

FIGURE 5.4

TOTAL CONSTRUCTION TIME FRAME APPROXIMATELY: 24hr Drilling - 6-8 Weeks
Daytime Drilling - 8-10 Weeks

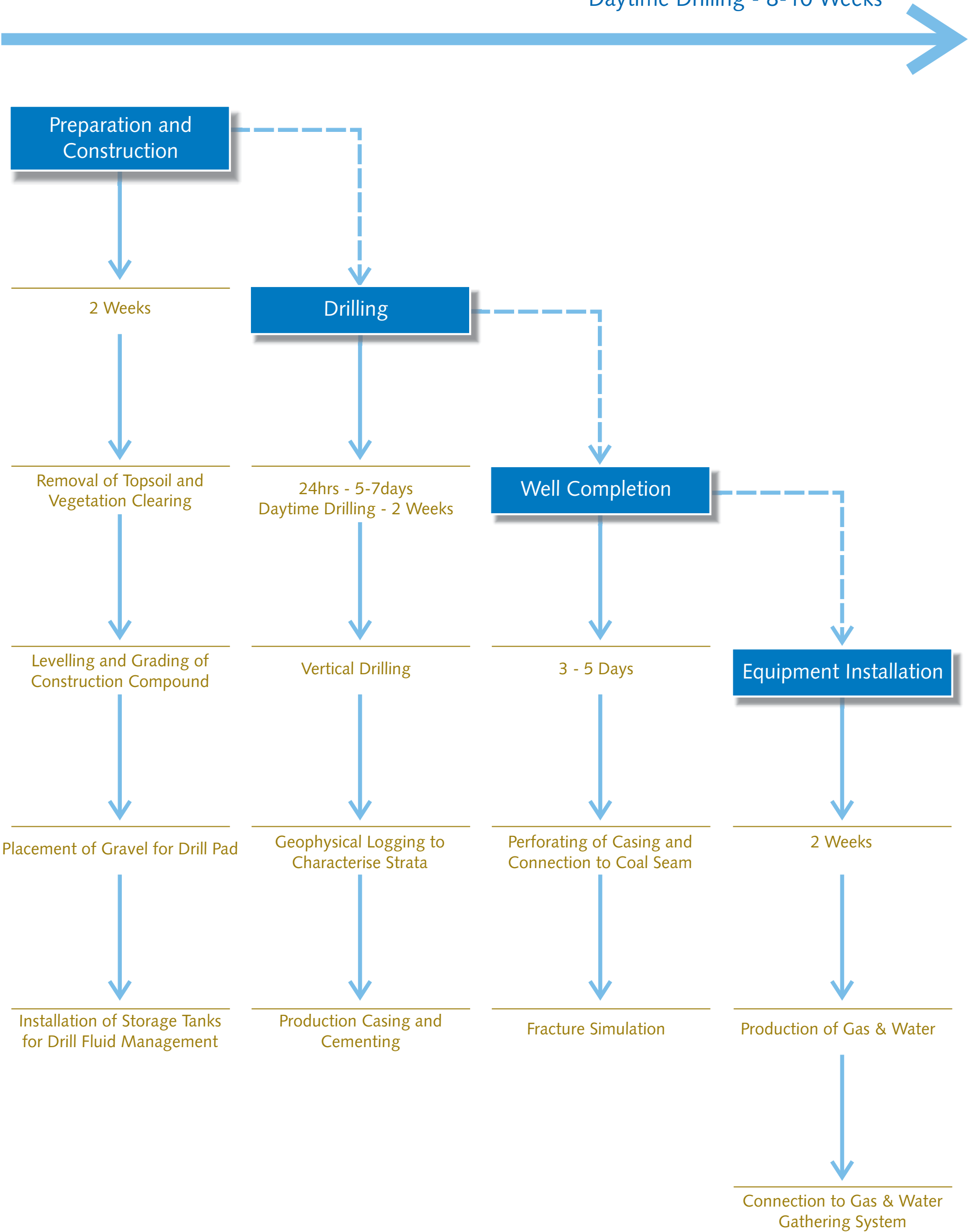
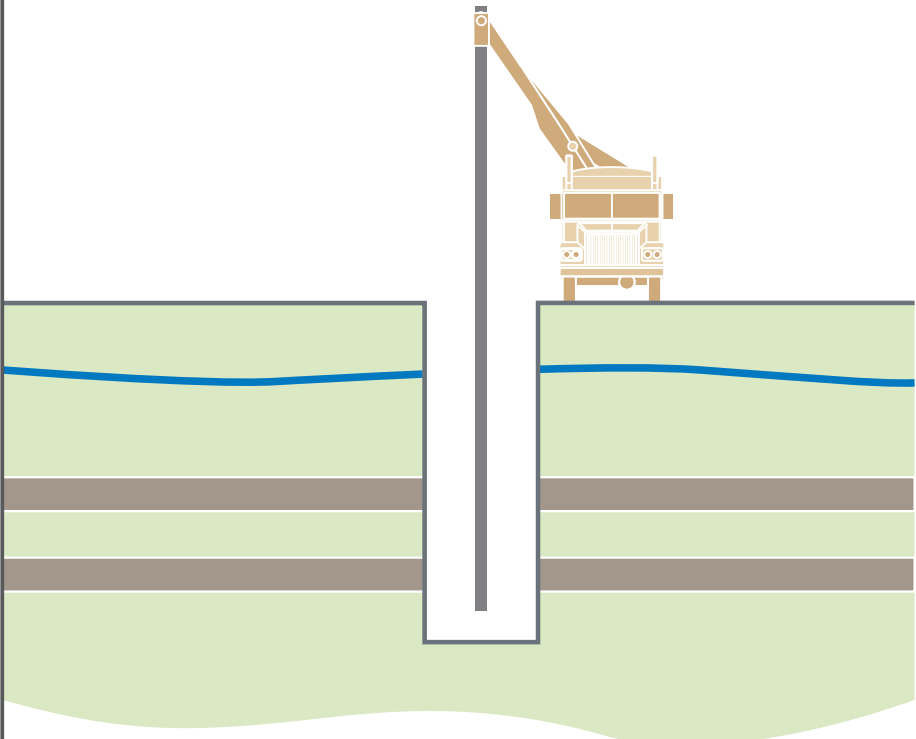


