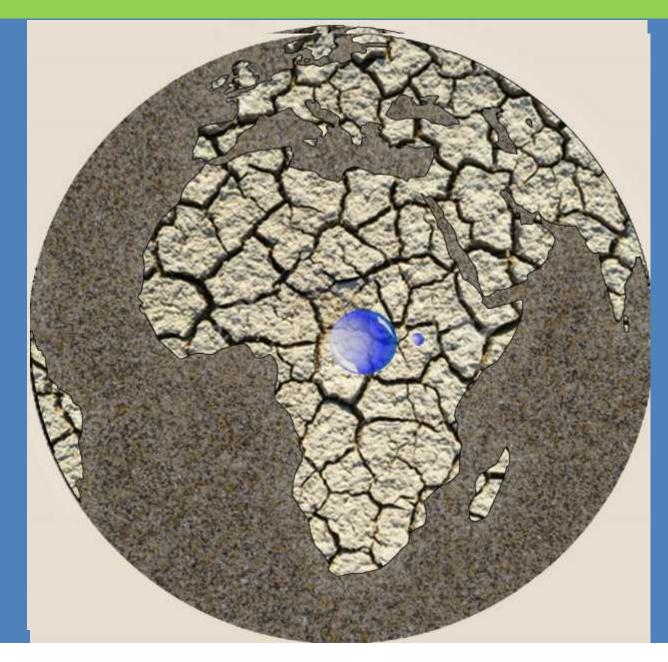
GROUNDWATER DESALINATION Austin, Texas - Sept 2015



PROCESS

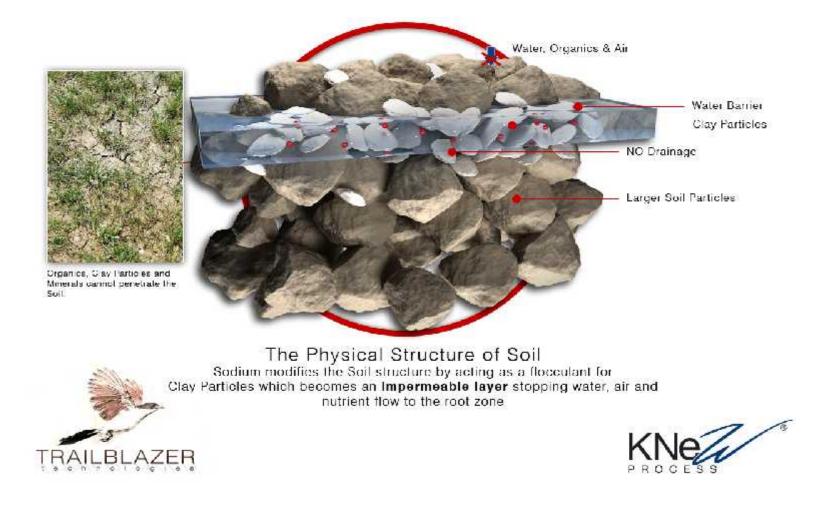
EARTH'S WATER RESOURCES



SOIL and WATER RESOURCES



The effect of sodium on clay particles in the soil





A Simple Solution



Solves SODIUM, SULPHATE & CHLORIDE issues Removes RADIO-ACTIVITY usefully. Low Energy Requirement Low Heavy Metal / Waste Dumping

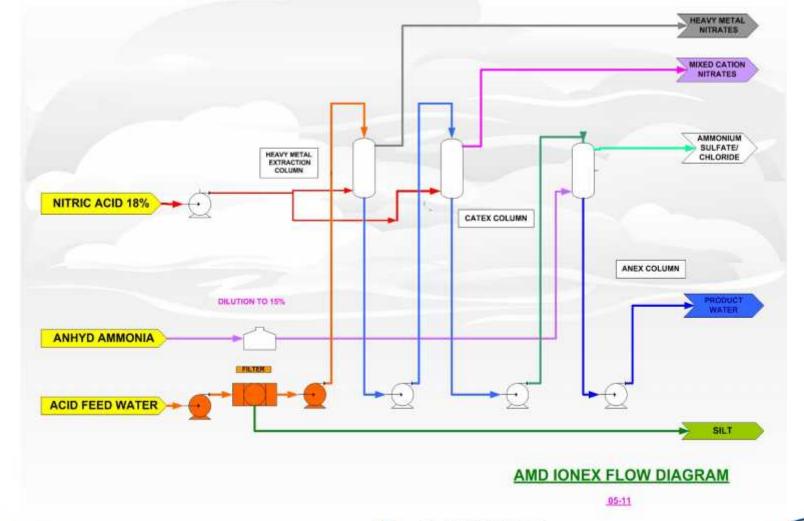
Produces Valuable & Commercially Pure Products POTASSIUM NITRATE, AMMONIUM SULPHATE, DOLOMITE, SODIUM CHLORIDE.











