



Port Owen Marina Authority (NPC)

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Weekly dredge monitoring report

Dredge area 3A: Eastern Loop Channel was dredged between 26 and 30 January 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 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, 6 dredge sessions could occur for Week 4 of January 2026, as per dredge schedule. No dredging to and no discharge from the settling dam occurred (Table 1). For Week 4 of January 2026 a volume of 1140.7 m^3 was dredged from area 3A and blockages of the suction head occurred once due to seaweed (Table 1).

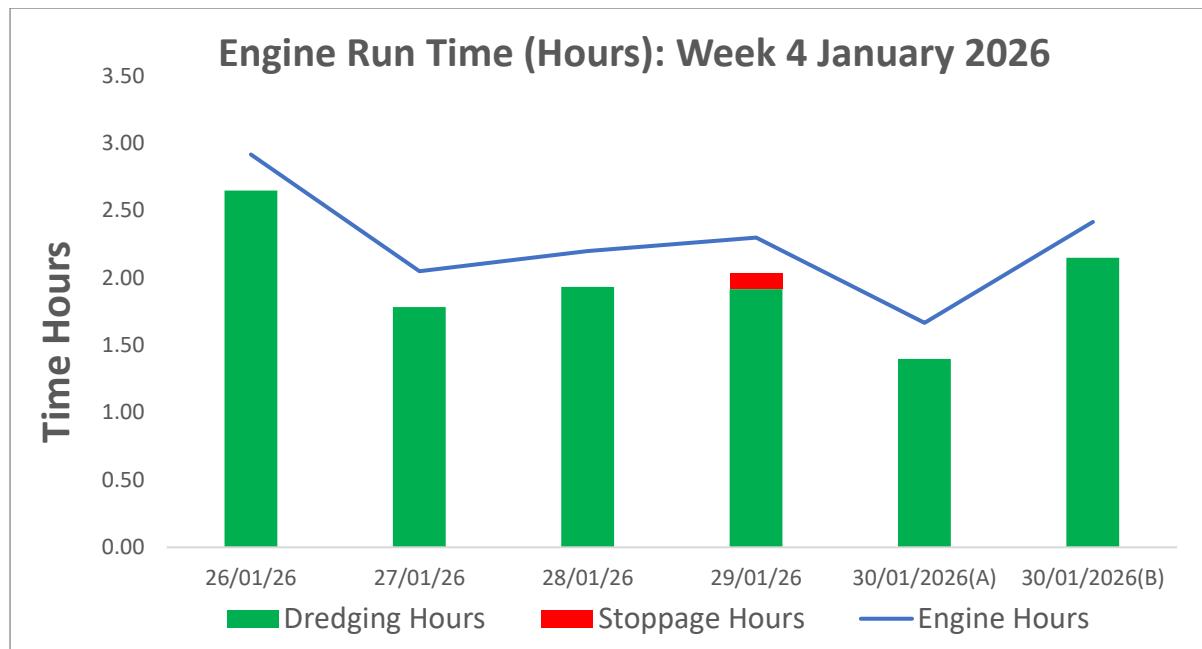
Table 1. Operational dredging variables.

Dredging of Dredge area 3A		Total
Allowable dredge sessions		6
Dredge sessions to river		6
Dredge sessions to settling dam		0
Release from settling dam		0
Dredge volume (m^3)		1140.7
Stop incidents (due to blockage)		1

A total engine run time of 13 hours, and 33 minutes was achieved for Week 4 of January 2026 with a mean run time of 2 hours and 15 minutes per dredge session (Table 2). The mean dredge time achieved per session was 1 hour and 58 minutes, indicating 1 minute stoppage time due to blockages of the suction head (Table 2). The mean volume of dredge material discharged to the river was 190.12 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)	13:33	2:15
Dredge time (h:min)	11:50	1:58
Stoppage time (h:min)	0:07	0:01
Volume direct to river (m^3)	1140.7	190.12
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 January 2026 dredging (Table 3).

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

River velocity	Mean (m.s ⁻¹)
Before dredging	0.47
During dredging	0.67
After dredging	0.69

