ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Wine	dsor Hill New Tuni	Type: Tunnel			



Location map

Burnt House

192
Fin

Thrupe

O

Thrupe

Aerial View

A **Detailed Examination** of this structure has been carried out to establish the condition, identify the nature, severity and extent of defects, ascertain the rate of deterioration by reference to the previous examination reports and identify the scope, extent and urgency of any remedial actions required to ensure the continued safety and long-term integrity of the structure.

Examiner: Signed

Date: 13/06/18

Access Hazards:

Access is gained from the unclassified road "Ham Lane" located North of Shepton Mallett. The old track formation is reached via

Recommendations:

Defects generally stable; no action required.

Consideration to fencing above portal and to fencing at road level above should be made - P1 £15k.

Note: the anecdotal evidence of tresspassers and general misuse is not corroborated by any evidence throughout the entire site (inc. SAD 77 Old Tunnel)

Signed by Examining Engineer:

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date:	13/06/18
Route:	Some	erset and Dorset	OS ref: ST 615 451	-			
Name:	Wind	lsor Hill New Tuni	nel			Type: Tunnel	

Type of construction	Windsor New Tunnel is a typical horseshoe profile consisting of a mixture of natural rock, brick and masonry construction. At the tunnel ends, masonry sidewalls supporting four brick ring barrel are shown at the LE and masonry sidewalls supporting three brick ring barrel is shown at the CE, which is also slightly narrower. Masonry box wingwalls are present at each end of the tunnel and a retaining wall is also present at the LE on downside.
No. of sections	11 sections of 10 metres, last section 8.7m
Details of shafts	No shafts.
Details of manholes and drains	No manholes or drains visible.

General Comments:

Long-standing transverse fracture (highlighted by salts) to mid haunch of US sidewall at LE portal remains stable (P13).

Walkover Survey

The structure carries agricultural land, woodland, and a single carriageway unclassified road. No deformation or subsidence of the road surface was observed (P32). Walkover survey not fully completed due to dense vegetation, underfoot conditions and fallen trees. The post and wire boundary fence above the CE portal has partially failed (P31). This old fence line is 5m from road with 12m drop beyond the fence line (P29, P30). The LE portal is in remote woodland (P33).

The areas immediately to the rear of the portals are unfenced (P8, P28). Anecdotal evidence, from the owner of Farm, suggests frequent misuse of the tunnel area. No evidence of this was, or has ever been, found.

Pressure read	dings	Gases	
C/end	998.2 mb	O_2	20.9%
At centre	998.1 mb	H_2S	Zero
L/end	998.1 mb	$\mathrm{CH_4}$	Zero
		CO	Zero

Examined By:	Appointees I	Engineer		Date of exam
	Appointees E	xaminer		13/06/18
Symbols Used in T	Гunnel Diagram:			Example
BWK	Brickwork	\mathbf{W}	Wetness	Open joints
CJ	Construction Joint	WD	Water dripping	
R	Refuge	WR	Water running	Depth
S	Spalling	\mathbf{FL}	Flattening of Arch	
F	Fracture	В	Bulging	J 20
J	Open Joints	STLG	Stalactites	1.5m ²
H	Hollow/Drummy	CLCT	Calcite Growth	↑
ST	Soot Deposits	L	Leaching	Area





ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/0	06/18
Route:	Somerset and Dorset					OS ref: ST 615 451	
Name:	Wind	lsor Hill New Tunr	nel			Type: Tunnel	

Name of Part :	G-good	Remarks (Refer to parts by name)
ranic of fait.	F-fair	Remarks (Refer to parts by hame)
	P-poor	
Main Girders	N/A	
Cross Girders	N/A	
Crown	F	
Haunches	F	
Sidewalls	F	
Face Rings to portal	F	
Spandrels	F	
Abutments	N/A	
Headwalls	F	
Buttresses	N/A	
Wing & Retaining Walls	F	
Pointing	F	
Parapets & Pilasters	F	
Columns & Cylinders	N/A	
Trestles & Crossheads	N/A	
Bedstones & Cills	N/A	
Bearings	N/A	
Waterproofing	N/E	
Drainage	N/A	
Gutters & Downpipes	N/A	
Handrails	N/A	
Painting	N/A	
Track/Road Condition	G	
Foundation	N/E	
Vegetation	F	
Bridge Number/ Mileage	G	
	1	
TICK AS APPROPRIATE		Notes/Comments:
Change of Construction		Foundations not examined No defects found that suggest foundation failure
Weight Restriction Plates	,	No defects found that suggest foundation failure.
Inaccessible Parts	√	
Tell Tales		
Plumbing Points		



ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06	/18
Route:	Somerset and Dorset					OS ref: ST 615 451	
Name:	Wind	lsor Hill New Tuni	nel			Type: Tunnel	



ELR:	SAD	Structure No:	77	Mileage: 1	9m 52ch	Examination date: 13/00	5/18
Route:	Some	erset and Dorset				OS ref: ST 615 451	
Name:	Wind	lsor Hill New Tun	nel		ŗ	Type: Tunnel	
No fencing to rear of headwall. Steep	embankment to rear (P8).						
		Ivy	P3)				

No fencing to rear of	embankment to rear	(P8).				
Windsor Hill (New) Tunnel SAD 19m 52ch	Country end portal (cover photo)	Downside spandrel/ wingwall Moss, lichen and ivy cover approximately 60% of the spandrel (P1) with headwall copings entirely moss/ ivy covered throughout.	Spandrel generally found to be in good condition with no significant defects and firm to hammer.	Long-standing single masonry unit missing in spandrel/ wingwall (P2). Minor diagonal fracture to area above mid haunch and adjacent to missing unit open 1 mm 300mm long (P3)	Headwall Three brick face rings in good condition with joint loss to 10mm max (P4). Area of open joints to downside spandrel (above barrel) approximately 1.5m² up to 50mm deep (P5). Light vegetation overhanging the portal with top section moss covered Upside spandrel/ wingwall Wingwall generally found to be in good condition with no significant defects. Moss, lichen and ivy cover approximately 80% of the spandrel (P6). Long-standing single masonry unit missing to spandrel/ wingwall at centre (P7) –firm to hammer	





ELR:	SAD Structure No: 77 Mileage: 19.	m 52ch Examination date: 13/06/18
Route:	Somerset and Dorset	OS ref: ST 615 451
Name:	Windsor Hill New Tunnel	Type: Tunnel

	Sidewall	Haunch	Crown	Haunch	Sidewall	
			London end			
0	Good CJ	F h/l 2.5m long (P13)	Good	Good	Good CJ (P12)	0
	Good	Good	Good	Good	Good]
1	Good	Good	Good	Good	Good	1
	w	Good	Good	Good	Good]
2	Good	Isol. wet patches	Good	Isol. wet patches	Good	2
	Good	Good	Good	Good	Good	
3	Good	Good	Good (P11)	Good	Good	3
	Good	H (isol.)	Good (Isol. wet in places) (P10)	Good	Good	
4	Good	Isol. wet patches	Good	W (patches)	Good	4
	Good	Isol. wet patches	Good	D	D	
5	Good	D J60 x 0.5m ² Water staining	Good	WS	WS (P9)	5
	Good	d Good Good		Good	Good	

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset				OS ref: ST 615 451
Name:	Wine	dsor Hill New Tunr	nel			Type: Tunnel

highways england



Photograph no 1: Moss, lichen and ivy cover approximately 60% of the DC spandrel



Photograph no 2: Long-standing single masonry unit missing in DC spandrel/wingwall

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Some	erset and Dorset	OS ref: ST 615 451			
Name:	Wind	dsor Hill New Tunn	nel			Type: Tunnel



Photograph no 3: Minor diagonal fracture to area above DC mid haunch and adjacent to missing unit open 1mm 300mm long



Photograph no 4: CE headwall
Three brick face rings in good condition with joint loss to 10mm max

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset				OS ref: ST 615 451
Name:	Wind	dsor Hill New Tuni	nel			Type: Tunnel



Photograph no 5: CE headwall
Area of open joints to downside spandrel (above barrel) approximately 1.5m² up to 50mm deep



Photograph no 6: Moss, lichen and ivy cover approximately 80% of the UC spandrel

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date:	13/06/18
Route:	Some	erset and Dorset	OS ref: ST 615 451				
Name:	Wind	dsor Hill New Tuni	nel			Type: Tunnel	



