

# ROAD2000

## LONDON'S PRINCIPAL ROAD ASSET CONDITION SURVEY

### ASSET INVENTORY SURVEY COMMISSION

Hammersmith & Fulham's (H&F) Road 2000 team were appointed earlier this year, as lead borough, to project manage principal road data collection for Transport for London (TfL) on a London-wide basis for the 33 London boroughs, consultancy and liaison being provided by Terry Felstead from Kensington and Chelsea. The first phase was to collect site data for street lighting columns. As part of the survey, all columns will be assigned a condition rating between 1 to 4 in accordance with ILE Technical Report 22 (2002) Table 18.1. The survey will be map based and ultimately link to routine maintenance management software.

It is a TfL requirement that the data can be loaded onto their software and with this flexibility the same requirement will be provided back to each borough. In order to achieve best value the survey collected details of road gullies and street trees as additional point items in the first phase.

The survey was undertaken in topographical format with column positions being fixed onto Ordnance Survey Master Map back cloth, either by GPS with a plotting accuracy of  $\pm 20\text{mm}$ , or by reference measurements on the ground with a plotting accuracy of  $< 1\text{m}$ . Additionally aerial photography has been used to audit column and other asset item positions. The work was completed on time and delivered to TfL on the 30<sup>th</sup> June 2003.

A second commission has been awarded to the H&F to continue with the collection of a further five point asset items by the end of the current year, namely traffic lights, bollards, street furniture, posts, and signs.

The screenshot shows the 'TfL Edit' window with the following fields:

- Condition: No apparent defects / blemishes (0)
- Cross Sectional position: Left Outside Verge (1)
- Column type: Lamped
- Column Material: Concrete
- Column Height: 4m
- Mount. Style: Single
- Tree L1 by Code: (empty)

An example screen grab is shown indicating the three current assets for Phase 1, ie trees, gullies, and lamp columns. This particular example shows the attribute information collected for lamp columns, the one below for trees.

All management, data collection, verification & quality assurance is being managed in-house with technical direction from Terry Felstead, who is on the UK Lighting Board. He has also provided key support and liaison with the boroughs.

The screenshot shows the 'TfL Edit' window with the following fields:

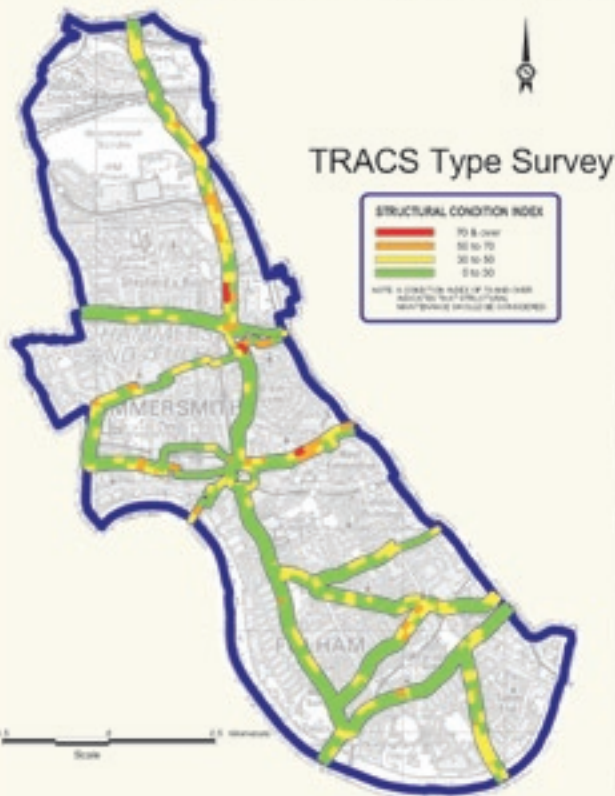
- Type: Plane
- Condition: No apparent defects / blemishes (0)
- Cross Sectional position: Left Outside Verge (1)
- Pt @ line end: (checkbox checked)

The borough principal road surface assets, borough road and bridge condition assessments will be combined with the Transport for London Road Network (TLRN) to form a London-wide asset database. It is hoped that the initial work will form the framework for future asset survey work with more details being added on street lighting columns as well as the inclusion of other street furniture assets.

If you have any enquires relating to this work please contact the Project Manager by email on [gavin.rozen@lbhf.gov.uk](mailto:gavin.rozen@lbhf.gov.uk) or the Survey Manager on [joe.gallagher@lbhf.gov.uk](mailto:joe.gallagher@lbhf.gov.uk).

