

# APACHE EGYPT WASTE STREAM MANAGEMENT

Waste stream	Onshore
<b>Drilling fluids, cuttings and chemicals</b>	
Drilling / Completion fluids - water based	To rigsite waste pit
Drilled cuttings - water based	To rigsite cutting slot and waste pit
Drilling fluids - oil based	Back to mud plant for recycle
Drilled cuttings - oil based	Burn at OBM Cutting's Disposal Contractor cuttings burner
Produced condensate and gas	To flare pit for burning
Produced water	Treatment and reinjection or to flare pit where heat of flare will evaporate
Damaged chemicals - waterbased & oilbased	Back to mud company for repacking
Damaged chemicals beyond salvage - waterbased	To rigsite waste pit
Damaged chemicals beyond salvage - oilbased	Merge with cuttings for OBM Cutting's Disposal Contractor burning
Excess cement from mixer	To rigsite waste pit
Excess cement mix water	To rigsite waste pit
Dry cement excess / damaged	To rigsite waste pit
Empty cement plastic bigbags	Burning in same waste stream as the organic waste; can be gathered in same waste containers at rig site and camp sites.
Empty chemicals plastic bags	Burning in same waste stream as the organic waste; can be gathered in same waste containers at rig site and camp sites.
Empty chemicals big-bags	Burning in same waste stream as the organic waste; can be gathered in same waste containers at rig site and camp sites.
Empty chemicals or cement paper bags	Burning in same waste stream as the organic waste; can be gathered in same waste containers at rig site and camp sites.
Waste oil from engines	Gather in empty oil drums and backload
<b>Pallets, wood and scrap metal</b>	
Pallets (wood)	Stack up on site until reasonable stock; some will be used by bedu guards as firewood; rest to be transported to drilling yard for resale in future
Empty oil drums	Back to <b>supply or vendor of chemicals</b> as they come and take away their excess chemicals at the end of the well.
Scrap metal, shaker screens, pump pistons, liners, welding rods, welder's scrap etc., old lifting slings (cut before discard),	Gather in container and backload to Drilling Contractor yard for future resale of scrap metal.
<b>Sewage waste</b>	
Sewage at rigsite	To septic soak-away pits at the back of the office area
Sewage at campsite	To septic soak-away pits at the back of the camp area
<b>Domestic waste to be segregated</b>	
Plastic bottles	Burn on site
Glass, including light bulbs, fluorescent tubes and halogen lamps	Bury on site; depth of dump pit <b>6 foot</b> under surface area, close pit with forklift loader when rig leaves
Medical waste	Burn on site; Do NOT bury onsite
Kitchen organic wastes and food remains	Burn on site, depth of burn pit <b>6 foot</b> under surface area, close pit with forklift loader when rig leaves
Paper ( both rigsite and campsite)	Burn on site, depth of burn pit 6 foot under surface area, close pit with forklift loader when rig leaves
Hazardous waste - disposable engine oil filters - car batteries, small batteries and dry cells - asbestos material e.g. brake linings from cars, brake pads from drawworks.	Gather in hazardous waste container; then to hazardous waste burial pit.
Car batteries	Take with the contractor to his own base for disposal.
Rubber hoses, high pressure kelly hoses etc., car tires	Transport back to Drilling Contractor yard