Photograph no 7: Long-standing single masonry unit missing to UC spandrel/ wingwall at centre



Photograph no 8: No fencing to rear of CE headwall Steep embankment to rear

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Wine	dsor Hill New Tuni	nel			Type: Tunnel



Photograph no 9: Water staining to DS sidewall at 5ch



Photograph no 10: Crown at 3.5ch Isolated wet patches

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date:	13/06/18
Route:	Some	erset and Dorset		OS ref: ST 615 451			
Name:	Wind	dsor Hill New Tunn	nel		Type: Tunnel		

highways england



Photograph no 11: Crown at 3ch in good condition



Photograph no 12: Construction joint from haunch to haunch at 0.5m

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Wind	dsor Hill New Tunr	nel			Type: Tunnel



Photograph no 13: Fracture to U/S haunch at London end 2.5m long



Photograph no 14: London end Masbury portal

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date:	13/06/18
Route:	Some	erset and Dorset	OS ref: ST 615 451				
Name:	Wind	dsor Hill New Tuni	Type: Tunnel				



Photograph no 15: DL spandrel/ wingwall: open joints, mainly to bed joints 0.5m2 to 50mm



Photograph no 16: DL spandrel/ wingwall: coping course entirely moss covered with fallen tree to rear

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset		OS ref: ST 615 451		
Name:	Wine	dsor Hill New Tuni	nel			Type: Tunnel



Photograph no 17: Long-standing missing unit to base of DL wingwall



Photograph no 18: Step fracture runs from base of DL wingwall (obscured by moss in places) stepping up 6no courses then as horizontal fracture to mid haunch 2.5m long open 1mm

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Wind	dsor Hill New Tunr	nel			Type: Tunnel



Photograph no 19: As photo 18



Photograph no 20: LE headwall Four brick face rings in good condition with minor joint loss to first ring

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Wind	dsor Hill New Tunr	nel			Type: Tunnel



Photograph no 21: LE headwall
Separation fracture (long-standing) runs from DS upper haunch to US mid haunch, open to 2mm between masonry headwall and brick face rings



Photograph no 22: Moss, lichen and ivy cover approximately 75% of the U/L spandrel



ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Windsor Hill New Tunnel				Type: Tunnel	



Photograph no 23: Open joints, largely to bed joints, to UL spandrel approximately 3m² up to 40mm deep



Photograph no 24: Single masonry unit missing (heavily moss covered)

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	ite: Somerset and Dorset					OS ref: ST 615 451
Name:	Windsor Hill New Tunnel					Type: Tunnel

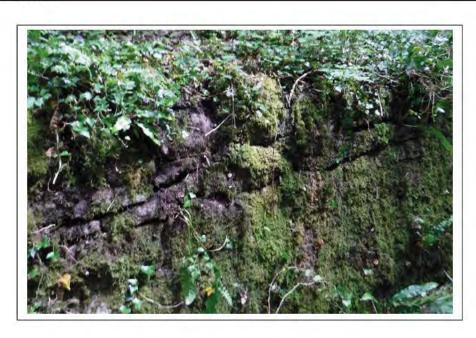


Photograph no 25: DL retaining wall Moss and lichen cover 95% of the structure



Photograph no 26: Horizontal stepped fracture noted to middle section of DL retaining wall 1.5m above G/L, 3.5m long, open 5mm

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Windsor Hill New Tunnel				Type: Tunnel	



Photograph no 27: DL retaining wall
Odd open joints up to 90mm deep from 75mm deep adjacent to quoin to 5 linear metres



Photograph no 28: LE portal is unfenced to rear

ELR:	SAD	Structure No:	77	Mileage: 19m	1 52ch	Examination date: 13/06/18
Route:	Somerset and Dorset					OS ref : ST 615 451
Name:	Windsor Hill New Tunnel				Type: Tunnel	



Photograph no 29: The post and wire boundary fence above the CE portal has partially failed This old fence line is 5m from road with 12m drop beyond the fence line to formation level (arrowed)



Photograph no 30: The post and wire boundary fence above the CE portal has partially failed This old fence line is 5m from road with 12m drop beyond the fence line to formation level (arrowed)

