

**AQUACULTURE LICENCES  
APPEALS BOARD**

**20 AUG 2019**

**RECEIVED**

13 August 2019

*Ref Dunmanus Bay Appeal,  
Your ref AP6/1-2/2018  
Site Ref T05/590A.*

Dear Sirs,



We refer to your letter dated 26 July 2019 regarding the above appeal.

We note your concerns over benthic impacts and your request for further information from the applicants.

We would like to draw your attention to some benthic implications that have been raised in the applicants Cronin Millar report, Section 2.3, 'Currents', in particular, the PREVAILING DIRECTION of the currents:

CM01 : Ebb tide - Prevailing Tidal Current Direction is SOUTH - towards the shore.

CM01 : Flood tide - Prevailing Tidal Current Direction is SOUTH - towards the shore.

CM02 : Flood Tide - Prevailing Tidal Current Direction is SOUTH - towards the shore.

CM02 : Ebb tide - Prevailing Tidal Current Direction is NORTH EAST - towards the shore directly east of that measuring device.

Recorded Tidal current at both Meters is weak - all less than 0.4 knots.

**CONCLUSION:**

The majority of waste material from the proposed site will be carried SOUTH, towards the shore - by a pretty weak current.

It will not be carried North or North West - away from the shore, into a larger, deeper area where it might be dispersed more effectively.

The depth of the area south of the site varies between 0M and 15M. These were not the depths that the applicants used in their calculations.

Any benthic impact calculations must take these factors into account, and we shall await any further documentation they provide - to see if this happens.

Yours sincerely,  
Victor & Lynda Morgan.

A stylized, handwritten signature in black ink, appearing to be 'Victor Morgan'.

A handwritten signature in black ink, appearing to be 'Lynda Morgan'.





## 2.0 PHYSICAL ENVIRONMENT

The proposed site is located between Carbery Island and Drishane Point, in Dunmanus Bay, west Cork. The site is located approximately 7 miles south west of the village of Durrus along the southern coastline of the bay.

### 2.1 Tidal Levels

The tidal levels in Dunmanus Bay are outlined in Table 1 below:

Tide	MLWS	MLWN	MHWN	MHWS
Level (CD)	+3.40m	+2.60m	+1.10m	+0.40m

Table 1. Tidal Levels in Dunmanus Bay

### 2.2 Sea Bed

The sea bed at the site of the proposed development is rocky with some areas of cobbles and gravels.

A hydrographic survey was carried out at the site of the proposed development. The sea bed level varies between -15m and -30m CD. The survey drawing is enclosed in the Appendix of this report.

### 2.3 Currents

A study of current flows in Dunmanus Bay was carried out by Hydrographic Surveys Ltd. The result of this analysis is enclosed in the Appendix of this report.

The survey was carried out on 19/10/2012. The predicted tide levels on that date were as outlined in Table 2.

Tide	LW	HW	LW	HW
Level (CD)	+0.30m	+3.40m	+0.30m	+3.20m
Time	01:38	07:46	14:04	20:11

Table 2. Tidal Levels in Dunmanus Bay on 19 October 2012

Currents were surveyed at the west and east extremities of the site. In general, current velocities decreased with depth. Table 3 below summarises the results recorded on the day of surveying.

Point	CM 01 (West)	CM 02 (East)
Ebb Tide Average Current	0.13m/s (0.25 knots)	0.20m/s (0.40 knots)
Ebb Tide Average Direction	185° (south)	56° (north east)
Flood Tide Average Current	0.09m/s (0.18 knots)	0.12m/s (0.23 knots)
Flood Tide Average Direction	192° (south)	162° (south)

Table 3. Tidal Levels in Dunmanus Bay on 19 October 2012

It is estimated that the currents at the site may be 50% lower during neap tides.

- Copy of Page 4, Cronin Miller Engineers  
Report, already  
submitted to ALAS.

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