# London Borough of Hammersmith and Fulham

## London Principal Road Network Condition Survey 2001 - 2002



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## BPRN CONDITION ASSESSMENT SURVEYS

The Road2000 Seminar held at Fulham Palace in November 2002 presented the ROAD2000 2001/02 condition survey results of the borough PRN. Presentations of Carriageway and Footway DVI surveys, SCRIM and TRACS Type Survey (TTS) were provided both on CD with an Adobe Acrobat viewer as well as in hard copy format using 'AO' size laminated maps on a borough-by-borough basis.

Subsequent feedback and response has been good with some quotes posted on the LoTAG website such as "well done. Keep in the progress reports", and "Look forward to the next one", and "Excellent Venue, good presentations. Keep it going".

**Breaking News:** ROAD2000 Seminar is scheduled for 25<sup>th</sup> November 2003. For details and booking arrangements see [www.lotag.com](http://www.lotag.com)

## FUTURE SURVEYS

The move nationally will be towards TTS. These surveys will replace CVI surveys and be used to determine the investigatory level for more detailed surveys such as DVI and deflectograph etc. The London data, that included parallel TTS and DVI results will provide valuable data for research both into the effectiveness of TTS for the PRN but also over the transition from DVI to TTS and the correlation between the two surveys. London has produced their own indicator for TTS that compares the results with the UKPMS Visual Structural Condition Index. The intention for the BVPI will be to use the same indicator as the Highways Agency use for their trunk road and motorway network. This indicator, and hence its incorporation into the UKPMS software is not yet available. TfL have indicated their desire to continue with DVI surveys for the purpose of determining resource allocation.

The UK Roads Board have set up two new national groups, one to look at monitoring performance indicators which will be a UK group and replace the NRMCS (England and Wales only) and the other to look into the introduction of TTS onto all road classes throughout England.

The Road2000 team have been extremely busy with the 2002/03 surveys. The current position is that the DVI Surveys are now complete (including the statutory BVPI that has to be provided by converting DVI to an equivalent CVI result), SCRIM survey are complete but there were problems with identification of the site categories and adequate coverage. TTS surveys have been delayed because of difficulties with Babbie's new survey vehicle. The work is to be finished by WDM with Babbie providing an important audit role. The TTS Sub-group to the Roads Board have produced a local authority advice note and a specification for the TTS vehicle for use during all TTS work in 2003/04.

Summaries of the surveys carried out by the team are set out in figure 1.

### Proposed 03/04 surveys

- \* DVI, SCRIM, and TTS are being carried out with 100% PRN coverage.
- \* Tenders have been awarded, with surveys commencing early September.
- \* This is earlier than last year which will enable completion of Borough reporting requirements by 31<sup>st</sup> March 2004.

### On-going consultancy work

- \* Audit of 2002/03 surveys
- \* Presentation of GPR results
- \* The development of Local Rules & Parameters for the implementation of TRACS Type Surveys for London's BPRN
- \* Early comparisons between TTS & DVI data sets are **complete**
- \* Reports to be mailed shortly will be posted on the LoTAG website ([www.lotag.com](http://www.lotag.com))

### Bureau Service

We can assist you with your footways BVPI. There is no need for you to survey your principal road category 1 and 2 footways although we will need to know where these are on your network. We can also either carry out your non-principal road category 1 and 2 footway DVI surveys or use your surveys to calculate the BVPIs for you. Contact [adrian.wood@lbhf.gov.uk](mailto:adrian.wood@lbhf.gov.uk)

### Action Plan for 2003/04

- \* To continue with the surveys as set out in figure 1
  - \* To continue to use both TTS, DVI and SCRIM surveys to establish BPRN condition
  - \* To produce SCRIM site category maps
  - \* To produce accident data maps that can be used in conjunction with the SCRIM results as part of the investigatory work
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## FIGURE 1

	Year	1999/2000	2000/2001	2001/02	2002/03	2003/04
CW DVI		x		x	x	x
FW DVI		x		x	x	x
SCRIM				x	x	x
TTS				x	x	x
GPR				x(part)	x(part)	
Coring				x(part)	x(part)	

## THE FUTURE PROGRAMME FOR 2003/04

1	Prepare & Advertise Tenders	May / June 2003
2	Appoint for the Following	
i.	SCRIM skidding surveys	August 2003
ii.	DVI visual condition surveys	August 2003
iii.	TTS tracs surveys	August 2003
3	Site work (SCRIM/TTS)	October/November
4	Site work (DVI)	September/October/November
5	Contractors reports	October - December
6	Analysis	January/February 2004
7	Report preparation	February/March
8	Publish report	March 2004

## CONTACTS

Organisation	Role	Contact	Telephone
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