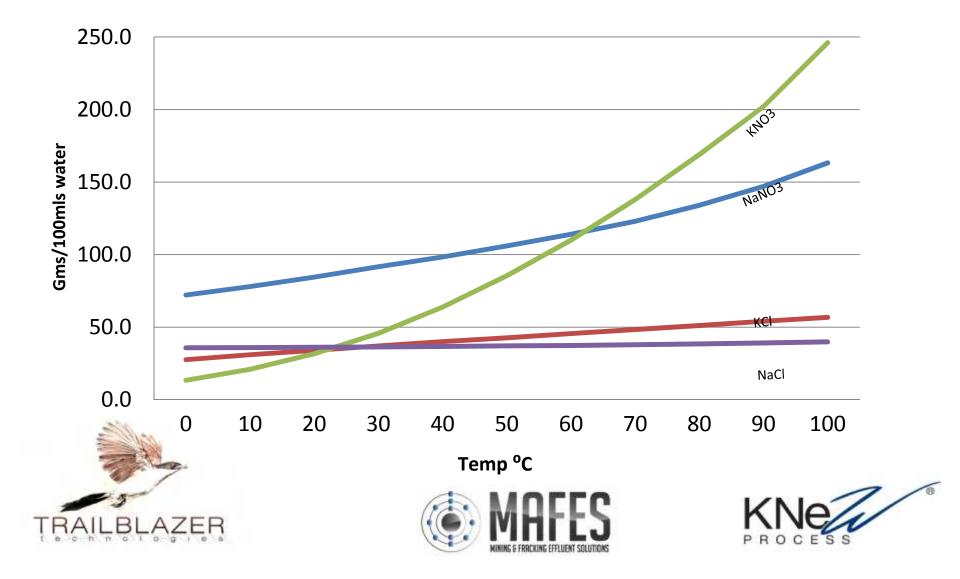




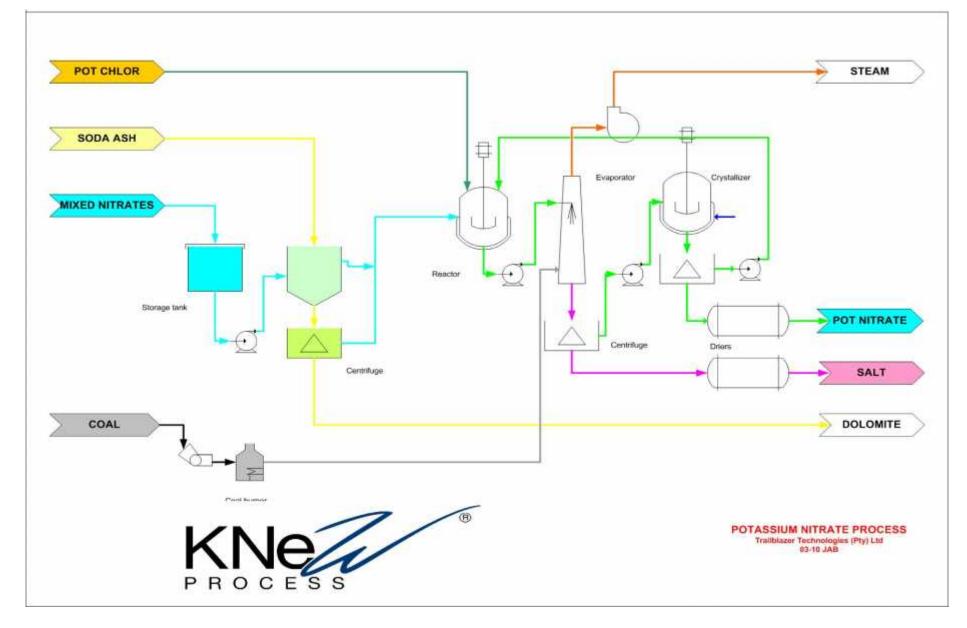




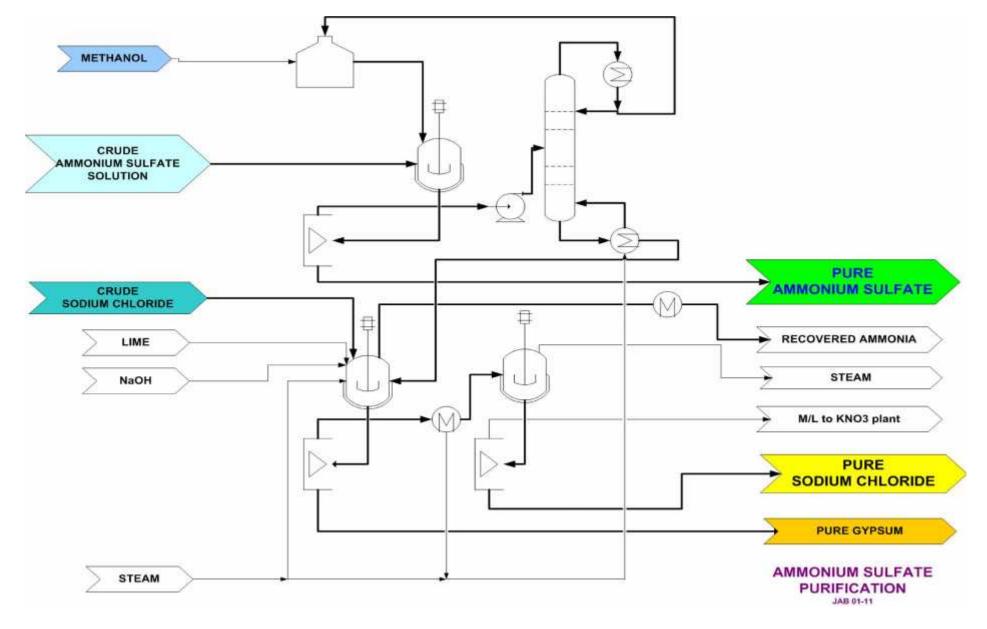
Solubilities













The KNeW process can assist RO

- The KNeW process can co-process with RO if installed upfront reducing the RO feed concentration by 90% with the RO brine sent back to the KNeW feed
- = NO WASTE BRINE
- This will substantially reduce the power usage and RO cost
- It will improve the flow through existing RO units due to the removal of calcium fouling and the 90% reduction in feed TDS
- The removal of calcium fouling of RO membranes will give longer life and much lower maintenance costs

Advantages of the KNeW process

- No brine production
- No waste gypsum sludge production
- Zero cost of irrigation water produced
- USA's only local manufacture of Pot Nit – saving foreign exchange
- All raw materials locally sourced
- Quality jobs will be created



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PROCESS