



Puthep Copper Project

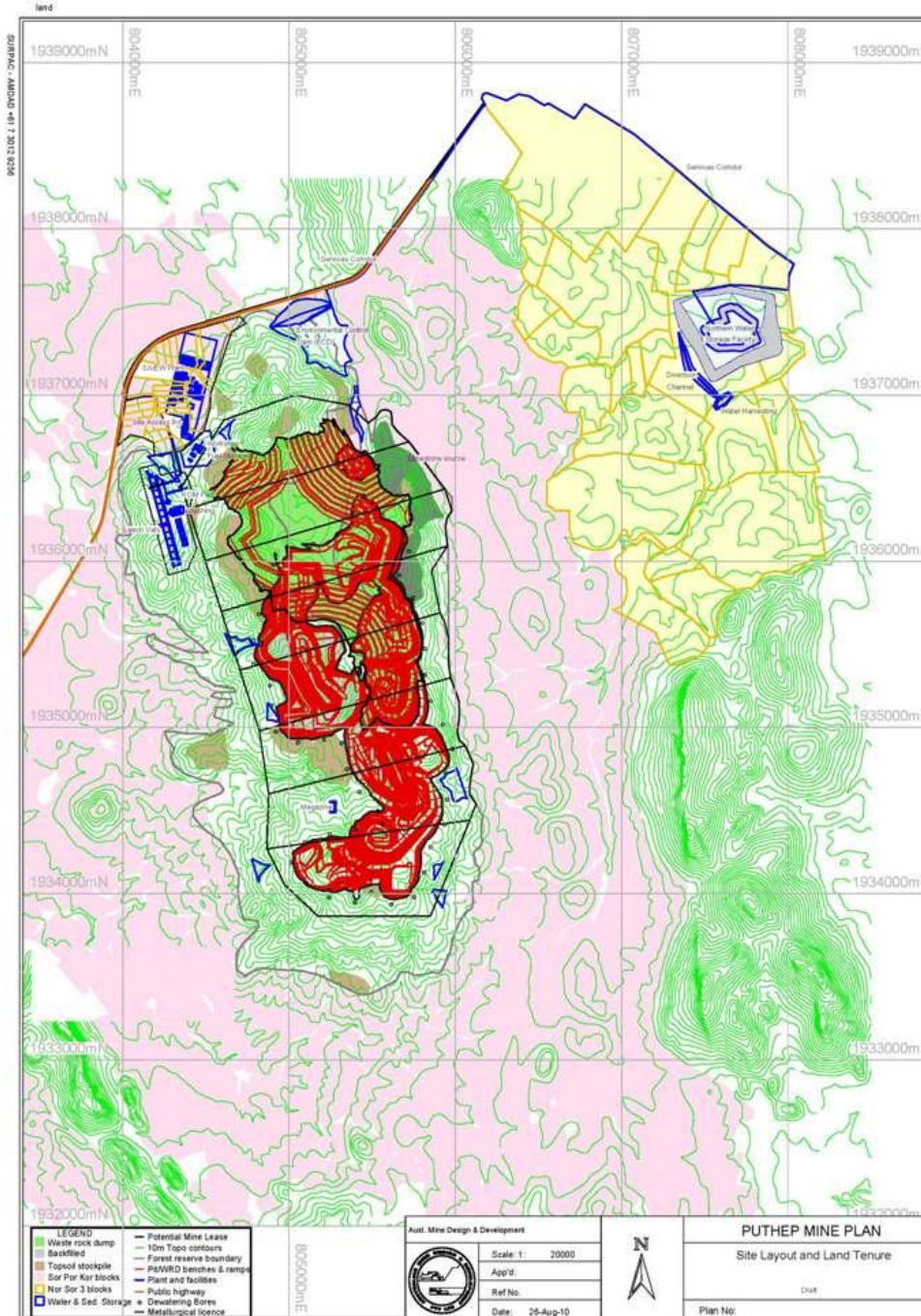




- **Draft mine plan completed**
- **Land requirements confirmed**
- **Mining cost model prepared**
- **ESIA public consultation under preparation**
- **Renewed MLA under preparation**

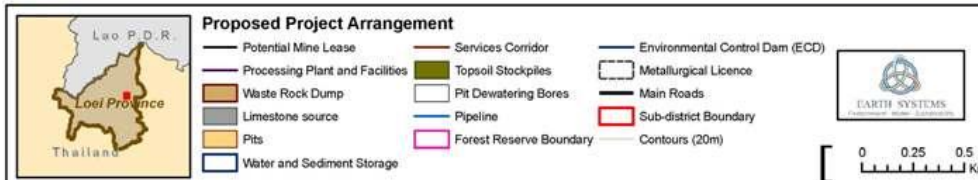
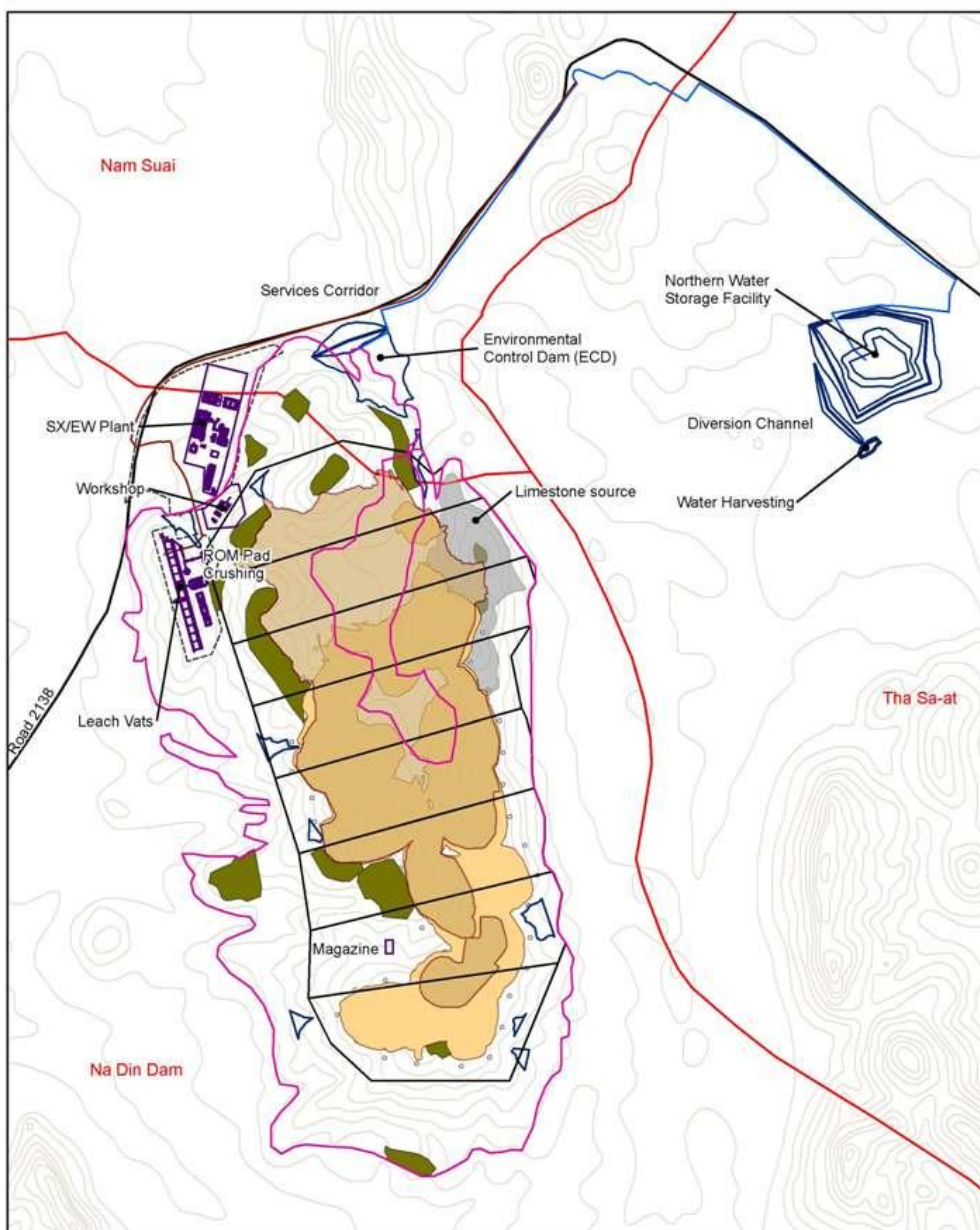
Project Area

