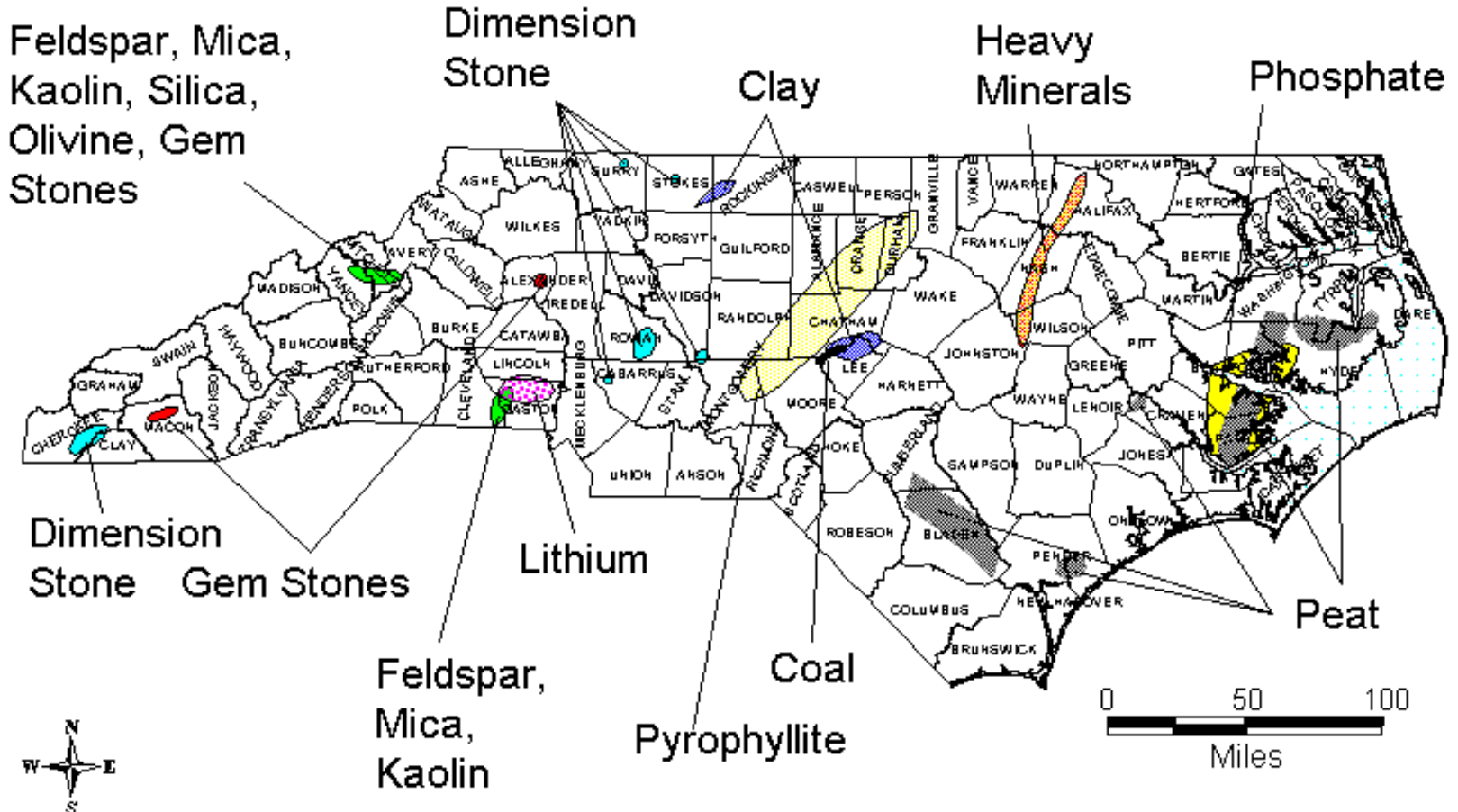


# Obtaining Energy Resources: Mining and Reclamation

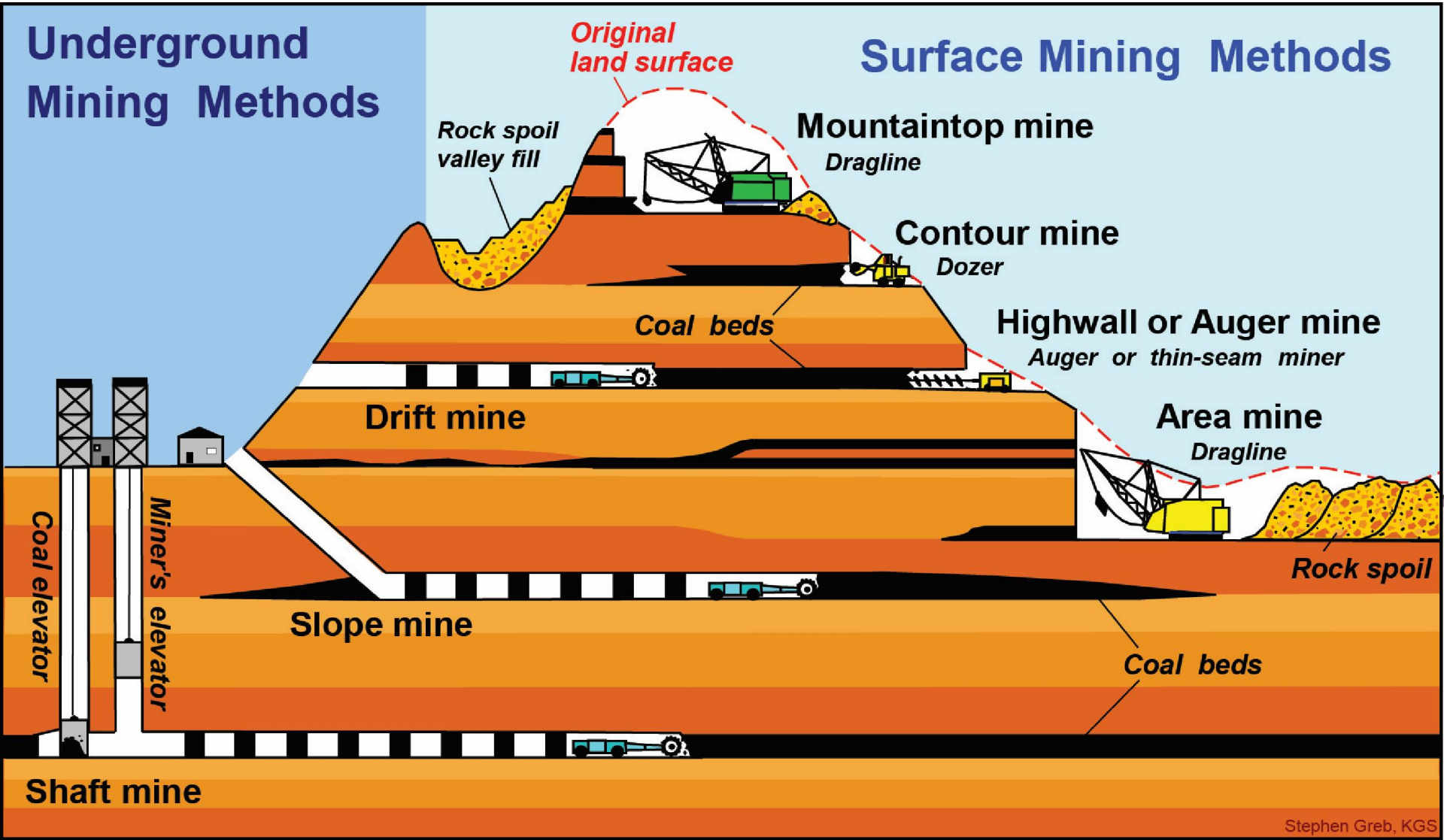
# NC Mining Resources

## Important Industrial-Mineral Mining