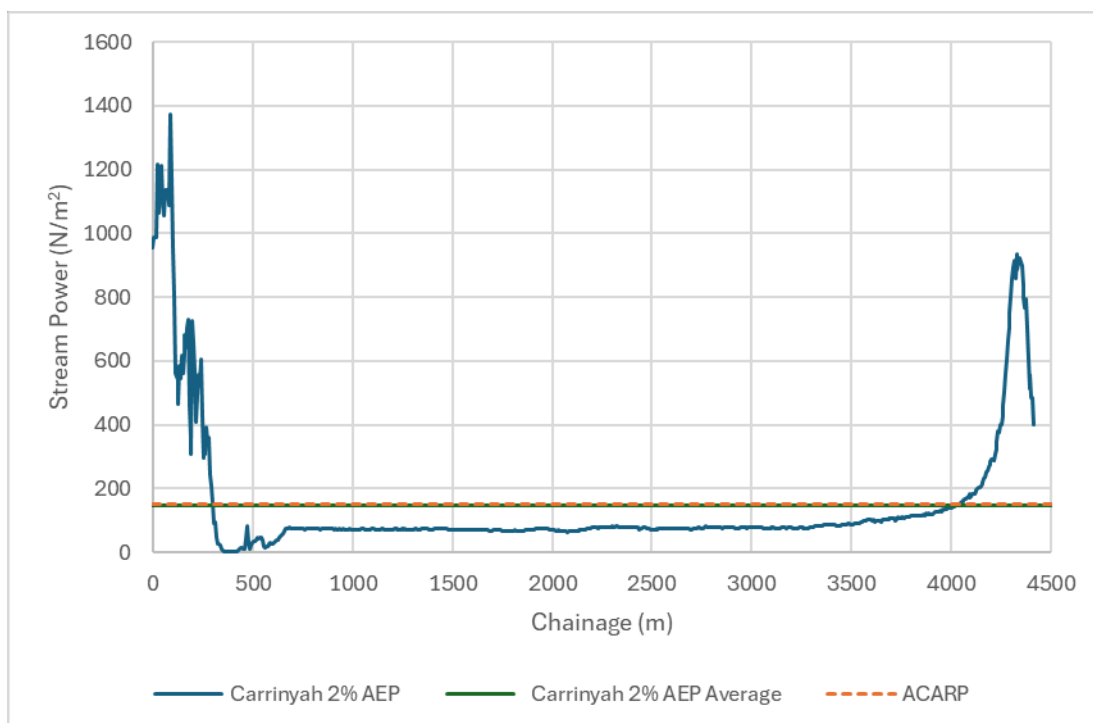
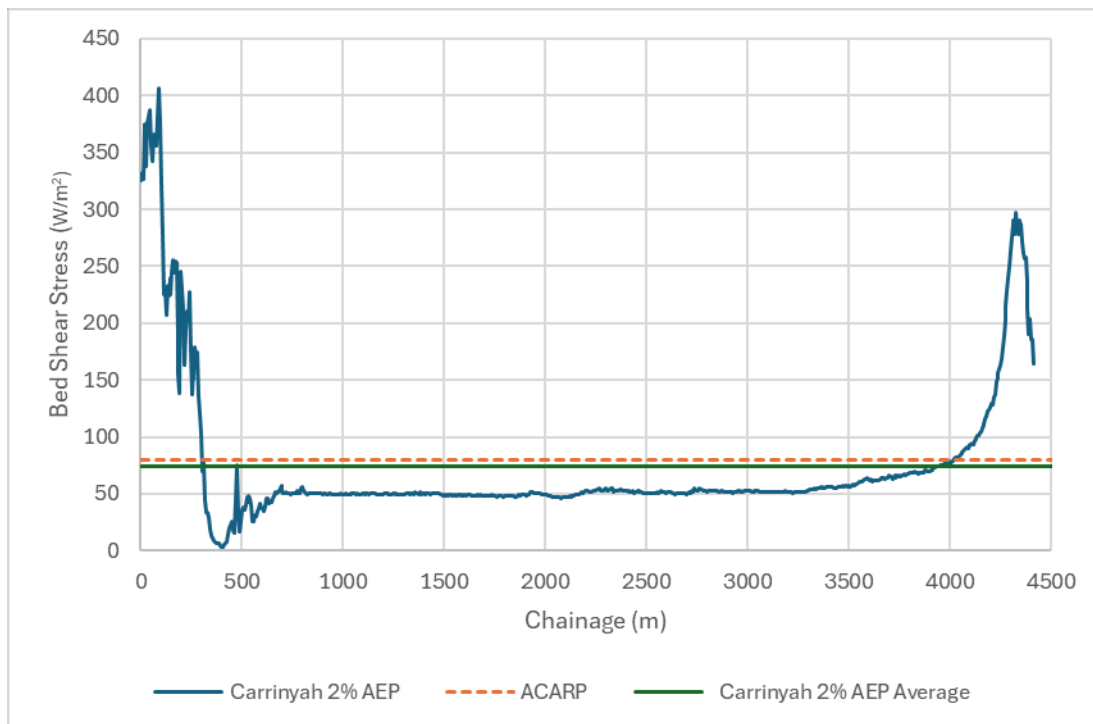
SLR Project No.: 626.V30128.00017