- Waste dump/pit designs finalised
- All other major features finalised
- Key treatment of crushed ore through “vat leach”
- Use of acid and bacteria to extract copper solution
- SX/EW processing of acid solution for copper cathode



Project Area

- Separate MLAs (300 rai) shown as grid
- Processing outside of mine leases
- Water management a priority
- Topsoil stockpiling planned
- Sedimentation control
- Limestone quarry for acid control



Mining



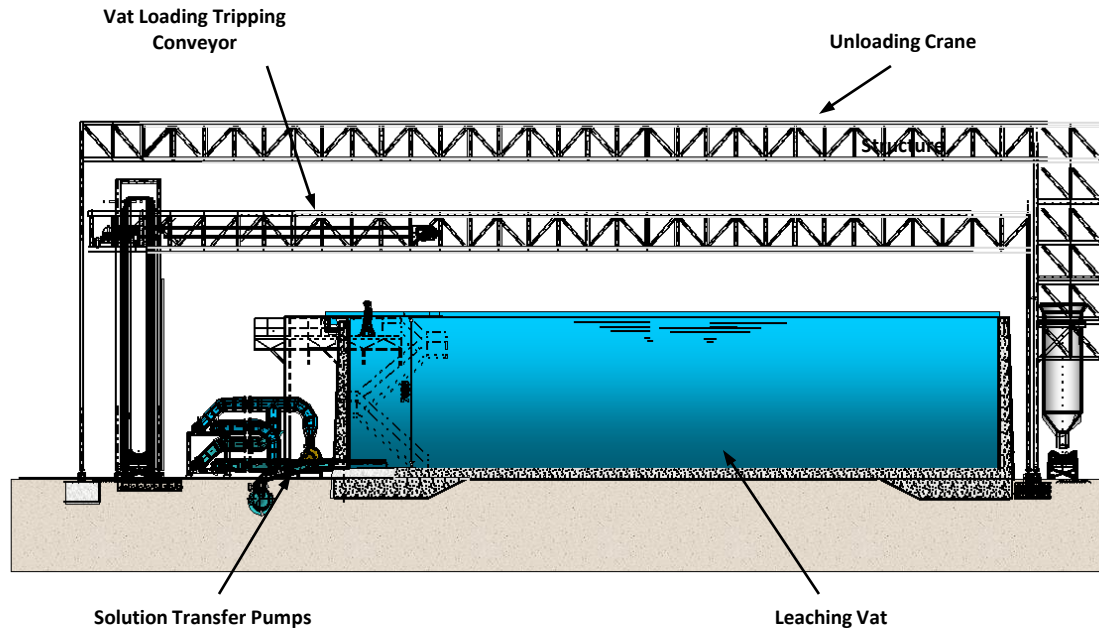
Crushing and Agglomeration



Leaching Vats



Leaching Vats

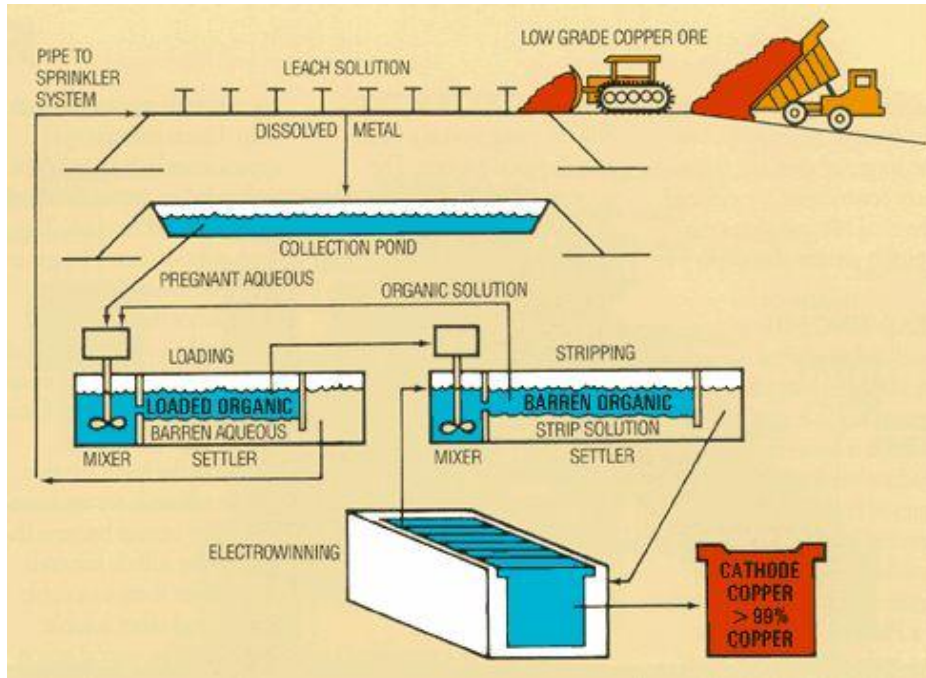


Why Vat Leaching



- **Simple and widely practised technology**
- **Small footprint**
- **Produces copper in final form which could be processed to final products in Thailand**
- **Mining of the deposit can be sequenced**
- **Mining voids can then be backfilled**
- **Reduces potential impacts**

