

**Figure I-13 Existing mine plan– Closure Drawdown 1000 years**

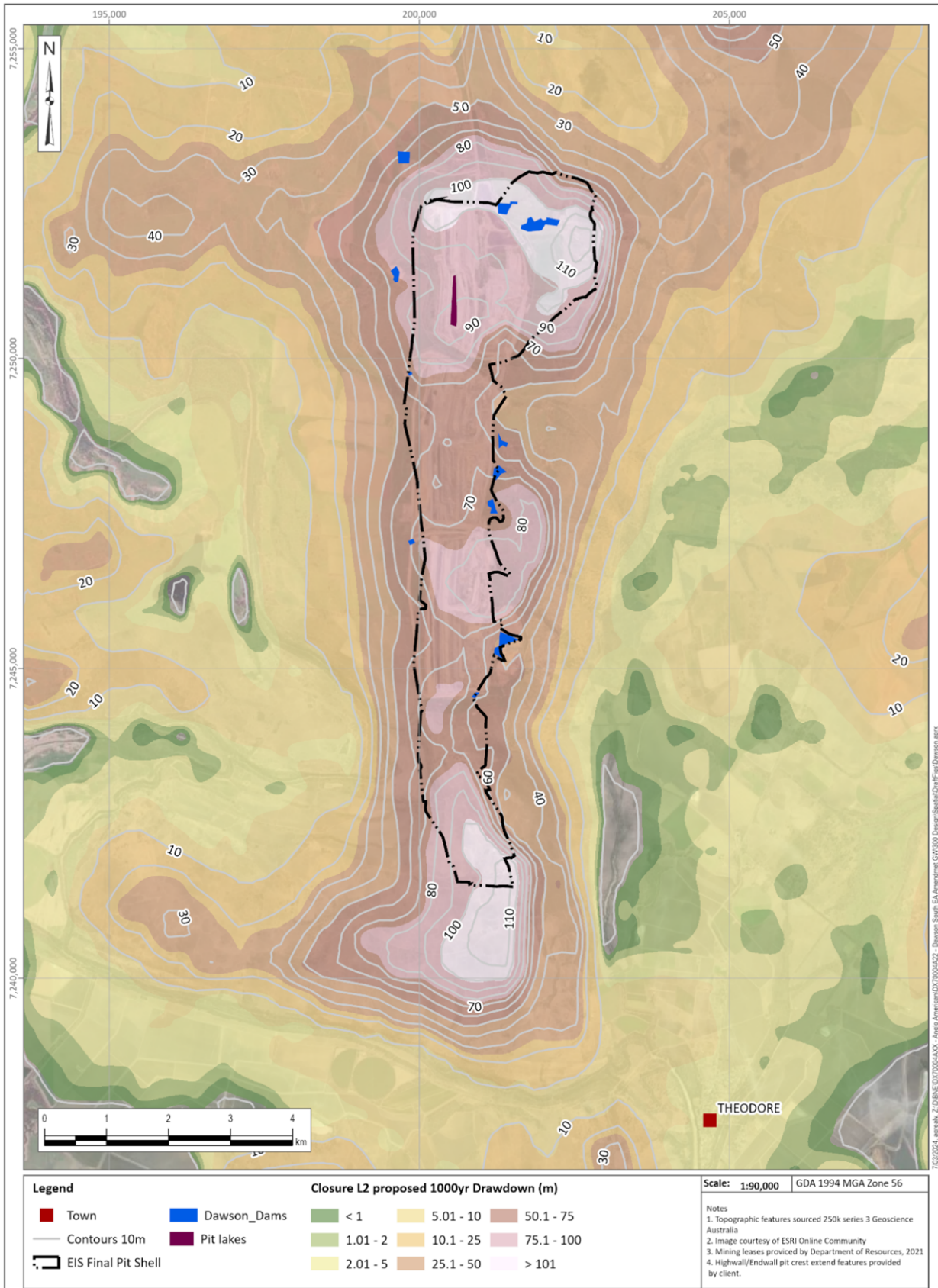


Figure I-14 Conservative Proposed – Closure L2 1000 years

