

From: [REDACTED]
To: [silvertowntunnel](#)
Subject: Re:
Date: 11 February 2017 00:23:55
Attachments: [Screen Shot 2017-02-11 at 1.16.28 AM.png](#)

Dear Richard,

Thanks for this.

I am not sure what the protocol is here, but I thought it might be useful to forward a Highways Agency document that backs up one point I made in my submission regarding the lane capacity of bi-directional single-bore tunnels.

Here's a link to the document:

<http://www.standardsforhighways.co.uk/ha/standards/dmr/vol2/section2/bd7899.pdf>

I have attached an image from 4/2/2 of this document that confirms that a bi-directional tunnel can carry up to 1800 vehicles/hr per lane in each direction - above the expected volume of peak hour traffic in the Silvertown Tunnel.

Best,

Dominic

Tunnel Flow/Type		Cut and Cover	Bored Tunnels	Immersed Tubes
Uni-directional	v/hr/lane	TD20 (DMRB 5.1)	2000	2000
Bi-directional	v/hr/lane	TD20 (DMRB 5.1)	1800	1800

Note: Over or underestimation of traffic capacities can lead to severe economic penalties especially for major tunnels. Special scheme specific studies may be beneficial. Refer to PIARC Technical Committee on Road Tunnels report XVII World Roads Congress, Sydney 1983.