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- Unless mitigated, each m<sup>3</sup> AMD requires 7-11 m<sup>3</sup> dilution release from Vaal Dam to ensure downstream
  users are not compromised...expensive, unsustainable and water lost from VRS
- VRS Reconciliation Studies predict water security risks in VRS from 2016/17
- · Potential catastrophic environmental and socio-economic impacts
- · Even with LHWP-2 (planned commissioning in 2022), VRS may still face deficit
- > Challenge must be circumvented by de-salinating AMD thus:
  - · Ensuring water security in VRS
  - Promoting beneficial use of purified AMD (water re-use as articulated in NWRS-2)
  - · Enabling proposed additional mega-transfer augmentation scheme to be deferred
- √ Cost comparison: AMD de-salination ~R10 billion vs ~R40 billion mega-transfer augmentation scheme



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