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	e: Somerset and Dorset					OS ref: ST 615 451
Name:	Windsor Hill New Tunnel				Type: Tunnel	



Photograph no 31: The post and wire boundary fence above the CE portal has completely failed (long standing)



Photograph no 32: The structure carries agricultural land, woodland, and a single carriageway unclassified road. No deformation or subsidence of the road surface was observed

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/06/18
Route:	Some	erset and Dorset	OS ref: ST 615 451			
Name:	Windsor Hill New Tunnel				Type: Tunnel	



Photograph no 33: The LE portal is in remote woodland



Balfour Beatty

Rail

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date:	13/10/16
Route:	Somerset and Dorset					OS ref: ST 615 451	
Name:	Windsor Hill New Tunnel				Type: Tunnel		

General view of structure: CE portal



Examiner comments

Owner reports that activity in the tunnel, caused by trespassers, has increased over the last 12 months. Owner requested that warning signs are placed at the tunnel portals and above.

No change to minor defects at CE portal (p1)

No change to minor transverse fracture to UC haunch at CE portal (p2)

Barrel is in good condition throughout (p3)

Separation fracture at extrados of LE face rings remains open 2mm (p4)

A Visual Examination of this structure has been carried out and any deterioration in condition or development of defects or other factors, which might place at risk the public at large, is recorded in the Examiner's Comments section of this document.

Examiner: 13/10/16

Access Hazards:

Access is gained from the unclassified road "Ham Lane" located North of Shepton Mallett. The old track formation is reached via a footpath on the downside to the Country (SE) end. Alternative access is available via

Recommendations:

No action required.

Signed by Examining Engineer:



Richard Storey 2016.10.28 22:11:50 +01'00'



Balfour Beatty Rail

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/10/16
Route:	Somerset and Dorset					OS ref: ST 615 451
Name:	Wind	Windsor Hill New Tunnel				Type: Tunnel

No fencing to rear of LE headwall (remote location although anecdotal evidence may suggest trespass) (p6)

Pressure read	lings	Gases	
C/end	990.7 mb	O_2	20.7%
At centre	990.5mb	H_2S	Zero
L/end	990.4 mb	$\mathrm{CH_4}$	Zero
		CO	1ppm

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/10/16
Route:	Somerset and Dorset					OS ref: ST 615 451
Name:	Windsor Hill New Tunnel					Type: Tunnel



Photograph no 1: No change to minor defects at CE portal



Photograph no 2: No change to minor transverse fracture to UC haunch at CE portal

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/10/16
Route:	Some	erset and Dorset	OS ref: ST 615 451			
Name:	Windsor Hill New Tunnel					Type: Tunnel

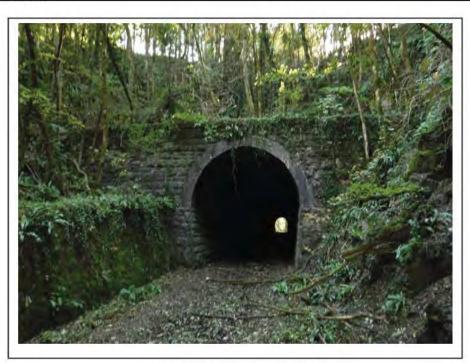


Photograph no 3: Barrel is in good condition throughout

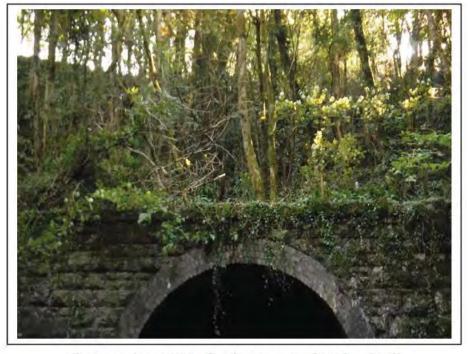


Photograph no 4: Separation fracture at extrados of LE face rings remains open 2mm

ELR:	SAD	Structure No:	77	Mileage:	19m 52ch	Examination date: 13/1	0/16
Route: Somerset and Dorset					OS ref: ST 615 451		
Name:	Windsor Hill New Tunnel					Type: Tunnel	



Photograph no 5: LE portal



Photograph no 6: No fencing to rear of LE headwall

Balfour Beatty Rail

ELR:	SAD	Structure No:	77	Mileage: 19m 52c	Examination date: 30/05/17
Route:	Some	erset and Dorset			OS ref: ST 615 451
Name:	Wind	lsor Hill New Tunr	nel	Type: Tunnel	

General view of structure: C/e portal



Examiner comments

Once again, the adjacent landowner reports that there has been trespass and anti-social activity in the tunnel area. Again, no sign of any mis-use of the tunnel (e.g. fires, needles, graffiti etc.) was noted during the examination.