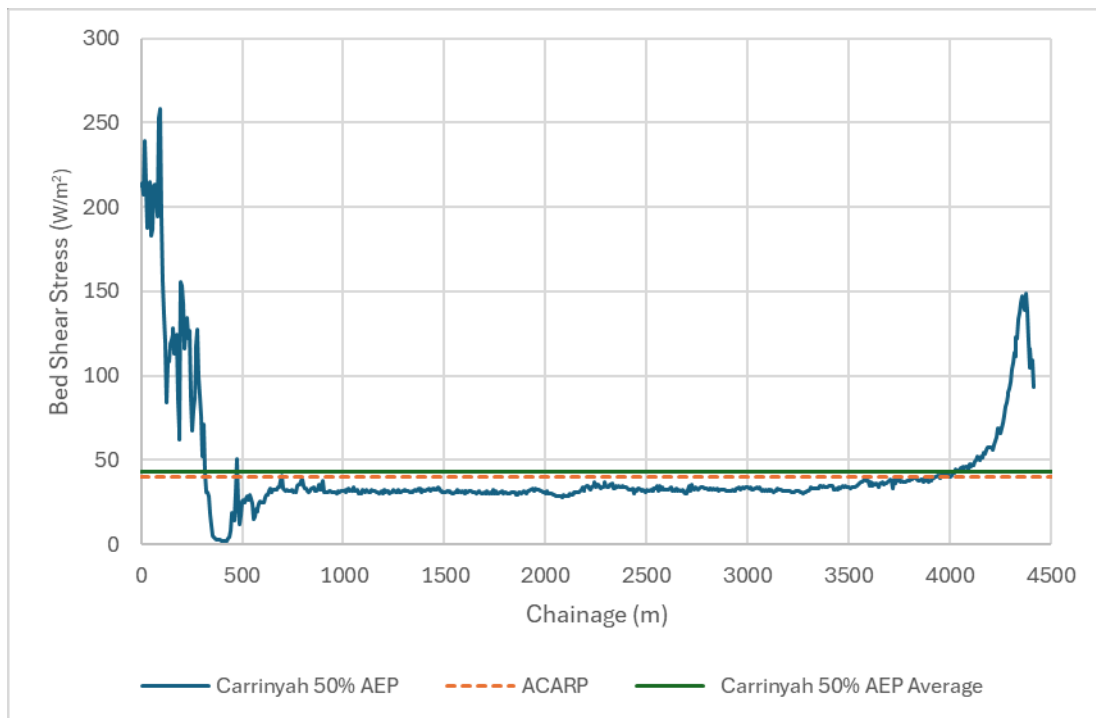
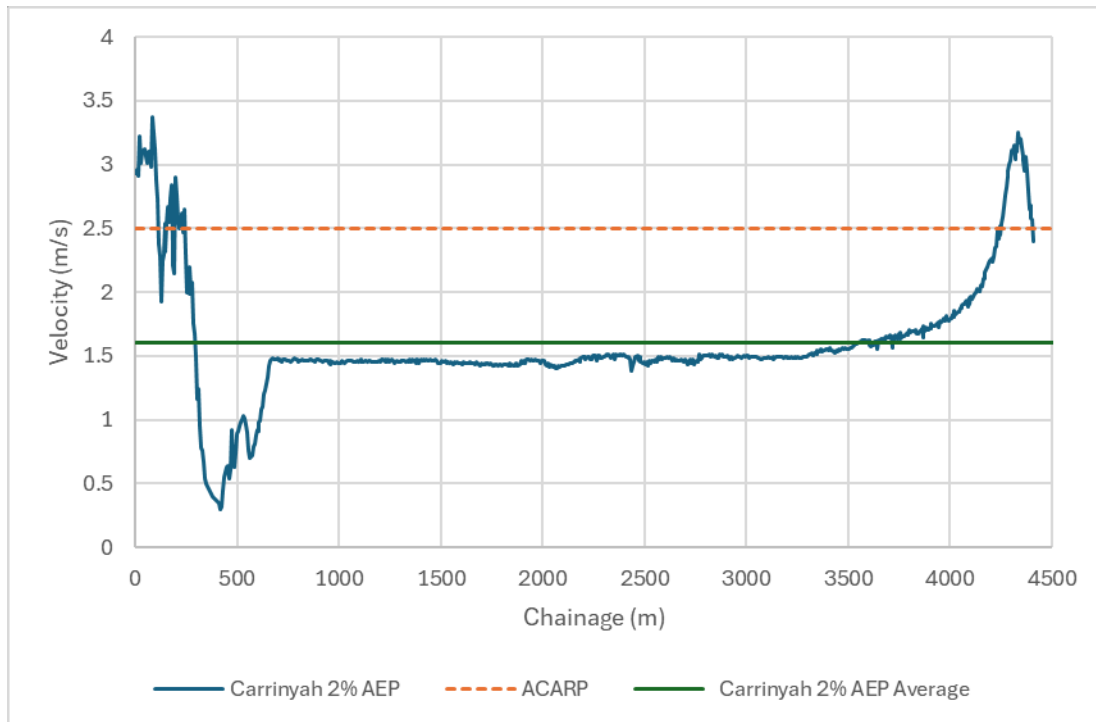
12 November 2025

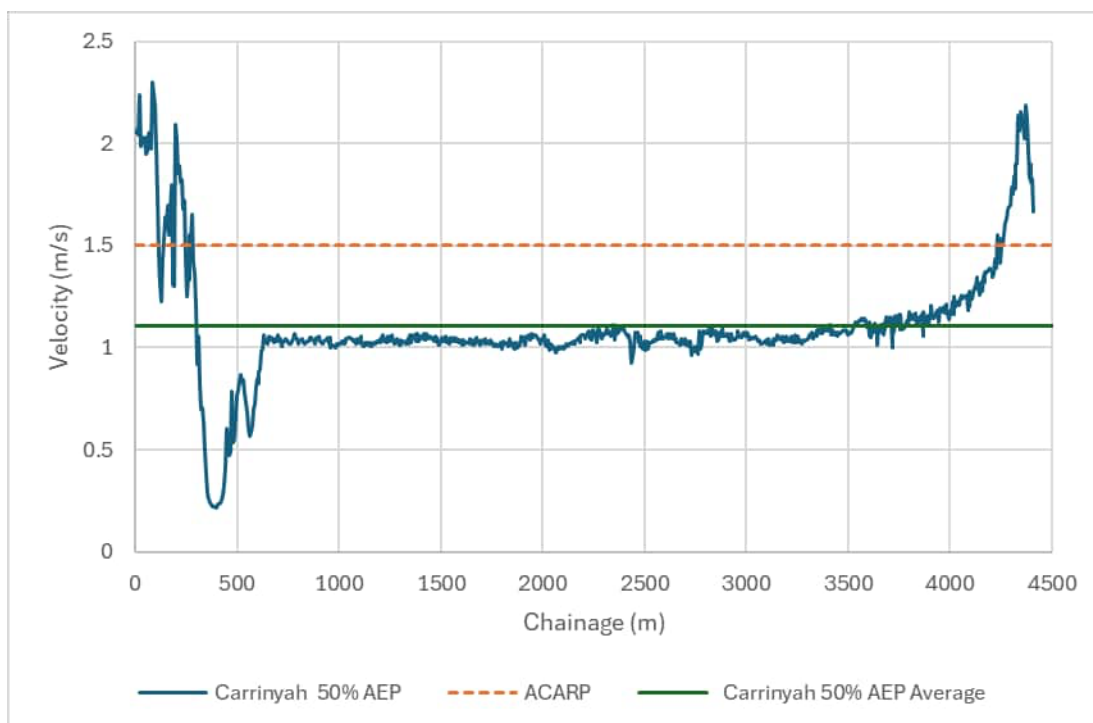
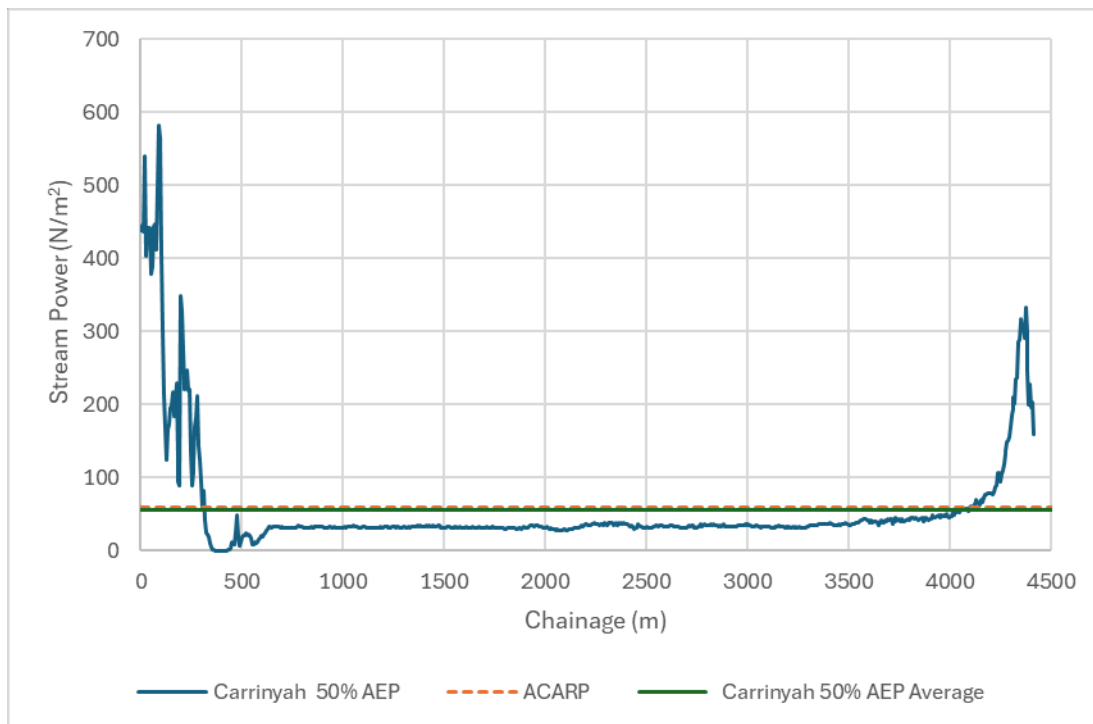


