SuDS in Lambeth

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Environmental Services & Highways

June 2013

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)
No natural watercourses
1 significant asset identified (27cm Albert Embankment)
Co-operation

“I am informed that the flooding has been the same for the past eight to ten years in times of sudden and heavy rainfall. If you have any suggestions to offer as to dealing with the trouble I shall presume to hear from you in due course“

Mr Fitzmaurice, LCC to Borough Engineer 29th August 1911

Is this how to consult?

Dear Resident,

Due to the overwhelming demand for the site “SUDDIN” in Benwell Road and urgent desire to sort it out, I am taking the initiative of making a consultation in order to get your feedback and suggestions on what to do.

Please feel free to offer your suggestions on how Benwell Road can be improved to reduce the flooding problem. Any suggestions received will be taken into consideration and a report will be prepared on how the consultation will be done.

This consultation in SINDA is being carried out within the framework of the Benwell Road Improvement Project. Under the Benwell Road Improvement Project, a road improvement scheme is being planned to make Benwell Road safer and more attractive. The Benwell Road Improvement Project is being funded by the Greater London Authority under the London Borough of Lambeth. The consultation is aimed at assessing the possible options for improving the road and reducing the flooding problem.

This consultation is being undertaken by the London Borough of Lambeth and is being carried out on the roadsides of Benwell Road. The consultation is being carried out in a structured manner and will be conducted in a series of meetings with the local residents and stakeholders. The meetings will be held on a regular basis and the feedback will be taken into consideration.

Thank you for your interest in the consultation and for taking the time to reply to the consultation.

Benwell Road

The pro

The pros of the consultation will include the following:

1. Resolution of the flooding problem
2. Improvement in road safety
3. Enhancement of the environment

The cons

The cons of the consultation will include the following:

1. Cost implications
2. Disruption to daily life
3. Environmental impact

Option 1

Option 2

Option 3

Option 4

No results

If you have any further queries, please contact Owen Davies by email at owen.davies@lambeth.gov.uk or by phone at 020 7572 8650.

Benwell Road

Consultation

Existing

Future

Road

Road

Flooded

Flooded

Benwell

Cabinet

Central

Central

Central

Central

Consultation

If you require any further information on this scheme, please contact Owen Davies by email at owen.davies@lambeth.gov.uk or by phone at 020 7572 8650.
So what could go wrong?

2 X Petitions - 2,500 against, 110 for
Threat of High Court Challenge
Committee 3 times in 5 months
600+ e-mails, 500+ phone calls

50% of this traffic will turn right at the lights ahead, where the road narrows. The 'jam' is caused by Islington Council closing the two other right turn options - Bryantwood Road and Benwell Road - because Bryantwood Road had high traffic volumes !!!!

You are angry so are the residents. Please lodge your complaints with:
Owen Davies at Traffic and Safety!!! Islington Council.
Phone. 0207 527 8650 Fax. 0207 527 2145
also
Tom Mackenzie at Islington Gazette, who is sympathetic.
Phone. 0208 342 5777

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So it’s all doom & gloom?

Understanding competing needs
Understand limits
Mutual benefits
Community Safety
Perceptions
Political buy-in
Susdrain – SuD it, let’s do it – making SuDS happen

Highways Service

Islington Finalist for the National Transport Awards 2008

Islington’s highways service, working in conjunction with residents, mobility forum, and other agencies, is a finalist for the prestigious National Transport Awards in the accessibility category.

The project submitted was the Heritage Crossover at Park Way Court. The Heritage Crossover shows that through learning and understanding the needs of users, you can improve accessibility without compromising the conservation of the cobbled streets. This crossover received an HT award for Accessibility in 2007.

The innovative design has transformed a crossover to create an inclusive place that has become a symbol of community integration.

For further information please contact Owen Davies on ext 3993 or e-mail owen.davies@islington.gov.uk.

Highways Service

Improving people’s lives through access

Everyone has a right to a clear and safe passage on our highways without any obstacles impeding our journey. The council’s highways service is responsible for providing accessible, safe, and easy passage for all residents in Islington.

A scheme designed to improve accessibility has changed the lives of residents in Petcherton Road.