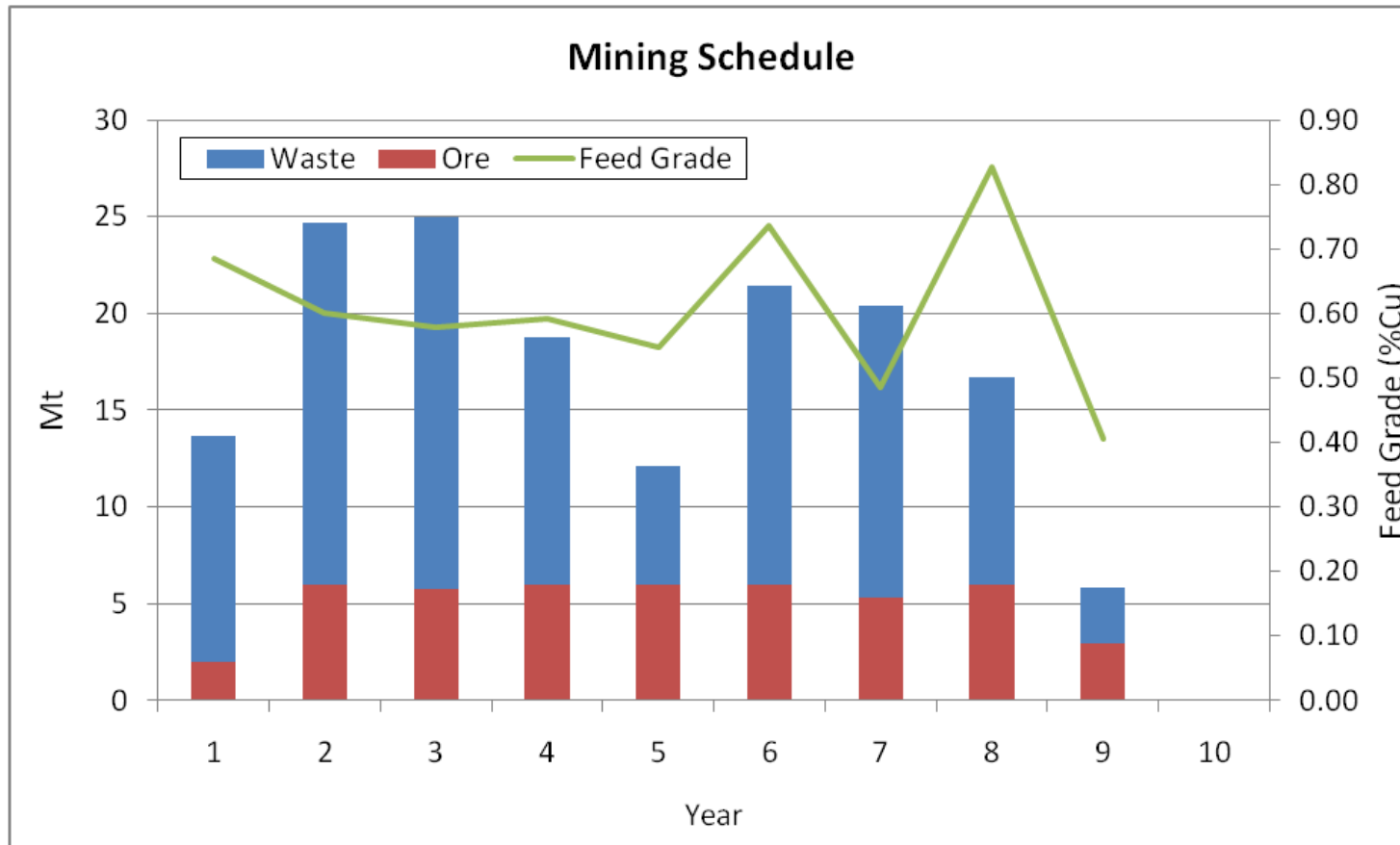
Solvent Extraction



Electro-winning

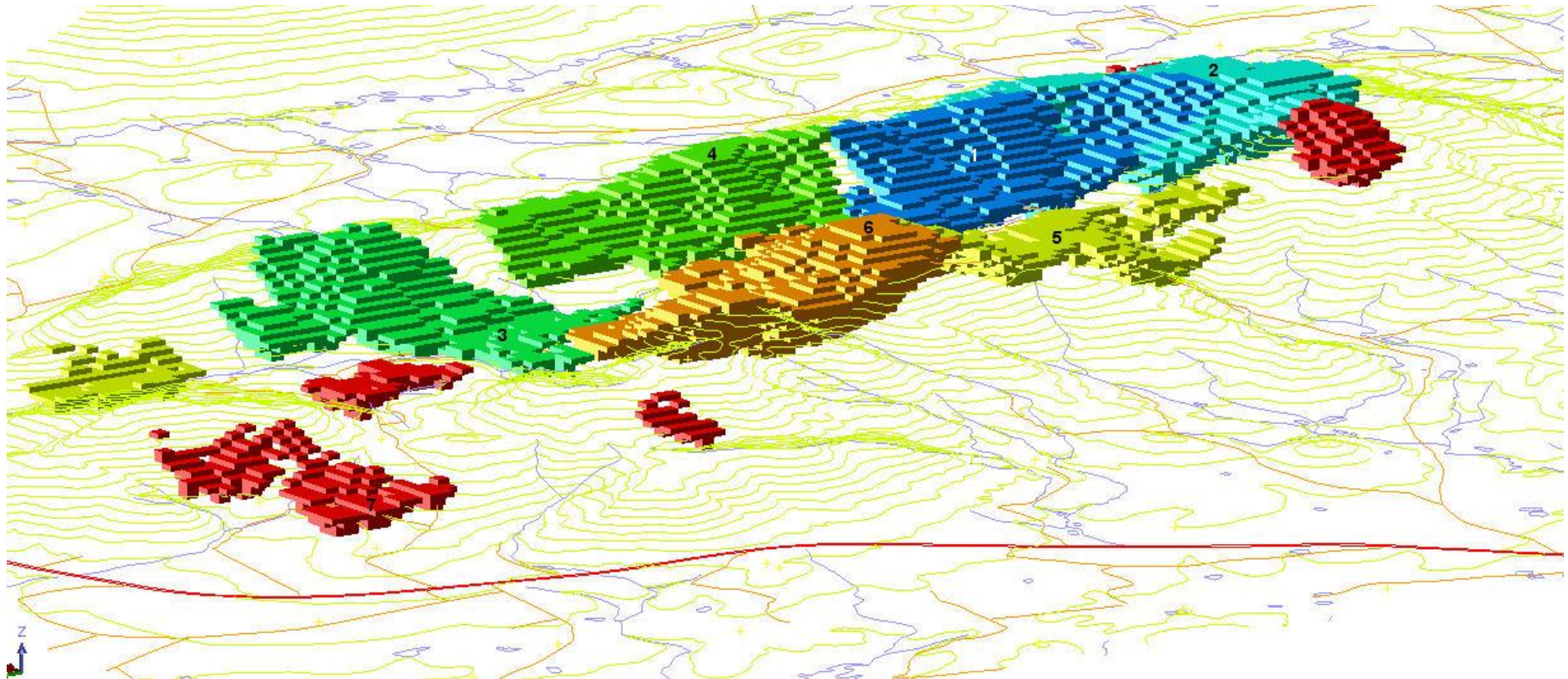


Production Schedule

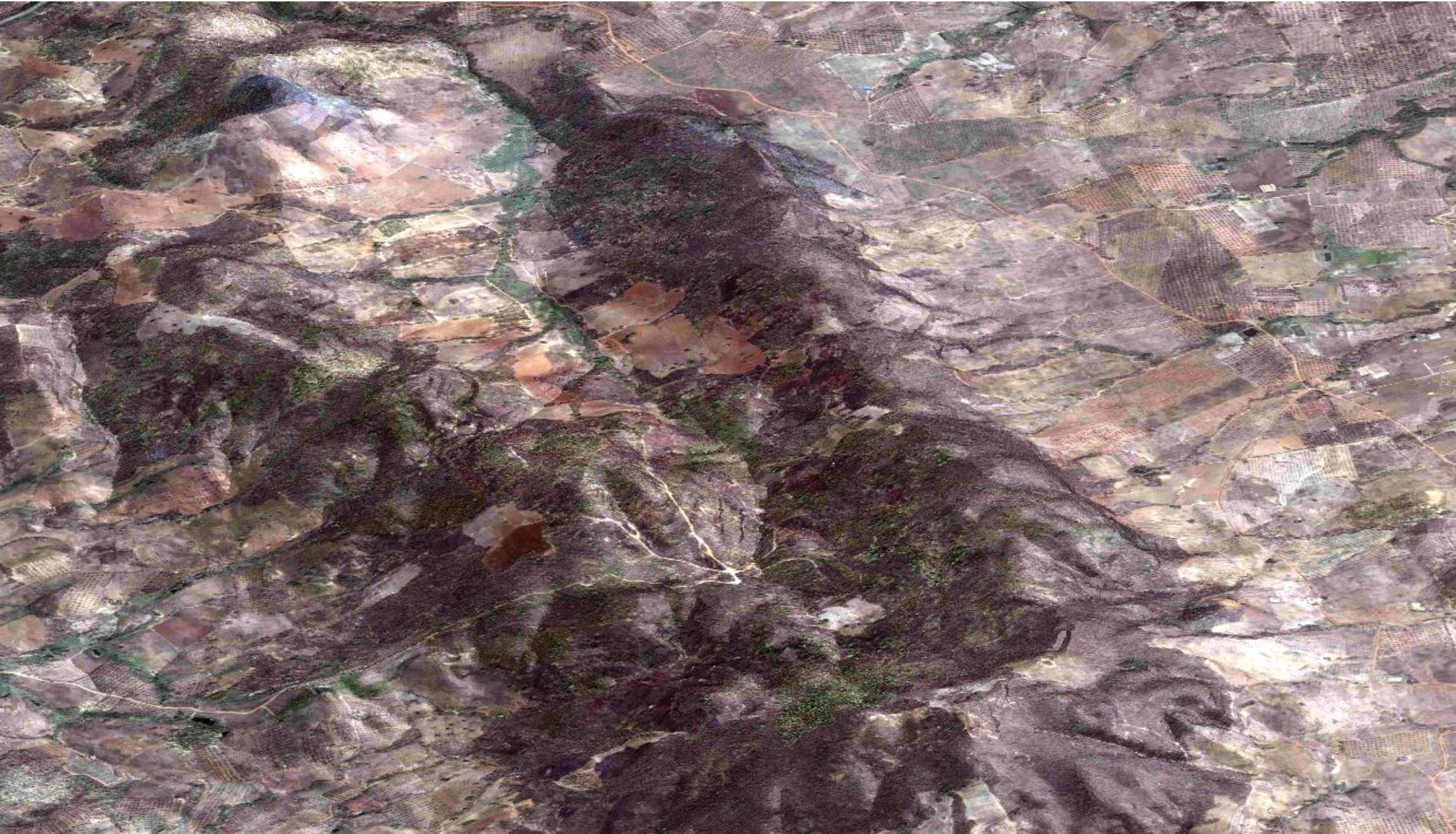


- Ore: 6Mtpa feed with max. 1.2Mtpa oxide
- Maximum mining rate of 24Mtpa for years 2-4, dropping to 18.5Mtpa
- Mine life of just over 8.5 years

