

Standard Operating Procedure

4 Inch Shoreline Flushing Kit



Equipment description

The shoreline flushing kit is a self-contained, versatile low-pressure flushing system for oiled rocky shorelines, comprising of a pump and a set of hoses with adjustable flow, and all the associated hoses and connectors. The system will operate in most environments and will assist in the recovery of oils entrapped in and along the shoreline; this system allows for the re-mobilising of oil to sea and should be used in conjunction with protection/collection booms

The system can be used in ports and harbours, shoreline operations and coastal areas.

Technical Specification

Weight:	60kg
Flow Rate:	1800 Lpm
Fuel type:	Petrol
Engine:	Honda 4 stroke
Pump:	Centrifugal

Health and Safety



All PPE to be appropriate for area of operation.

To safely operate this equipment 2- 4 people are required.

Note: The above listed Personal Protective Equipment (PPE) is to be used as a guide. A life jacket may or may not be required, dependent on the deployment platform.

Safe Operating Requirements

- Ensure adequate PPE is worn – as detailed below,
- All personnel are to be trained in the use of the Shoreline Flushing Kit and accessories, or under the close supervision of a trained operator
- If required a Job Safety Analysis (JSA) to be conducted prior to work commencing. Identification of the following safety factors are critical, but not limited to:
 - o Manual Handling,
 - o Slips/Trips/Falls,
 - o Pinch Points and Personnel
 - o Contamination/Decontamination.
- Ensure adequate Personal Protective Equipment (PPE) is worn –
 - o * Life jackets must be worn on or near water dependant on operation
- A communication plan must be decided upon to ensure clear and concise communication at all times
- A full safety brief must be conducted.
- Ensure adequate ventilation of the working area
- All incidents, accidents and near misses must be reported as per company policy.

Caution

Be aware of tidal changes that may wash over pump

Operational instructions

Emergency shutdown

Locate Emergency Stop, Engine Stop before starting the Power Pack.

In the event that an emergency shutdown is required, the following measures should be taken:

- Shut down the pump motor immediately where safe to do so by turning off the key.
- Shut off adjustable hose nozzles.
- Turn off the fuel tap.

Pre start checks

- Ensure that fuel and oil levels are checked and within manufacturers recommendations on the pump.
- Check hoses for damage or wear.
- Visually inspect the pump and accessories for damage or wear.
- Lay out hoses and connect the pump to the hoses
- Connect the solid 4" suction hose, strainer and non-return valve (NRV) to the suction of the pump.
- Connect the 4" lay flat discharge hose to the discharge of the pump and nozzles, ensuring nozzles are closed prior to starting pump.
- Ensure that the engine stop control is in the run position and start the engine briefly.
- Check the operation of the pump.
- Stop the engine.

Operation

- Place end of suction hose complete with suction strainer and NRV into non-polluted water and prime as required
- Prefill pump as required to fill with water prior to running.
- Start and run pump.
- Review and check all fittings and discharge hose for leaks
- Adjust nozzles on discharge hose to desired level for flushing.
- Once the operation is complete, stop the pump and close nozzles
- Remove the suction from the water.



Caution

- If the pump and accessories are contaminated with oil, care must be exercised when retrieving the equipment to avoid causing secondary contamination. Ground sheet/Sorbent boom/bunded area should be used to mitigate this.
- Drain all suction and discharge hoses, flushing through to remove remaining contamination.

Caution

- If the pump and accessories are contaminated with oil, place them onto a ground sheet, seal and take it to a bunded cleaning station to be washed.

Post operation – Contaminated equipment

- Establish a bunded cleaning station.
- Clean pump and accessories with hot water. If required, diesel fuel can be used to assist with the cleaning of the skimmer and accessories.
- The pump and accessories are to be dry prior to maintenance inspection, re-stowage and storage
- Ensure all equipment is returned to response ready condition.

Additional Information

Maintenance

- All maintenance and repairs are to be completed in accordance with either the manufacturer or AMOSC procedures.
- All equipment must be left in an operational condition when not in use.
- All defects must be repaired or the equipment is to be “tagged out” for maintenance and repair.

Related Documents

**AMOSC HSSE Plan
PN08 - HSSE Policy
1004 OPS; Engine Refuelling**

