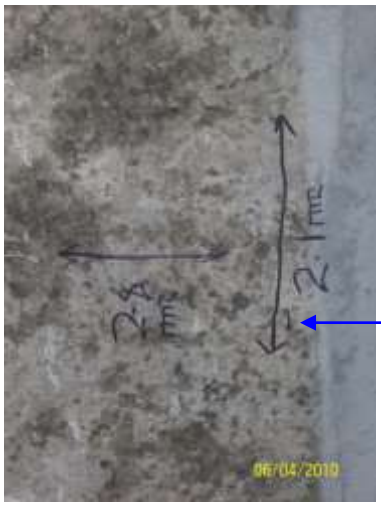
INSPECTION DEPARTMENT
DEFECTIVE AREA ON CONCRETE SOFFIT. C/BEAMS 58-59 N/E VIADUCT.
DATE. 06/04/10

Following a meeting with ESM.. which was attended by bridge inspectors, a request was made to carry out a special inspection of a damp area of concrete located on the carriageway deck soffit at crossbeams 58-58 on the north east viaduct. This inspection was also to try and connect the inspected area on the deck soffit to a carriageway surfacing defect which has given us problems over the past eighteen months or so. Measurements were taken from the damp area on the deck soffit and then transferred to a comparison measurement on the deck surface. These measurements confirmed that an associated link between the two areas is apparent..

The area on the deck soffit was inspected visually, approximate measurements were taken. Heavy veinular cracking was evident with signs of salts being discharged from the concrete. . Also evident was discoloured transverse area approx 400mm long (what looked like possible staining coming from a re-bar located closely to the face of the deck soffit. A hammer ring test was carried out over the majority of the damp /discoloured area with no indication of any sub- surface hollow or honeycombed concrete evident.

A dust sample of the concrete was taken from the discoloured area as mentioned above, and is available for analyisis if required.



Concrete deck soffit between crossbeams 58-59.
approximate dimensions of area inspected.

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Discoloured area of concrete (possible sub-surface steel re-bar beginning to show. Also transverse epoxy repair carried out pre- 1990.

Views of heavy veinular cracking on deck soffit area.

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