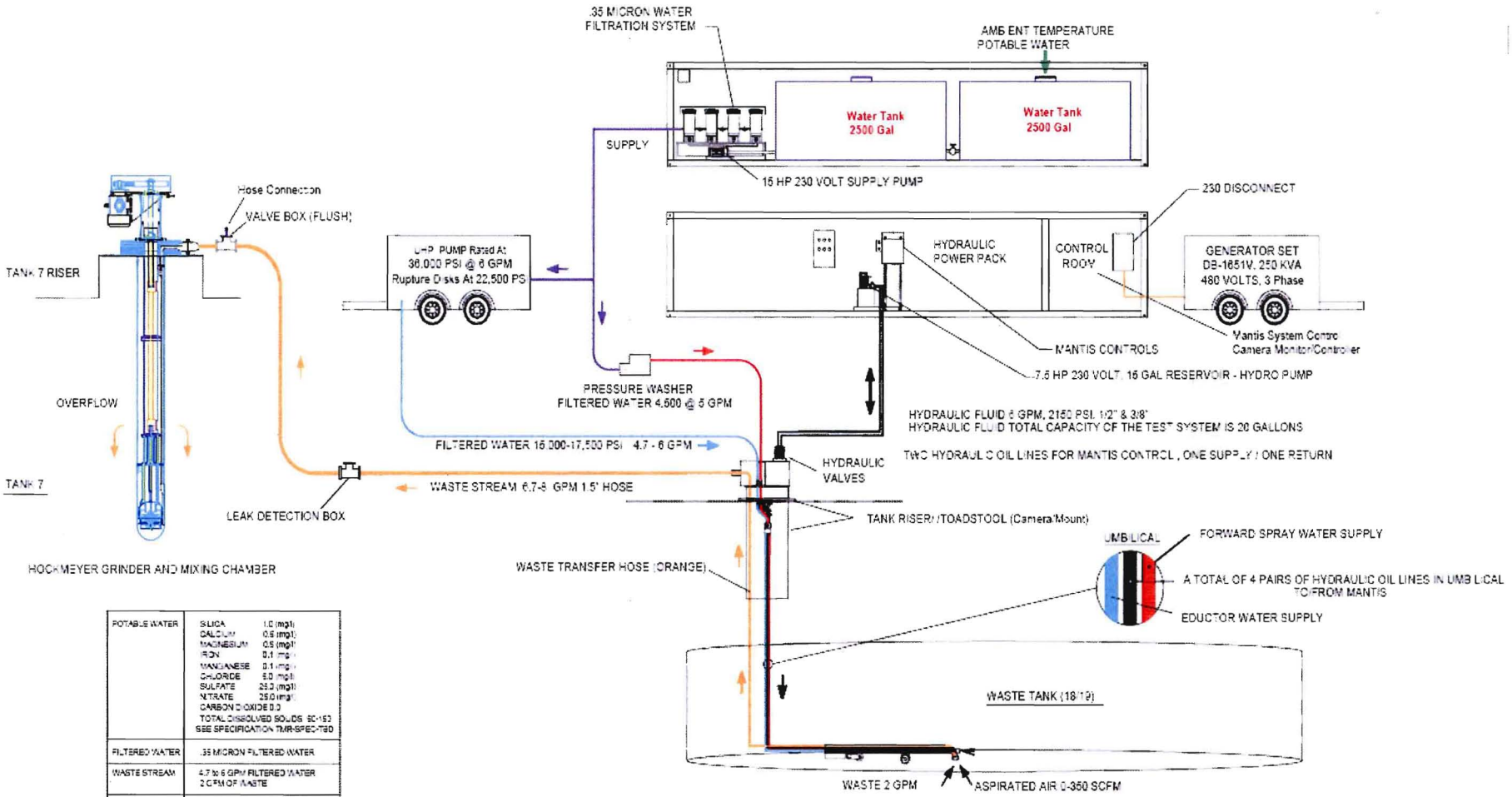
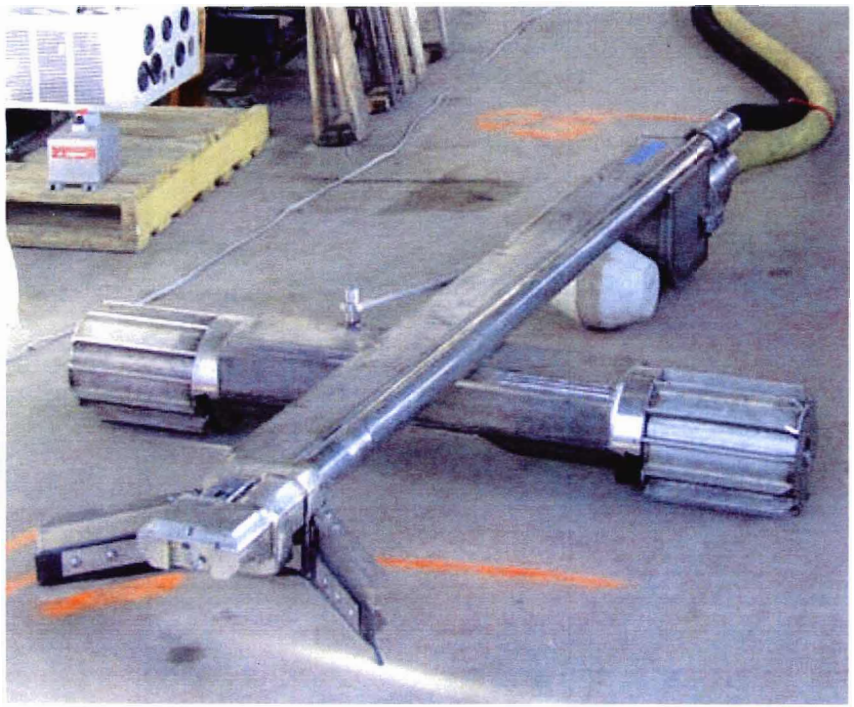
