

## **Scalloway Dredging**

### **Project Information**

#### **General**

Dredging is being carried out by Faroese contractor Articon in a contract with a completion date of end February 2012.

Dredging will take place in the areas shown on the attached plan.

At present areas A ,B and C on the plan have been covered by the dredger which has removed all the loose material and overburden in those areas.

The remainder of the material is solid rock which requires drilling and blasting before it can be removed. At present the drilling barge is working in Area B and when complete will move on to Area A. When the drilling and blasting is complete the dredger will return to site to remove the loosened material

#### **Drilling and blasting**

Drilling and blasting will take place over the coming weeks and involves a series of holes being drilled at each set up of the barge which are then charged with explosives and fired prior to moving on to the next position.

Dependant on the progress achieved it is anticipated that the drilling and blasting in Area B will take approximately 4-5 weeks to complete with a further 6-8 weeks to complete area A.

Blasting is likely to take place on a daily basis and will occur when the drilling pattern has been completed. The time of blasting will vary daily and it is likely that two blasts will take place every second day.

Prior to the blast being fired, a siren will be sounded three times. The blast will occur after the third sounding of the siren.

|  |             |                   |
|--|-------------|-------------------|
| Blasting will be limited to within the following times | Mon- Friday | 0800hrs - 2000hrs |
|  | Saturday    | 0800hrs – 1600hrs |
|  | Sunday      | No blasting       |

Note: As Sunday is a non working day, the contractor has to complete a setup and blast before closing down until Monday morning. Whilst he will be aiming to complete by 1600hrs on a Saturday he will be permitted to work to complete the setup and blast up to 1900hrs on Saturday in exceptional circumstances.

#### **Working Hours**

|   |             |                   |
|---|-------------|-------------------|
| During the period of the contract the working hours will be | Mon- Friday | 0600hrs - 2300hrs |
|   | Saturday    | 0600hrs – 1600hrs |
|   | Sunday      | Site closed       |

## **Site Monitoring**

During the whole of the drilling and blasting operation vibrographs will be mounted on houses in the vicinity of the works to record vibration levels caused by each blast.

To ensure that no damage is caused to properties, a maximum vibration limit of 10mm/s has been specified in the contract. The contractor is required to keep vibration levels to below that level. To date that has been achieved with reading generally in the range 2 – 3.5mm/s except for the first blast where a reading of just over 6 was recorded.

The following gives an indication of the effect of vibration levels on properties

|             |  |
|-------------|--|
| 0 – 12 mm/s | No damage                                |
| 12+ mm/s    | Minor cosmetic damage may become evident |
| 50 mm/s     | Structural damage likely                 |

## **Contact Details**

The contract is being supervised by Shetland Islands Council, Capital Programme Service. Any concerns you may have should be made to John Williamson on 01595 744163 in the first instance.