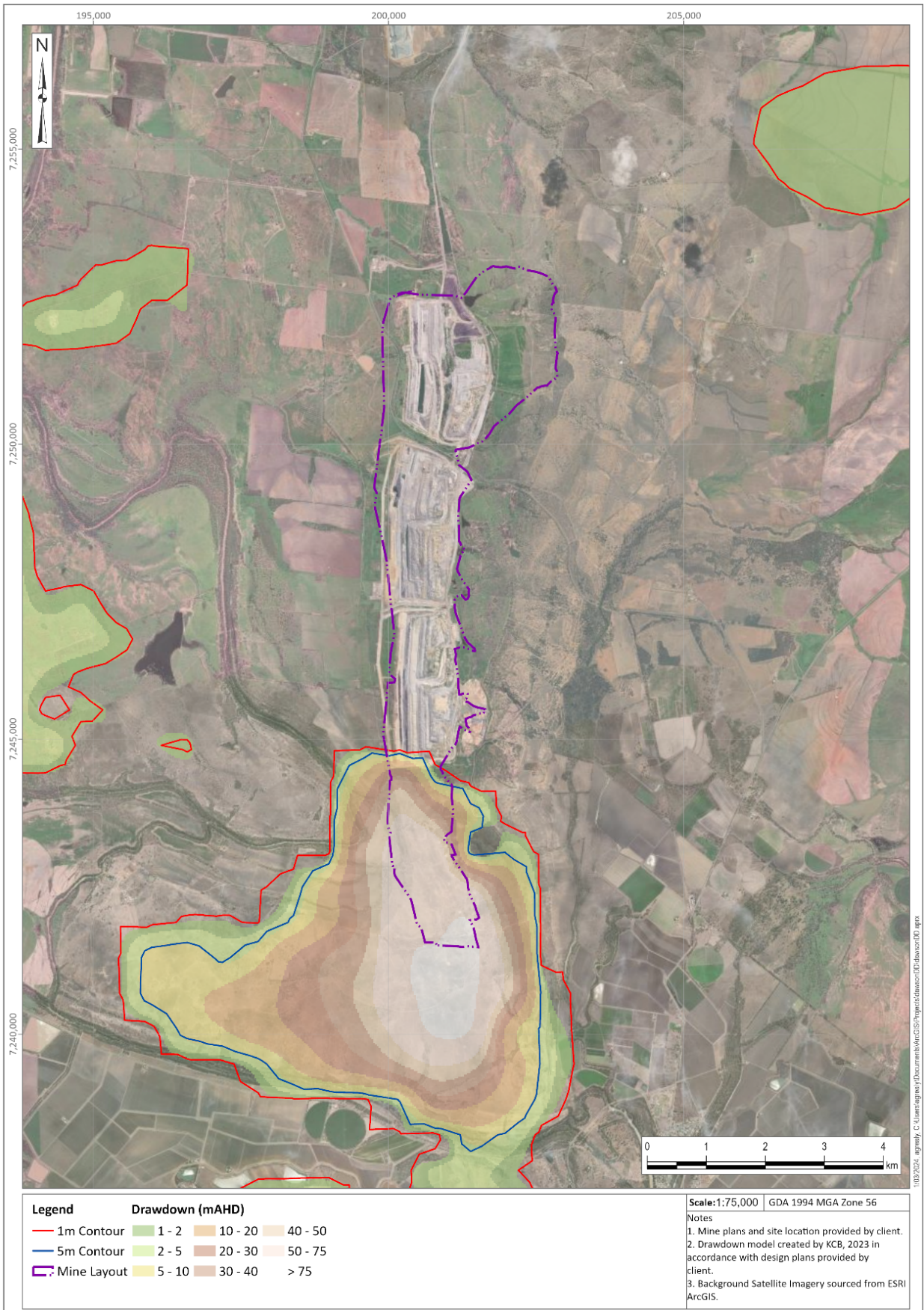
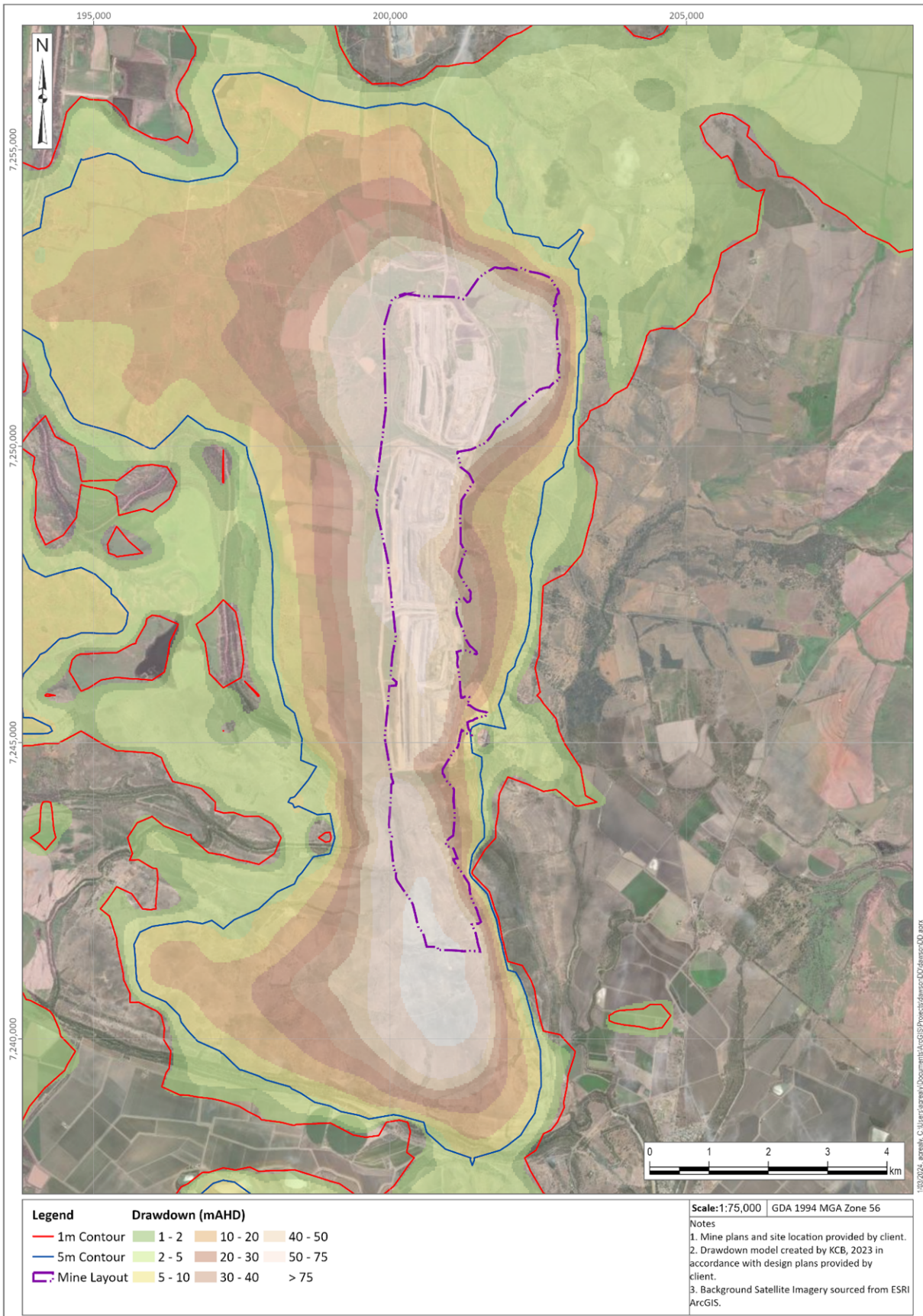
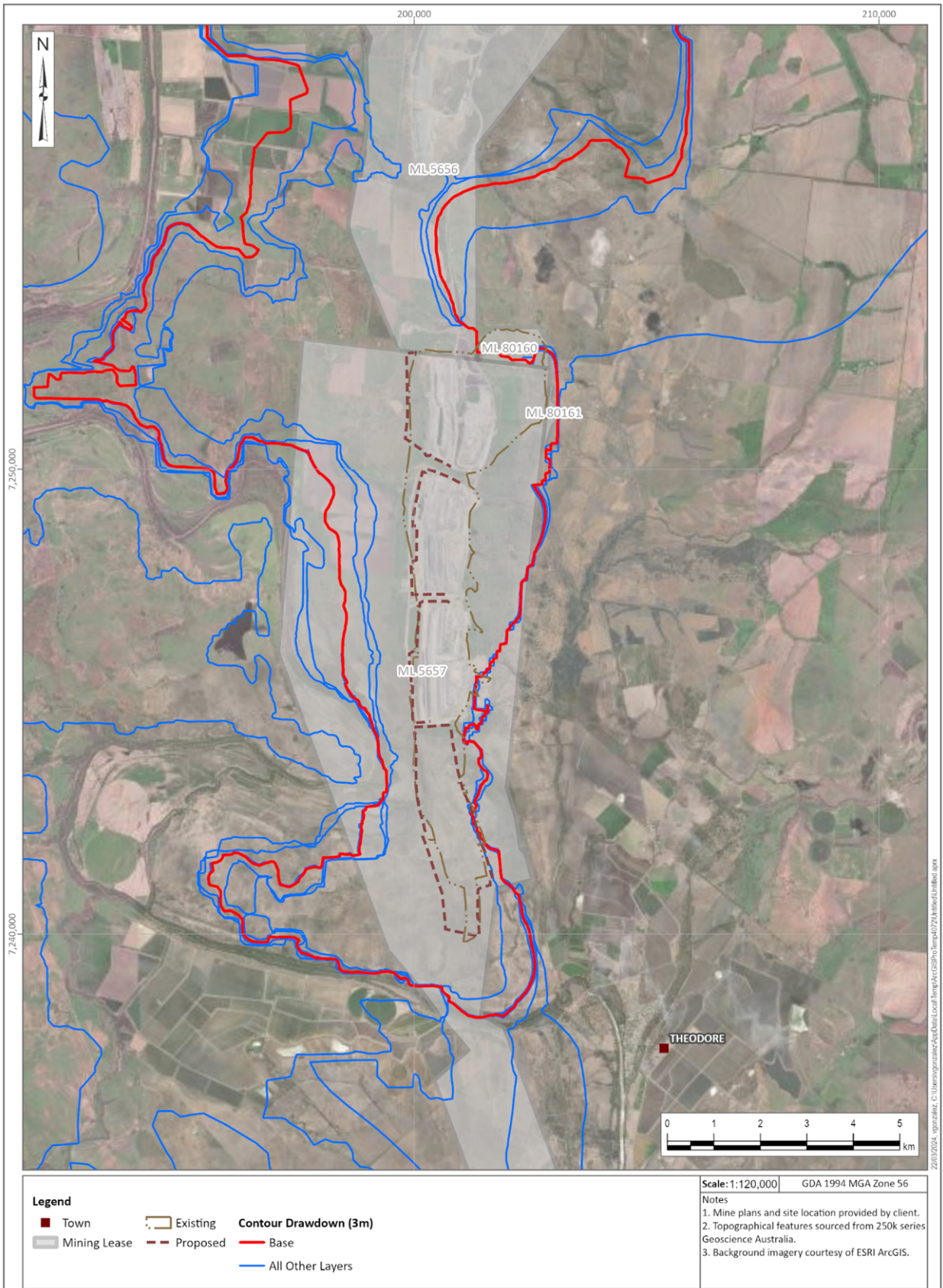


