



Port Owen Marina Authority (NPC)

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Weekly dredge monitoring report

Dredge area 3B: Eastern Entrance was dredged between 4 and 7 May 2026 (hereafter referred to as “Week 1”). The stipulated conditions allowing for dredging and discharge from the settling dam include an outgoing current equal to or greater than $0.43 \text{ m}\cdot\text{s}^{-1}$ (equivalent to site specific $200 \text{ m}^3\cdot\text{s}^{-1}$), 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, 4 dredge sessions could occur for Week 1 of May 2026. No dredging to and no discharge from the settling dam occurred (Table 1). For Week 1 of May 2026 a volume of 773 m^3 was dredged from area 3B and blockages of the suction head occurred 4 times due to seaweed (Table 1).

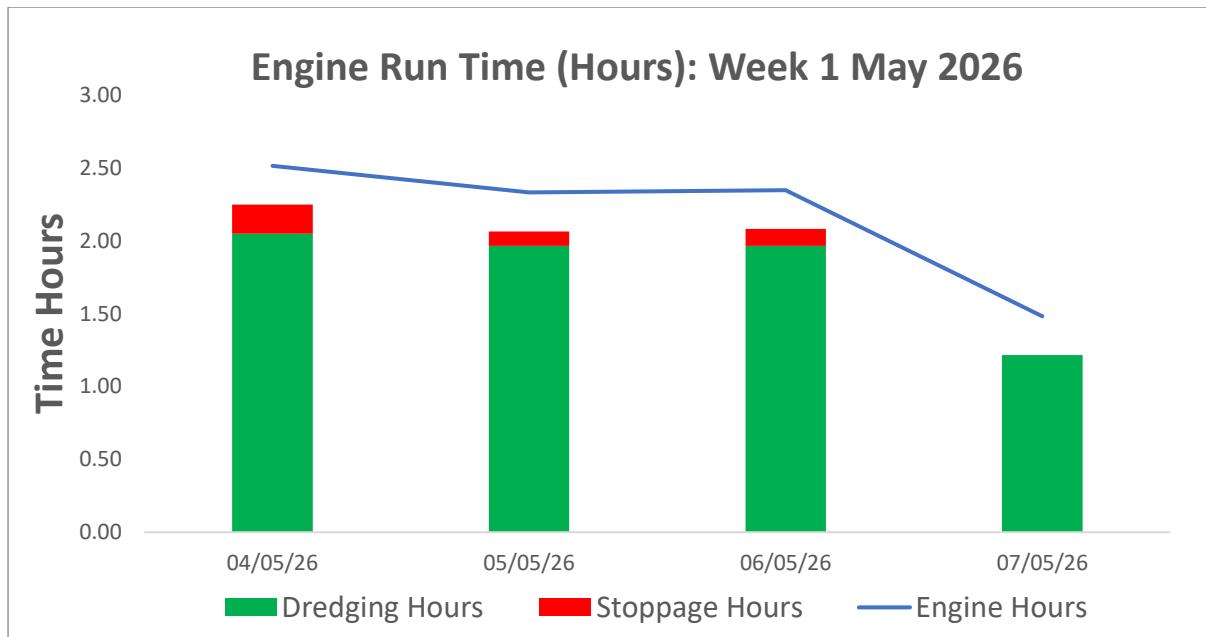
Table 1. Operational dredging variables.

Dredging of Dredge area 3A	Total
Allowable dredge sessions	4
Dredge sessions to river	4
Dredge sessions to settling dam	0
Release from settling dam	0
Dredge volume (m^3)	773
Stop incidents (due to blockage)	4

A total engine run time of 8 hours, and 41 minutes was achieved for Week 1 of May 2026 with a mean run time of 2 hours and 10 minutes per dredge session (Table 2). The mean dredge time achieved per session was 1 hour and 48 minutes, indicating 6 minutes of stoppage time due to blockages of the suction head (Table 2). The mean volume of dredge material discharged to the river was 193.25 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)	8:41	2:10
Dredge time (h:min)	7:12	1:48
Stoppage time (h:min)	0:25	0:06
Volume direct to river (m^3)	773	193.25
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 1 of May 2026 dredging (Table 3).

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

River velocity	Mean (m.s ⁻¹)
Before dredging	0.46
During dredging	0.65
After dredging	0.56