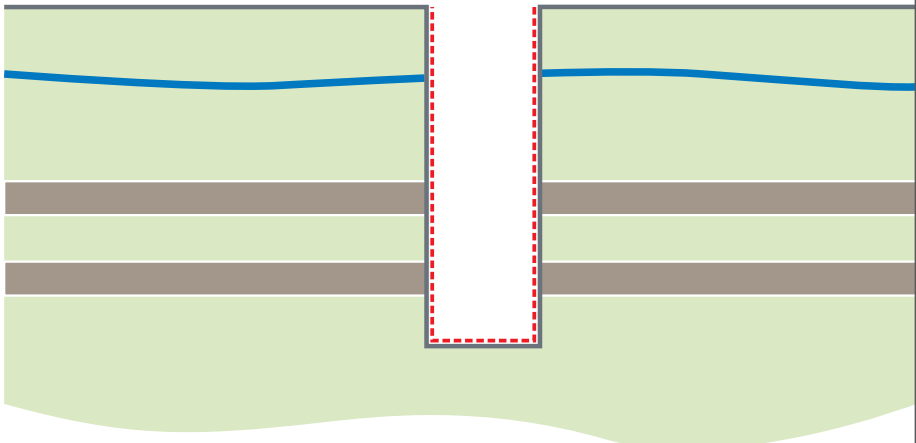
FIGURE 5.5

STEP 1 | VERTICAL DRILLING



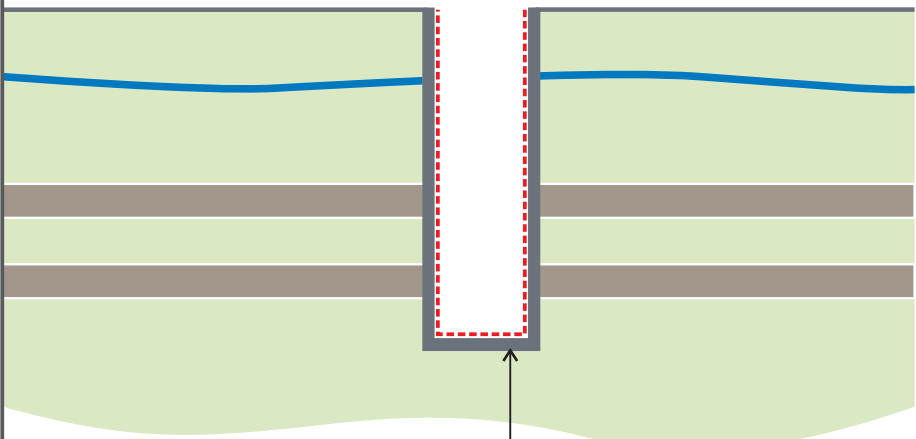
Wells would be drilled utilising technologies including vertical drilling, directional drilling and horizontal directional drilling.