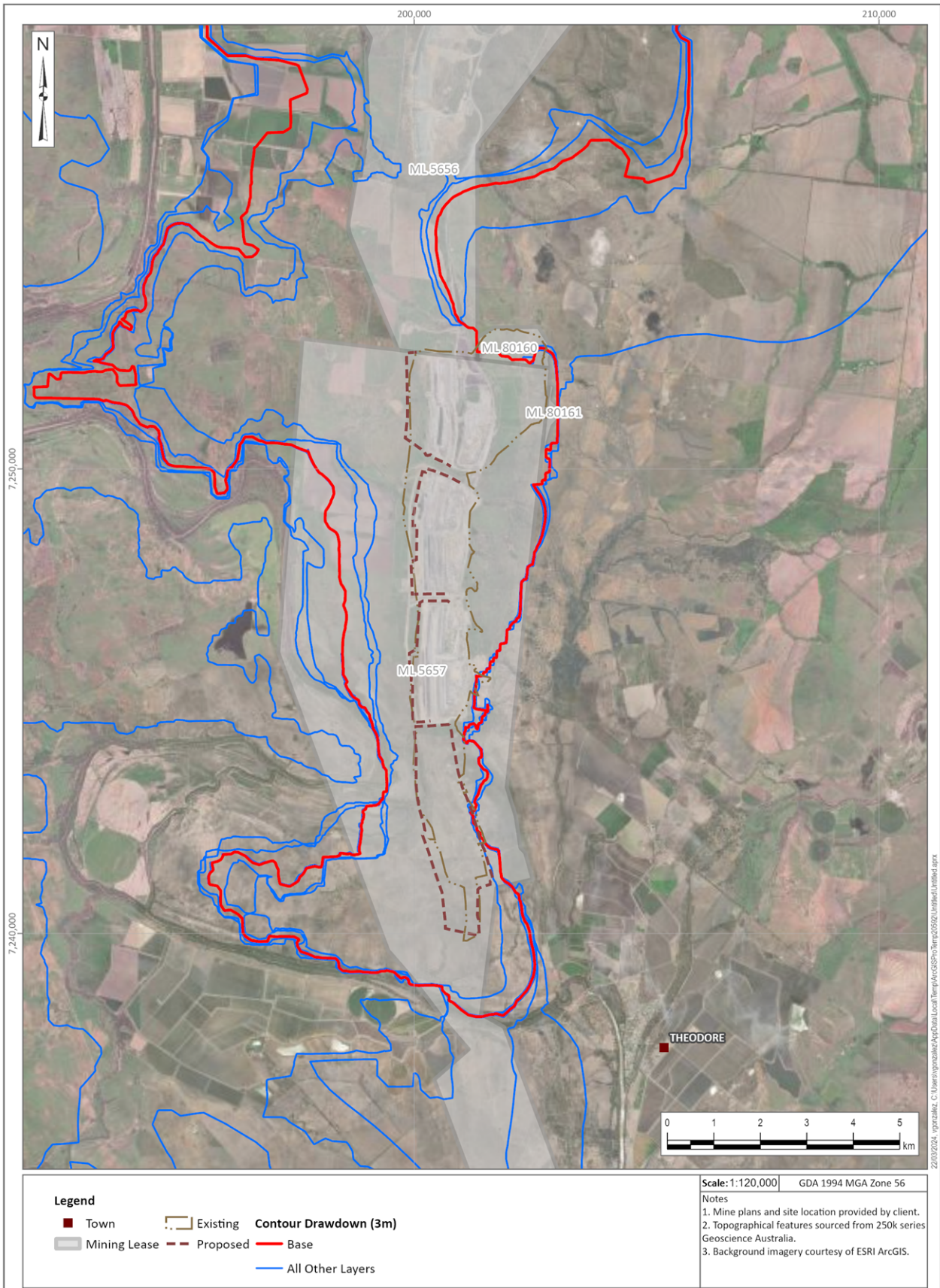
Figure I-15 Existing mine plan – Closure Drawdown 1000 years (5m and 1m contour)