No change to minor defects at CE portal with unit missing to UC (P1).

No change to minor transverse fracture to UC mid haunch (P2).

The barrel remains in very good condition (P3).

Separation fracture to extrados of LE face rings remains open to 2mm (P4).

Visual Examination of this structure has been carried out and any deterioration in condition or development of defects or other factors, which might place at risk the public at large, is recorded in the Examiner's Comments section of this document.

Signed: **Examiner:** Date: 30/05/17

Access Hazards:

Access is to top is gained via Ham Lane. The old formation level is reached via a consensual footpath via No access possible between top and bottom

levels (steep rock cuttings)

Recommendations:

Consider repair of rear fencing above structure (remote location) - P1 £10k.

Signed by Examining Engineer:



ELR:	SAD Structure No: 7'	Mileage: 19m 52c	Examination date: 30/05/17
Route:	Somerset and Dorset		OS ref: ST 615 451
Name:	Windsor Hill New Tunnel		Type: Tunnel

Examiner Comments on Structure condition

Fencing to rear of headwalls and CE and LE has only posts remaining (P5 and 6)

Pressure readings

LE – 993.9 mb Centre – 994.1 mb

CE – 994.2 mb

Gasses

O2 - 20.8 - 20.9%

H2S – Zero

CH4 – Zero

CO - 1 ppm

ELR:	SAD	Structure No:	77	Mileage:	19m 52c	Examination date: 30/05/17
Route: Somerset and Dorset						OS ref: ST 615 451
Name:	Wind	dsor Hill New Tunr	Type: Tunnel			



Pho ograph

no 1: UC portal



Photograph no 2: transverse fracture to UC haunch shows no change

ELR:	SAD	Structure No:	77	Mileage:	19m 52c	Examination date: 30/05/17
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Wind	dsor Hill New Tuni	Type: Tunnel			



Photograph no 3: barrel remains in good condition (view to CE)



Photograph no 4: separation fracture at LE extrados shows no change

Rail

ELR:	SAD	Structure No:	77	Mileage:	19m 52c	Examination date: 30/05/17
Route:	Some	erset and Dorset	OS ref: ST 615 451			
Name:	Wind	dsor Hill New Tuni	Type: Tunnel			

Photographs of structure



Pho ograph

no 5: Fencing to rear of UL portal – all wires missing



Pho ograph

no 6: Fencing to rear of UC portal – all wires missing

ELR:	SAD	Structure No:	77	Mileage: 19m 52	2c Examination date: 30/05/17
Route:	Som	erset and Dorset	OS ref: ST 615 451		
Name:	Wind	dsor Hill New Tunn	Type: Tunnel		



Photograph no 7: LE portal

Balfour Beatty

Rail

ELR:	SAD	Structure No:	77	Mileage: 19m 52c	Examination date: 13/6/19
Route:	Some	erset and Dorset	OS ref: ST 615 451		
Name:	Wind	dsor Hill New Tuni	Type: Tunnel		

General view of structure: C/e portal



Examiner comments

New fencing installed to rear of CE portal (Kee-Klamp): mesh has been removed by vandals (P1, P2) so that only the end mesh panels remain. Damage noted to hinge protection at UC (top hinge) suggests high risk of further vandalism (P9).

No change to transverse fracture to UL haunch at portal (P3).

Barrel in very good condition and dry throughout **(P4)**.

New fencing installed to rear of UC portal is found intact throughout (P6, P7).

A Visual Examination of this structure has been carried out and any deterioration in condition or development of defects or other factors, which might place at risk the public at large, is recorded in the Examiner's Comments section of this document.

