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YORKSHIRE WATER  
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## INTERNAL MEMORANDUM

From: I C Barker  
Water Management & Licensing  
Section, Rivers Division

To: Planning & Estates Officer  
Western Division

Your Ref: 86/6/6567  
Our Ref: C548/12/86

18 December 1986

HORN CRAG QUARRY, SILSDEN

This new proposal is the latest in a succession of attempts to re-open the existing excavation.

The ground water resources of the area are considered to be at risk, both quantitatively and qualitatively, from any enlargement of the present quarry. Springs used for domestic supplies immediately to the west of the quarry would be extremely sensitive to any changes in the local groundwater regime. Other springs and boreholes to the south and east may suffer from discoloured/turbid water and possibly reduced yields. All these potential effects have been detailed in previous memos. (eg 14 April 1986).

The new proposals state that the workings have been reduced in depth, but do not state to what depth. They suggest a cut-off ditch to prevent surface water contamination, but do not indicate where the polluted water would be drained to. The applicants undertake to comply with any requirements of Yorkshire Water without apparently fully considering what these might be.

In order to protect existing groundwater supplies in the area the following measures would be required:-

1. Quarrying must be restricted to not deeper than 2m of the maximum groundwater level. It should be noted that this is likely to increase eastwards and it is important to establish this level before quarrying commences. At least three trial boreholes to the base of the sandstone, of not less than 150mm diameter, would be required.
2. An alternative water supply, satisfactory to the users, must be provided to the properties currently supplied from Horn Crag Springs. A borehole is likely to be the only feasible solution. It should be stressed that there are a number of existing abstractions in the vicinity, and there can be no guarantee that an abstraction licence would be granted. A pumping test and detailed water level monitoring would be needed to assess whether derogation would occur of existing abstractors.

3. An alternative water supply may be required to replace the existing spring which supplies Crag House, 200m south of the quarry. This source will almost certainly suffer some pollution during the working life of the quarry, and possibly some reduction in yield subsequently. The requirement for a replacement source would be determined by the severity of these effects.

4. The borehole supply at Sea Moor Farm, 400m east of the quarry, may suffer increased turbidity during the working life of the quarry. Adequate filtration should obviate this problem.

5. Spring-fed cattle troughs to the north, west and south of the quarry may be affected by increased turbidity during the working life of the quarry. Such sources have not been identified.

6. Due to the difficulty in predicting the effects of such a substantial increase in the size of the excavation the above list of points may not be exhaustive.

*I. C. Barker*

I C Barker

EXTRACTION OF SANDSTONE - HORN CRAG QUARRY, SILSDEN

5 JAN 1987

I 05/01/047

Planning Application No. 86/6/6567

Response of the Assistant Director (Engineering)  
Traffic & Road Safety Section  
1 City Road  
BRADFORD

I refer to your memo dated 25 November 1986, and I confirm that despite the reduction in the quantity of material to be extracted, I am still opposed to the principle of the proposal for the following reasons:-

- 1.0. Access to the site is proposed to be taken via a single track road having no proper passing places, and is totally inadequate for the anticipated heavy vehicular traffic involved. The problem is exacerbated by the lack of properly designed junctions at each end of the single track road, either with Brown Bank Lane (an unclassified road) or with the A6034 Silsden-Addingham road. Additionally, the existing junction of Brown Bank Lane with the A6034 is inadequate for cater for increased heavy traffic usage.
- 2.0. The proposal would result in a considerable increase in the number of heavy commercial vehicles travelling through Silsden and this would give rise to unacceptable environmental effects.
- 3.0. The projected volume of H.G.V. traffic would lead to congestion in Silsden Village Centre giving rise to conditions prejudicial to the safety of other road users and pedestrians.
- 4.0. The proposal would require an extensive Traffic Management Scheme in the Centre of Silsden to minimise the effects of 2 and 3 above.

Notwithstanding the effects that the introduction of such a Traffic Regulation Order would have on the community as a whole, it is contrary to Council policy to implement a Traffic Regulation Order to facilitate a development.

- 5.0. If members were mindful to approve the proposal the following conditions must apply:-
  - 5.1. Approval be subject to the satisfactory conclusion of a Section 52 Agreement covering all necessary access arrangements from the A6034 Silsden - Addingham Road to the site.
  - 5.2. There shall be no extraction of materials until such times as a satisfactory Traffic Regulation Order has been implemented, the details of which shall be determined and approved by this Authority.