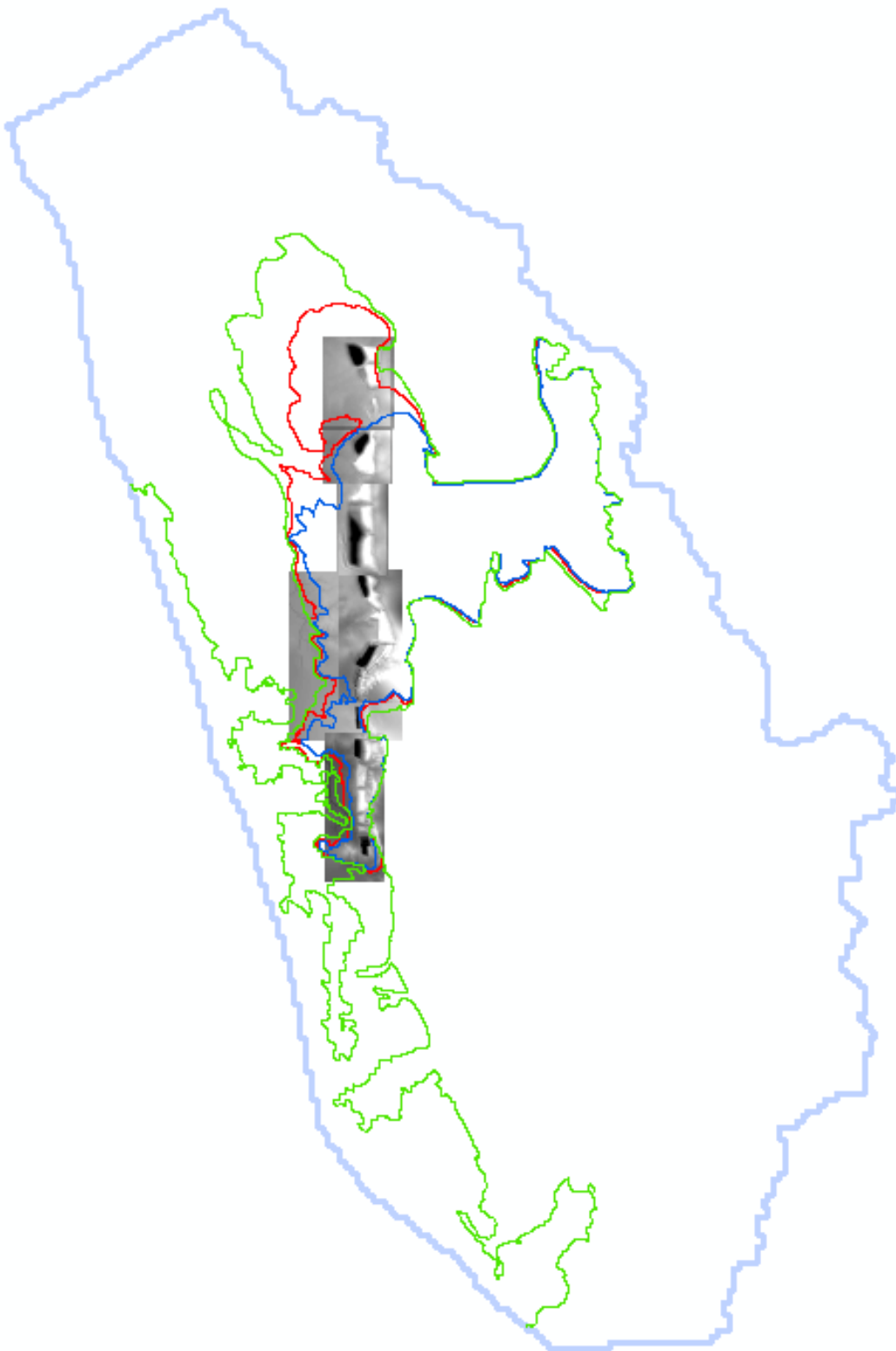
**Figure I-16 Proposed Closure Drawdown 1000 years – Conservative Case (5m and 1m contour)**