Examiner:		Signed:	
Date:	25/6/19		

Access Hazards:

Access is to top is gained via Ham Lane thence down a public footpath to the east of old Windsor Tunnel. No access possible between top and bottom levels (steep rock cuttings)

Recommendations:

Repair/renew mesh to CE portal fencing and hinge protection to UC gate - P1 £750.

Signed by Examining Engineer:



ELR:	SAD Structure No: 77 M	e: 19m 52c Examination date: 13/6/19
Route:	Somerset and Dorset	OS ref: ST 615 451
Name:	Windsor Hill New Tunnel	Type: Tunnel

Examiner Comments on Structure condition

Separation fracture to LE portal extrados shows no change (P8).

Pressure readings

LE – 981.0 mb

Centre – 981.1 mb

CE – 981.1 mb

Gasses

O2 - 20.9%

H2S – Zero

CH4 – Zero

CO - 1 ppm

 $CO_2 - 202 \text{ ppm}$

ELR:	SAD	Structure No:	77	Mileage: 19m 52c	Examination date: 13/6/19
Route:	Some	erset and Dorset	OS ref: ST 615 451		
Name:	Wind	dsor Hill New Tunn	Type: Tunnel		



Photograph no 1: UC portal fencing



Photograph no 2: UC portal fencing

ELR:	SAD	Structure No:	77	Mileage: 19	m 52c	Examination date: 13/6/19
Route:	Som	erset and Dorset	OS ref: ST 615 451			
Name:	Wine	dsor Hill New Tunn	Type: Tunnel			



Photograph no 3: Transverse fracture to UL barrel shows no change



Photograph no 4: barrel in very good condition and dry throughout

Bridge and Structures Examinations Southern Area Bridge Examinations Visual Examination Report

ELR:	SAD	Structure No:	77	Mileage: 19m 52c	Examination date: 13/6/19
Route:	Som	erset and Dorset	OS ref: ST 615 451		
Name:	Wine	dsor Hill New Tunn	Type: Tunnel		

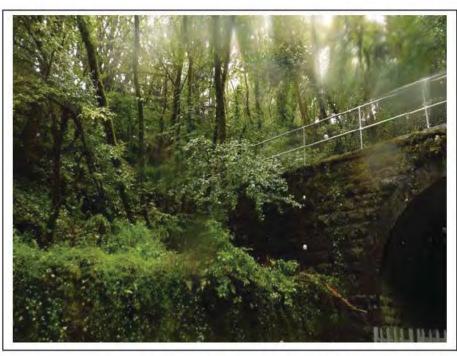


Photograph no 5: LE portal



Photograph no 6: New fencing installed to rear of UC portal is found intact throughout

ELR:	SAD	Structure No:	77	Mileage: 19m 52c	Examination date: 13/6/19
Route:	Some	erset and Dorset	OS ref: ST 615 451		
Name:	Wind	dsor Hill New Tunn	Type: Tunnel		



Photograph no 7: New fencing installed to rear of UC portal is found intact throughout



Photograph no 8: Separation fracture to LE portal extrados shows no change

Bridge and Structures Examinations Southern Area Bridge Examinations Visual Examination Report

ELR:	SAD	Structure No:	77	Mileage: 19m 52c	Examination date: 13/6/19
Route:	Som	erset and Dorset	OS ref: ST 615 451		
Name:	Wind	dsor Hill New Tuni	Type: Tunnel		



Photograph no 9: Damage noted to hinge protection at UC (top hinge) suggests high risk of further vandalism

Bridge and Structures Examinations Southern Area Bridge Examinations Visual Examination Report

Balfour Beatty Rail

ELR:	SAD	Structure No:	77	Mileage: 19m 54ch	Examination date: 23/6/20
Route:	Som	erset & Dorset	OS ref: ST 615 451		
Name:	New	Windsor Hill Tunn	Type: Tunnel		

General view of structure: LE portal

Examiner comments

LE fencing at formation level (P1) is found with damage to hinge covers (P2) and to isolated palisade spike (P3). CE fencing is secure throughout (P8). Fencing to rear of LE headwall is found secure (P4). CE headwall fencing remains with mesh largely missing (P9)

No change to transverse fracture at UL haunch near portal (P5) or extrados fracture at DL portal.

