



Port Owen Marina Authority (NPC)

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Weekly dredge monitoring report

Dredge area 3A: Eastern Loop Channel was dredged between 2 and 6 February 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 sunrise and sunset, 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 to the river. As a result of these parameters, 7 dredge sessions were allowed, but only 6 occurred for Week 1 of February 2026. One dredge session was cancelled due to shortage of staff. No dredging to and no discharge from the settling dam occurred (Table 1). For Week 1 of February 2026 a volume of 2093 m^3 was dredged from area 3A and blockages of the suction head occurred 5 times due to seaweed (Table 1).

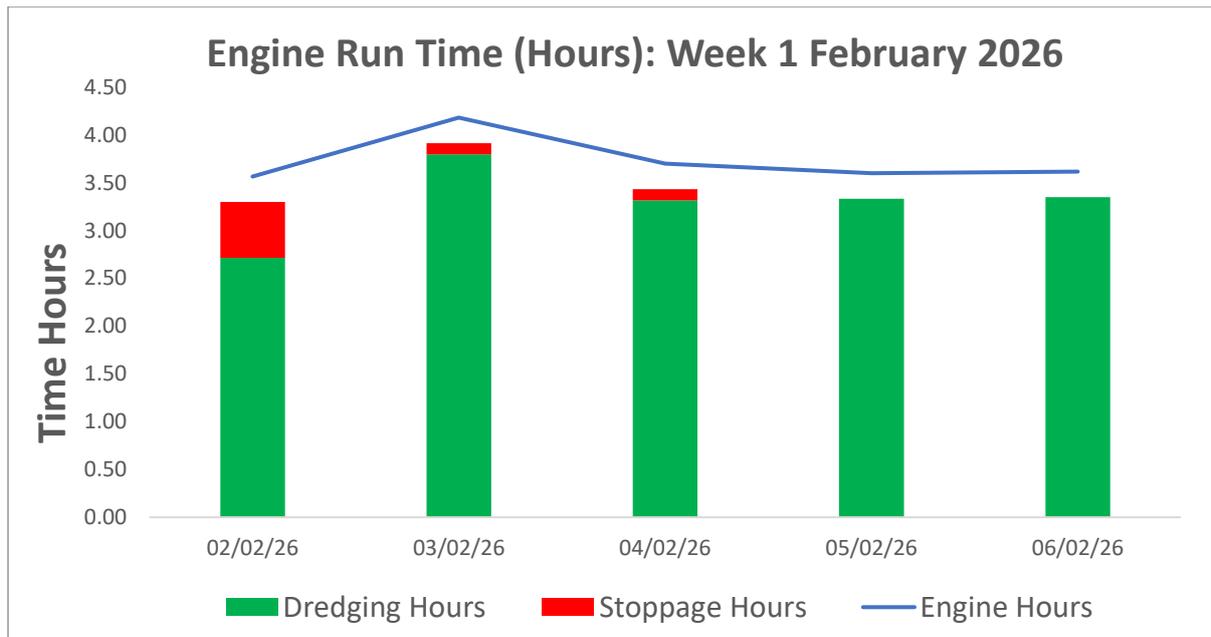
Table 1. Operational dredging variables.

Dredging of Dredge area 3A	Total
Allowable dredge sessions	7
Dredge sessions to river	6
Dredge sessions to settling dam	0
Release from settling dam	0
Dredge volume (m^3)	2093
Stop incidents (due to blockage)	5

A total engine run time of 18 hours, and 40 minutes was achieved for Week 1 of February 2026 with a mean run time of 3 hours and 44 minutes per dredge session (Table 2). The mean dredge time achieved per session was 3 hours and 18 minutes, indicating 9 minutes stoppage time due to blockages of the suction head (Table 2). The mean volume of dredge material discharged to the river was 418.6 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)	18:40	3:44
Dredge time (h:min)	16:31	3:18
Stoppage time (h:min)	0:49	0:09
Volume direct to river (m^3)	2093	418.6
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 February 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	0.73
After dredging	0.68