**Figure I-17 Sensitivity of Drawdown (Layer 2; 3 m Drawdown used As Comparison; Proposed Case)**

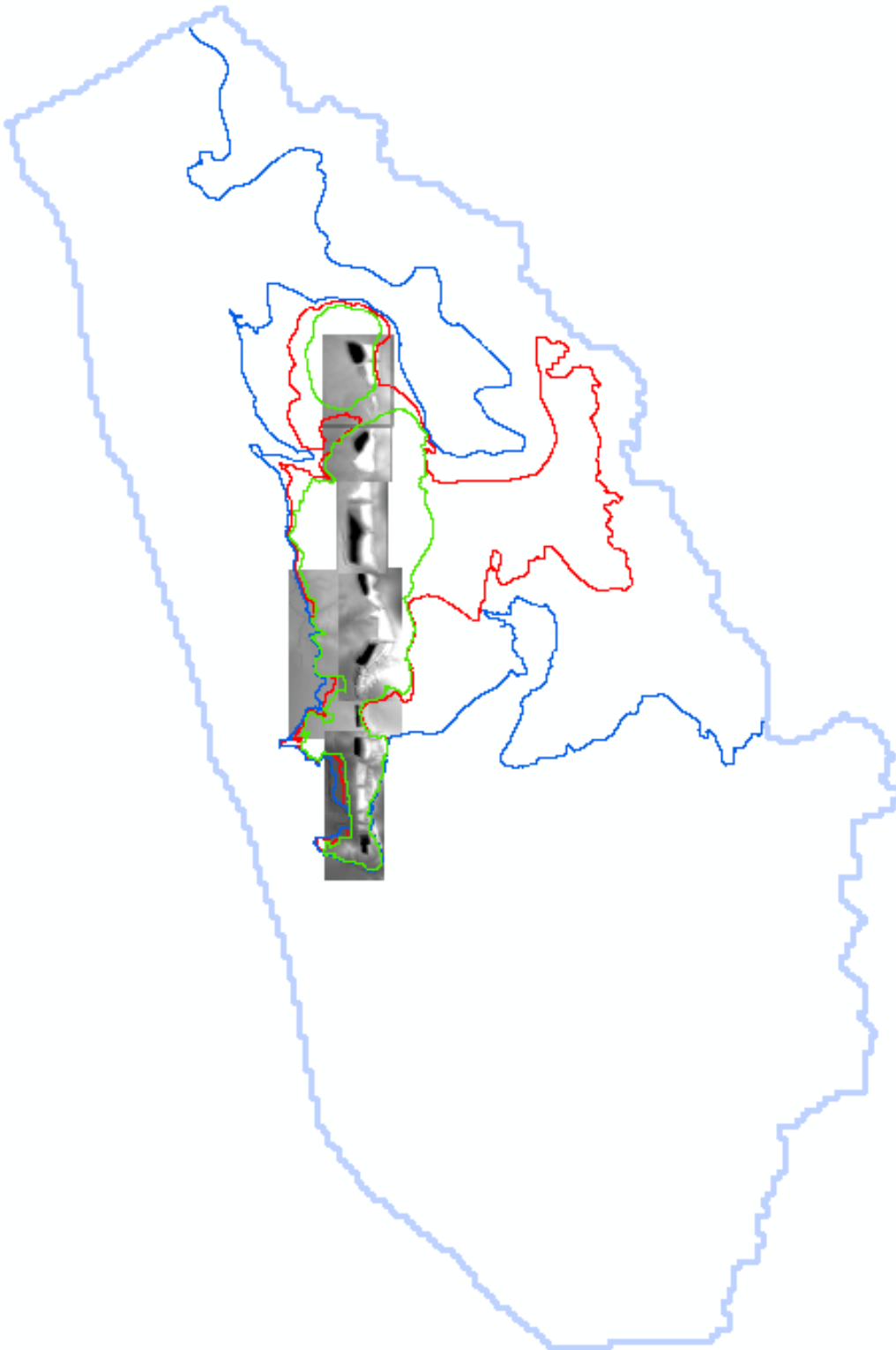


**Figure I-18 Sensitivity of Drawdown (Layer 6; 3 m Drawdown used as Comparison; Proposed Case)**



**Figure I-19 Drawdown Sensitivity Layer 2**

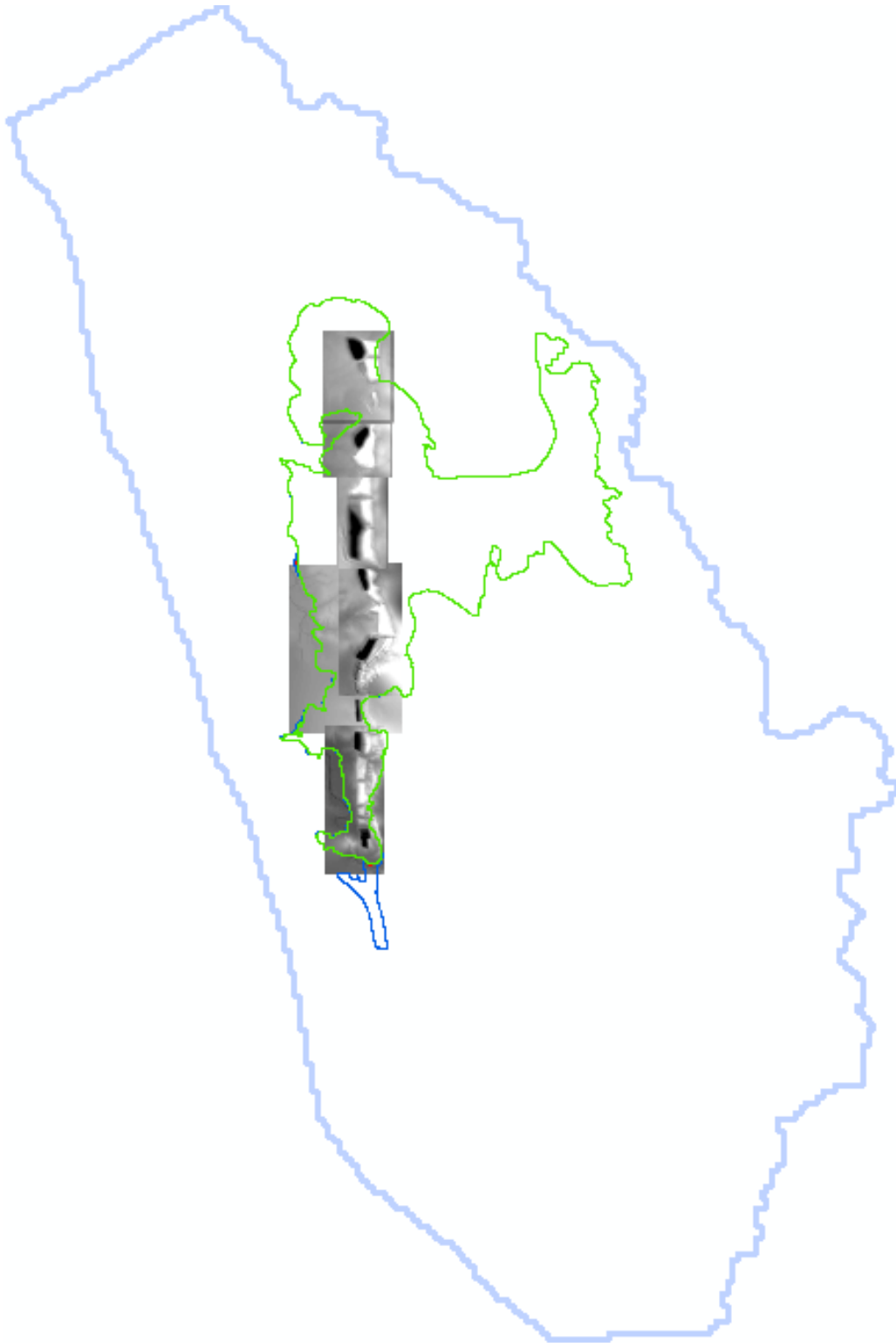
**Base (red) and Sens ID 1 & 2 (cs Alluvium k /10 - blue, cs Alluvium k X10 - green)**



**Figure I-20 Drawdown Sensitivity Layer 2**

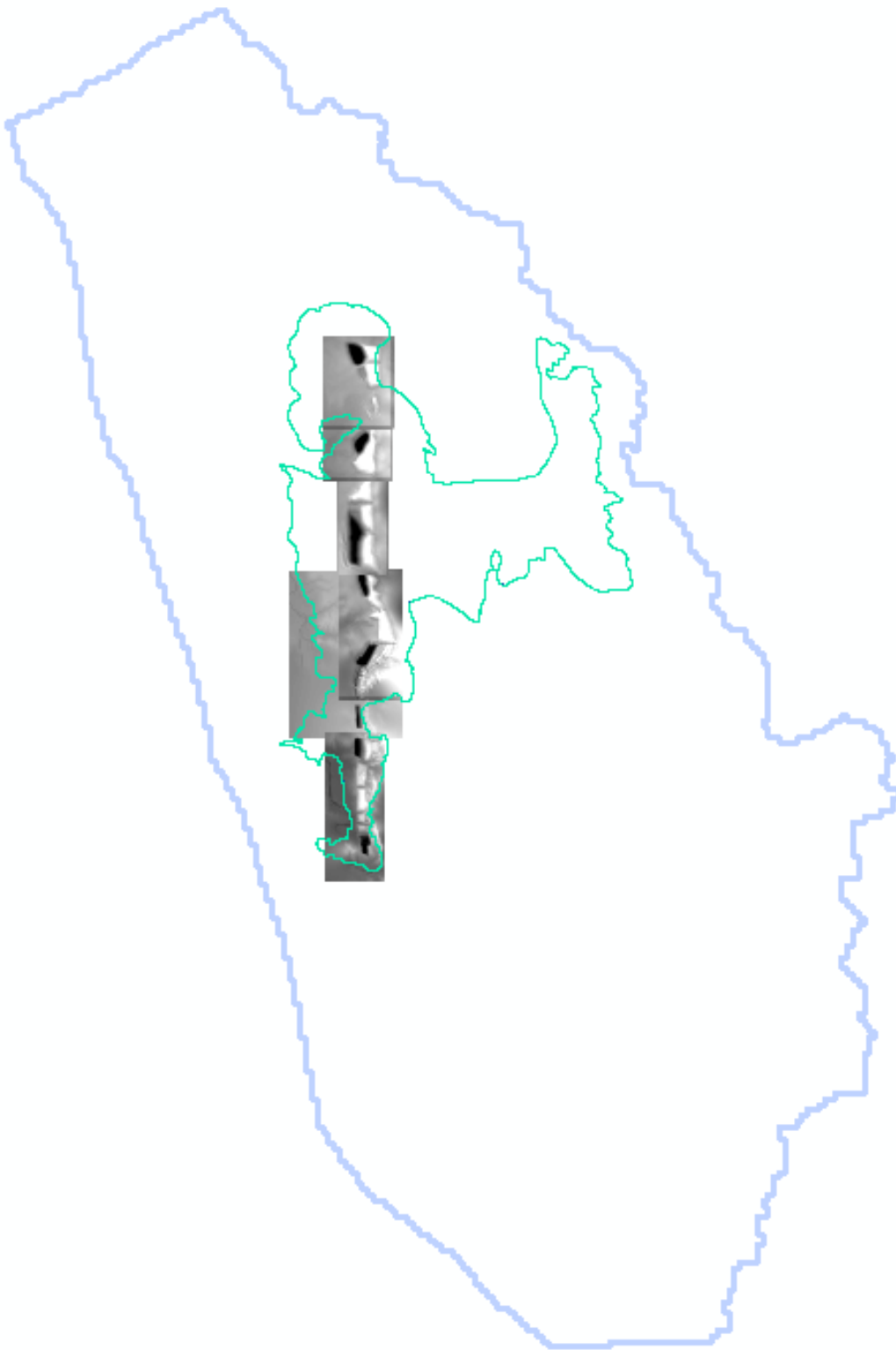
**Base (red) and Sens ID 3 & 4 (recharge x 0.5 - blue, recharge x 1.5 - green)**





