



Port Owen Marina Authority (NPC)

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Weekly dredge monitoring report

Dredge area 3B: Eastern Entrance was dredged between 30 June and 3 July 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 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, 4 dredge sessions could occur for Week 1 of July 2026. No dredging to and no discharge from the settling dam occurred (Table 1). For Week 1 of July 2026 a volume of 1534.7 m^3 was dredged from area 3B and no blockages of the suction head occurred (Table 1).

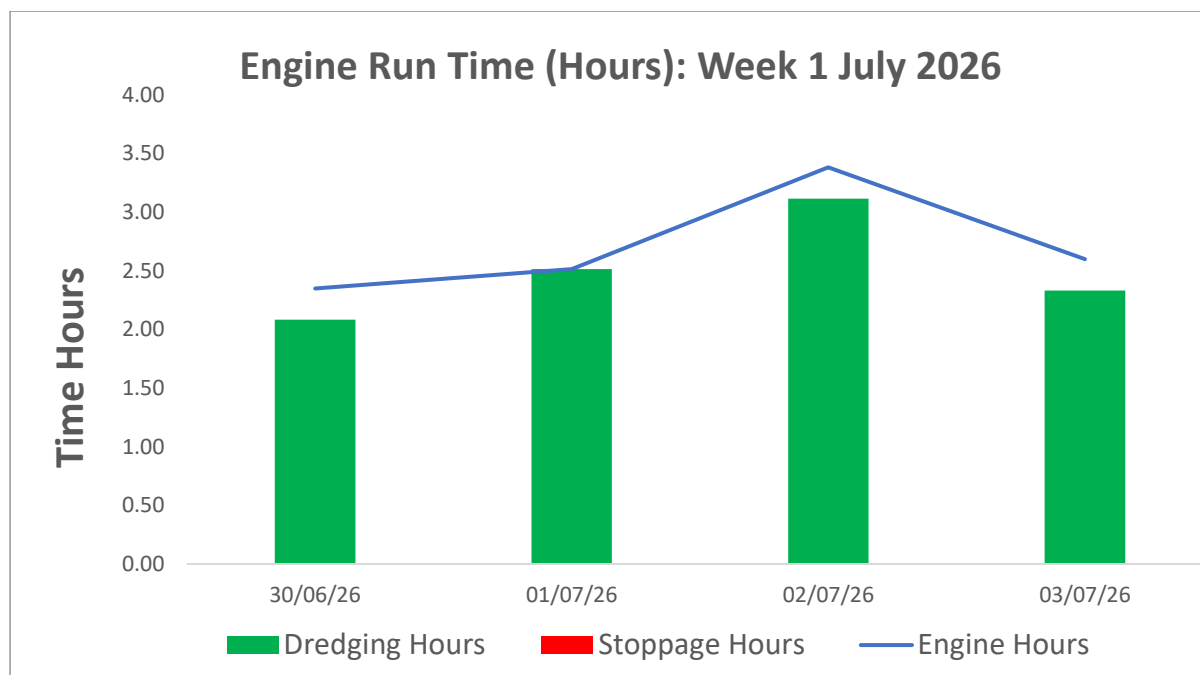
Table 1. Operational dredging variables.

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)	1534.7
Stop incidents (due to blockage)	0

A total engine run time of 10 hours, and 51 minutes was achieved for Week 1 of July 2026 with a mean run time of 2 hours and 42 minutes per dredge session (Table 2). The mean dredge time achieved per session was 2 hours and 30 minutes, indicating zero minutes of stoppage time due to blockages of the suction head (Table 2). The mean volume of dredge material discharged to the river was 383.7 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)	10:51	2:42
Dredge time (h:min)	10:03	2:30
Stoppage time (h:min)	0:00	0:00
Volume direct to river (m^3)	1534.7	383.7
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 July 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	0.68
After dredging	0.68

