



5. Recommendations

The following recommendations should be considered in order to protect Dodnun's drinking water source.

Table 6 Recommendations

Item	Action
1	Ensure that the Dodnun Layout Plan No. 1, that is currently under development, incorporates the priority areas and protection zones shown on Figure 4.
2	Seek from Water Corporation the 1991 drilling bore completion reports for Dodnun in their entirety to evaluate recommendations for bore discharge rates at the time of drilling and/or analyse the available 1991 test pumping data to determine operational discharge rates for the production bores and potentially aquifer parameters.
3	Erect a fence or extend the existing compound around production bore 2/91.
4	Seal the leaks at the borehead of bore 2/91 to eliminate the water as an attractant to fauna around the borehead.
5	Obtain a groundwater abstraction licence from the DoW for all production bores at Dodnun.
6	Consider an alternative power source for the pump in bore 2/91, which is currently powered by a diesel generator located next to the bore, and may be vulnerable to spills during refuelling.
7	Introduce testing of hydrocarbons for samples taken 6-monthly from the reticulated supply and production bores, in line with other chemical parameters.
8	Consider introduction of monitoring of fluorescence in water from the production bores to indicate if contaminants from the sewerage system are reaching the area of the production bores.
9	Install monitoring bores between the production bores and the settlement area. Samples taken from these could be tested for fluorescence, hydrocarbons and nutrients.
10	Survey the relative height of any new bores and take accurate static waterlevels from all bores to provide data to assist determination of groundwater flow direction.
11	Undertake regular waterlevel monitoring of production bores and data reviews to indicate aquifer response to rainfall recharge and pumping.
12	Use groundwater contours and parameters derived from test pumping to estimate groundwater through-flow and potential sustainable groundwater resources.
13	Install dip tubes on all production bores to allow for routine waterlevel monitoring.
14	Codify bore data into Water Data Transfer Format (WDTF) to align with Bureau of Meteorology requirements and submit to update state and federal databases. Capture and link BoM Bore ID with asset management systems.

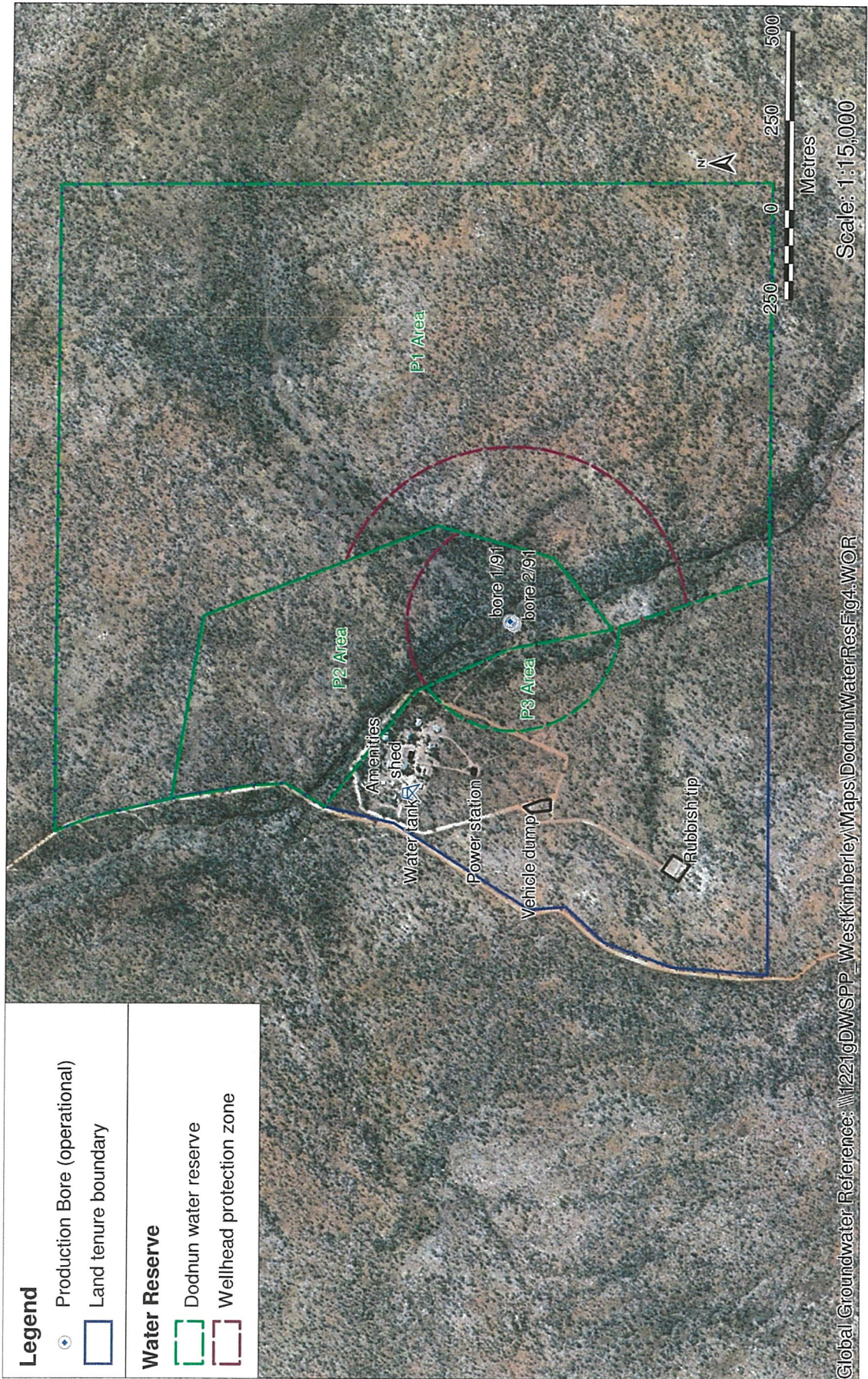


Figure 4. Dodnun water reserve