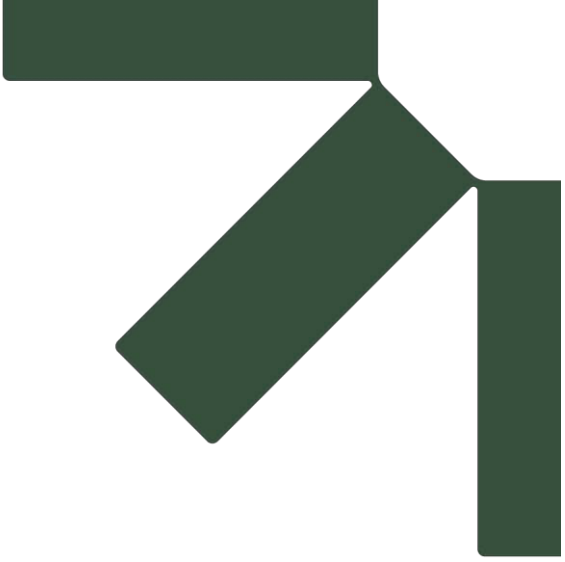












Appendix H Pit Catchments Progression

Hail Creek Open Cut Eastern Margin Extension

Replacement Surface Water Assessment

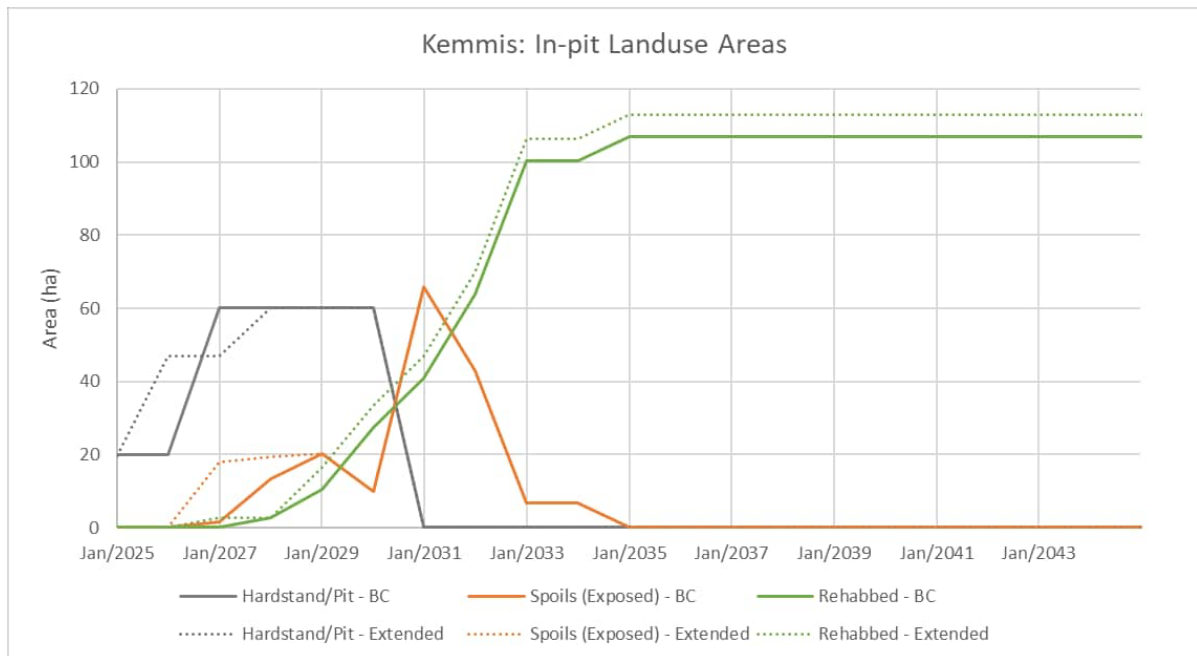
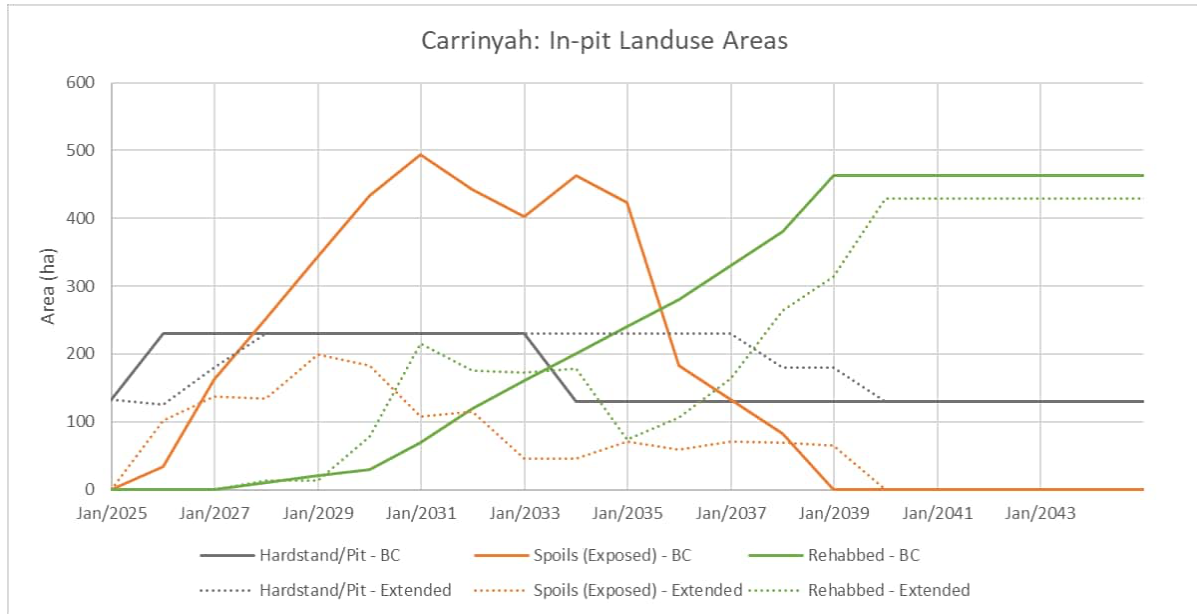
Hail Creek Coal Holdings Pty Limited