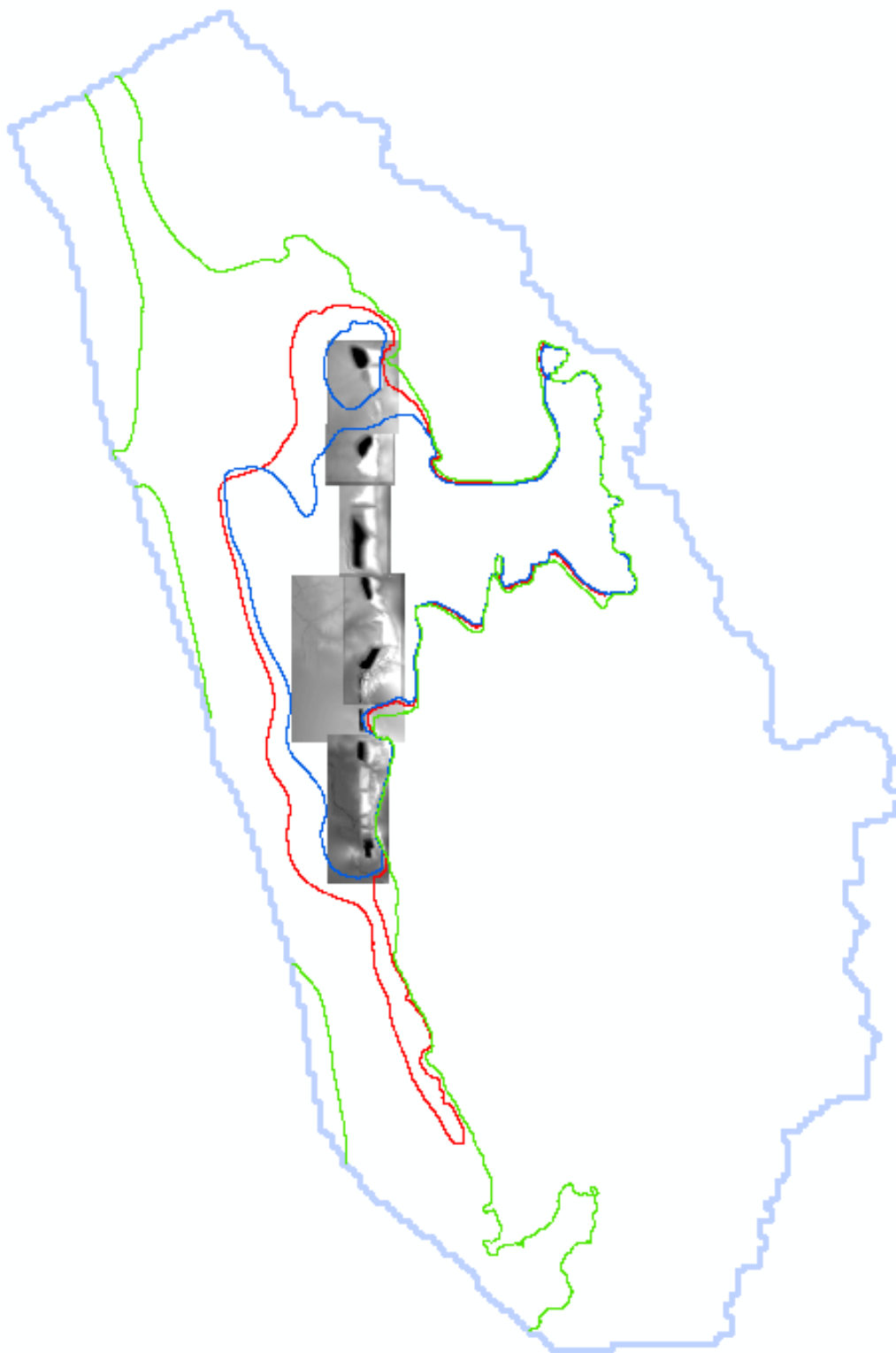
**Figure I-21 Drawdown Sensitivity Layer 2**

**Base (red) and Sens ID 5 & 6 (River Conductance /10 - blue, River Conductance x10 - green)**



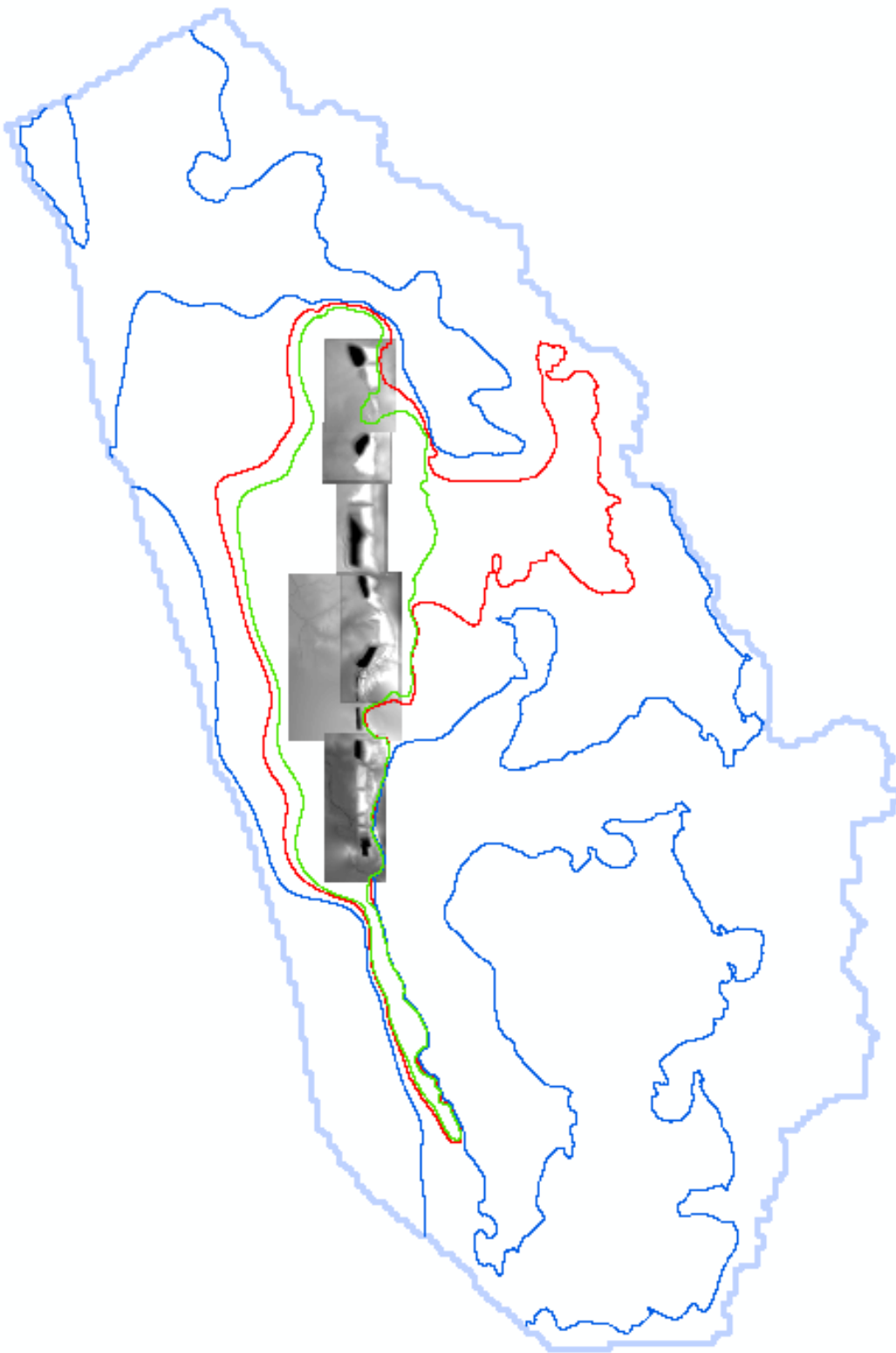
**Figure I-22 Drawdown Sensitivity Layer 2**

