

Committee(s):	Date(s):	Item
Barbican Residential Committee	26 th March 2012	8a Supplementary report to item 8
Subject: Concrete Investigation - Barbican Towers		For Information
Report of: Director of Community & Children's Services		Public
<p><u>Summary</u></p> <p>1. The purpose of this report is to provide supplementary information on the outcomes of the concrete testing of the Barbican towers following receipt of the draft report by Bickerdike Allen Partners.</p> <p><u>Recommendation</u></p> <p>2. That the contents of the report and summary findings are noted.</p>		

Background

This report is a supplementary report to Item 8, following receipt of the draft report from Bickerdike Allen Partners.

The City of London Corporation instructed Bickerdike Allen Partners to review and comment on the testing and results obtained from some of the concrete in the three tower blocks – Cromwell Tower, Lauderdale Tower and Shakespeare Tower.

The purpose of the survey was:-

- i) To carry out an overall visual and hammer tapping inspection to identify areas of change or deterioration.
- ii) To carry out sample checks on cover to the reinforcement
- iii) To carry out tests on concrete samples to confirm whether it posed any additional risks.

The draft report by Bickerdike Allen Partners (attached) reviews the testing carried out by the contractor; Structural Renovations Ltd and the interpretation of the results as offered by their specialist testing subcontractor Martech Technical Services Ltd.

The draft management summary by Bickerdike Allen Partners is as follows:

Following the identification of small pieces of concrete that were spalled (ie split from the face of the concrete) but still retained on the external surface of the concrete of

Shakespeare Tower, a 100% visual and hammer tap survey by abseilers was commissioned to identify other similar potential safety hazards on all 3 tower blocks.

Every panel was also spot checked for the thickness of the concrete cover to the reinforcement, and a selection of 90 panels per block were tested on their outer external surfaces to assess them for actual and potential deterioration.

The results obtained showed the reinforced concrete to be in very good condition for its age with only minor occurrences of normal types of defects. These have no structural implications but will require some intervention to prevent local deterioration in the future and the risk of detachment of further pieces of concrete.

The final report, including Glossary of terms, will be available shortly and circulated to the committee members at that time.