



Port Owen Marina Authority (NPC)

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Weekly dredge monitoring report

Dredge area 3B: Eastern Entrance was dredged between 25 and 31 August 2026 (hereafter referred to as “Week 4”). The stipulated conditions allowing for dredging and discharge from the settling dam include an outgoing current equal to or greater than 0.43 m.s^{-1} (equivalent to site specific $200 \text{ m}^3.\text{s}^{-1}$), only between 6am and 8pm, and only on weekdays (excluding public holidays). Operational conditions for release require that dredging only occur when these parameters allowed for at least 1 hour of dredging. As a result of these parameters, 5 dredge sessions could occur for Week 4 of August 2026. No dredging to and no discharge from the settling dam occurred (Table 1). For Week 4 of August 2026 a volume of 1642 m^3 was dredged from area 3B and blockages of the suction head occurred twice due to seaweed (Table 1).

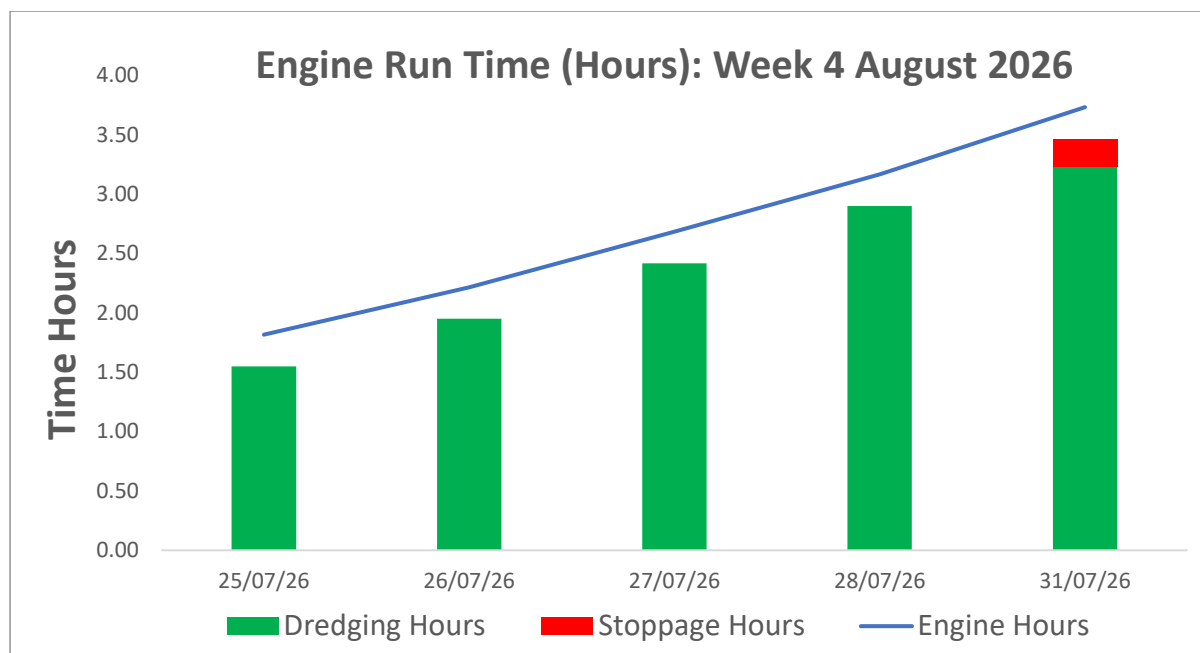
Table 1. Operational dredging variables.

Dredging of Dredge area 3A	Total
Allowable dredge sessions	5
Dredge sessions to river	5
Dredge sessions to settling dam	0
Release from settling dam	0
Dredge volume (m^3)	1642
Stop incidents (due to blockage)	2

A total engine run time of 13 hours, and 37 minutes was achieved for Week 4 of August 2026 with a mean run time of 2 hours and 43 minutes per dredge session (Table 2). The mean dredge time achieved per session was 2 hours and 24 minutes, indicating 2 minutes of stoppage time due to blockages of the suction head (Table 2). The mean volume of dredge material discharged to the river was 328.4 m^3 per session (Table 2).

Table 2. Operational variables and means per dredge session.

Operational variables	Total	Mean (per session)
Engine time (h:min)	13:37	2:43
Dredge time (h:min)	12:03	2:24
Stoppage time (h:min)	0:14	0:02
Volume direct to river (m^3)	1642	328.4
Volume to dam (m^3)	0	0
Volume from dam to river (m^3)	0	0



River velocity

Mean river velocity recorded before, during, and after dredging remained within the allowable parameter (above 0.43 m.s⁻¹) for Week 4 of August 2026 dredging (Table 3).

Table 3. Mean river velocity before, during, and after dredging.

River velocity	Mean (m.s ⁻¹)
Before dredging	0.51
During dredging	0.64
After dredging	0.61