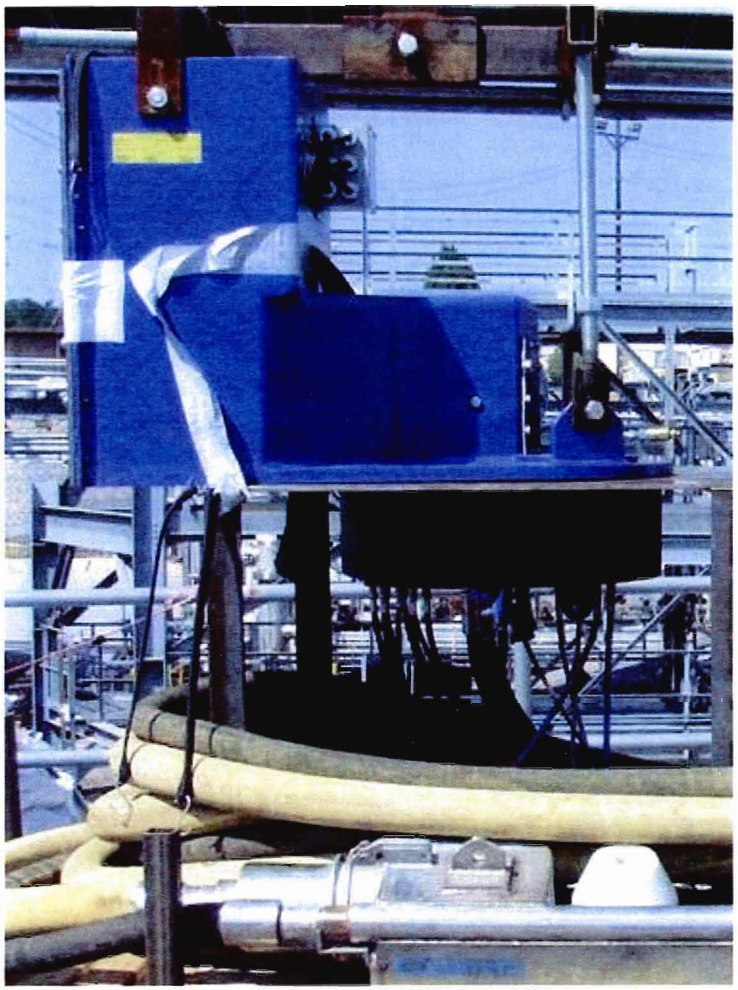
Tank 18/19 Sand Mantis System