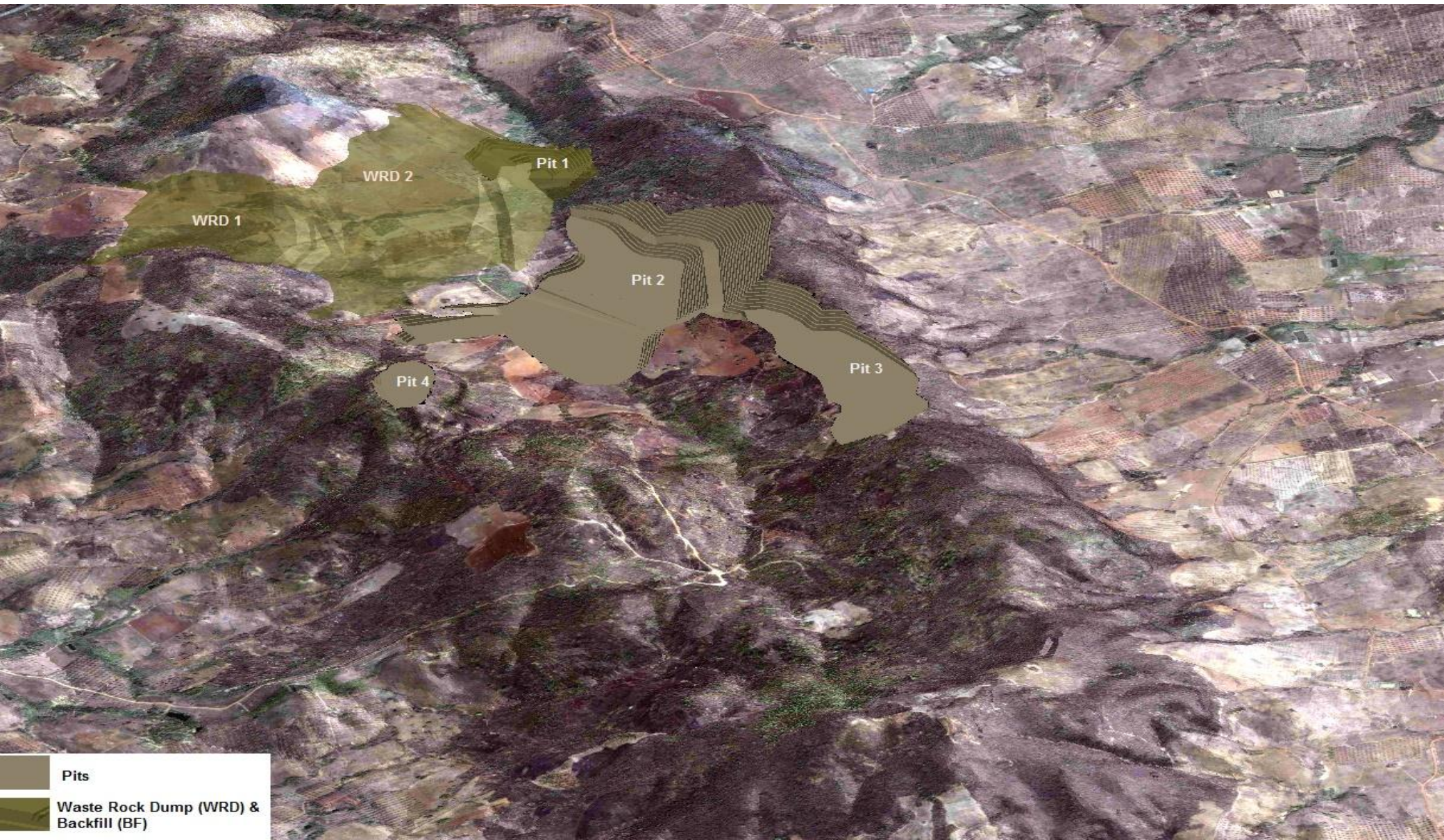
Mine Sequencing



Puthep before mining

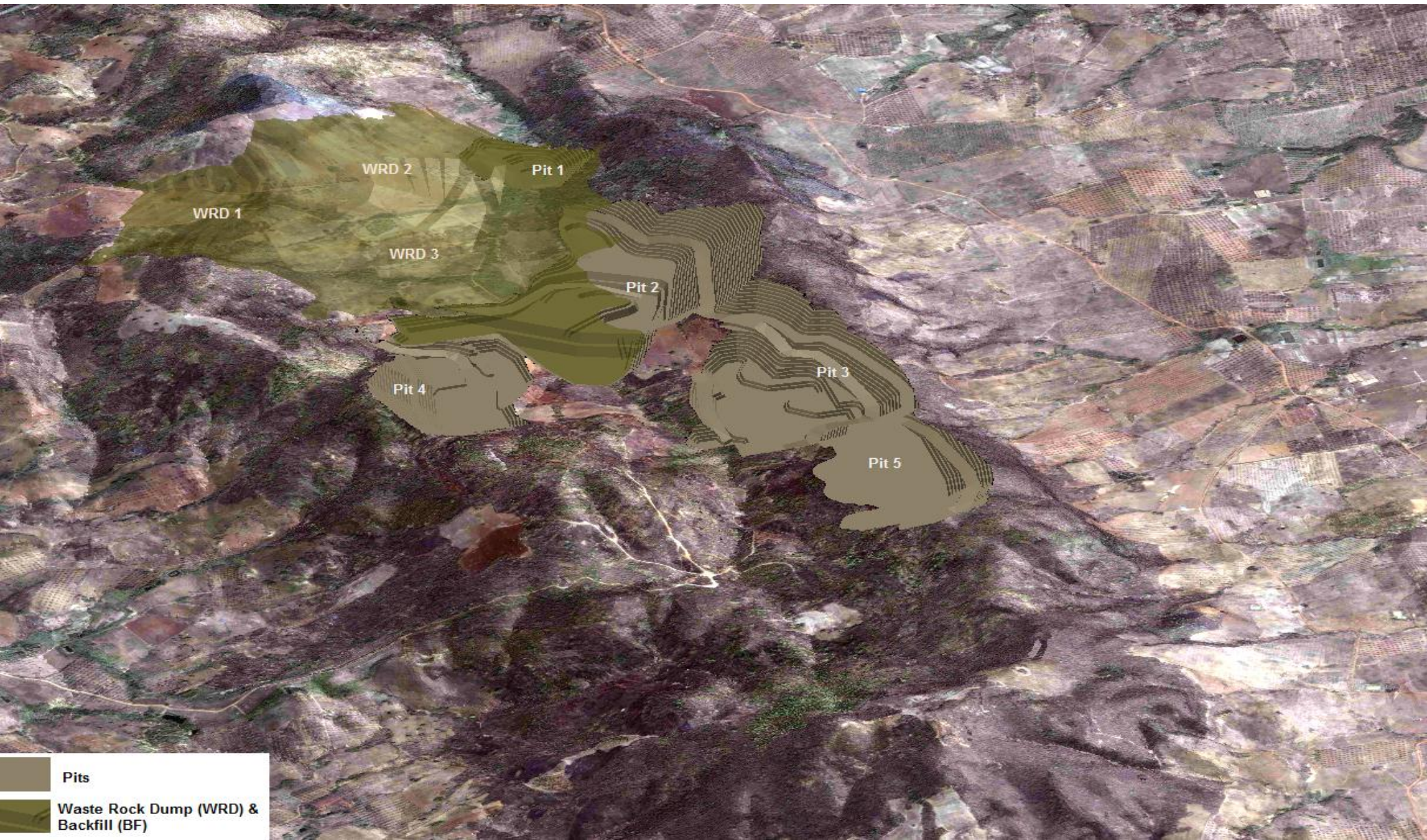


