

PROJECT PROGRAMME – DREDGE DISPOSAL AND MAERL HABITAT MITIGATION

The dredging start and completion dates proposed are June 2010 with a completion date of December 2010 although at present these dates are dependant on funding and consents. An indicative weekly programme and description of the activities is provided below.

Capital dredging is estimated to last approximately 26 weeks when based on two backhoes supported by barges (see Table 1). The dredgers' productivity rates under this scenario are:

- 10,000m³ per week for a smaller backhoe dredger with a bucket of 2m³, excavating weak material (e.g. mud, sand, maerl);
- 25,000m³ per week for a larger backhoe dredger with a bucket of 5m³, excavating weak material; and
- 10,000m³ per week for a larger backhoe dredger with a bucket of 5m³, excavating strong material (e.g. weathered rock).

The smaller backhoe dredger starts excavating contaminated material in the cruise berth (weeks 1 to 5) and moves on to excavate clean material in the cruise berth (week 6) and then contaminated material in the western navigation channel (weeks 7 to 19). The smaller dredger alternates between this activity and dredging clean material in the eastern and western navigation channel (weeks 2 to 20) on a weekly basis. This is because the treatment plant for the contaminated material operates on a throughput rate of approximately 5,000m³ per week, which is about half the productivity rate of the smaller dredger, and hence the treatment plant restricts the dredger's productivity when excavating contaminated material.

The larger backhoe dredger starts excavating clean material in the eastern navigation channel (weeks 1 to 6) and moves on to excavate rock in the cruise berth (weeks 7 to 9) and then back to clean material in the eastern navigation channel (weeks 10 to 22).

Table 1 Indicative Weekly Programme for Capital Dredge

Dredging Area	Material Type	Volume (m3)	Dredger Size													
				1	2	3	4	5	6	7	8	9	10	11	12	13
Cruise Berth	Clean	12,040	Small													
	Cont.	29,340	Small													
	Rock	25,500	Large													
W Channel	Clean	22,990	Small													
	Cont.	68,750	Small													
E Channel	Clean	475,490	Large													
	Clean	60,000	Small													
Completion of dredging																
Dredging Area	Material Type	Volume (m3)	Dredger Size													
				14	15	16	17	18	19	20	21	22	23	24	25	26
Cruise Berth	Clean	12,040	Small													
	Cont.	29,340	Small													

	Rock	25,500	Large															
W Channel	Clean	22,990	Small															
	Cont.	68,750	Small															
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