

Contents

Volume 1B

9	Air quality	9-1
9.1	Introduction	9-1
9.2	Assessment approach	9-3
9.3	Construction assessment methodology	9-15
9.4	Operational assessment methodology.....	9-17
9.5	Existing environment.....	9-32
9.6	Assessment of potential construction impacts.....	9-43
9.7	Assessment of potential operational impacts	9-51
9.8	Regional air quality.....	9-109
9.9	Odour	9-111
9.10	Environmental management measures	9-112
10	Noise and vibration	10-1
10.1	Assessment methodology.....	10-2
10.2	Existing environment.....	10-45
10.3	Assessment of potential construction impacts.....	10-49
10.4	Assessment of operational road traffic impacts	10-132
10.5	Environmental management measures	10-142
11	Human health risk	11-1
11.1	Assessment methodology.....	11-2
11.2	Project design to minimise health impacts.....	11-8
11.3	Existing environment.....	11-8
11.4	Assessment of potential construction impacts.....	11-10
11.5	Assessment of potential operational impacts	11-14
11.6	Assessment of potential social impacts on health	11-41
11.7	Economic aspects	11-47
11.8	Construction fatigue	11-48
11.9	Stress and anxiety issues	11-49
11.10	Management of impacts.....	11-50
12	Land use and property	12-1
12.1	Assessment methodology.....	12-4
12.2	Existing environment.....	12-6
12.3	Potential impacts – property	12-31
12.4	Potential impacts – land use	12-63
12.5	Management of impacts.....	12-76
13	Urban design and visual amenity.....	13-1
13.1	Assessment methodology.....	13-4
13.2	Landscape character and visual impact assessment	13-4
13.3	Existing environment.....	13-8
13.4	Assessment of potential construction impacts.....	13-16
13.5	Assessment of operational impacts	13-33
13.6	Environmental management measurers	13-74

14	Social and economic	14-1
14.1	Assessment methodology	14-3
14.2	Existing environment	14-7
14.3	Assessment of potential construction impacts	14-30
14.4	Assessment of potential operational impacts	14-45
14.5	Environmental management measures	14-53
15	Soil and water quality	15-1
15.1	Assessment methodology	15-6
15.2	Existing environment	15-17
15.3	Assessment of potential construction impacts	15-27
15.4	Assessment of potential operational impacts	15-36
15.5	Environmental management measures	15-42