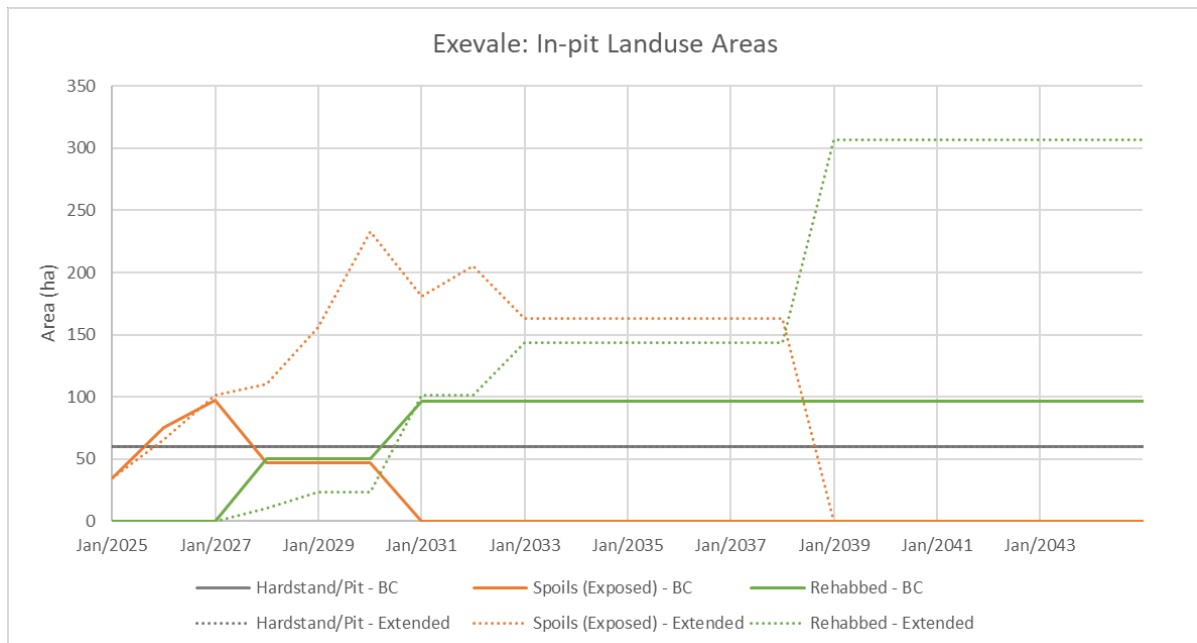
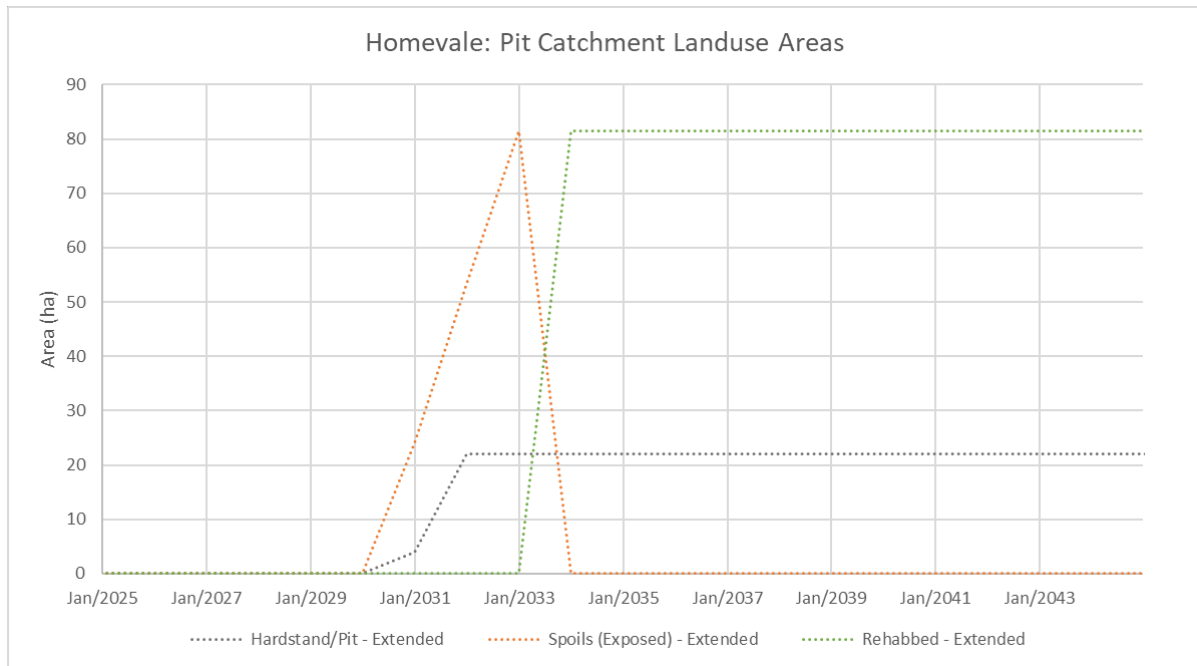
SLR Project No.: 626.V30128.00017