**Base (red) and Sens ID 5 & 6 (Spoil Sy /2 - blue, Spoil Sy x2 - green)**



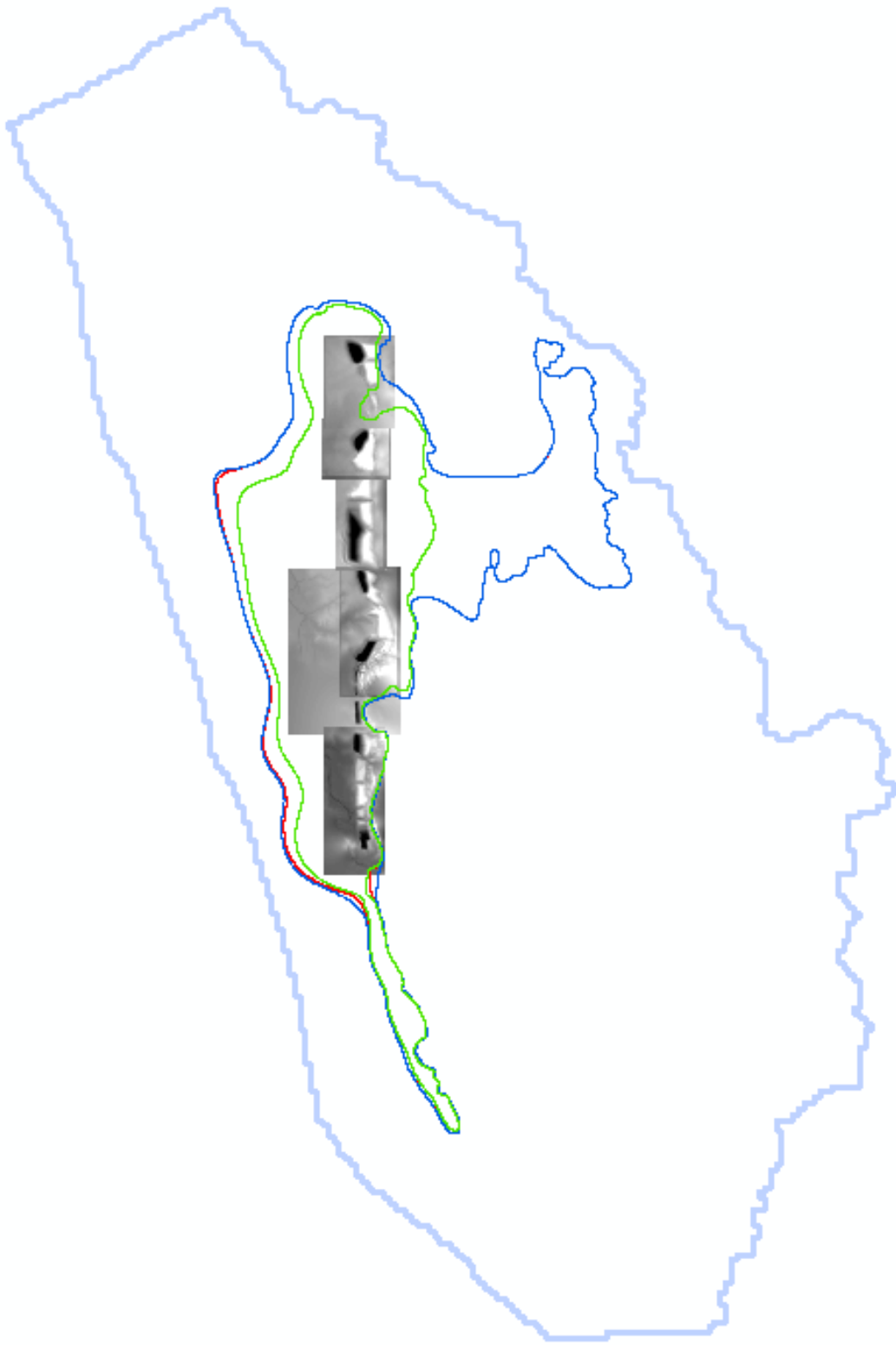
**Figure I-23 Drawdown Sensitivity Layer 6**