Pit and waste dump – year 1

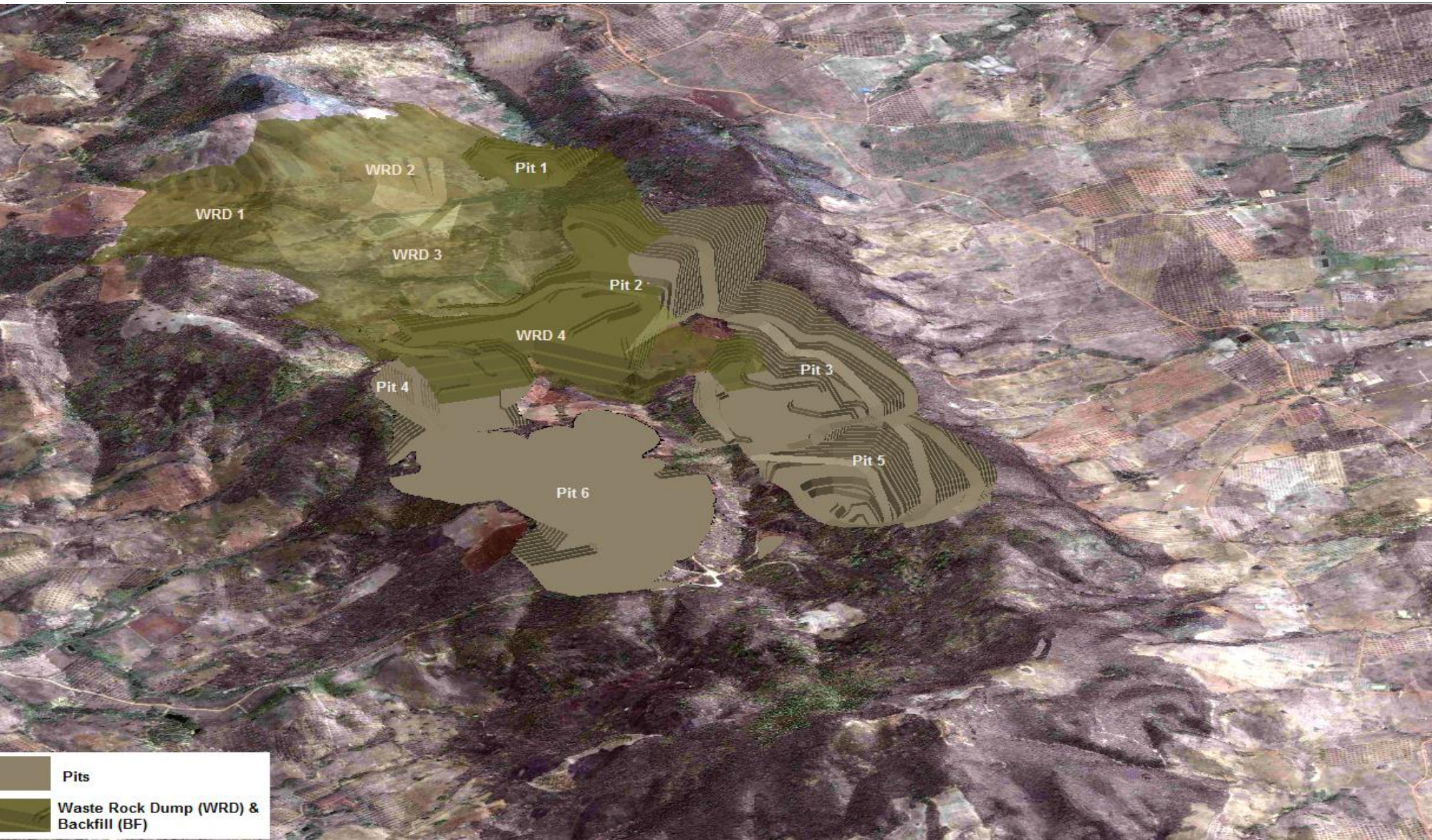


	Pits
	Waste Rock Dump (WRD) & Backfill (BF)