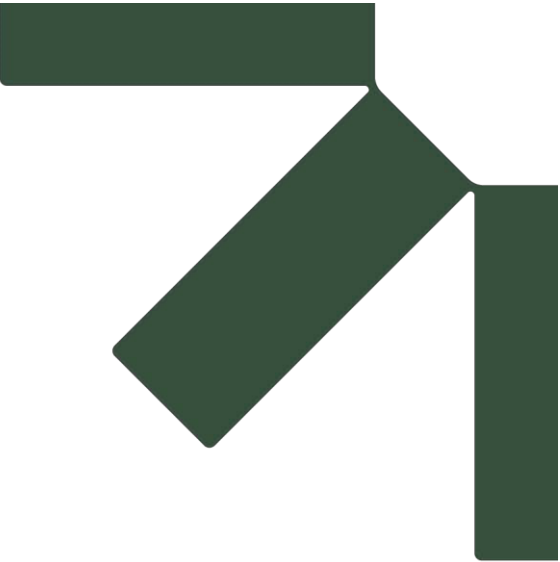
12 November 2025

BC: Base Case Scenario

Extended: Extended Footprint Scenario







Appendix I Predicted Storage Volumes in Holding Dams and Operational Pits

Hail Creek Open Cut Eastern Margin Extension

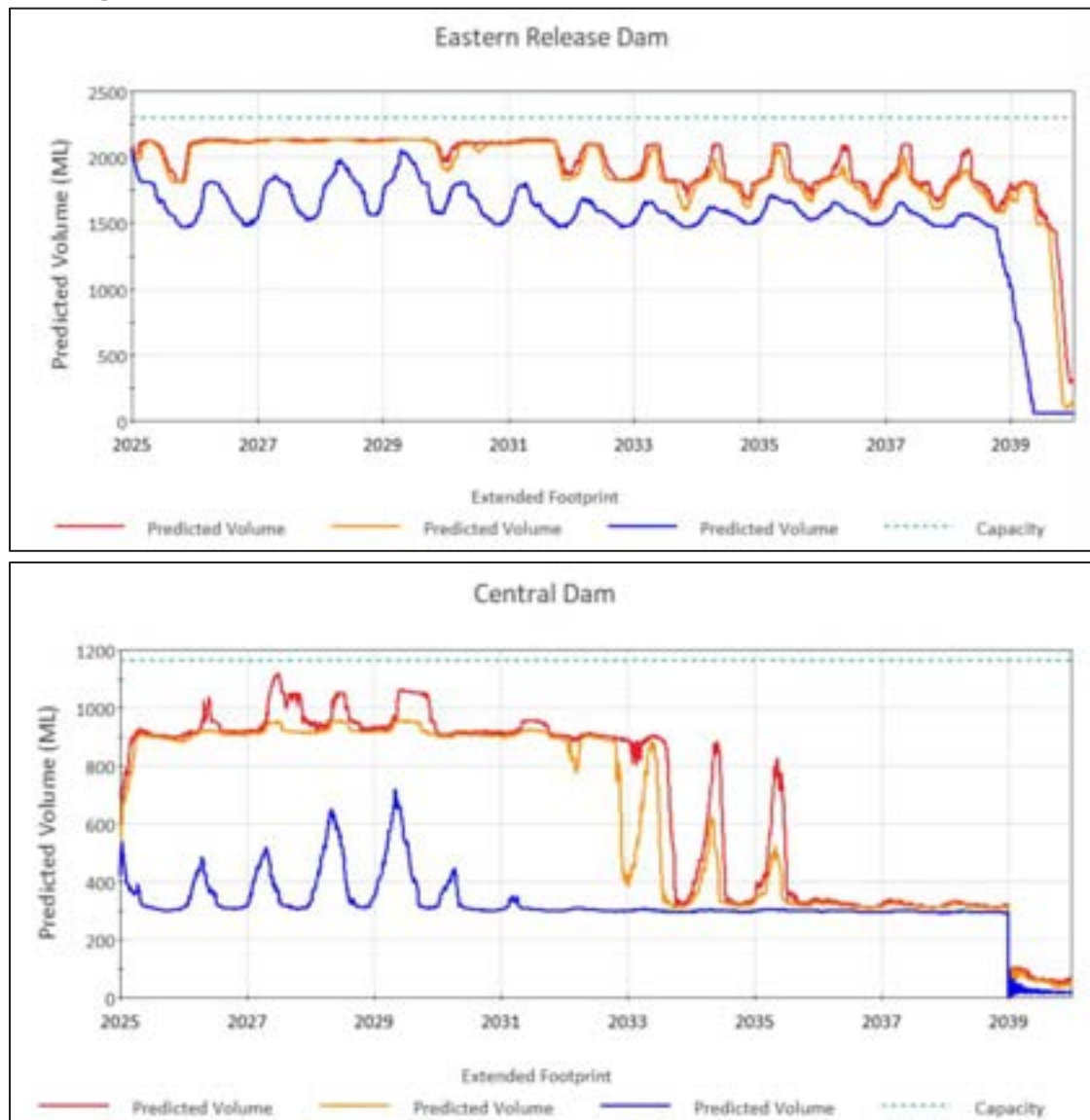
Replacement Surface Water Assessment

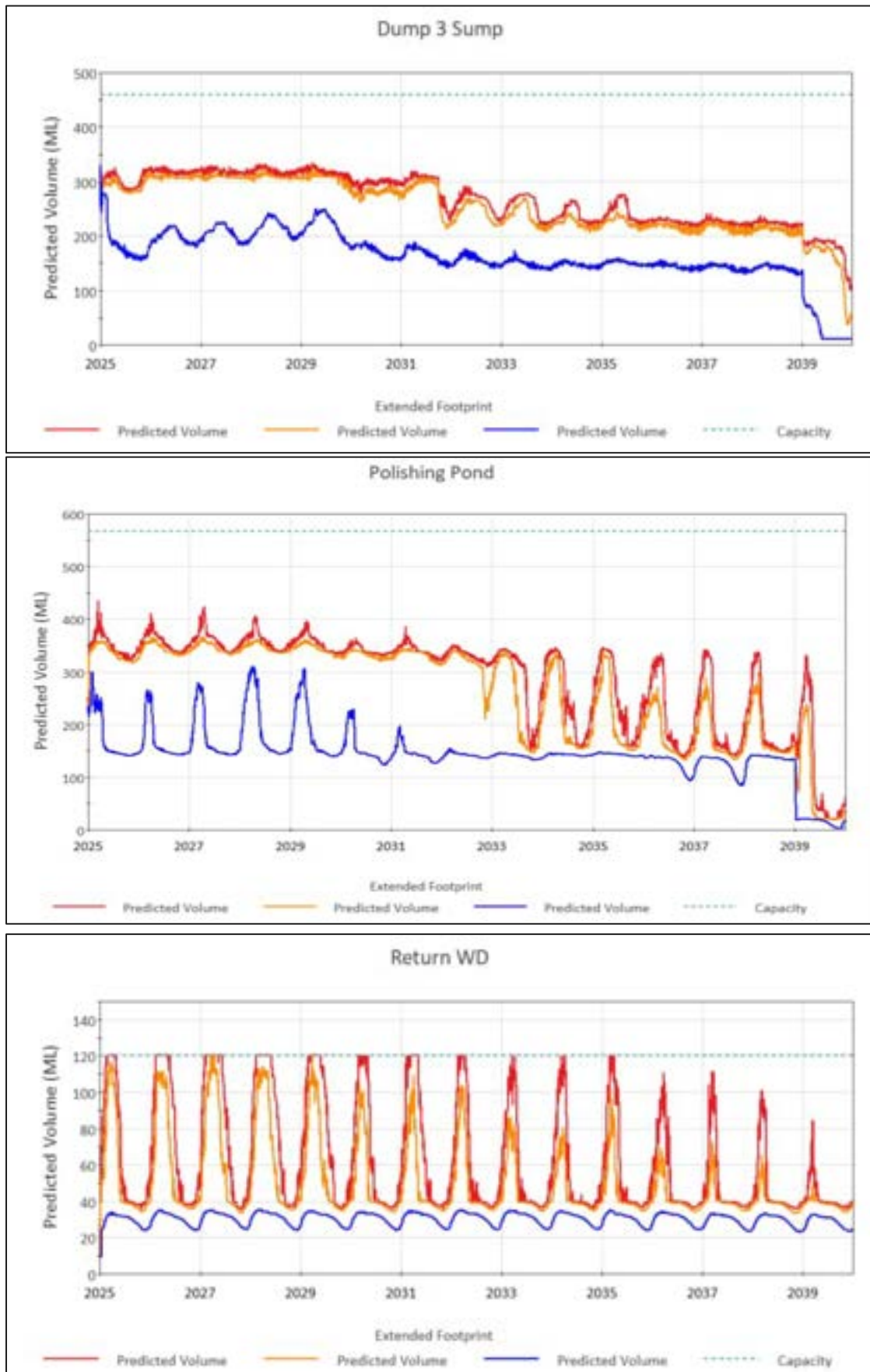
Hail Creek Coal Holdings Pty Limited

