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GENERAL DESCRIPTION:

2000 Model 18X18 Dredge is a Cutterhead, hydraulic suction, dredge with a transportable pontoon (Sectional) hull fitted with a 20" diameter suction line that is supported by a tubular Ladder and raised/lowered by an A-Frame of mechanical tubing construction. A two-level superstructure is fitted - the lower level encloses the Machinery Space and the upper level encloses the Lever House. Diesel engines power the operation. Two spuds 24" diameter 60' length are fitted to the two spud wells aft.

Particulars (prior to required upgrades to be completed):

Type	18X18
Serial Number	1101343
Gross Tons/Net Tons	88
Length Overall	64' (measured at stbd side)
Breadth Depth	25' (measured at stern)
Depth	5' sponsons; 5.5' main pontoon, 6' aft pontoon

Vessel hull is comprised of four pontoons - two forward sponsons, each sized approx. 7' wide x 20' long x 5' deep, parallel the Ladder to port and stbd for buoyancy and stability, the Main Hull Pontoon, sized approx. 25' wide x 32' long x 5.5' deep, that supports the machinery, and the Aft Pontoon, sized approx. 25' wide x 12' long x 6' deep, that is utilized for storage of supplies and equipment. Single-skin tanks are fitted to the sides and forward end of the Main Hull Pontoon for fuel oil storage.

Suction piping is arranged longitudinally from the forward Cutterhead through the midship centrifugal pump casing and discharged aft thru the piping arranged along the port side of the main deck. The Cutterhead is powered by an electro-hydraulic pump at the Ladder tip. The A-Frame hoist and slew operations are powered by electro-hydraulic winches. Hydraulic system for dredging operation/control is provided by a dedicated diesel engine. Cutterhead suction pump is powered by a dedicated diesel engine. A Diesel genset provides the electrical power.

The lower level of the Main Deck Superstructure, sized approx. 30' long x 15' wide x 7.5' high, encloses the Machinery Space. The upper level of the

Superstructure, sized approx. 6' long x 10' wide x 7.5' high encloses the Lever House.

Additional pontoons to be installed to bow approximately 30' long X 7' wide X 5' deep. Quantity of two.

MACHINERY Equipment list includes:

- Cutterhead -left hand, soft sand cutter, 6-blade, smooth cut.
- Cutterhead motor - GTN mod M123A88123535-000
- Ladder to be 59' long of tubular construction (18 meters depth)
- A-Frame - approx. 30' long x 5' at top and 15' at base of 10" x 10" mechanical tube construction.
- Winches - 3 GEARMA TIC hydraulic winches model 11-SC-X8R for ladder lift, port swing and stbd swing all reeved with 3/4" wire rope.
- Suction water flow meter.
- Suction Pump – Denver Thomas approx. 64" diameter impeller. Thrust Bearing – Denver Thomas. 20" suction 18" discharge.
- Reduction Gear - CAPITOL GEARS Inc. model RP9400, 3.074:1 ratio.
- Dredge Engine - Detroit Diesel diesel engine model 16v92 TI, turbocharged - intercooled, heat exchanger cooled, battery start, twin dry vertical exhausts.
- Hydraulic Engine - Detroit Diesel diesel engine model 8v92 TI, turbocharged - intercooled, heat exchanger cooled, battery start, dry vertical exhaust.
- Genset - INDUSTRIE RT SRL 4-cylinder diesel engine, mechanically aspirated, radiator cooled, battery start, dry vertical exhaust, driving a reported 45 kW generator.