Wheelchair users and vulnerable residents have recently benefited from an accessibility scheme, which has provided:

- access to local amenities
- slowed down traffic coming off green lanes through innovative good design
- improved pedestrian crossing

Jean Hall, Petcherton Road resident, who voiced this concern said:

“I’m very pleased that the council listened to our concerns by putting in the dropped kerbs and the smooth pavement. It has enabled me to get around my schedule to local shops, rail station and the bus stop independently. The council also took the opportunity to resurface the traffic island and plant some trees, which look great. Other residents have mentioned how much they appreciate the changes and how much better the road looks.”

We want to encourage residents in Islington to have an equal say by actively giving them the opportunity to engage with us, to let them have their views and ideas to help us make improvements which will change their road.

For further information please contact Owen Davies on ext 3993 or e-mail owen.davies@islington.gov.uk.

Lambeth Green Streets

Ardlui Road & Chatsworth Way

Risk from Pluvial flooding

Historical evidence in the area

Low maintenance/re-instatement

DIY Streets/Green Streets

Community/Resilience

Door to Door – Water efficiency

Owen Davies - London Borough of Lambeth
Lambeth Green Streets

Parking – Feb 2012 & 2013
  Chatsworth 70% Most, 40% Lowest
  Ardlui 27% Most, 10% Lowest

ATC – 20mph zone
  85th%ile Ardlui 28mph
  85th%ile Chatsworth 26mph

Rain Gardens

Rule of Thumb size
  8m x 2m

Desired run off reduction
  5%

Typical depth 450mm
Modelled Outputs

Best Case
Chatsworth 1:100 (medium infiltration)
15min 16% 1440min 36%

Worst Case
Ardlui 1:100 (medium infiltration)
15min 4% 1440min 22%

Hydrograph’s

Figure 3.3 (a) Chatsworth Way - 100 year (15 min summer storm)

Figure 3.8 (b) Ardlui Road - 100 year (15 min winter storm)
Susdrain – SuD it, let's do it – making SuDS happen

Community Engagement 6-10-12

Community Engagement 10-11-12
Community Engagement 26-1-13

Community Engagement 16-3-13
Community engagement 11-5-13

Not all straight lines
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.

Alley Way

Identified by residents
Reinforced with a “Green Audit”
Re-surfaced
New planting areas
School and residents planting
They will maintain
New space?
Alley Way Before

Alley Way After
Bird Walk – Planting Day 10-11-12

Fount Street
Thorparcn Road

"forgotten" highway
Serves 4 properties
In a middle of a park
Forrest of bollards
Dead Space
Susdrain – SuD it, let’s do it – making SuDS happen

Owen Davies - London Borough of Lambeth
Why Depave?
Depave
Two front gardens – 22\textsuperscript{nd} September 2012
Advertised on Project Dirt
We supplied
\begin{itemize}
  \item Materials (Soil, pea shingle)
  \item Tools (picks, shovels)
  \item Gang to help and show what to look for
  \item Removal of spoil
\end{itemize}
Two gardens four hours – removed 40\% hard surface
Enabled residents – Skills & Resources
Community Freshview/Groups of residents
Ashmole Estate

Mawbey Estate
Tradescant Road

Green Roofs

Training for 25 residents
Small scale green roofs
One of the tools for Surface Water Management not the answer
Multiple benefits
Fun day
Will be repeated, budget agreed
Green Roof's

Urban Wild Project
Garages
  Regent Road
  Vauxhall Walk
Largest Green roof in Europe(?) – Ethelred Estate

Urban Wild Project

Resident led
Businesses benefit
Community benefits
Bio-diversity
Urban Heat Island
Visual impact
Food Production
Resilience
Event 9th June 2013
LFRMS Residents Survey

Survey ran for 6 weeks
Help inform the development of LFRMS

Overall
96% residents support Depave
86% residents support Highway Rain Gardens
90% residents support new grass verges
96% residents support green roofs

LFRMS Comments

“A step by step guide to give a hierarchy of most beneficial ways to achieve reduction, in terms of no-brainer, quick wins, weekend job, longer term ..... “

“Availability of general information and with encouragement and enabling of establishment of rain gardens in public and private spaces with information on site describing there function”

“green rooves, green car parks, front driveways made from porous materials - can we get a subsidy to convert ours?”

“AFTER ALL THIS IS NATURES WAY OF REDUCING FLOODING. IT SHOULD BE A LEGAL REQUIREMENT “
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