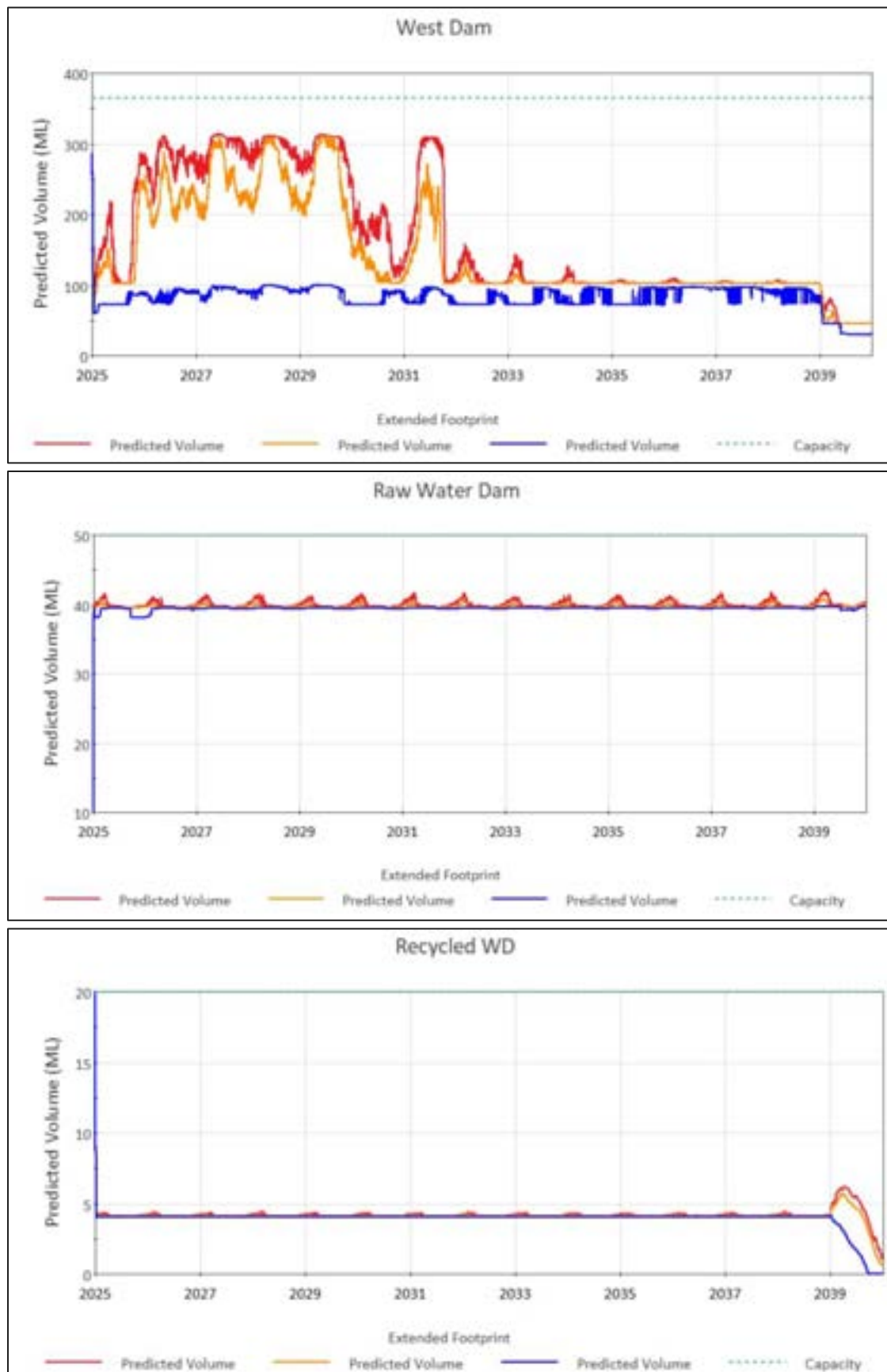
SLR Project No.: 626.V30128.00017

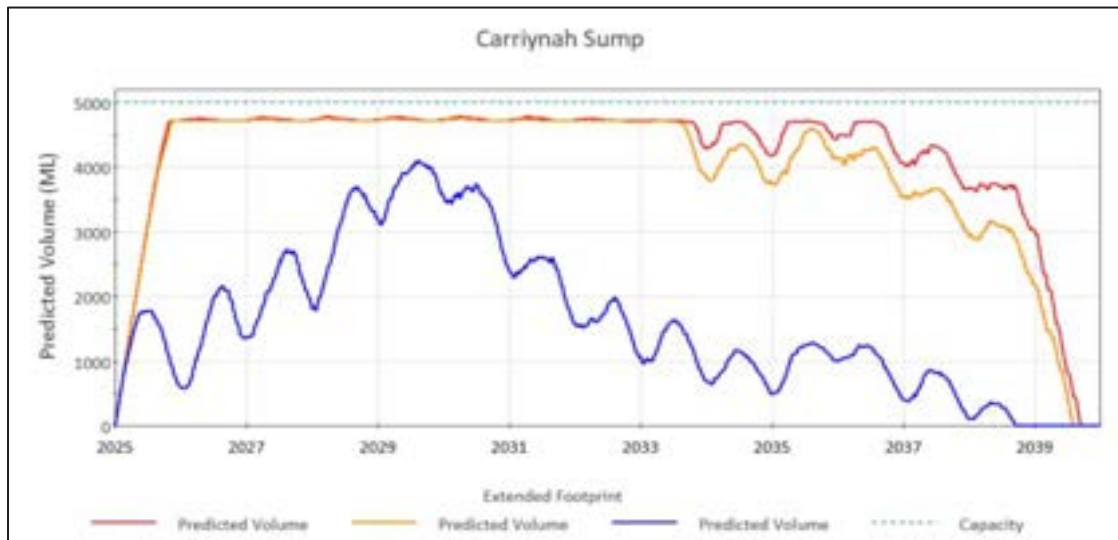
12 November 2025

Holding Dams

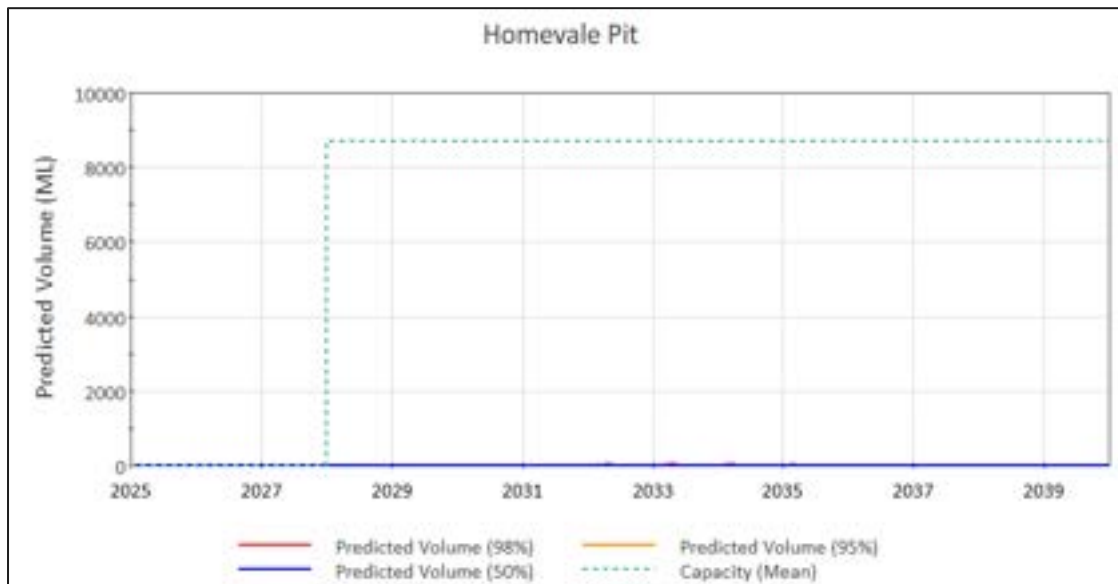
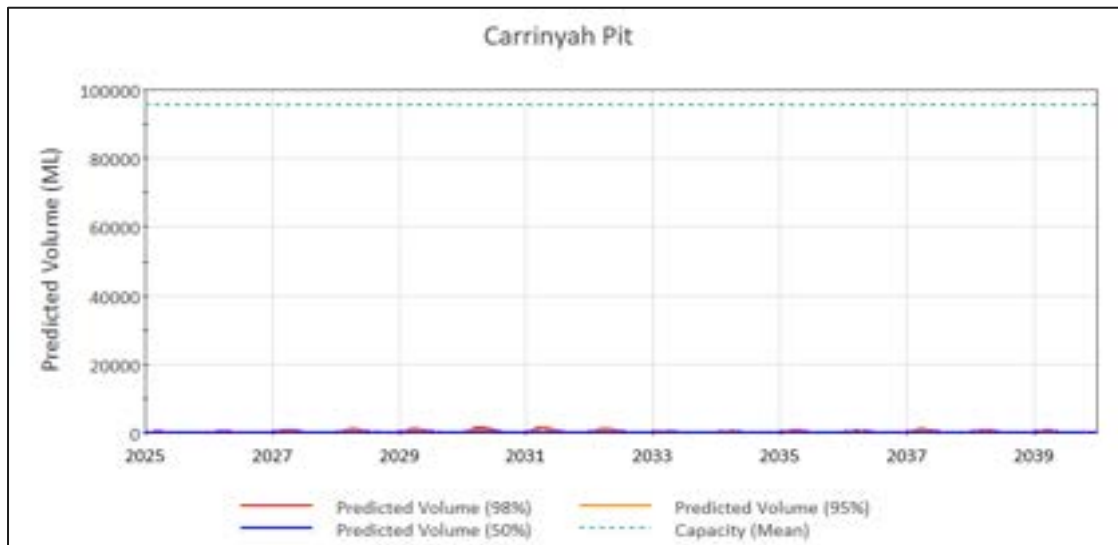