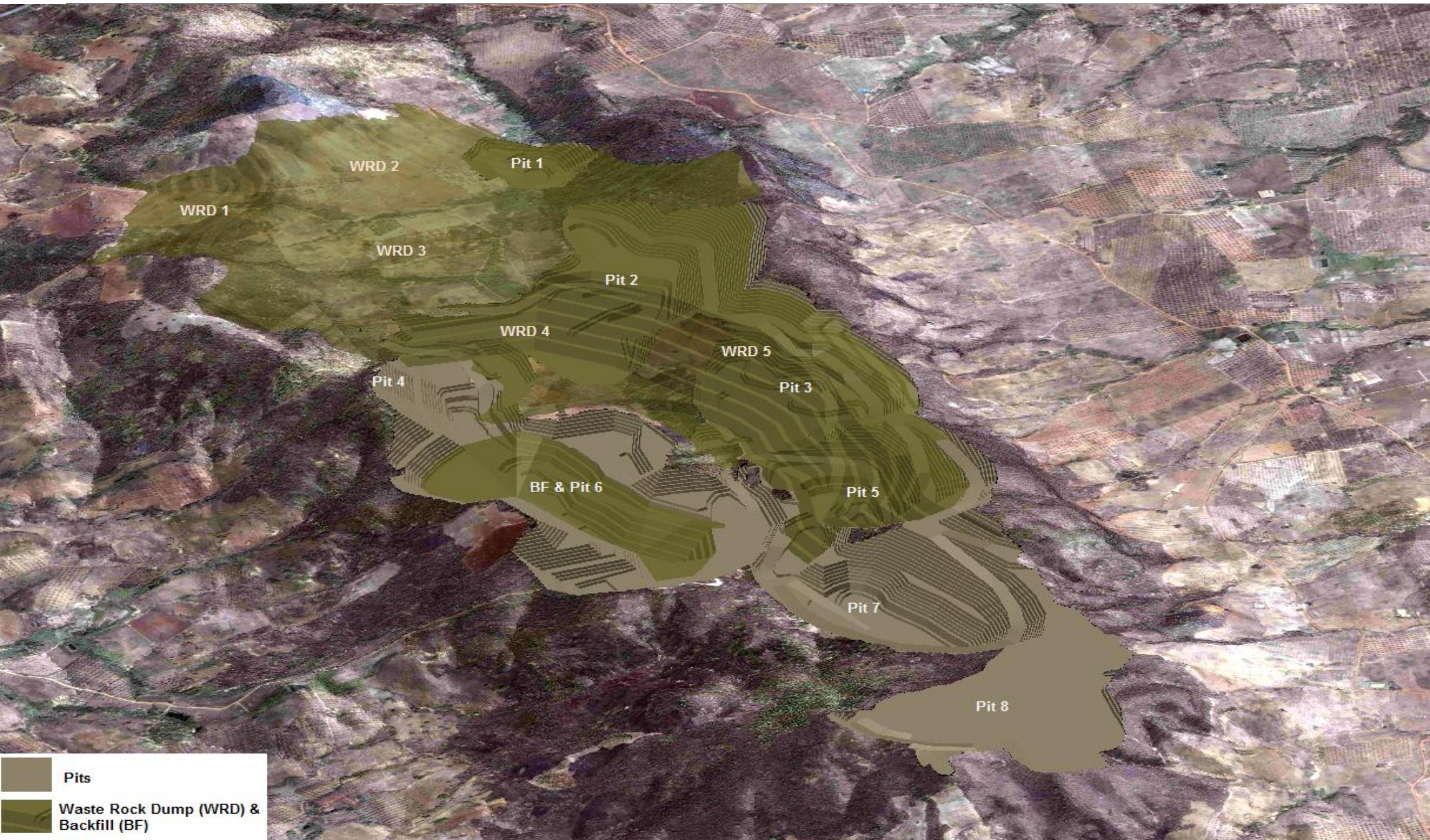
Pit and waste dump – year 2



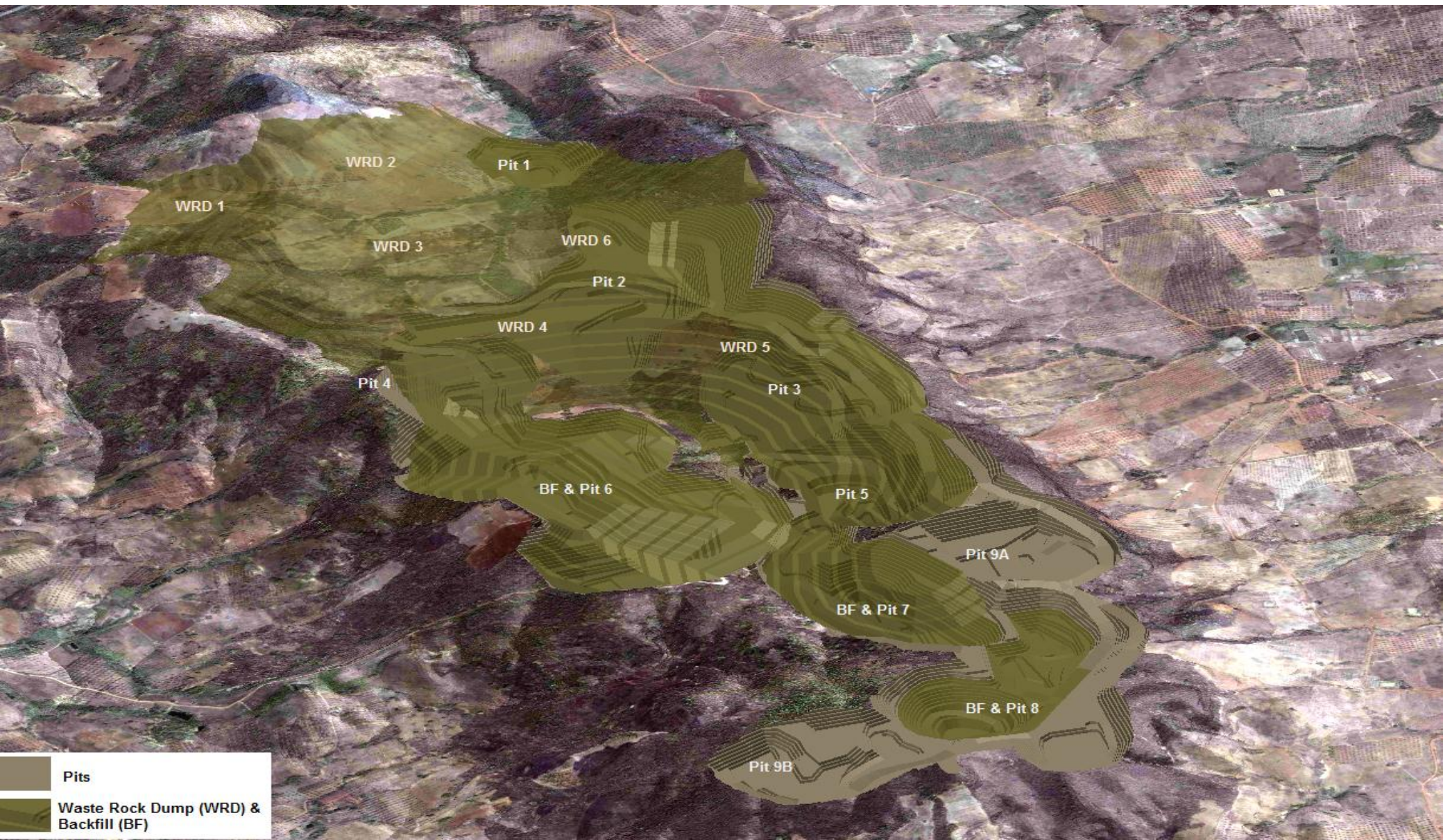
Pit and waste dump – year 3



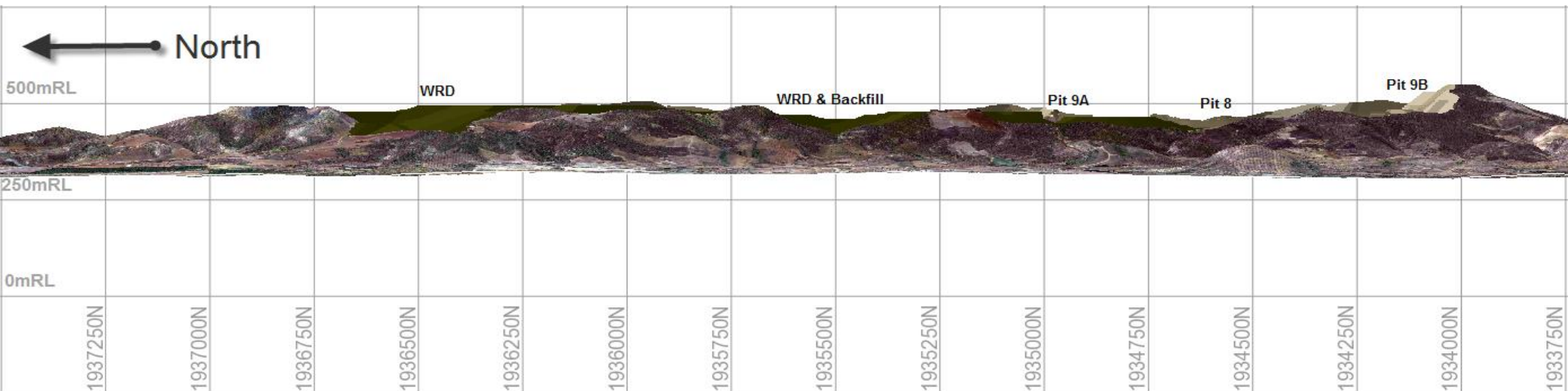
Pit and waste dump – year 6



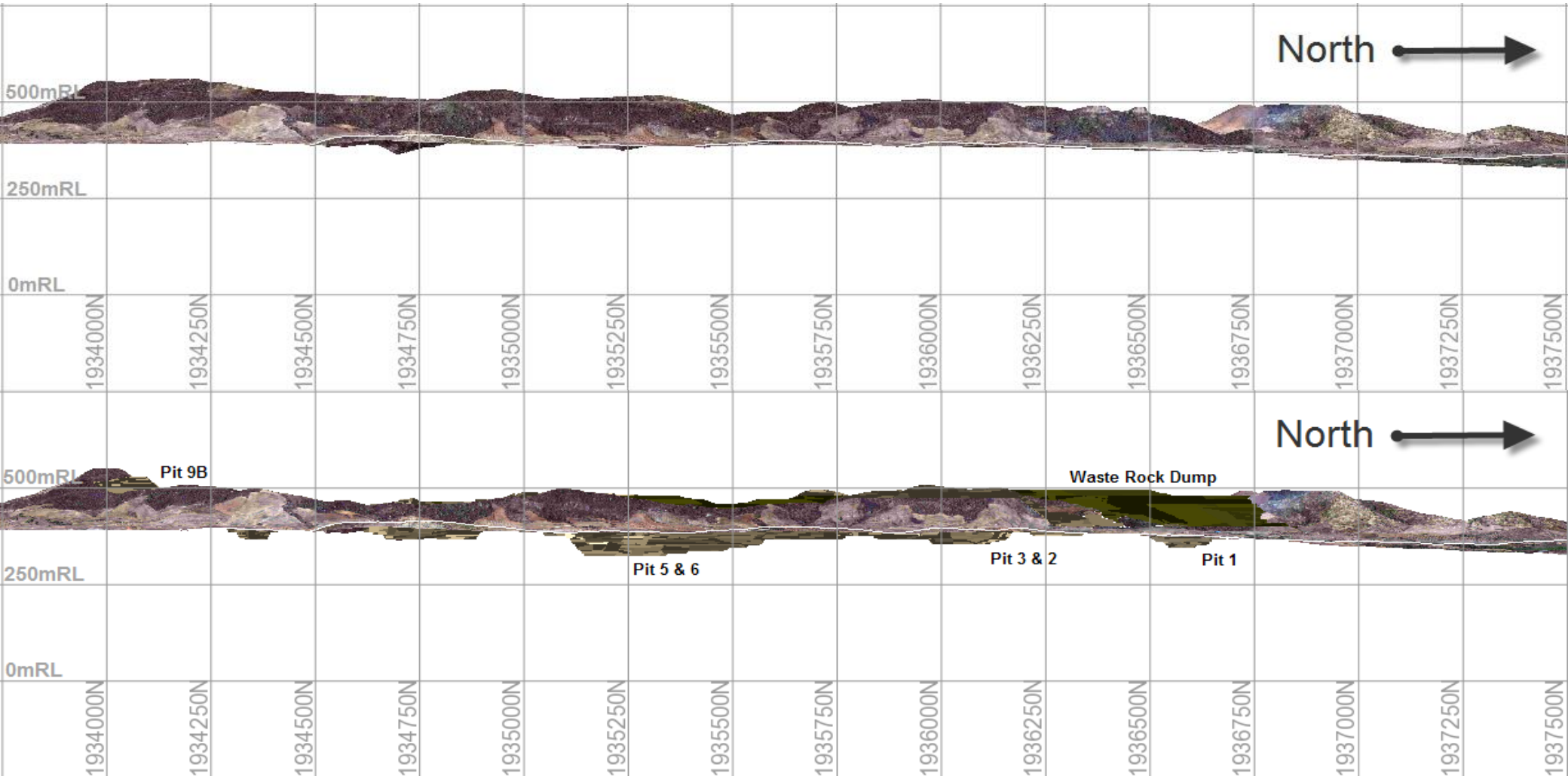