POTABLE WATER	SILICA 1.0 (mg/l) CALCIUM 0.5 (mg/l) MAGNESIUM 0.5 (mg/l) IRON 0.1 (mg/l) MANGANESE 0.1 (mg/l) CHLORIDE 5.0 (mg/l) SULFATE 25.0 (mg/l) NITRATE 25.0 (mg/l) CARBON DIOXIDE 0.0 TOTAL DISSOLVED SOLIDS 50-150 SEE SPECIFICATION TMR-SPEC-T80
FILTERED WATER	.35 MICRON FILTERED WATER
WASTE STREAM	4.7 to 6 GPM FILTERED WATER 2 GPM OF WASTE
ASPIRATED AIR	0-350 CFM ENTRAINED AIR
DISPLACED AIR	0-350 CFM ENTRAINED AIR
HYDRAULIC FLUID	6 GPM SHELL TELLUS 46

TMR Sand Mantis® - Ready for Deployment





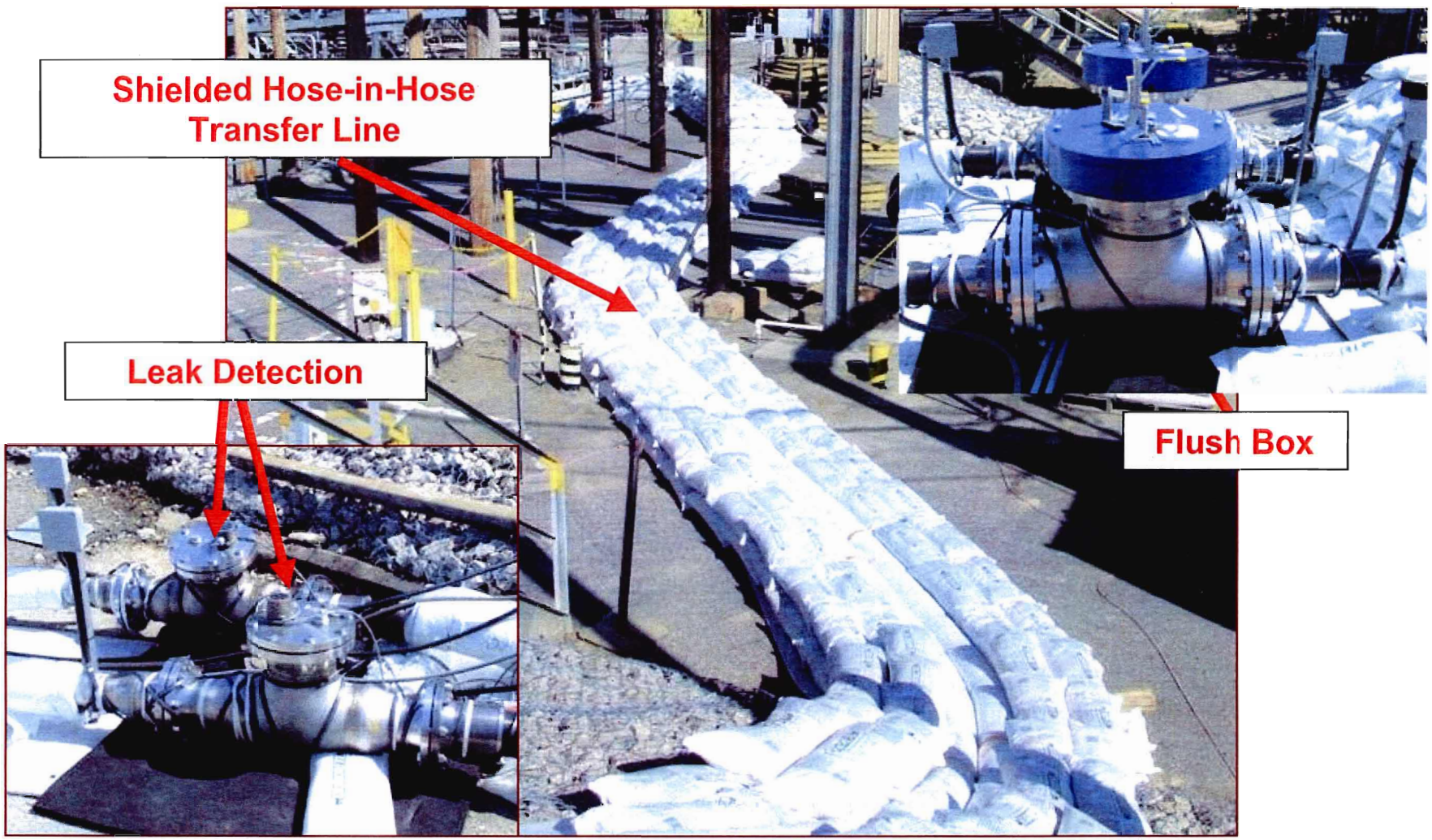
RISER & Hose

TMR Sand Mantis® - Ready for Deployment

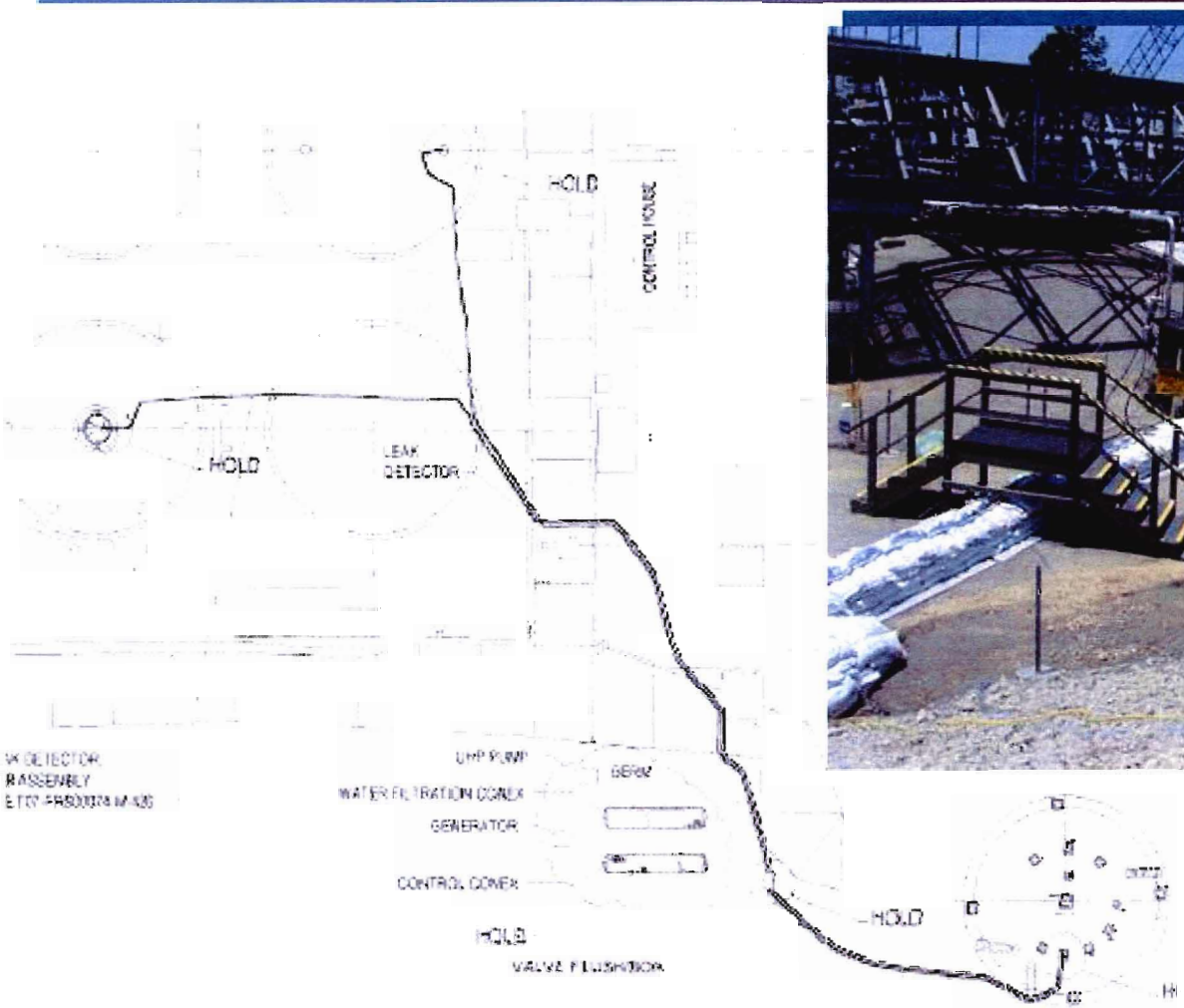
Sand Mantis Control Room & Support Equipment