**Base (red) and Sens ID 1 & 2 (cs Alluvium k /10 - blue, cs Alluvium k X10 - green)**



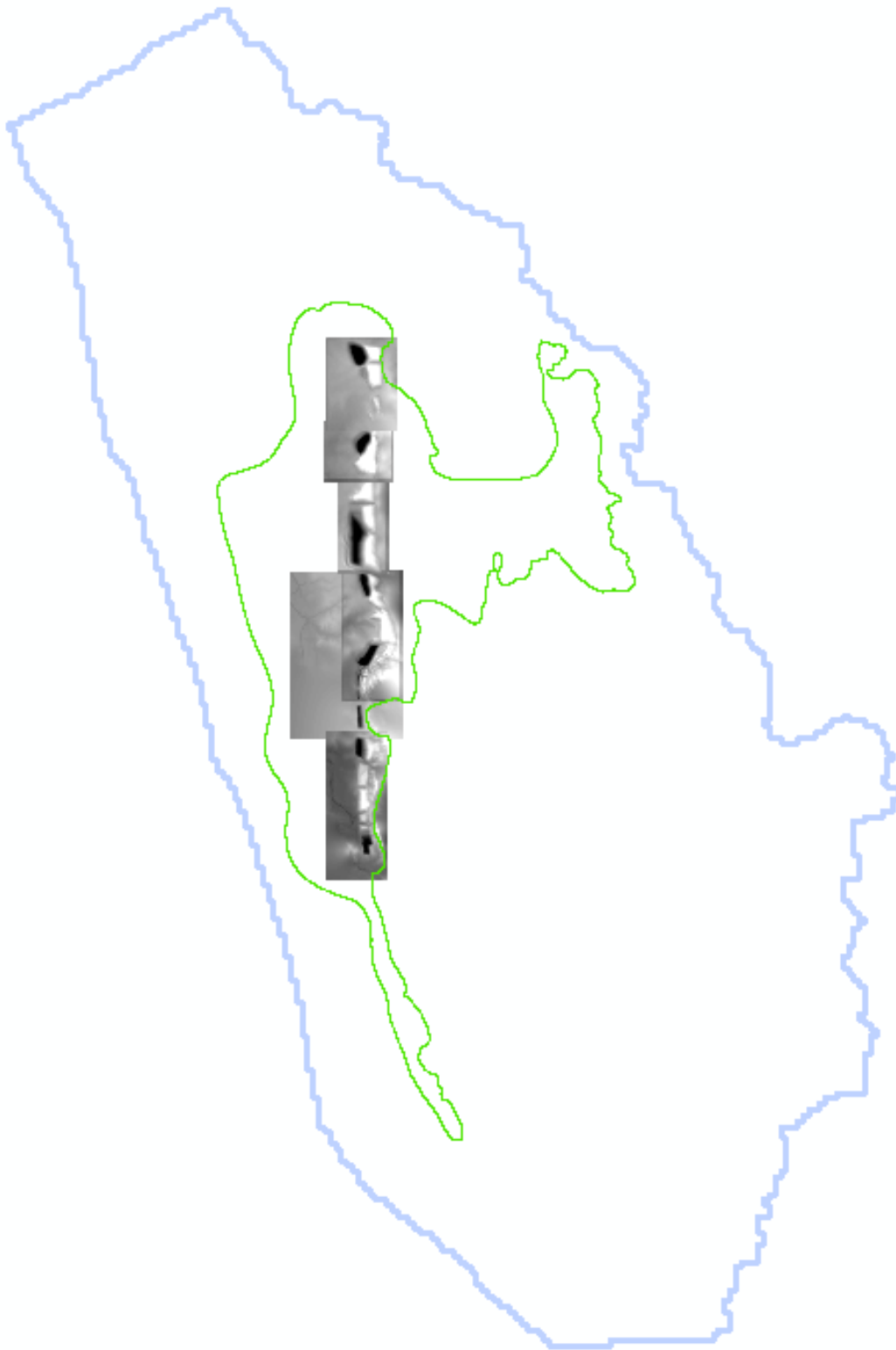
**Figure I-24 Drawdown Sensitivity Layer 6**

**Base (red) and Sens ID 3 & 4 (recharge x 0.5 - blue, recharge x 2 - green)**



**Figure I-25 Drawdown Sensitivity Layer 6**

**Base (red) and Sens ID 5 & 6 (River Conductance /10 - blue, River Conductance x10 - green)**



**Figure I-26 Drawdown Sensitivity Layer 6**  
**Base (red) and Sens ID 5 & 6 (Spoil Sy /2 - blue, Spoil Sy x2 - green)**

# MODEL APPENDIX II

## Water Balances

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1000 Year, Post Mine Closure

**1. Existing mine plan case**

For the last time step:

Layer 1

Category	In (m <sup>3</sup> /d) Flux	Out (m <sup>3</sup> /day) Flux
Bottom	3400.754024	-4483.69
Recharge	3953.354434	0
ET	0	-3276.22
Storage	0	-0.00031
<b>River</b>	<b>704.9819272</b>	<b>-347.722</b>
GHB	48.54440641	0

Layer 2

Category	In Flux	Out Flux
West	0.022146171	-0.00264
East	60.75982649	0
North	15.35006392	-0.94374
South	2.910982374	-1.09603
Top	4483.687078	-3400.75
Bottom	2218.09971	-3736.64
Storage	5.17E-08	-0.00021
<b>River</b>	<b>711.6759987</b>	<b>-353.073</b>
Error	0.000369264	0

All layers

Category	in Flux	out Flux
West	66.28280538	-0.20886
East	230.7264877	-0.50532
North	49.72493216	-56.3792
South	113.6838763	-6.05231
Recharge	3953.354434	0
ET	0	-3276.22
Storage	1.65E-05	-0.0066
<b>River</b>	<b>1416.657926</b>	<b>-700.796</b>
Error	0.052434474	<b>0</b>



**2. Proposed case (Conservative Case)**

Layer 1 Category	in (m <sup>3</sup> /day) Flux	out (m <sup>3</sup> /day) Flux
Bottom	2101.135125	-4212.23
Recharge	3430.122302	0
ET	0	-1912.66
<b>River</b>	<b>731.5447045</b>	<b>-324.77</b>
Error	1.15E-05	0

Layer 2 Category	Flux	Flux
West	0.02009849	-0.000920704
East	59.20726712	0
North	14.28137883	-0.632766992
South	2.902723654	-1.075615736
Top	4212.226179	-2101.135125
Bottom	1039.279824	-3633.756452
Storage	1.33E-06	-8.51E-06
<b>River</b>	<b>738.4868303</b>	<b>-329.8034165</b>
Error		

All layers Category	in Flux	out Flux
West	68.05849024	-0.149062377
East	248.7737578	-0.507775884
North	175.4043853	-15.95396382
South	117.7048141	-6.390152996
Recharge	3430.122302	0
ET	0	-1912.658827
Storage	0.000215878	-0.004394841
<b>River</b>	<b>1470.031535</b>	<b>-654.5737479</b>
Drain	0	-3106.68019
GHB	186.8532171	0
Error	0.030602008	0

## 2. Proposed case

Layer 1 Category	in (m <sup>3</sup> /day) Flux	out (m <sup>3</sup> /day) Flux
Bottom	2178.085895	-4576.670487
Recharge	3855.000252	0
ET	0	-1984.986483
River	<b>698.5551532</b>	<b>-336.6408597</b>
Error	166.6565294	0
Layer 2 Category	Flux	Flux
West	0.020321	-0.00069
East	59.12096	0
North	13.71801	-0.66954
South	2.91994	-1.10844
Top	4576.67	-2178.09
Bottom	1094.426	-3930.43
Storage	0	-0.02597
River	<b>705.2738</b>	<b>-341.829</b>
Error	1.27E-06	0
All layers Category	in Flux	out Flux
West	65.89266557	-0.13789
East	231.6525269	-0.51721
North	115.6396993	-95.0438
South	110.1772149	-6.11199
Recharge	3855.000252	0
ET	0	-1984.99
Storage	5.998727167	-16.6355
<b>River</b>	<b>1403.82899</b>	<b>-678.47</b>
Error	-0.002724853	0