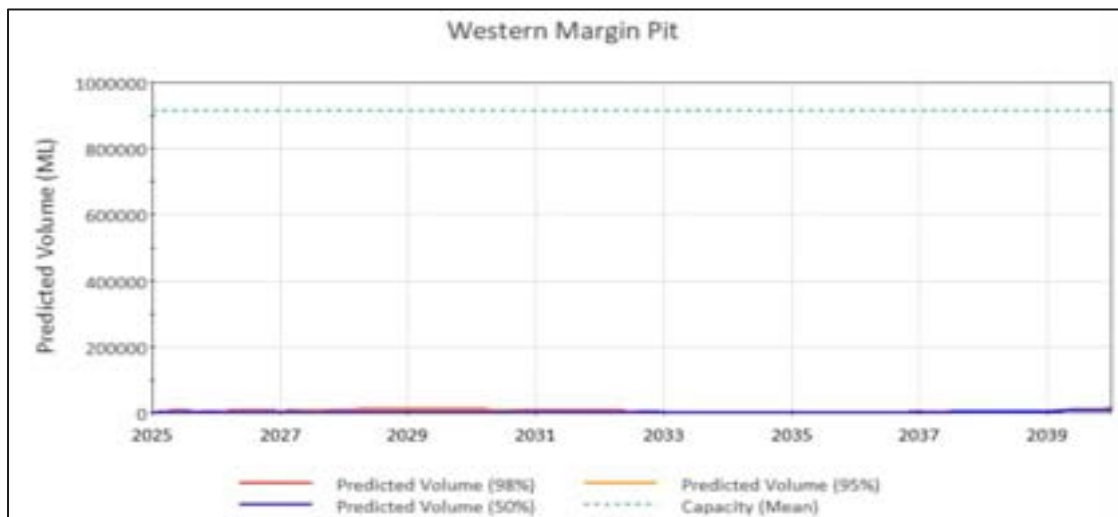
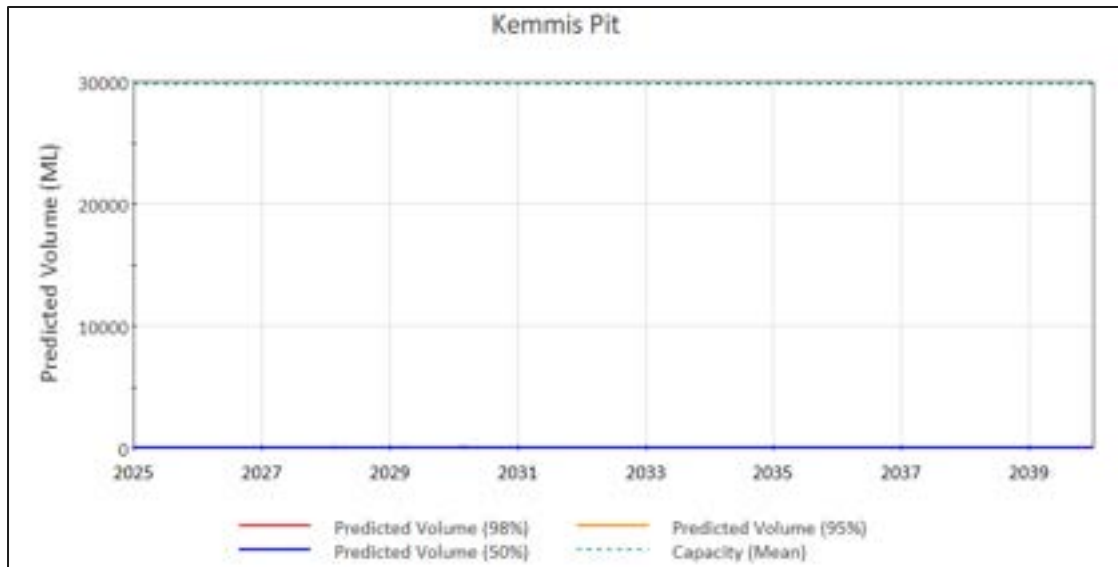
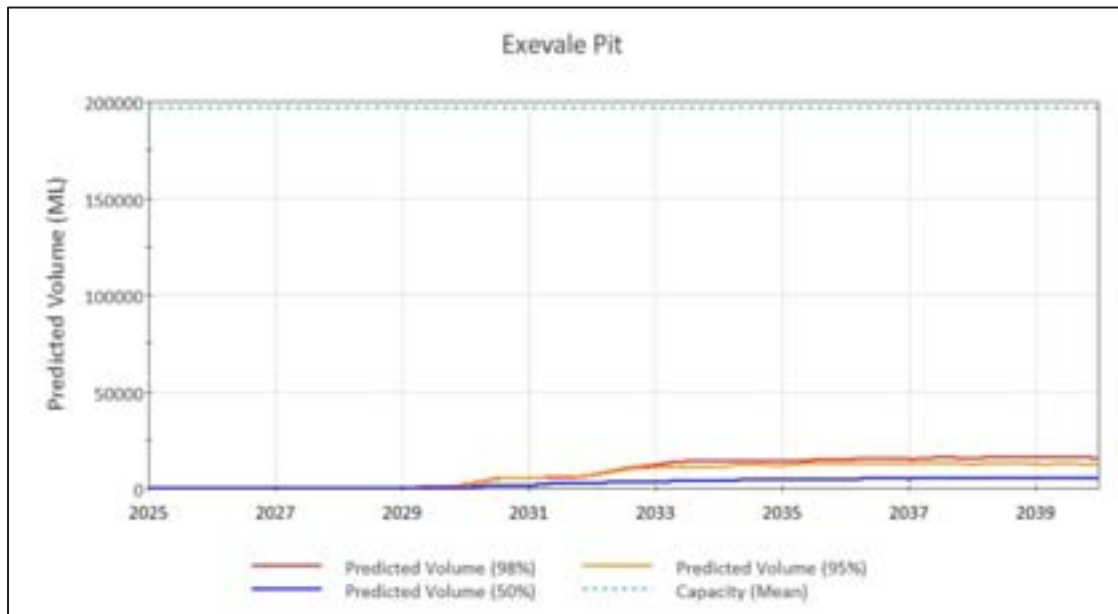


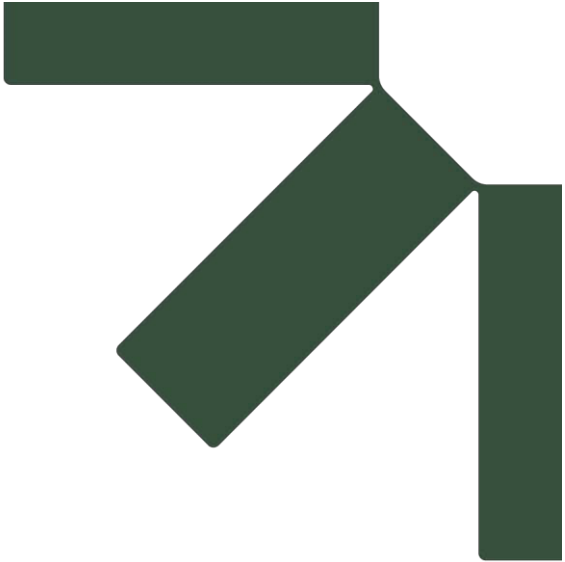




Pits/Voids







Appendix J Predicted Storage Volumes in Residual Voids

Hail Creek Open Cut Eastern Margin Extension

Replacement Surface Water Assessment

Hail Creek Coal Holdings Pty Limited

SLR Project No.: 626.V30128.00017

12 November 2025