Districts in North Carolina



# Underground Mining Methods

# Surface Mining Methods



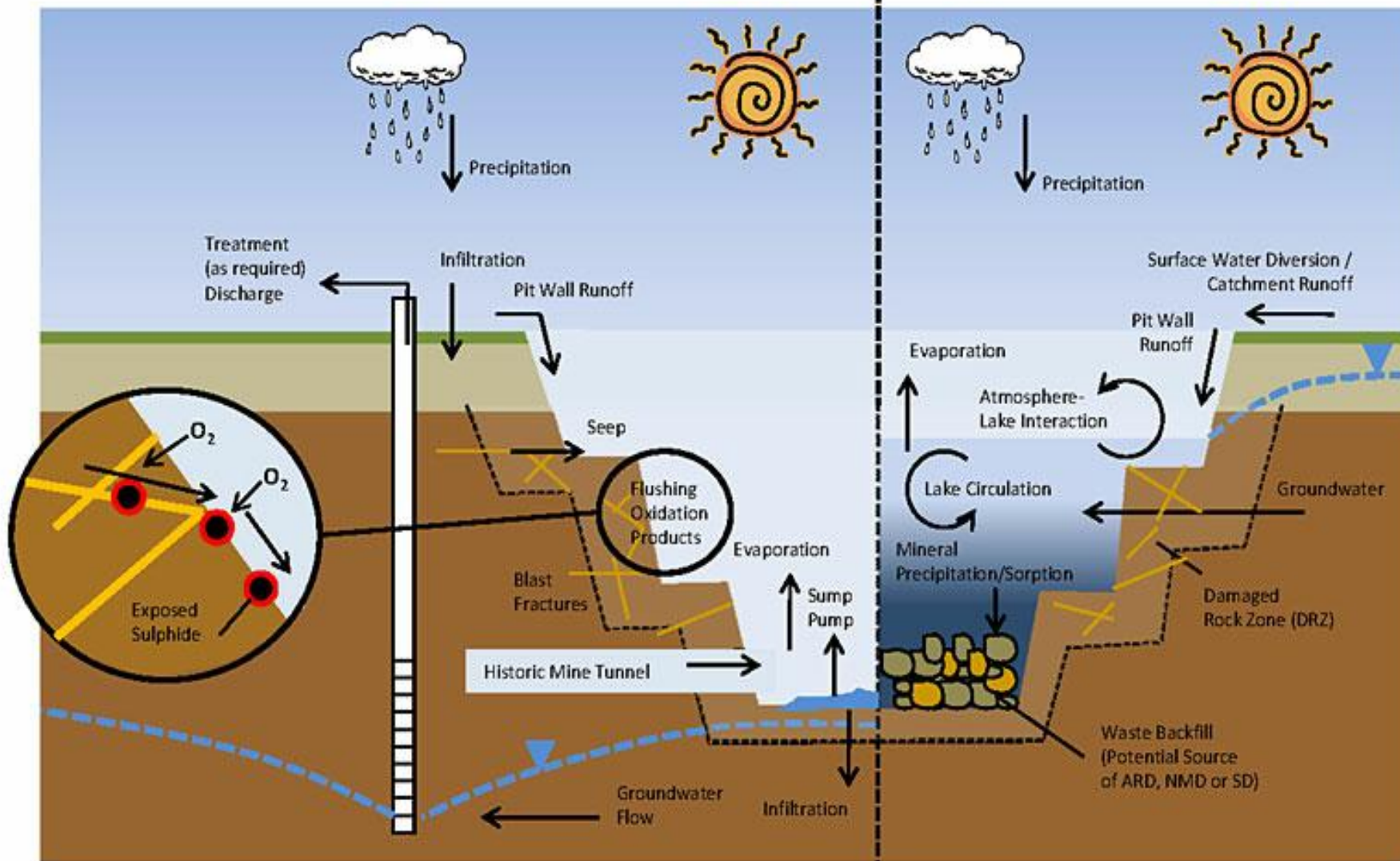
# Open-Pit Mining

- Machines are used to dig large holes in the ground and remove the ore.



### Operation Dry Pit

### Post-Closure Pit Lake





# Strip Mining

- Huge bulldozers and other machines are used to clear away large strips of the Earth's surface.