Grinder Installed at Tank 7

Above-Grade Transfer Line

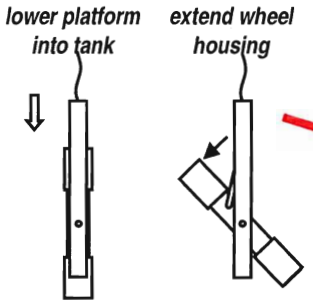


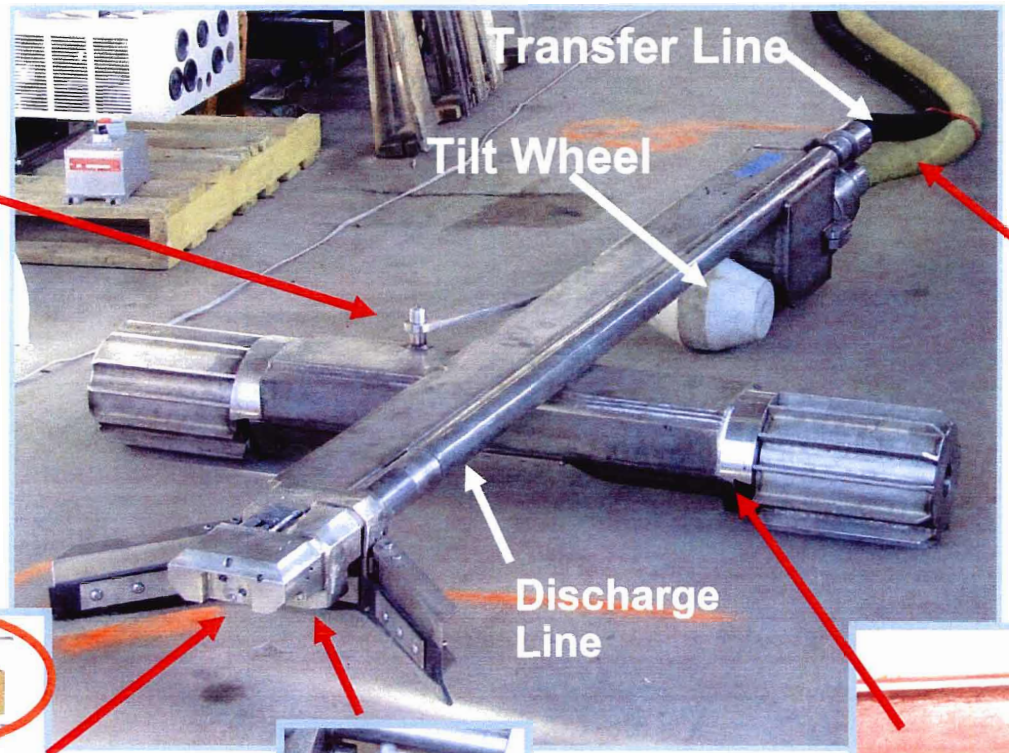
Above-Grade Transfer Line



Sand Mantis®

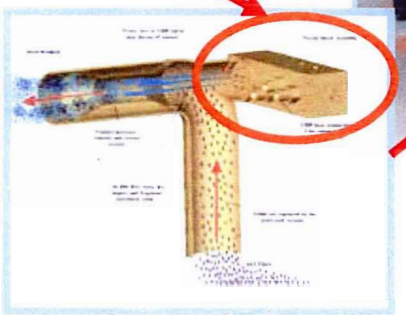
Tank Insertion





Umbilical Line
(Contains Hydraulic, HP and UHP Hoses)

Eductor



Suction

Cable Cutter

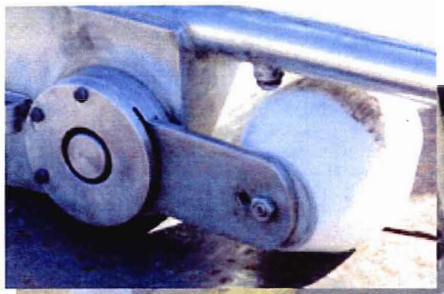
EM Environmental Management
safety ◆ performance ◆ cleanup ◆ closure