STEP 2 | WELL CASING



Typical vertical well design would include installation of a conductor casing from the surface to base of alluvial sediments (approx 50m), drilling and installation of a surface casing within the first 10% of the well, and installation of a production casing within the outside two casings to the total depth of the well.

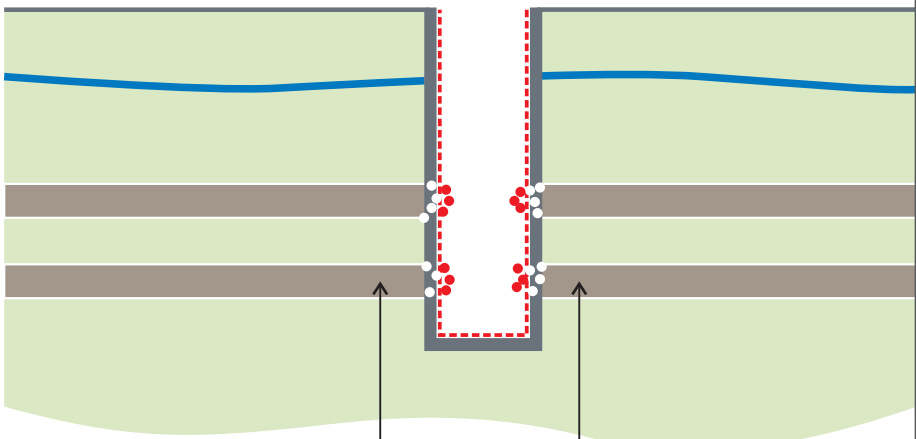
STEP 3 | CEMENTING



Cementing to seal borehole and isolate aquifers and coal seams

The production casing would be pressure cemented to seal the well. This process would isolate aquifers and other formations that may be encountered.

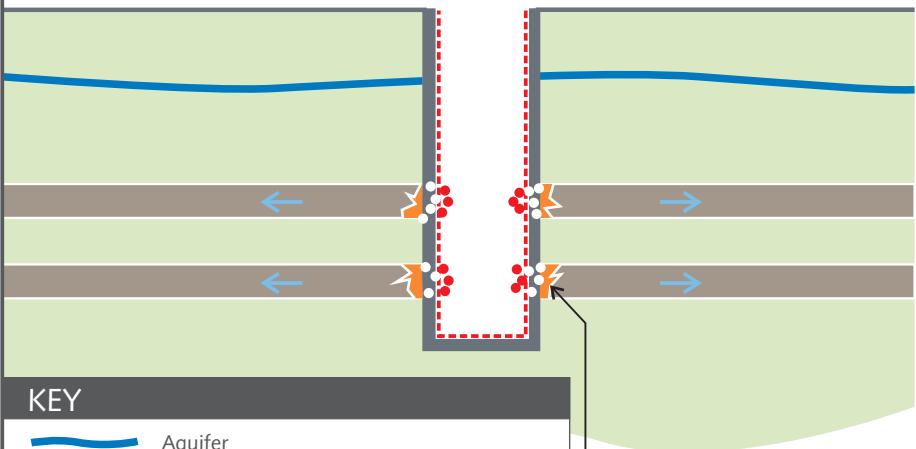
STEP 4 | WELL COMPLETION - PERFORATION



Production casing and cement is perforated to connect borehole to coal seam

Perforation of the production casing would be undertaken to allow communication between production casing and target coal seams.