New graffiti noted to DC sidewall (P7)

Lon standing bed joint fracture to copings shows no change (P10)

A Visual Examination of this structure has been carried out and any deterioration in condition or development of defects or other factors, which might place at risk the public at large, is recorded in the Examiner's Comments section of this document.

Examiner: Date: 28/6/20

Signed:

Access Hazards: Minor slip/trip hazards. Access at LE via footpath to DC

Pressure readings LE - 1024.1mb

Centre - 1024.1mb CE - 1023.9 mb

Gases $O_2 - 20.9\%$

H₂S - zero CH4 - zero CO - zero

 $CO_2 - 147ppm$

Recommendations:

Repair damage to LE formation fencing and replace mesh to CE portal fencing - P1 £750.

Signed by Examining Engineer:

ELR:	SAD	Structure No:	77	Mileage:	19m 54ch	Examination date: 23/6/20
Route:	Som	erset & Dorset	OS ref : ST 615 451			
Name:	New	Windsor Hill Tunn	nel			Type: Tunnel



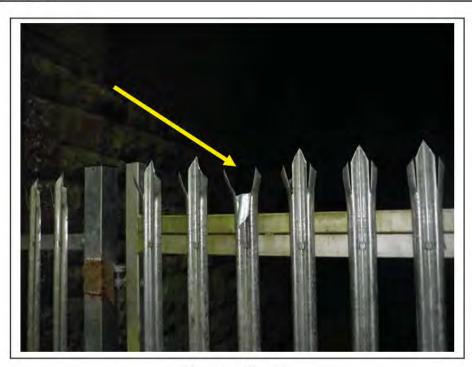
Photograph no 1: LE security fencing





Photograph no 2: Damaged hinge cover to LE gates

ELR:	SAD	Structure No:	77	Mileage:	19m 54ch	Examination date: 23/6/20
Route:	Som	erset & Dorset	OS ref : ST 615 451			
Name:	New	Windsor Hill Tunn	nel			Type: Tunnel



Photograph no 3: Bent spike to LE gates

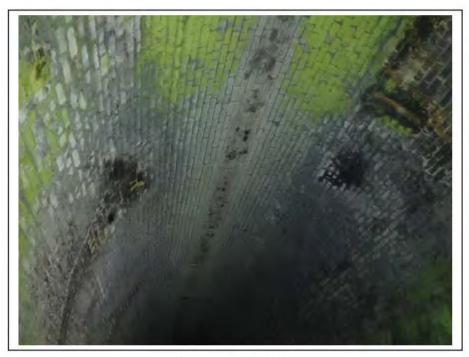


Photograph no 4: Fencing to rear of headwall found secure

ELR:	SAD	Structure No:	77	Mileage:	19m 54ch	Examination date: 23/6/20		
Route:	Somerset & Dorset					OS ref: ST 615 451		
Name:	New	Windsor Hill Tunr	nel			Type: Tunnel		



Photograph no 5: Transverse fracture to UL haunch shows no change



Photograph no 6: Barrel in good condition throughout - view to CE from LE portal

ELR:	SAD	Structure No:	77	Mileage:	19m 54ch	Examination date: 23/6/20
Route:	Som	erset & Dorset	OS ref: ST 615 451			
Name:	New	Windsor Hill Tunn	Type: Tunnel			



Photograph no 7: New graffiti noted to DC sidewall near portal



Photograph no 8: CE fencing at formation found secure

ELR:	SAD	Structure No:	77	Mileage:	19m 54ch	Examination date: 23/6/20
Route:	Som	erset & Dorset	OS ref : ST 615 451			
Name:	New	Windsor Hill Tunn	Type: Tunnel			



Photograph no 9: CE headwall fencing remains with mesh missing



Photograph no 10: Long standing bed joint fracture to CE portal copings shows no change

ELR:	SAD	Structure No:	77	Mileage:	19m 54ch	Examination date: 23/6/20
Route:	Som	erset & Dorset	OS ref : ST 615 451			
Name:	New	Windsor Hill Tuni	Type: Tunnel			



Photograph no 11: CE portal



Photograph no 12: Ce portal fencing from road level (approx. 12m above)