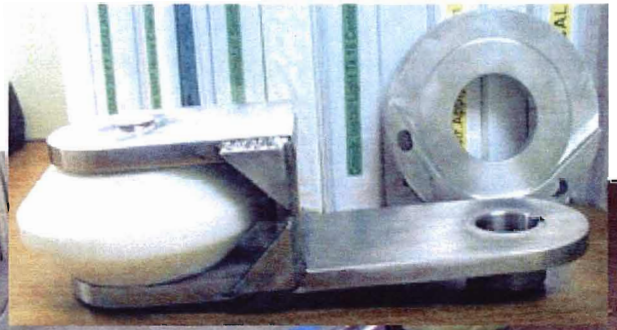
SRS

Tanks 18/19 Sand Mantis

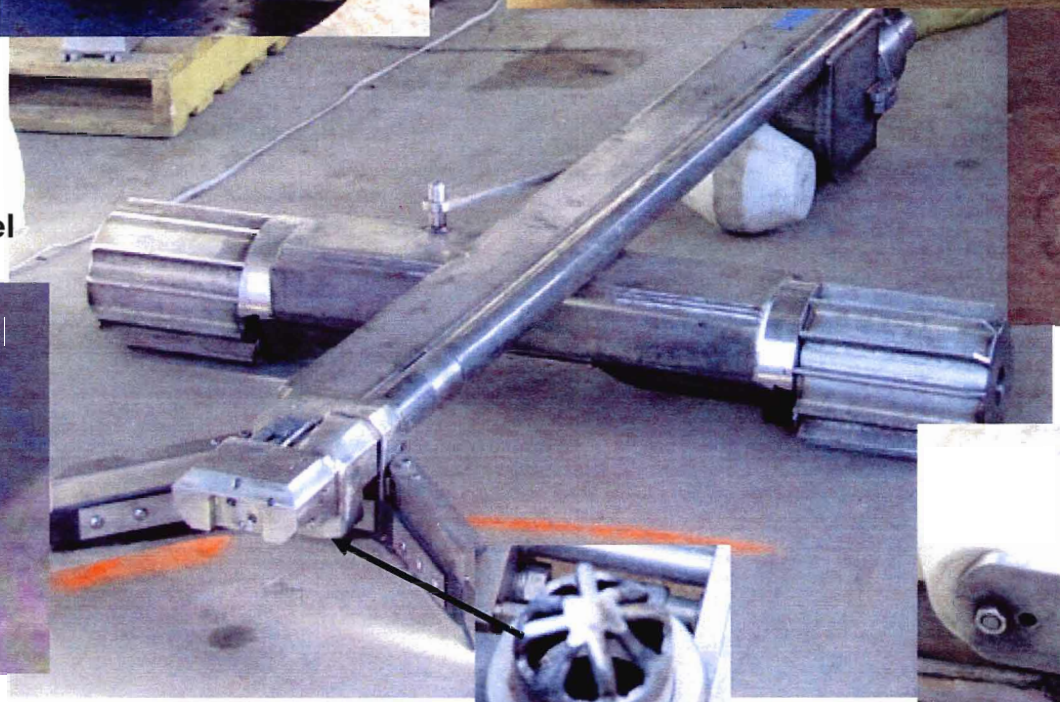
Slipper Repair
(TK 18)

Replacement Tilt
Wheel (TK 18)





Replacement Tilt
Wheel (TK 19)