STEP 5 | WELL COMPLETION - FRACTURE STIMULATION

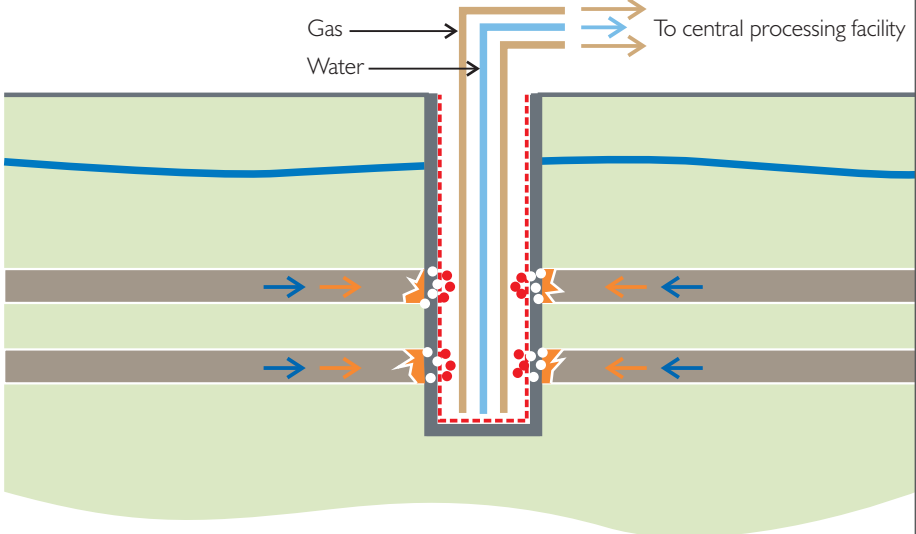


KEY

- Aquifer
- Coal seam
- Production casing string
- Gas flow
- Frac Water
- Produced Water

Fracture stimulation typically involving the injection of water base fluids and sand would be undertaken to widen paths in coal seam for gas flow.

STEP 6 | PRODUCTION



Fracture stimulation widens the paths in the coal seam to provide a conducive path for gas to flow. Produced water flows into the well and is pumped to the surface. The drop in aquifer pressure enables gas production to commence.

