



Greening the Streets of South London

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Lambeth

Population = 300,000 rising to 330,000+ 2025
Dwellings = an increase of 19% or 21,000 by 2025
Water demand rising to 9.8ml/day by 2025
98% Combined system @ 1:15 design
Sewage increasing by 158ml/day by 2025
14 Critical Drainage Areas (46,000 properties)
1.02% National Flood Risk
No natural watercourses




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Solutions

- Sustainable Drainage
- Green Infrastructure
- Design
- Maintenance
- Enforcement
- Blame Thames Water

 ROYAL BOROUGH OF GREENWICH

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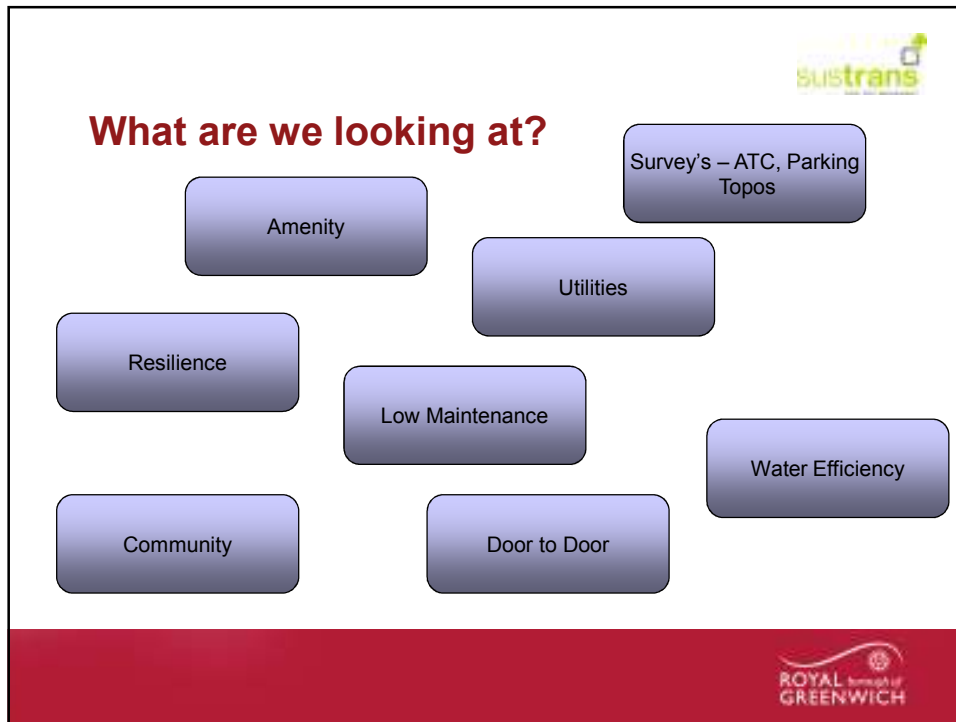


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The Location

Ardlui Road & Chatsworth Way
Risk from Pluvial flooding
Critical Drainage Area
Combined Sewer network
Historical evidence in the area
River Effra



Project Team

Lambeth	Client
Sustrans	Community engagement & Design
EPG	Technical design
URS	Modelling, final report
FM Conway	Contractor

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Inception meeting

Bristol May 2012

Lambeth
URS
Sustrans
EPG




Site visit Dings



Surveys

Parking – Feb 2012 & 2013
Chatsworth 70% Most,
Ardlui 27% Most,
70% saturation 11am-1pm
(average is 35%)

ATC – 20mph zone
85thile Ardlui 28mph
85thile Chatsworth 26mph





Rain Gardens

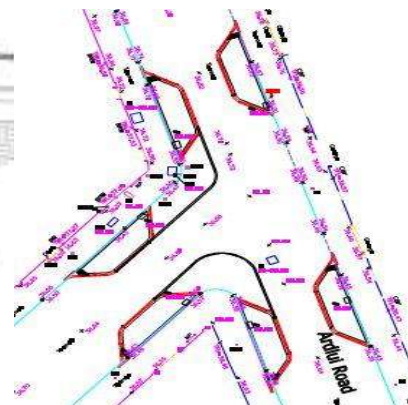
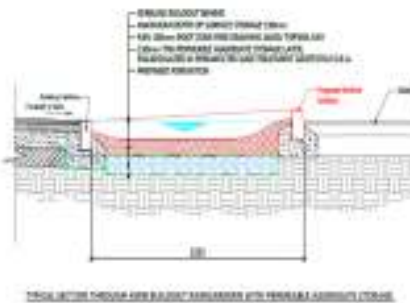
Rule of Thumb size – 8m x 2m
Desired run off reduction – 5%
Typical depth 450mm
Traditional construction and materials

3 options

- 1) Volume = 2.05cu.m
- 2) Volume = 2.55cu.m – £3,908.32 (Spon's)
- 3) Volume = 4.02cu.m – £4,503.72 (Spon's)

1:100 26% reduction & 10hr delay – 24hr summer storm

1:100 13% reduction & 8hr delay – 24hr winter storm,





DIY Streets

- physical traffic calming measures such as build outs, chicanes and speed tables so traffic has to slow down to negotiate them;
- psychological traffic calming methods such as trees, plants and art works which, by narrowing and softening the street, can reduce forward visibility which discourages drivers from speeding;
- features that give a message to drivers that they are entering a unique residential area where pedestrians have priority. These features could be trees, plants, children's play space or art works.







Community Engagement 6-10-12







Community Engagement 10-11-12



Community Engagement 10-11-12



Community Engagement 26-1-13



Community Engagement 16-3-13



Community engagement 11-5-13



What you could win!



Not all straight lines

Sustrans


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Not all Rain Gardens

Minimise parking loss on Chatsworth Way

We replaced all build outs with permeable paving in front of the driveways and permeable paving around the trees. This layout will reduce the parking loss on Chatsworth Way to only 2 spaces to accommodate the build outs at the junction with Idmiston Road.

ROYAL Borough of GREENWICH



Thank You

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