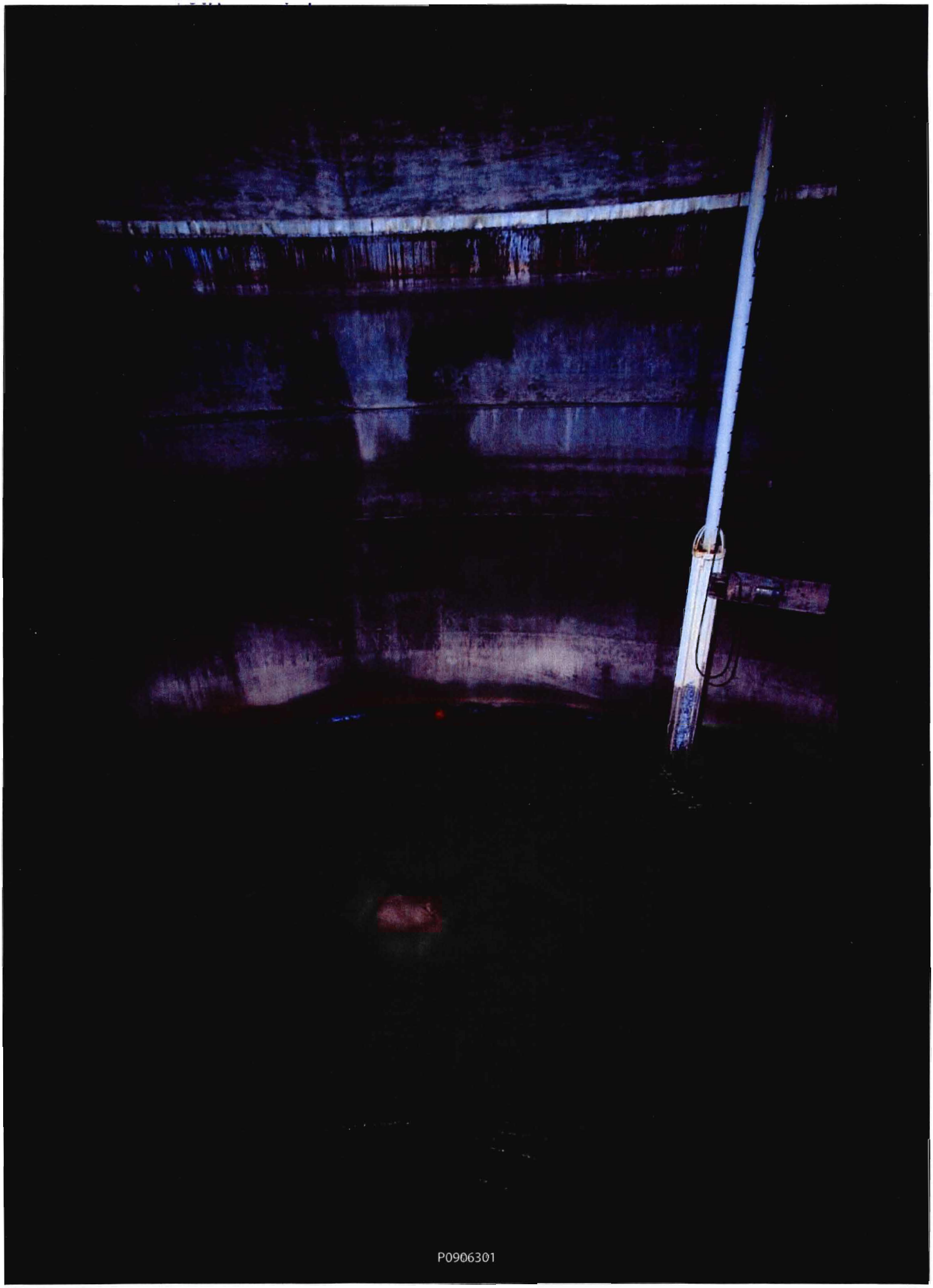


Replacement Tilt Wheel
(Failed TK 18)

Original Tilt Wheel
(Failed TK 19)