Pit and waste dump – year 9



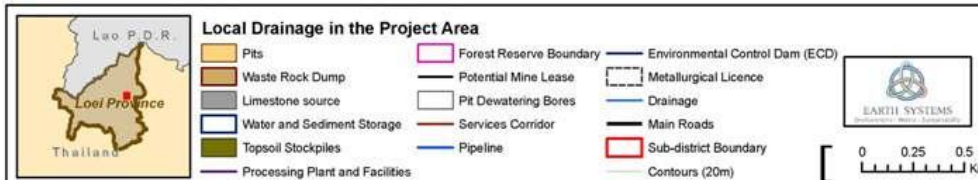
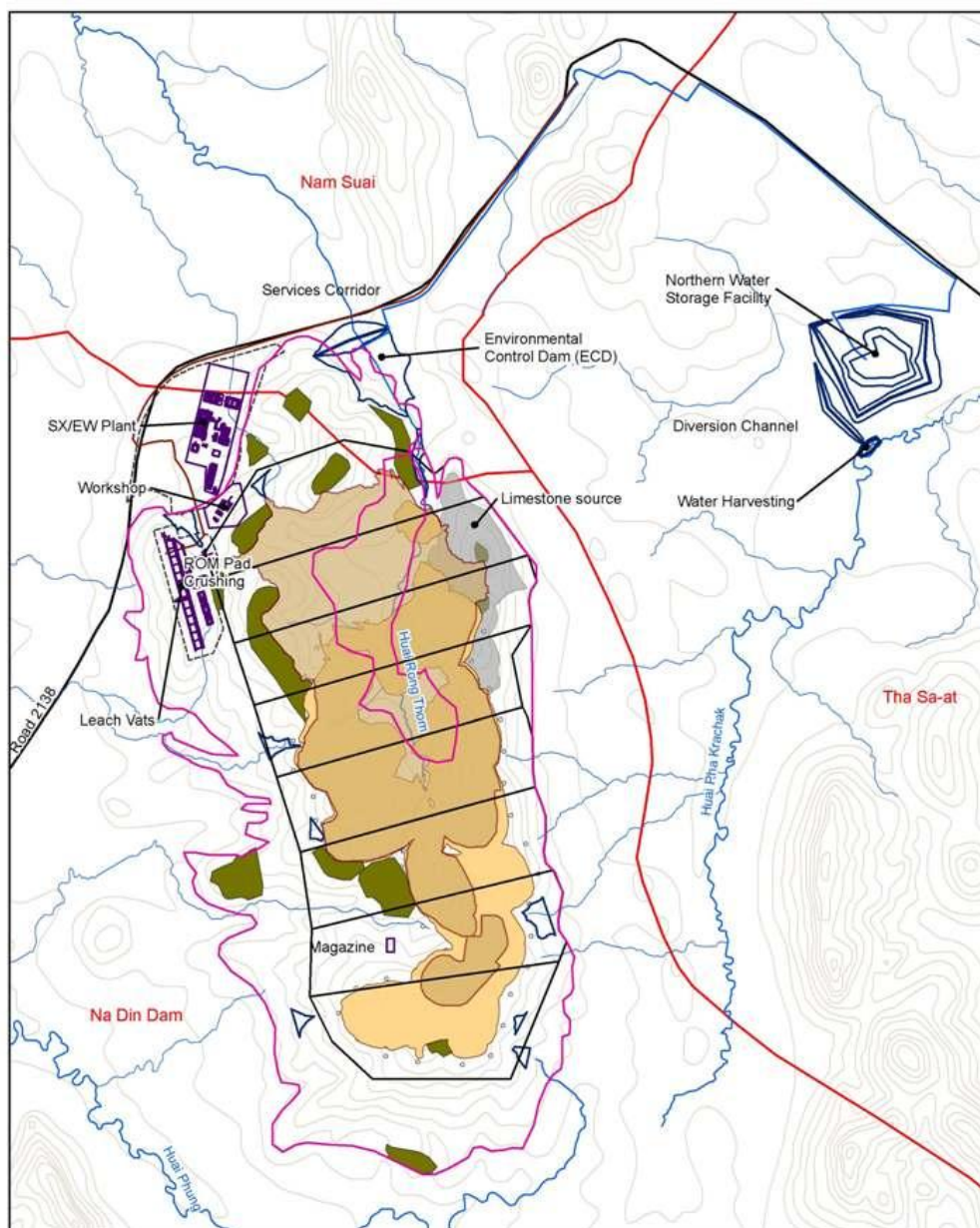
Ridgeline from west



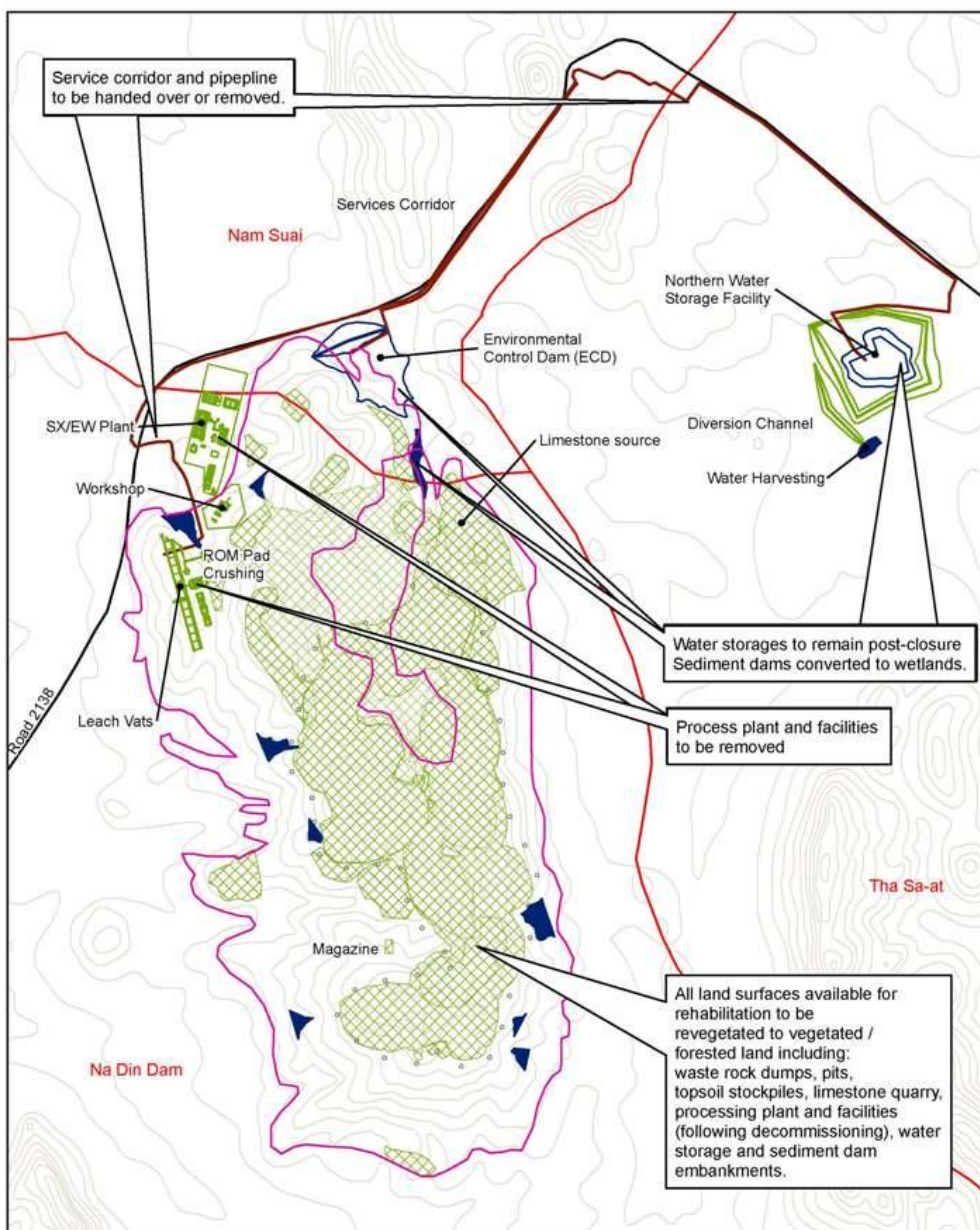
Ridgeline from east



Water Management



Closure strategy



Proposed Land Use at Closure

- Rehabilitated and revegetated to forested land
- Water storages and wetlands
- Hand over to community

- Forest Reserve Boundary
- Sub-district Boundary
- Main Roads
- Contours (20m)