FIGURE 5.6

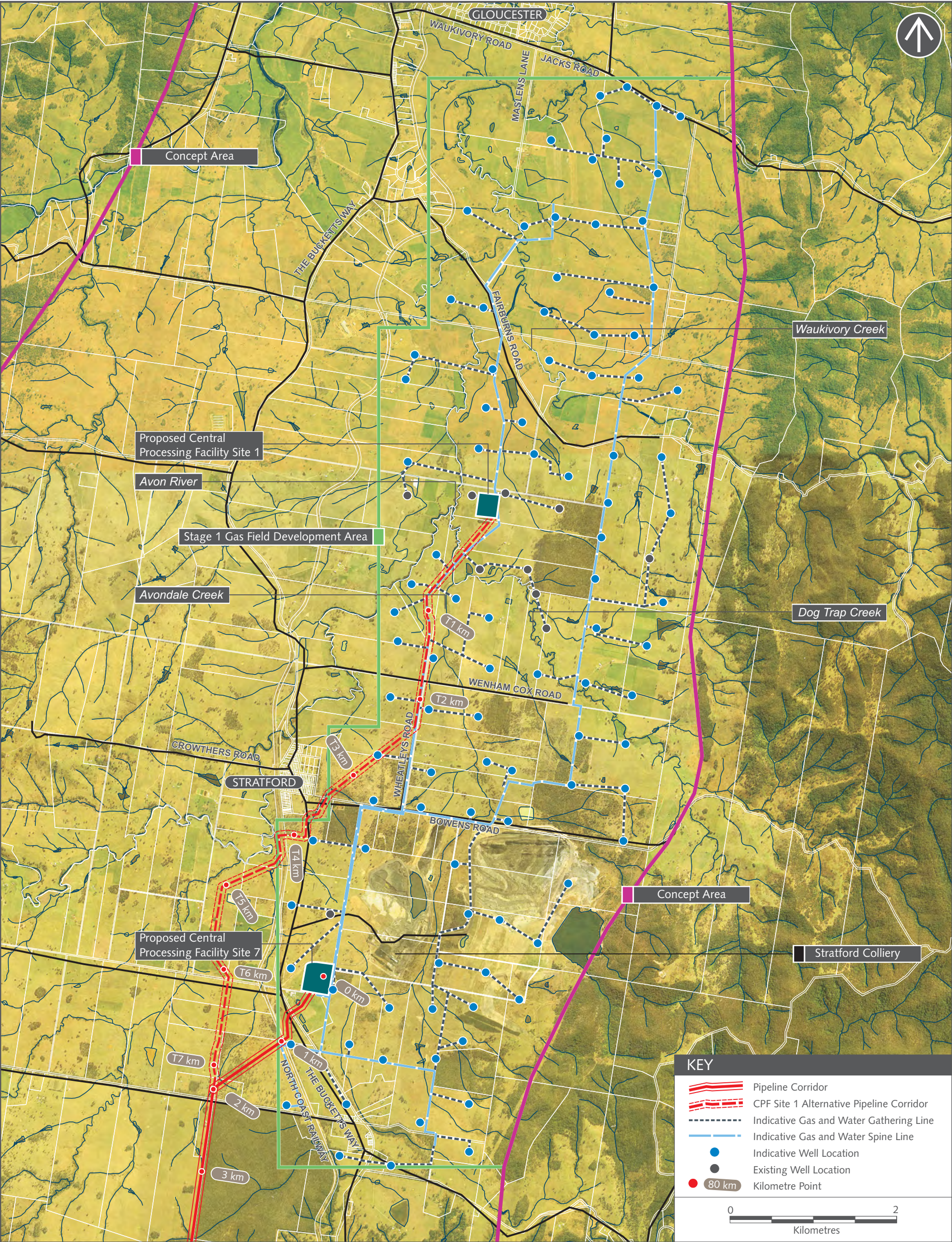


FIGURE 5.7

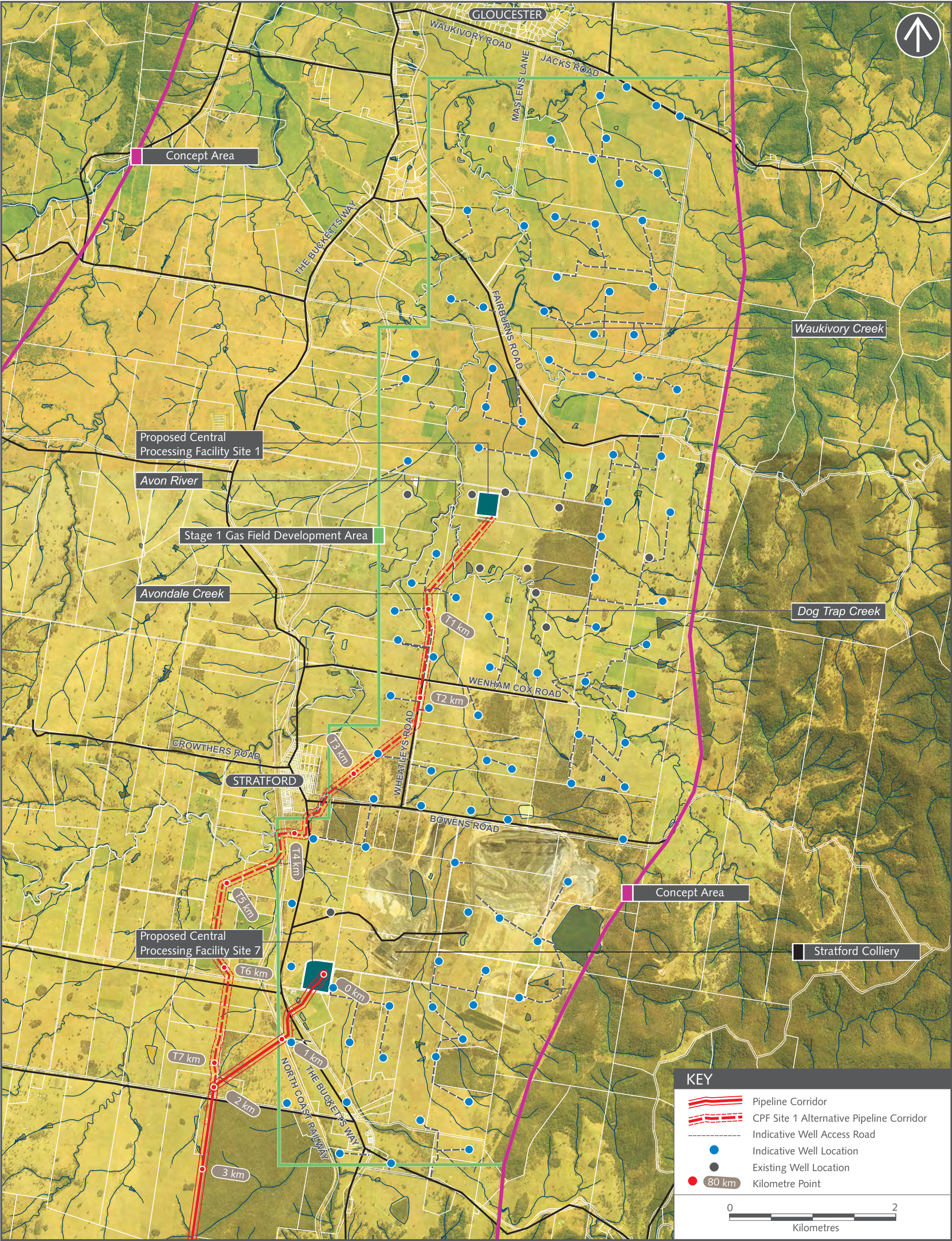


FIGURE 5.8



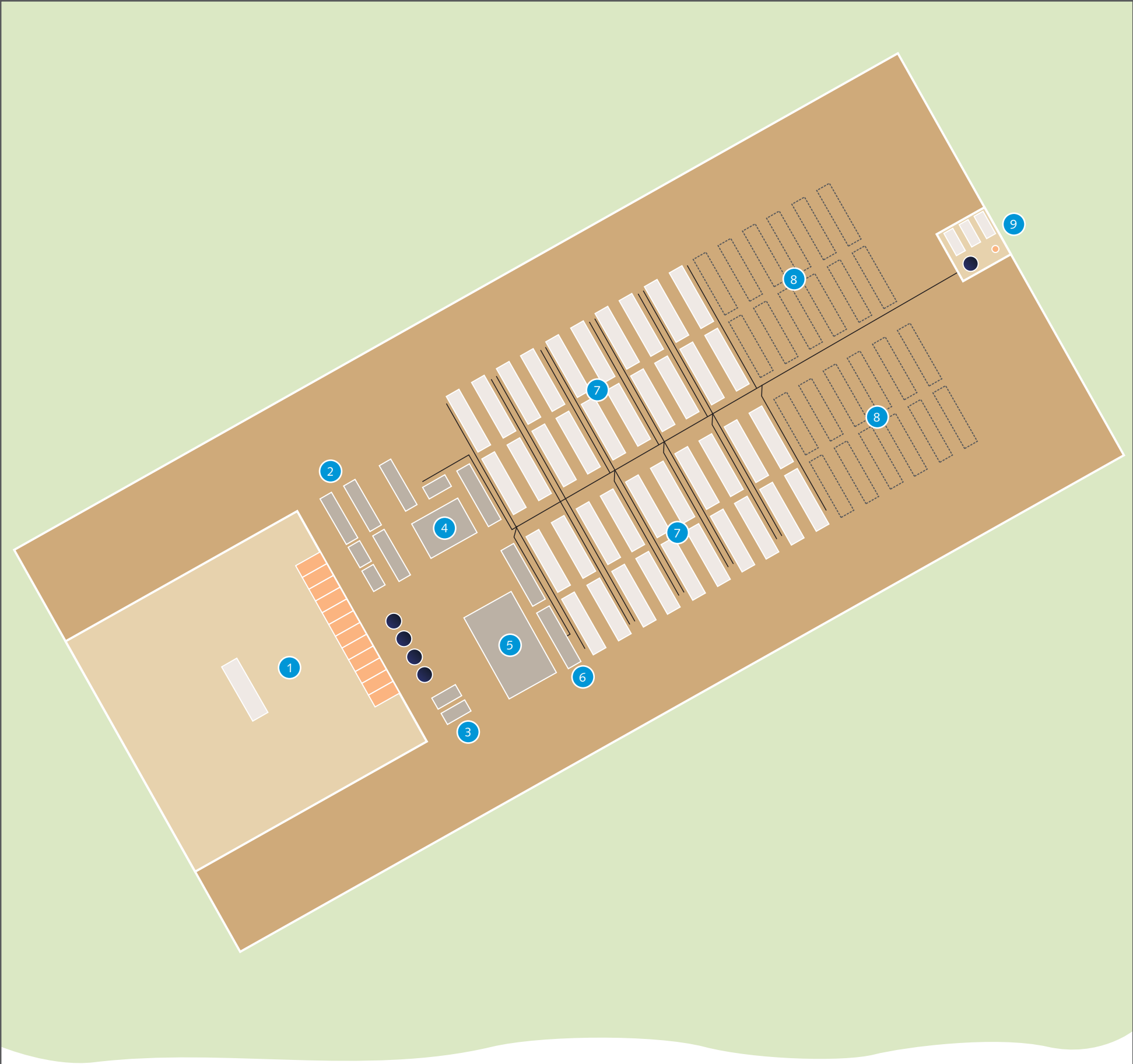
FIGURE 5.9



FIGURE 5.10



FIGURE 5.11



KEY	
1	Laydown Service Area
2	Offices
3	Water
4	Recreation
5	Kitchen/Dining
6	Laundry
7	Accommodation
8	Area for Accommodation Expansion
9	Sewage Treatment System
NOT TO SCALE	

FIGURE 5.12