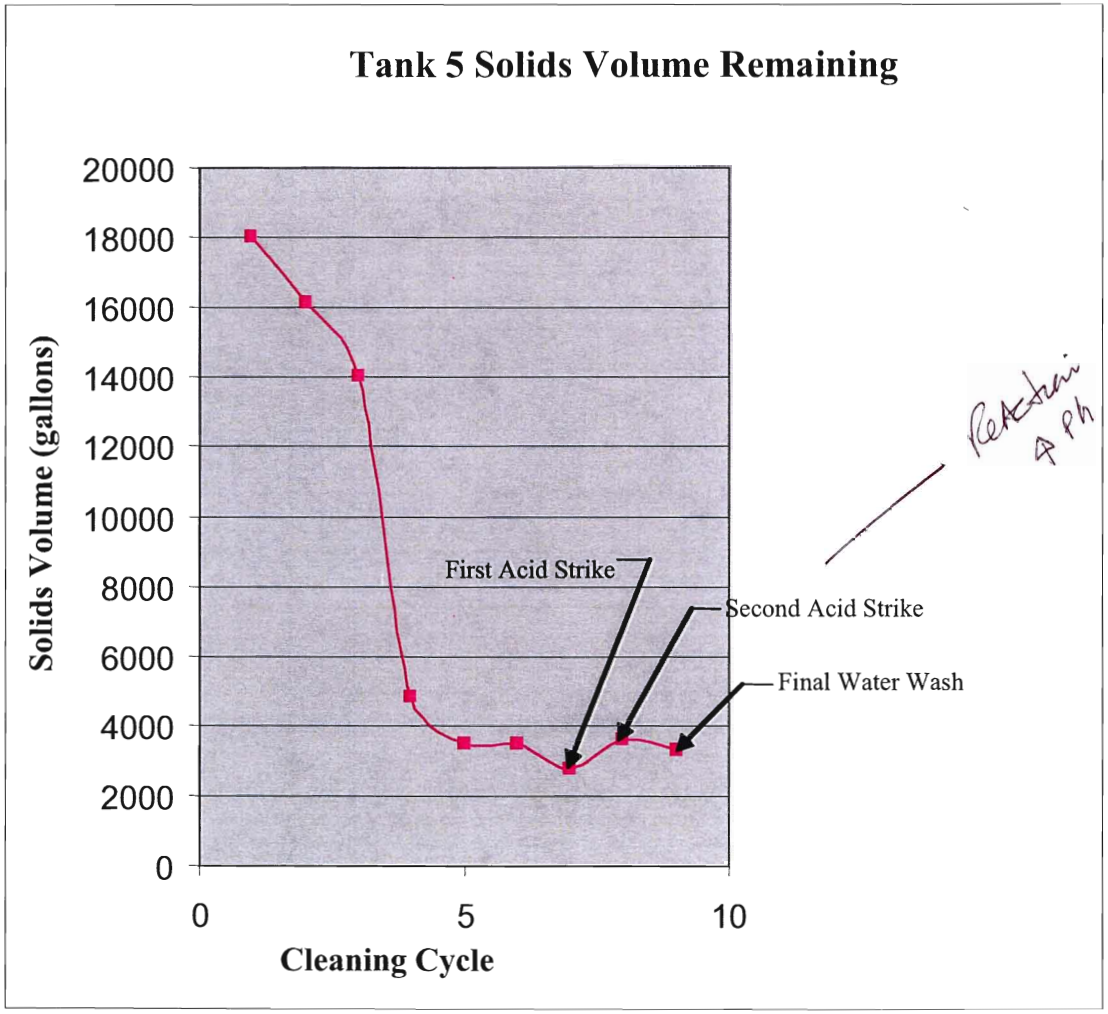
Suction

Tank 18
4/28/09
P09062:01



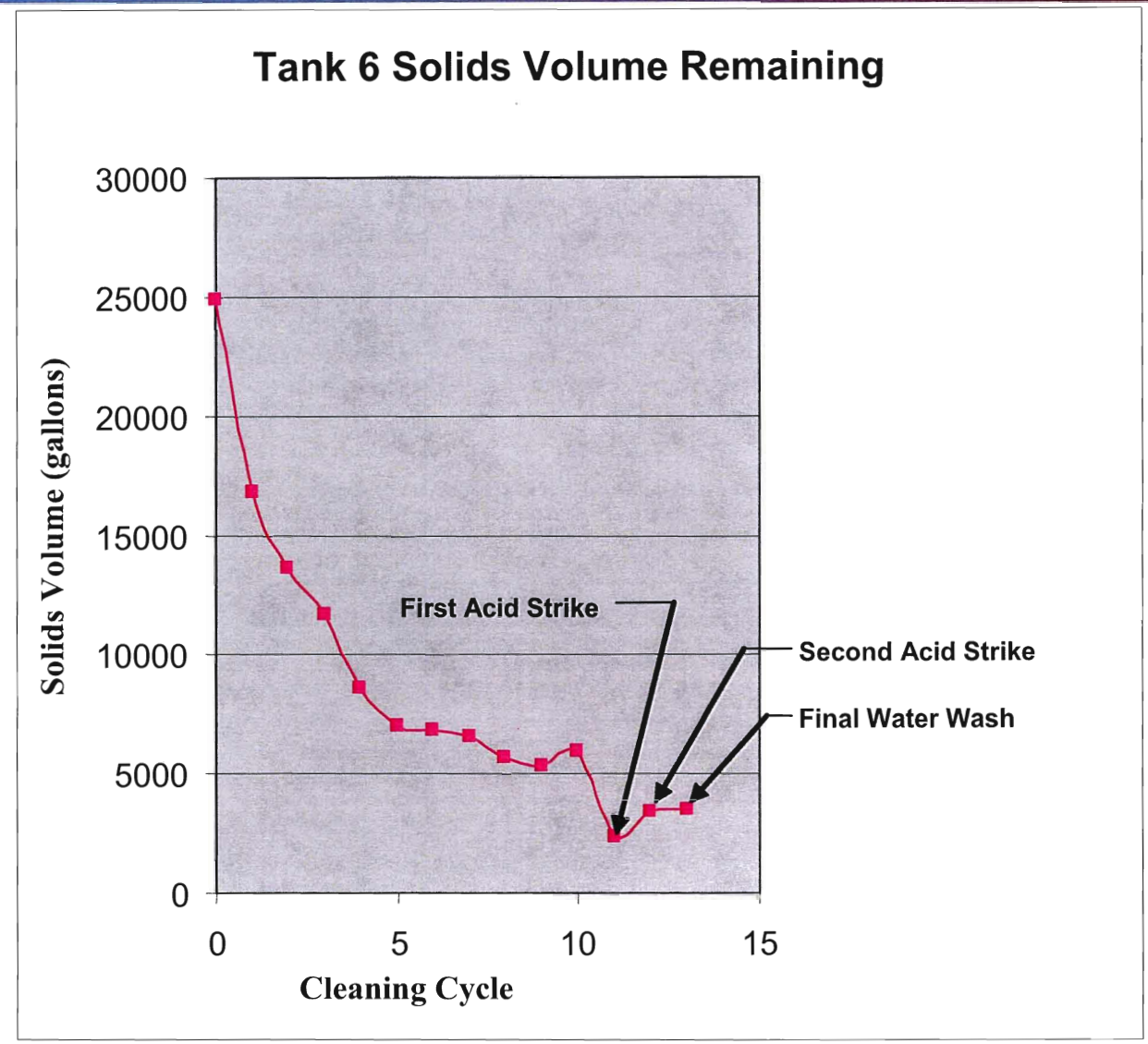
P0906301

Tank 5 Waste Removal Summary



Reaction
4 Ph - Oxylate

Tank 6 Waste Removal Summary



Tank 6 Annulus Crawler

EM Environmental Management
safety ❖ performance ❖ cleanup ❖ closure