Graded embankment to act as baffle against noise and dust



Topsoil and subsoil stripped by motor scrapers and carefully stored

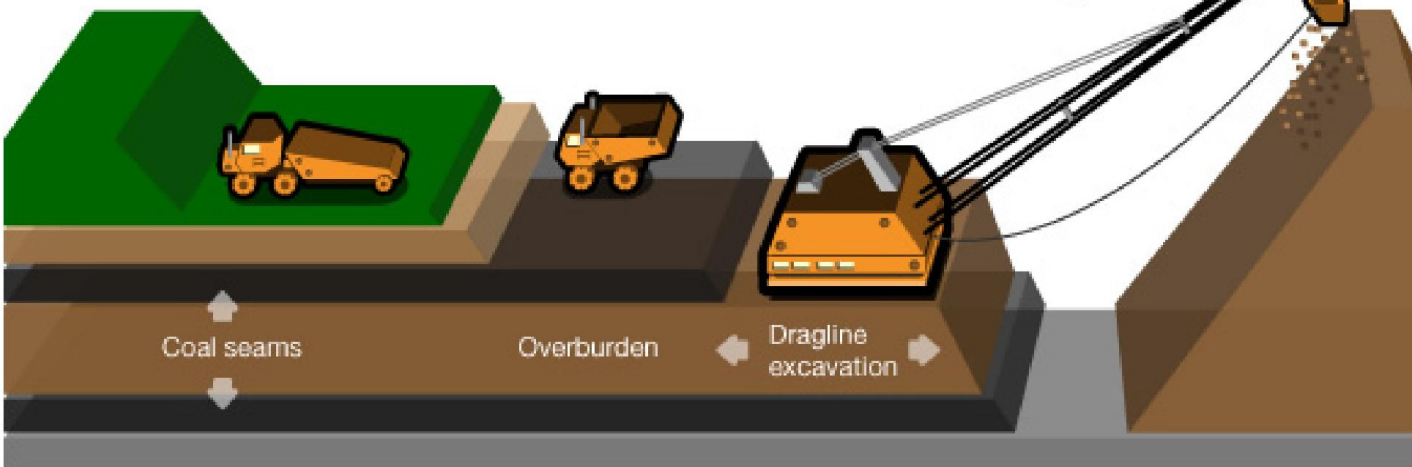


Overburden from benches dug by shovels and hauled by dump trucks



Overburden being excavated by dragline

Spoil pile - dragline bucket unloads burden



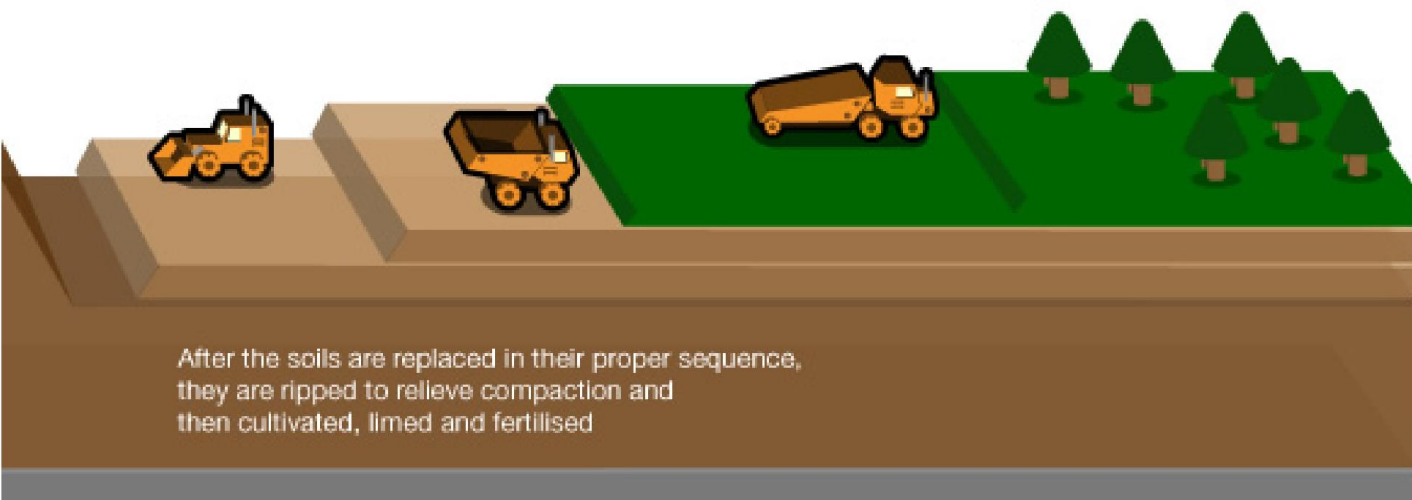
Dragline backfill levelled by bulldozers



Tipping overburden from benches to backfill



Subsoil and topsoil being replaced and shaped



# Effects of Mining

1. Disruption of the land's surface.
2. Waste materials left behind.
3. Land erosion.
4. Landslides.
5. Pollution.
6. Uses large amounts of energy.



# Before and After



# How to reduce destructive effects

1. Reclamation: A restoration of the land to its previous condition.
2. Re-using or recycling.
3. Reduction of the use of mined minerals.
4. Stiff fines or fees.

# Reclamation





